Army

Justification Book of

Other Procurement, Army

Communications and Electronics Equipment, Budget Activity 2
The following Justification Books were prepared at a cost of $1,187,353.84: Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical & Support Vehicles, Other Procurement Army (OPA) 2 - Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 6, and Budget Activity 7.
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**Budget Activity 02: Communications and Electronics Equipment**

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Comm - C3 System

Comm - Combat Communications
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P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 29, 2015 at 14:16:27
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P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 29, 2015 at 14:16:27
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### Appropriation: 2035A Other Procurement, Army

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UNCLASSIFIED

Department of the Army
FY 2016 President's Budget
Exhibit P-1 FY 2016 President's Budget
Total Obligational Authority
(Dollars in Thousands)

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## Army LI BW7100 - WIN-T - Ground Forces Tactical Network

### Resource Summary

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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<td>Procurement Quantity (Units in Each)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>2,830.556</td>
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**Total:** 2,830.556

### Description:

Warfighter Information Network - Tactical (WIN-T) connects all users to each other from theater down to the maneuver battalion, to joint and multinational elements, and the Defense Information System Network (DISN). WIN-T employs a combination of terrestrial, airborne, and satellite-based transport options, to provide robust, redundant connectivity. Network modernization is the Army's top priority, and WIN-T is its cornerstone program. It enables mission command on the move, keeping highly mobile and dispersed forces connected to one another and to the Army's global information network. With essential voice, video, and data services, commanders can make decisions faster than ever before and from anywhere on the battlefield. WIN-T's infrastructure provides commanders and other users the ability to communicate via voice, data, and video simultaneously at all levels of security.

**WIN-T Increment 1: Networking At-the-Halt**

A state-of-the-art, Beyond Line of Sight, at-the-halt communications network that ensures operational relevancy and interoperability with future increments. It provides the current Warfighter with communications backbone that enables them to exchange information (voice, data, and video) at high speeds with high reliability throughout the tactical Division, Brigade Combat Teams (BCTs), and Battalion level elements. Two sub-increments are noted as follows: (Increment 1a): Extended Networking at-the-Halt - with Ka military satellite communications capability; and (Increment 1b): Enhanced Networking at-the-Halt, the Increment 1a capability adding the Net Centric Waveform (NCW) and Global Information Grid (GIG) Compliant Colorless Core Capability to enhance interoperability with subsequent WIN-T Increments. WIN-T Inc 1 AAO is 216; reached in FY12.

**WIN-T Increment 2: Initial Networking On-the-Move**

Warfighter Information Network (WIN-T) Increment 2 (Inc 2) provides the Army with On-The-Move (OTM) networking capability. The Inc 2 network retains capabilities delivered by WIN-T Inc 1 and by leveraging proven government and commercial technologies, adds greater network throughput and automated Network Management to optimize planning (to include spectrum use), initialization, monitoring and troubleshooting. WIN-T Inc 2 employs Satellite Communications (SATCOM) OTM to extend the network in maneuver Brigade Combat Teams (BCTs) to Company level for the first time. Using equipment mounted on combat platforms, WIN-T Inc 2 delivers a mobile capability that reduces reliance on fixed infrastructure and allows key leaders to move on the battlefield while retaining Situational Awareness and Mission Command capabilities. Using the Highband Networking Radio, with the Highband Networking Waveform and high performance antennas, the WIN-T Inc 2 Line-of-Sight network offers an adaptive 30 Megabit per second (Mbps) aggregate throughput to key leaders in their Command Post or in their vehicle. The WIN-T Inc 2 network is self-forming, which means that it automatically creates transmission paths based on terrain and environmental conditions; and self-healing, meaning that the paths will automatically re-route traffic to complete network transactions and calls even if one or more nodes break down or loses connectivity. This offers greater network reliability and better end-to-end connectivity than traditional point-to-point networks. WIN-T Inc 2 introduces the network management capability needed to keep the...
mobile and dispersed forces networked together through automated planning, initialization, monitoring, and troubleshooting. Finally, WIN-T Inc 2 adopts “Colorless Core” technology that encrypts both classified and unclassified user information in the network and minimizes the number of users on the “core” of the network. The Colorless Core allows commanders to utilize the tactical network without fear of the enemy intercepting information. Colorless Core is a technical insertion in the WIN-T Inc 1b network which enhances information sharing between WIN-T Inc 1b and WIN-T Inc 2.

The WIN-T Inc 2 capabilities are identified for fielding to Armored, Infantry, and Stryker BCTs and Division Headquarters. The Point of Presence and the Tactical Communications Node have both satellite and Line-of-Sight communication capability. The Soldier Network Extension (SNE) provides satellite communication only. The Point of Presence and the Tactical Communications Node are deployed at Division, Brigade and Battalion echelons. The SNE serves as the S3 vehicle at Battalion level and is also deployed down to Company level.

WIN-T Inc 3 mature technologies will be inserted into WIN-T Inc 2 units.

Area Common User System Modernization (ACUS MOD): Supports the Bridge to Future Networks (BFN) systems architecture as the Army’s intermediate networking solution. Supports the Army’s Transformation/Modularity initiatives by developing, procuring, and fielding product improvements into the Army’s Stryker Brigade Combat Teams (SBCTs) and 24 Expeditionary Signal Battalions (ESBs). Also provides support to those systems that were fielded under the Area Common User System Modernization Plan (ACUS MP). Overall, ACUS Mod supports the Army’s mission by providing Ethernet local area network communications between Tactical Operational Centers (TOC); TOC & Tactical Internet network management capabilities; integrated voice, video and data services; Line of Sight (LOS) and Beyond Line of Sight (BLOS) transmission capability.

The ACUS Mod systems consists of: the High Capacity Line of Sight (HCLOS/AN/TRC-190) radio which provides a 16Mbps line of site transmission capability required to transport the increased volume of data on the digital battlefield; the Battlefield Video-Teleconferencing Center (BVTC) provides Video Teleconference (VTC) and data collaboration to assist the commander in coordinating and interacting with different echelons and adjacent units; the AN/TRC-170 tropospheric scatter radio which provides Beyond Line Of Sight (BLOS) communications with ranges in excess of 100 miles and bandwidth of up to 16 Mbps; and the Single Shelter Switch (SSS) which provides commanders with a “First In” capability and building block for network expansion. The SSS is enhanced to provide Joint and Coalition interoperability using Commercial-Off-The-Shelf and Government-Off-The-Shelf (COTS/GOTS) architecture for technology upgrade ease. The aforementioned systems are an integral part of the WIN-T Inc 1 system architecture. The Tactical NetOps Management System (TNMS) is a scalable modular NetOps capability that operates on multiple client or server platforms. It is fielded to units not provided with WIN-T Inc 1 NetOps capabilities. The TNMS will facilitate decision-making necessary to quickly identify network problems, shift resources, change configurations and coordinate the management of the critical network infrastructure supporting Mission Command (MC)/Command and Control (C2) functions.

These systems will be fielded to WIN-T Increment 1 units according to the Army Force Generation (ARFORGEN) schedule. WIN-T ACUS Mod AAO: 24 ESBs.

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LI BW71000 - WIN-T - Ground Forces Tactical Network

UNCLASSIFIED

Page 2 of 24

P-1 Line #16
Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 12: Comm - Joint Communications

P-1 Line Item Number / Title:
BW7100 / WIN-T - Ground Forces Tactical Network

ID Code (A=Service Ready, B=Not Service Ready) : A

Program Elements for Code B Items:
Other Related Program Elements: 0603782A, 0605350A, 0300349A

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### Justification:

FY 2016 Base procurement dollars in the amount of $783.116 million supports WIN-T Increments 1, 2 and ACUS MOD requirements below:

WIN-T Inc 1: FY 2016 Base procurement dollars in the amount of $200,437 million supports:

(a) The fielding of 31 Modification Work Order (MWO) Kits (which includes Colorless Core and Net Centric Waveform (NCW) Modems) to support Increment 1b Army units (Expeditionary Signal Battalions (ESBs), BCTs and Divisions).

(b) NetOps Convergence of disparate tactical NetOps tools to a common baseline and alignment with other WIN-T Increments.

(c) Technical refresh and modernization are critical to ensure the Army's tactical network maintains its security posture and compliance with new Information Assurance policies. WIN-T Inc 1 is executing a 5-year tech refresh cycle to counter obsolescence and inability to sustain COTS IT components. A 5-year tech refresh cycle equates to 20% of the fleet annually (32-40 units of various sizes will undergo tech refresh annually). Modernizing through virtualization reduces life cycle costs by reducing Size, Weight, and Power through collapsing and converging capabilities that previously resided on individual hardware components into virtual servers, and leveraging common COTS solutions across various programs.

All of the WIN-T Inc 1 FY16 efforts enable Army units to communicate more efficiently with WIN-T Inc 2 units and enhances WIN-T Inc 1 information assurance and information security.

WIN-T Inc 2: FY 2016 Base procurement dollars in the amount of $504,463 million procures 248 communications nodes (39 TCNs, 167 SNEs, 42 PoPs) and 1,240 other Configuration Items for fielding to 3 Infantry BCTs, 3 Divisions, and 6 units that have a third battalion added to their organization as part of the Army force structure changes. FY 2016 funds will also continue to fund and support previously procured assets.

WIN-T Inc 2 unit of measure quantity shown on P-21 is based on Communications Nodes, which consist of Tactical Communications Node (TCN), Points of Presence (PoP) and Soldier Network Extension (SNE).

An Acquisition Decision Memorandum on May 30, 2014 directed the restructure of WIN-T Inc 3. As a result of this restructure, and once approved in an updated Capability Production Document (CPD), the Army Acquisition Objective (AAO) for WIN-T Inc 2 will be 3,583 nodes. At present, the AAO for WIN-T Inc 2 is 2,937 nodes, based on quantities in the WIN-T Inc 2 CPD approved by the Joint Requirements Oversight Council on 25 Nov 08, and revised on 20 May 13.

WIN-T Inc 2 will be fielded based on the Army Force Generation cycle.

ACUS MODS: FY 2016 Base procurement dollars in the amount of $78.216 million will procure and field 283 Battlefield Video-Teleconferencing Center (BVTC) III systems to replace BVTC II which has reached end of life. The funds will also procure and field Tactical NetOps Management Systems (TNMS) to 89 units. The funds will also support fielding, logistics, tech refresh, unit validation tests, and program management support for the Single Shelter Switch (SSS), and HCLOS.

<table>
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<tr>
<th>Line Item MDAP/MAIS Code(s):</th>
<th>346, 349</th>
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<td>Exhibits Schedule</td>
<td>Item MDAP/MAIS Code(s):</td>
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<td>Prior Years</td>
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<td>BW7110 / INCREMENT 1 - NETWORKING AT THE HALT</td>
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<td>BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE</td>
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<td>BW7130 / WIN-T - ACUS MODS</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications

P-1 Line Item Number / Title:
BW7100 / WIN-T - Ground Forces Tactical Network

ID Code (A=Service Ready, B=Not Service Ready) : A

Program Elements for Code B Items:
0603782A, 0605350A, 0300349A

Other Related Program Elements: 0603782A, 0605350A, 0300349A

Line Item MDAP/MAIS Code: Item MDAP/MAIS Code(s): 346, 349

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."
### UNCLASSIFIED

**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12

**P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:** BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

**ID Code** (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code: 346

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#### Resource Summary

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<th>Resource Summary</th>
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<th>FY 2016 Base</th>
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<td>Procurement Quantity (Units in Each)</td>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>Net Procurement (P1) ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
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<td>211.731</td>
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*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ($ in Millions) | - | - | - | - | - | - |

Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - |

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**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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**UNCLASSIFIED**

**Army**

Page 6 of 24

P-1 Line #16
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

---

**ID Code** (A=Service Ready, B=Not Service Ready):

**MDAP/MAIS Code:** 346

---

*Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.*

---

**Secondary Distribution**

<table>
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<tr>
<th>Army</th>
<th>Quantity</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
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<td>211.731</td>
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<td>200.437</td>
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* (†) indicates the presence of a P-5a.

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**Prior Years**

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<th>FY 2015</th>
<th>FY 2016 Base</th>
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<td>-</td>
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</tr>
<tr>
<td>ESB NETOPS Kits (†)</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>BCT NETOPS Kits (†)</td>
<td>-</td>
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</tr>
<tr>
<td>Division NETOPS Kits (†)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>NETOPS Fielding</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>NETOPS Training</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Netops ENG/INTG</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>ESB Tech-Mod Kits (†)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>BCT Tech-Mod Kits (†)</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Division Tech-Mod Kits (†)</td>
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</tr>
<tr>
<td>Technical Refresh/ Modernization Fielding</td>
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</tr>
<tr>
<td>Technical Refresh/ Modernization Training</td>
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<td>Technical Refresh/ Modernization ENG/ INTG</td>
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<td>Subtotal: Recurring Cost</td>
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<td>Subtotal: Flyaway Cost</td>
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**UNCLASSIFIED**

**Army**

Page 7 of 24

P-1 Line #16
### Cost Elements

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<th>Cost Elements</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>ESB MWO kits(†)</td>
<td>2014</td>
<td>ESB MWO Kits / Various</td>
<td>C / FFP</td>
<td>Aberdeen Proving Ground, MD</td>
<td>Jan 2014</td>
<td>Jul 2014</td>
<td>9</td>
<td>3,288,000</td>
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<td>Nov 2013</td>
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<tr>
<td>ESB MWO kits(†)</td>
<td>2015</td>
<td>ESB MWO Kits / Various</td>
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<td>Jul 2015</td>
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<tr>
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<td>2014</td>
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<td>C / FFP</td>
<td>Aberdeen Proving Ground, MD</td>
<td>Jan 2014</td>
<td>Jul 2014</td>
<td>66</td>
<td>1,024,000</td>
<td>N</td>
<td>Nov 2013</td>
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<td>2015</td>
<td>BCT MWO Kits / Various</td>
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<td>Jul 2015</td>
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<td>Aberdeen Proving Ground, MD</td>
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</table>

(†) indicates the presence of a P-21

**Remarks:**

1. In FY12 - 37 units were procured and only 4 were fielded. The remaining 33 units are being fielded in FY13.
2. In FY13 - 59 units were procured and 27 of 59 were fielded in FY13 along with 33 units which were procured in FY12.
3. In FY14 - 83 units will be procured and 39 of 83 will be fielded in FY14 along with 32 units which were procured in FY13.
4. In FY15 - 31 units will be procured and 44 units will be fielded which were procured in FY14.
5. In FY16 - 31 units will be fielded which were procured in FY15

Various - Plan to use a combination of Global Tactical Advanced Communications Systems (GTACS), Common Hardware System (CHS) contract and in house agencies in order to achieve best value.
**Exhibit P-21, Production Schedule: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

---

### Cost Elements (Units in Each)

<table>
<thead>
<tr>
<th>O #</th>
<th>M</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC</th>
<th>QTY</th>
<th>ACCEPT PRIOR TO 1 OCT 2013</th>
<th>BAL DUE AS OF 1 OCT</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Exhibit P-21, Production Schedule:**

**PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
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**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

---

### Fiscal Year 2014

<table>
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<tr>
<th>Cost Elements</th>
<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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</thead>
<tbody>
<tr>
<td></td>
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**Exhibit P-21, Production Schedule:**

**PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
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**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

---

### Fiscal Year 2015

<table>
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<th>Cost Elements</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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</thead>
<tbody>
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**Exhibit P-21, Production Schedule:**

**PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

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### Fiscal Year 2015

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<tbody>
<tr>
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**Exhibit P-21, Production Schedule:**

**PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

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### Fiscal Year 2015

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<tbody>
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**Exhibit P-21, Production Schedule:**

**PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

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### Fiscal Year 2015

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<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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**Exhibit P-21, Production Schedule:**

**PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

---

### Fiscal Year 2015

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<tr>
<th>Cost Elements</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<tbody>
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**Exhibit P-21, Production Schedule:**

**PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

---

### Fiscal Year 2015

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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</thead>
<tbody>
<tr>
<td></td>
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**Exhibit P-21, Production Schedule:**

**PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

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### Fiscal Year 2015

<table>
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<tr>
<th>Cost Elements</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<tbody>
<tr>
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**Exhibit P-21, Production Schedule:**

**PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

---

### Fiscal Year 2015

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<tbody>
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**Exhibit P-21, Production Schedule: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

### Cost Elements (Units in Each)

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<th>FY</th>
<th>SERVICE</th>
<th>PROC QTY</th>
<th>ACCEPT PRIOR TO 1 OCT 2015</th>
<th>BAL DUE AS OF 1 OCT 2015</th>
<th>FISCAL YEAR 2016</th>
<th>CALENDAR YEAR 2016</th>
<th>FISCAL YEAR 2017</th>
<th>CALENDAR YEAR 2017</th>
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</thead>
<tbody>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| ESB MWO kits
| 1    | 2014 | ARMY    | 9         |                             |                            |                  |                     |                  |                     |
| 1    | 2015 | ARMY    | 3         |                             |                            |                  |                     |                  |                     |
| BCT MWO kits
| 2    | 2014 | ARMY    | 66        |                             |                            |                  |                     |                  |                     |
| 2    | 2015 | ARMY    | 27        | 9                            | 18                         | 2                | 2                   | 2                | 2                   |
| Division MWO kits
| 3    | 2014 | ARMY    | 8         |                             |                            |                  |                     |                  |                     |
| 3    | 2015 | ARMY    | 1         |                             |                            |                  |                     |                  |                     |
| ESB NETOPS Kits
| 4    | 2016 | ARMY    | 2         |                             |                            |                  |                     |                  |                     |
| BCT NETOPS kits
| 5    | 2016 | ARMY    | 30        |                             |                            | 6                | 6                   | 6                | 6                   |
| Division NETOPS Kits
| 6    | 2016 | ARMY    | 2         |                             |                            | 1                |                     |                  |                     |
| ESB Tech-Mod Kits
| 7    | 2016 | ARMY    | 2         |                             |                            | 1                |                     |                  |                     |
| BCT Tech-Mod Kits
| 8    | 2016 | ARMY    | 30        |                             |                            | 6                | 6                   | 6                | 6                   |
| Division Tech-Mod Kits
| 9    | 2016 | ARMY    | 2         |                             |                            | 1                |                     |                  |                     |

**Date:** February 2015
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7110 / INCREMENT 1 - NETWORKING AT THE HALT

**Date:** February 2015

**Remarks:**
In FY12, 37 units were procured and 4 were fielded. The remaining 33 units were fielded in FY13. In FY13, 59 units were procured and 27 of 59 were fielded in FY13 along with 33 units which were procured in FY12. In FY14, 83 units were procured and 39 of 83 were fielded, along with 32 units which were procured in FY13. In FY15, 31 units will be procured and 44 units will be fielded remaining from FY14. In FY16, 31 units will be fielded which were procured in FY15.

*A* in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
<th>Production Rates (Each / Month)</th>
<th>Initial</th>
<th>Procurement Leadtime (Months)</th>
<th>Reorder</th>
<th>Total After Oct 1</th>
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<td>10</td>
<td>20</td>
<td>1</td>
<td>ALT</td>
<td>4</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>BCT MWO Kits - Various</td>
<td>1</td>
<td>10</td>
<td>20</td>
<td>1</td>
<td>ALT</td>
<td>4</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>DIV MWO Kits - Various</td>
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<td>10</td>
<td>20</td>
<td>1</td>
<td>ALT</td>
<td>4</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
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<td>4</td>
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<td>20</td>
<td>1</td>
<td>ALT</td>
<td>4</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>DIV NETOPS Kits - GDC4S Taunton, MA</td>
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<td>10</td>
<td>20</td>
<td>1</td>
<td>ALT</td>
<td>4</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>ESB Tech-Mod Kits - GDC4S Taunton, MA</td>
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<td>10</td>
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<td>ALT</td>
<td>4</td>
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</tr>
<tr>
<td>8</td>
<td>BCT Tech-Mod Kits - GDC4S Taunton, MA</td>
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<td>1</td>
<td>ALT</td>
<td>4</td>
<td>10</td>
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</tr>
<tr>
<td>9</td>
<td>DIV Tech- Mod Kits - GDC4S Taunton, MA</td>
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<td>20</td>
<td>1</td>
<td>ALT</td>
<td>4</td>
<td>10</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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Total | 12 | 2035A / 02 / 12 | 2035A / 02 / 12 | 2035A / 02 / 12 | 2035A / 02 / 12 | 2035A / 02 / 12 | 2035A / 02 / 12
## Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12  
**P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network  
**Date:** February 2015  
**Item Number / Title [DODIC]:** BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE

### MDAP/MAIS Code: 349

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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<th>FY 2016 OCO</th>
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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE

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<th>Unit Cost ($K)</th>
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(†) indicates the presence of a P-21

**Remarks:**
Per ADM issued 27 Sept 13, OSD approved procurement of Lot 4 articles (excluding SNEs), and restricted Lot 5 procurement to Training Bases only. Procurement of Lot 4 SNEs and Lot 5 Hardware is deferred until FRP authorization in May 2015.

1. From FY09-FY13 - 19 BCTs and 6 DIV HQ were procured, along with 5 Fixed Regional Hubs and 1 Training Base; 5 BCTs and 2 DIV HQ along with 5 Regional Hub Nodes and 1 Training Base were fielded. *18 month cycle from Procurement to Fielding

2. In FY14 - 1 Training Base was procured; 7 BCTs and 2 DIV HQ were fielded. Procurement of 1 BCT and 1 DIV HQ were deferred pending FRP DR authorization.

3. In FY15 - 1 DIV HQ will be procured and 2 BCTs and 1 DIV HQ will be fielded, along with 1 Training Base.

4. In FY16 - 3 BCTs and 3 DIV HQs will be procured and will include procurement of additional nodes to support force structure changes that impact 6 previously-procured BCTs. 4 TAAs will be fielded.

5. In FY15-17, upon FRP decision, CIs restricted by ADM (Lots 4/5) will conclude procurement and allow fielding of an additional 4 BCTs.

*18 month cycle from Procurement to Fielding
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<tr>
<th>Cost Elements</th>
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#### TCN (COMM NODE)

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2. 2015 ARMY 9 9 -
3. 2016 ARMY 39 39 A -

#### SNE (COMM NODE - ADM Restricted)

Prior Years Deliveries: 432

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2. 2015 ARMY 93 93 -
3. 2016 ARMY 167 167 A -

#### SNE (COMM NODE - ADM Restricted)

Prior Years Deliveries: 213

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2. 2015 ARMY 18 18 -
3. 2016 ARMY 42 42 A -

#### PoP (COMM NODE - ADM Restricted)

Prior Years Deliveries: 213

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UNCLASSIFIED
Exhibit P-21, Production Schedule: PB 2016 Army

P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network

Item Number / Title [DODIC]: BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE

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LI BW7100 - WIN-T - Ground Forces Tactical Network

UNCLASSIFIED

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LI BW7100 - WIN-T - Ground Forces Tactical Network

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LI BW7100 - WIN-T - Ground Forces Tactical Network

UNCLASSIFIED

LI BW7100 - WIN-T - Ground Forces Tactical Network

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<td>ALT Prior to Oct 1</td>
<td>ALT After Oct 1</td>
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</table>

Remarks:
Initial and Reorder lead times for Admin and Manufacturing are the same due to long lead materials.

*A* in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
### Army LI BW7100 - WIN-T - Ground Forces Tactical Network

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#### Exhibit P-5, Cost Analysis: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12

**P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:** BW7130 / WIN-T - ACUS MODS

**Date:** February 2015

### Performance Summary

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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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#### Prior Years

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<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Gross/Weapon System Cost ($ in Millions)</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>407</td>
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#### FY 2014

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<tr>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>61.031</td>
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#### FY 2015

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
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#### FY 2016

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<td>61.031</td>
<td>78.216</td>
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#### Note:
Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

**Resource Summary**

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<th>Procurement Quantity (Units in Each)</th>
<th>Gross/Weapon System Cost ($ in Millions)</th>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>407</td>
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**Total**

<table>
<thead>
<tr>
<th>Gross/Weapon System Cost ($ in Millions)</th>
<th>FY 2016 Total</th>
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<td>61.031</td>
<td>78.216</td>
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**Initial Spares ($ in Millions)**

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**Gross/Weapon System Unit Cost ($ in Thousands)**

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**Prior Years**

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**Note:** The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.
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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7130 / WIN-T - ACUS MODS

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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
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(†) indicates the presence of a P-21
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<tr>
<td></td>
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Prior Years Deliveries: 286

TNMS

Prior Years Deliveries: 121

BVTC III

Prior Years Deliveries: 286

ANTRC-190 (HCLOS)
### Cost Elements (Units in Each)

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### Fiscal Year 2017

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### Appropriation / Budget Activity / Budget Sub Activity:
- 2035A / 02 / 12

### P-1 Line Item Number / Title:
- BW7100 / WIN-T - Ground Forces Tactical Network

### Item Number / Title [DODIC]:
- BW7130 / WIN-T - ACUS MODS
## Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
BW7100 / WIN-T - Ground Forces Tactical Network

**Item Number / Title [DODIC]:**
BW7130 / WIN-T - ACUS MODS

**Date:** February 2015

### Production Rates (Each / Month)

<table>
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<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
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<tbody>
<tr>
<td>1</td>
<td>Ultra Electronics(TRC-190) - Montreal, Canada</td>
<td>1</td>
<td>10</td>
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<tr>
<td>2</td>
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<td>15</td>
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### Procurement Leadtime (Months)

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>Initial</th>
<th>Reorder</th>
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<td></td>
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<td>ALT</td>
<td>Total</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mfg PLT</td>
<td>After Oct 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ALT</td>
<td>Total</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mfg PLT</td>
<td>After Oct 1</td>
</tr>
<tr>
<td>1</td>
<td>Ultra Electronics(TRC-190) - Montreal, Canada</td>
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<tr>
<td></td>
<td></td>
<td>ALT After Oct 1: 3</td>
<td>Mfg PLT: 3</td>
</tr>
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<td>2</td>
<td>GDC4S-TNMS - Taunton, MA</td>
<td>ALT Prior to Oct 1: 3</td>
<td>Mfg PLT: 3</td>
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<tr>
<td></td>
<td></td>
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<td>3</td>
<td>GDC4S-BVTC - Taunton, MA</td>
<td>ALT Prior to Oct 1: 3</td>
<td>Mfg PLT: 3</td>
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<tr>
<td></td>
<td></td>
<td>ALT After Oct 1: 3</td>
<td>Mfg PLT: 3</td>
</tr>
</tbody>
</table>

*"A" in the Delivery Schedule indicates the Contract Award Date.*

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
Description:
The Signal Modernization Program will provide upgrades to increase the capacity and capabilities of the Army units equipped with WIN-T Inc 1, IAW the capabilities described in the Transmission Systems Capability Production Document (CPD). These upgrades will enhance units' ability to support operations spanning the spectrum from combat operations to Homeland Defense and Disaster Relief by adding cellular phone capabilities, radio cross-banding, commercial internet access, new terrestrial and tropospheric scatter radio systems, and Top Secret Intel nodes to replace the aging TROJAN Spirit terminals. The initial effort will be to upgrade the Expeditionary Signal Battalions (ESB), which provide WIN-T Inc 1 communications support to large headquarters and Combat Support/Combat Service Support units that do not have organic WIN-T. In the future, funding will support converging tactical sustainment and medical communications systems into WIN-T.
**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 12: Comm - Joint Communications

**P-1 Line Item Number / Title:**
B00010 / Signal Modernization Program

**Date:** February 2015

**ID Code** (A=Service Ready, B=Not Service Ready):

<table>
<thead>
<tr>
<th>ID Code</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
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</thead>
<tbody>
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<td>0604818A</td>
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</table>

**Exhibits Schedule**

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<tr>
<th>Title*</th>
<th>Exhibits</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
</tr>
</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

Procurement funding is increasing in FY16 and beyond due to increased fielding quantities of new capabilities as source selection and acceptance testing are completed.

The Transmission Systems Capability Production Document (CPD) was Joint Requirements Oversight Council (JROC) approved 18 Dec 2014.

*In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
## Exhibit P-5, Cost Analysis: PB 2016 Army

**Resource Summary**

<table>
<thead>
<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>45.565</td>
<td>0.620</td>
<td>21.157</td>
<td>49.898</td>
<td>-</td>
<td>49.898</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>45.565</td>
<td>0.620</td>
<td>21.157</td>
<td>49.898</td>
<td>-</td>
<td>49.898</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>45.565</td>
<td>0.620</td>
<td>21.157</td>
<td>49.898</td>
<td>-</td>
<td>49.898</td>
</tr>
</tbody>
</table>

(Alternatives: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | 319,859 | 319,859 |

(continued in next table)

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Flyaway Cost</td>
<td></td>
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<tr>
<td>Hardware-Equipment</td>
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<td>-</td>
<td>17,100</td>
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<td>-</td>
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<tr>
<td>TS-SCI HW-Equipment(1)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>75,820</td>
</tr>
<tr>
<td>CCE/4G/WiFi HW-Equipment(1)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>337,111</td>
<td>36</td>
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<tr>
<td>Tropo/TRILOS HW-Equipment(1)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>Engineering Support</td>
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<td>Non-Recurring Engineering</td>
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<td>System Test / Validation</td>
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<td>Fielding</td>
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<td>Initial Spares</td>
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<tr>
<td>Subtotal: Recurring Cost</td>
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<td>45,565</td>
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<tr>
<td>Subtotal: Flyaway Cost</td>
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<td>45,565</td>
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<tr>
<td>Gross/Weapon System Cost</td>
<td>-</td>
<td>-</td>
<td>45,565</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
**Exhibit P-5, Cost Analysis:** PB 2016 Army

**P-1 Line Item Number / Title:** B00010 / Signal Modernization Program

**Item Number / Title [DODIC]:** B00010 / Signal Modernization Program

**Date:** February 2015

### Secondary Distribution

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<thead>
<tr>
<th>Army</th>
<th>FY 2014 Quantity</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Total</td>
<td>0.620</td>
<td>21.157</td>
<td>49.898</td>
<td>-</td>
<td>49.898</td>
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</table>

**Total Obligation Authority**

<table>
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<tr>
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<th>FY 2014 Quantity</th>
<th>FY 2015</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Total:</td>
<td>0.620</td>
<td>21.157</td>
<td>49.898</td>
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(†) indicates the presence of a P-5a
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<th>OCO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tr>
<td>TS-SCI HW-Equipment</td>
<td></td>
<td>2016</td>
<td>GDC4S CHS IV / Taunton, MA</td>
<td>C / IDIQ</td>
<td>Aberdeen Proving Ground, MD</td>
<td>Jan 2016</td>
<td>May 2016</td>
<td>50</td>
<td>75.820</td>
<td>Y</td>
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<tr>
<td>CCE/4G/WiFi HW-Equipment</td>
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<td>2015</td>
<td>GDC41S CHS IV / Taunton, MA</td>
<td>C / IDIQ</td>
<td>Aberdeen Proving Ground, MD</td>
<td>May 2015</td>
<td>Sep 2015</td>
<td>36</td>
<td>337.111</td>
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<td>Tropo /TRILOS HW-Equipment</td>
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<td>GTACS / Aberdeen Proving Ground, MD</td>
<td>C / IDIQ</td>
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(†) indicates the presence of a P-21
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<th>BAL DUE AS OF 1 OCT 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
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**Cost Elements (Units in Each)**

**TS-SCI HW-Equipment**

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<th>SERVICE</th>
<th>PROC QTY</th>
<th>ACCEPT PRIOR TO 1 OCT 2014</th>
<th>BAL DUE AS OF 1 OCT 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
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<tbody>
<tr>
<td>1</td>
<td>2016</td>
<td>ARMY</td>
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<td>-</td>
<td>50</td>
<td>A</td>
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**CCE/4G/WiFi HW-Equipment**

<table>
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<th>SERVICE</th>
<th>PROC QTY</th>
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<th>BAL DUE AS OF 1 OCT 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
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<tbody>
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<td>2</td>
<td>2015</td>
<td>ARMY</td>
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<tr>
<td>2</td>
<td>2016</td>
<td>ARMY</td>
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<td>-</td>
<td>90</td>
<td>A</td>
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**Tropo/TRILOS HW-Equipment**

<table>
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<th>PROC QTY</th>
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<th>BAL DUE AS OF 1 OCT 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<th>Calendar Year 2016</th>
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<tbody>
<tr>
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</table>
**Exhibit P-21, Production Schedule: PB 2016 Army**

<table>
<thead>
<tr>
<th>Cost Elements (Units in Each)</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
<th>Fiscal Year 2018</th>
<th>Calendar Year 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>M</td>
<td>F</td>
<td>C</td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>TS-SCI HW-Equipment</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>CCE/4G/WiFi HW-Equipment</td>
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<td></td>
<td></td>
</tr>
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<td></td>
<td>1</td>
<td>2015</td>
<td>ARMY</td>
<td>36</td>
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<tr>
<td></td>
<td>2</td>
<td>2016</td>
<td>ARMY</td>
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<tr>
<td>Tropo /TRILOS HW-Equipment</td>
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<tr>
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**Appropriation / Budget Activity / Budget Sub Activity:**

- 2035A / 02 / 12

**P-1 Line Item Number / Title:**

- B00010 / Signal Modernization Program

**Item Number / Title [DODIC]:**

- B00010 / Signal Modernization Program
**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12

**P-1 Line Item Number / Title:** B00010 / Signal Modernization Program

**Item Number / Title [DODIC]:** B00010 / Signal Modernization Program

**Date:** February 2015

### Production Rates (Each / Month)

<table>
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<th>MFR Name - Location</th>
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<th>1-8-5 For 2016</th>
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<td>55</td>
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<td>GDC41S CHS IV - Taunton, MA</td>
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<td>10</td>
<td>25</td>
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<tr>
<td>3</td>
<td>GTACS - Aberdeen Proving Ground, MD</td>
<td>1</td>
<td>5</td>
<td>20</td>
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### Procurement Leadtime (Months)

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<thead>
<tr>
<th></th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Total After Oct 1</th>
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<tbody>
<tr>
<td>MFR Name - Location</td>
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<td>4</td>
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<tr>
<td>GTACS - Aberdeen Proving Ground, MD</td>
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<td>6</td>
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</table>

*“A” in the Delivery Schedule indicates the Contract Award Date.*

**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics

Equipment / BSA 12: Comm - Joint Communications

---

**P-1 Line Item Number / Title:**
B00009 / Joint Incident Site Communications Capability

**Date:** February 2015

---

**Description:**
The Joint Incident Site Communications Capability (JISCC) provides interoperability communications support to the National Guard (NG) response forces and local first-responders in Defense Support of Civil Authorities (DSCA) missions/domestic emergencies. JISCC includes a modular system, support equipment, and team of trained JISCC operators and maintainers. JISCC provides critical capabilities to numerous NG missions to include large-scale pre-planned events, responses to man-made/natural disasters, and other civil support/humanitarian efforts. JISCC is a multi-platform communications bridge between first responders and other state, local, and federal agencies. Deployed in each state at the Joint Forces Headquarters (JFHQs), the JISCC is able to provide rapid incident response communications.

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**Resource Summary**

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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**Secondary Distribution**

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# Exhibit P-40, Budget Line Item Justification: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications

**P-1 Line Item Number / Title:**
B00009 / Joint Incident Site Communications Capability

**Date:** February 2015

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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<tbody>
<tr>
<td><strong>Title</strong></td>
<td><strong>Exhibits</strong></td>
<td><strong>ID CD</strong></td>
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<tr>
<td><strong>Exhibits Schedule</strong></td>
<td><strong>Prior Years</strong></td>
<td><strong>FY 2014</strong></td>
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<td></td>
<td><strong>FY 2015</strong></td>
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<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
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<td>P-5, P-5a, P-21</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**
FY 2016 Base Procurement dollars in the amount of $4.062 million support the procurement of nine (9) JISCC Delta Packages. A JISCC Delta Package includes Radio Bridging Voice Cross-Banding, Commercial Mission Network Enclave, Wireless and Cellular capabilities to support first responders and civil support missions.

The Transmission Systems Capability Production Document (CPD) was Joint Requirements Oversight Council (JROC) approved 18 Dec 2014.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

"The FY2016 funding request was reduced by $1.020 million to account for the availability of prior year execution balances."
## Exhibit P-5, Cost Analysis: PB 2016 Army

### P-1 Line Item Number / Title: B00009 / Joint Incident Site Communications Capability

### MDAP/MAIS Code: B00009 / Joint Incident Site Communications Capability

<table>
<thead>
<tr>
<th>ID Code</th>
<th>MDAP/MAIS Code:</th>
<th>Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12</th>
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### Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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<th>FY 2015</th>
<th>FY 2016 Base</th>
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<th>FY 2016 Total</th>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>7.915</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

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<tr>
<th>Value</th>
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<table>
<thead>
<tr>
<th>Value</th>
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### Gross/Weapon System Cost ($ in Millions)

<table>
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### Cost Elements

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<th>Recurring Cost</th>
<th>RHN Hardware</th>
<th>JISCC Delta Package Hardware(1)</th>
<th>Software</th>
<th>Integration</th>
<th>Training</th>
<th>Fielding</th>
<th>Spares</th>
<th>Program Management</th>
<th>Non-Recurring Engineering</th>
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<th>Subtotal: Flyaway Cost</th>
<th>Gross/Weapon System Cost</th>
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### Secondary Distribution

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### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12

**P-1 Line Item Number / Title:** B00009 / Joint Incident Site Communications Capability

**Item Number / Title [DODIC]:** B00009 / Joint Incident Site Communications Capability

**ID Code** (A=Service Ready, B=Not Service Ready):

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| Total: FY 2016 Total         | 4.062    |

(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning:

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 12

**P-1 Line Item Number / Title:**
B00009 / Joint Incident Site Communications Capability

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(†) indicates the presence of a P-21
Exhibit P-21, Production Schedule: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12

P-1 Line Item Number / Title: B00009 / Joint Incident Site Communications Capability

Item Number / Title [DODIC]: B00009 / Joint Incident Site Communications Capability

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<td>1 2016 ARMY 9 - 9</td>
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LI B00009 - Joint Incident Site Communications Capab...
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*"A" in the Delivery Schedule indicates the Contract Award Date.*

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
### Description:

JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE): JCSE, assigned under Joint Enabling Capabilities Command, US Transportation Command, is the only joint Department of Defense (DoD) unit specifically formed to provide C4 systems support for Joint Chiefs of Staff (JCS) contingency operations worldwide. The Joint Communications Support Element (JCSE) mission is to provide, on short notice, those critical communications required to support Joint Task Force support (JTF) and Joint Special Operations Task Force (JSOTF) headquarters. These assets support the warfighter's ability to deploy rapidly and immediately provide the positive command and control required. This support includes contingency and crisis communications for the Joint Chiefs of Staff, Combatant Commands, Services, Defense agencies, non-Defense agencies, and foreign governments. The modernization program goals include meeting emerging real-world operational requirements with improved capabilities, smaller footprint, reduced operations and maintenance costs, and seamless integration with the global information grid. Per Defense Planning Guidance (DPG), the Army is mandated to fund 1/3rd fair share of JCSE’s validated equipment modernization plan.

### Resource Summary

<table>
<thead>
<tr>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
</tr>
</thead>
<tbody>
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<td>Resource Summary</td>
<td></td>
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<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Net Procurement (P1) (in Millions)</td>
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<td>Plus CY Advance Procurement (in Millions)</td>
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<td>Total Obligation Authority (in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares (in Millions) | - | - | - | - | - | - | - | - |
| Flyway Unit Cost (in Thousands) | - | - | - | - | - | - | - | - |
| GROSS/Weapon System Unit Cost (in Thousands) | - | - | - | - | - | - | - | - |
**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 12: Comm - Joint Communications

**P-1 Line Item Number / Title:**
BB5777 / JCSE Equipment (USREDCOM)

**ID Code** (A=Service Ready, B=Not Service Ready):

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<th>Other Related Program Elements:</th>
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<td>Exhibits Schedule</td>
<td>Prior Years</td>
</tr>
<tr>
<td>ID</td>
<td>Title*</td>
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<td>BB5777 / JCSE Equipment (USREDCOM)</td>
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<td>Total Gross/Weapon System Cost</td>
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</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

JCSE: FY2016 base funding in the amount of $5.008M procures communications equipment based on Strategic Planning Guidance; which includes major upgrades to large and small aperture mobile satellite systems, Everything over Internet Protocol (EoIP), Airborne/En-Route, and terrestrial and single-channel equipment and program management and organic support. Currently employed commercial-off-the-shelf (COTS) equipment is approaching the end of its life cycle and requires replacement, along with technology refreshment; to meet the modernization program goals which include meeting emerging real-world operational requirements with improved capabilities, smaller footprint, reduced operations and maintenance costs, and seamless integration with the global information grid. This equipment is a critical part of Command and Control communications packages that provide direct operational support to joint forces and HQ elements deployed to austere locations around the globe. Per the Planning Guidance, the ARMY is mandated to fund one-third of the fair share of JCSE’s validated equipment modernization plan. JCSE’s Modernization Program is built/restructured based on Combatant Command (CCMD) and Service Components’ requirements and emerging technologies. Service’s influence JCSE’s spending plan through recommendations in concert with MDAP schedules, ensuring that Service dollars meet Joint Service requirements.
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12

P-1 Line Item Number / Title: BB5777 / JCSE Equipment (USREDCOM)

Item Number / Title [DODIC]: BB5777 / JCSE Equipment (USREDCOM)

<table>
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<tr>
<th>MDAP/MAIS Code:</th>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
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Resource Summary

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>144.668</td>
<td>5.296</td>
<td>3.540</td>
<td>5.008</td>
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<td>5.296</td>
<td>3.540</td>
<td>5.008</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Flyaway Cost</td>
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Secondary Distribution

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<td>3,540</td>
<td>5.008</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

UNCLASSIFIED
The Defense Enterprise Wideband Satellite Communications (SATCOM) Systems (DEWSS) provides Super High Frequency (SHF) wideband and Anti-Jam (AJ) satellite communications supporting critical national strategic and tactical Command, Control, Communications and Intelligence (C3I) requirements. Portions of DEWSS must support the Army Warfighter as well as unique and vital Department of Defense (DoD) and non-DoD users, as approved by the Joint Staff and/or Secretary of Defense (SECDEF). The DEWSS/Wideband Global Satellite (WGS) will be used in conjunction with the Terrestrial Transmissions of the Defense Information System Network (DISN) and other communications systems to provide end-to-end communications and the long-haul connectivity.

The AN/TSC-93E Tactical Satellite Service Life Extension Program (SLEP) provides satellite communications (SATCOM) capability in the SHF (Super High Frequency) range. 93E operates over both commercial and military SHF satellites for Army Expeditionary Signal Battalions (ESBs). 93E, along with the WIN-T program's AN/TSC-156 Phoenix Terminal, is the Army's primary means of extending DISN services (NIPR, SIPR, JWICS, DSN, DRSN, and Secure VTC) to deployed Army forces. 93E SLEP has replaced existing "D" models with "E" models. E model upgrades the 93 from 20 Mbps to 50 Mbps, and extends the service life of the 93 until 2025. 93E configuration is as follows: up-armored, consisting of antenna pallet housing the AS-3036D antenna mounted on an M1152 D1 vehicle towing a M1102 trailer. The M1102 transports two MEP-803A generators, a SN-571 SYNC box, and a 20 gallon fuel cell. The cell will increase fuel capacity over 200%. A second M1152A1 will tow a fifth wheel commercial trailer transporting the AN/TSC-93E 250 shelter. The 93E configuration will also work in a non-up armored mode using the M1097 and the M1113.

The Senior National Leadership Communications (SNLC) program and the required modernization effort exists through a bilateral agreement for a 10-year user equipment modernization. This essential Priority 0 effort supports unique internal requirements that provide critical communications to support continuing peaceful relations between the United States President and Russia/Ukraine/Belarus/Kazakhstan leaders. The program includes the Direct Communications Link (DCL), Continuous Communications Link (CCL) and the Government-to-Government Communications Link (GGCL). Communications are for diplomatic peacemaking, arms control and treaty verification purposes.

The Modernization of Enterprise Terminals (MET) program is a complete modernization of fixed X-Band enterprise satellite communications terminals. The MET family of terminal equipment will increase the capacity of existing satellite communications facilities by adding military Ka-Band capability, enabling the Army to maximize its use of the Wideband Global SATCOM (WGS) constellation. The MET's modular design and incorporation of Commercial-Off-The-Shelf (COTS) systems will improve the sustainability of Army enterprise satellite communications systems, reduce life cycle costs, and extend the life of the enterprise terminal family beyond 2025.

The Digital Communications Satellite Subsystem (DCSS) is an array of baseband equipment that is integral to the Defense Enterprise Wideband SATCOM System (DEWSS). DCSS is the interconnection between the Global Information Grid (GIG) and the DEWSS satellite earth terminal equipment, providing users with access to the Wideband Global SATCOM (WGS) system, the Defense Satellite Communications System, and other military and commercially available satellite constellations. Provides deployed Warfighters with global connectivity to military command and control systems, reachback to the
sustaining base, and access to enterprise information resources and the Defense Information Systems Network. Interfaces with the national strategic communications infrastructure to support Presidential and senior DoD leadership communications.

The Enterprise Wideband Satellite Payload Control System provides for the management of Defense Satellite Communications System (DSCS) and Wideband Global SATCOM (WGS) earth terminal and satellite resources, which are required for rapid and efficient reaction to operational needs in support of the Warfighter. State-of-the-art strategic satellite payload network control and planning systems for use with DSCS, WGS, and commercial satellite systems are procured and installed at Wideband Satellite Operation Centers (WSOC) worldwide. Payload control functions control and configure the satellites. Network control functions manage communications between operators and processors, generate and drive display formats, and maintain and provide rapid access to the network databases. The Army's effort to digitize forces has created a tremendous increase in demand for bandwidth. Subsystems ensure efficient use of satellite power and spectrum, overcoming existing and projected bandwidth constraints, and allow U.S. forces to achieve information superiority on the battlefield. Provide reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions.

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**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics  
Equipment / BSA 18: Comm - Satellite Communications

**P-1 Line Item Number / Title:**  
BB8500 / Defense Enterprise Wideband Satcom Systems

**ID Code (A=Service Ready, B=Not Service Ready):**

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<th>Program Elements for Code B Items:</th>
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<tbody>
<tr>
<td>BB8701 / GMF Enhancement</td>
<td>P-40a</td>
</tr>
<tr>
<td>BB8900 / Special Communications Links Program</td>
<td>P-40a</td>
</tr>
<tr>
<td>BB8416 / Enterprise Wideband Satellite Terminal - (Mod)</td>
<td>P-5, P-5a, P-21</td>
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<tr>
<td>BB8501 / Enterprise Wideband Satellite Terminal Digital EQ</td>
<td>P-5, P-5a</td>
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<tr>
<td>BB8509 / Enterprise Wideband Sat Payload Control System</td>
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**Program Elements for Code B Items:**

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<tr>
<td><strong>Title</strong></td>
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<td>P-40a</td>
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<td>P-40a</td>
<td>BB8900 / Special Communications Links Program</td>
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<td>P-5, P-5a, P-21</td>
<td>BB8416 / Enterprise Wideband Satellite Terminal - (Mod)</td>
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<td>P-5, P-5a</td>
<td>BB8501 / Enterprise Wideband Satellite Terminal Digital EQ</td>
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<td>P-5, P-5a</td>
<td>BB8509 / Enterprise Wideband Sat Payload Control System</td>
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<tr>
<th><strong>Quantity / Total Cost</strong></th>
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**Justification:**

FY 2016 Base procurement dollars in the amount of $196.306 million support the following programs:

FY 2016 Base dollars in the amount of $2.330 million procures and integrates SHF Ka band capability with currently existing SHF X band capability, and conducts fielding and new equipment training of the AN/TSC-93E in support of the Active, Reserve, and National Guard components and supports program management organic support. In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2016 Base procurement dollars in the amount of $6.806 million supports modernization of the Direct Communications Link (DCL) from serial based circuits to an Internet Protocol architecture. Funding provides the procurement of hardware and software, installation, and training support for terminal fielding.

FY 2016 Base procurement dollars in the amount of $62.490 million procures Modernization of Enterprise Terminals (MET) systems, and provides the required engineering, integration, and installation support for terminal fielding.

FY 2016 Base procurement dollars in the amount of $52.490 million procures satellite terminal and baseband equipment and associated management systems in support of NETCOM's relocations of the satellite earth stations at Landstuhl, Germany and Camp Roberts, California. Provides the minimum essential baseband and telecommunications equipment to support the modernization of DCSS components and their integration into the DEWSS, including modernization of baseband infrastructure to enable net-centric Internet Protocol communications at satellite earth terminals. Supports Chairman, Joint Chiefs of Staff (CJCS) validated Combatant Commanders/Service long haul communication requirements and provides baseband equipment support for the Modernization of Enterprise Terminals (MET) program.

FY 2016 Base procurement dollars in the amount of $72.190 million supports the procurement of hardware/software, engineering services, Integrated Logistics Support (ILS) and Information Assurance (IA) for the Enterprise Wideband Satellite Payload Control System, which acquires and installs state-of-the-art strategic and tactical satellite payload control, spectrum monitoring, transmission control and network planning systems for wideband satellite constellations. Without Wideband Control systems to plan mission communications through WGS and DSCS programs, WIN-T would not function as designed.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."
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**GMF Enhancement**

**Secondary Distribution**

**Army**

**B08701 / GMF Enhancement**

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**B08900 / Special Communications Links Program**

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**Subtotal: GMF Enhancement**

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**Total**
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**

| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | 8,927.143 | - | 8,927.143 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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<th>Cost Elements</th>
<th>Prior Years</th>
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<th>FY 2016 Base</th>
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<tr>
<td>Flyaway Cost</td>
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**FY 2016 Cost**

- **Unit Cost ($ M)**: 62.490
- **Qty (Each)**: 7
- **Unit Cost ($ K)**: 8,927.143
- **Qty (Each)**: 7

**FY 2016 Total Cost**

- **Total Cost ($ M)**: 62.490
- **Total Cost ($ K)**: 8,927.143
- **Total Cost ($ Each)**: 7

**FY 2016 OCO**

- **Total Cost ($ M)**: 62.490
- **Total Cost ($ K)**: 8,927.143
- **Total Cost ($ Each)**: 7
**Exhibit P-5, Cost Analysis:** PB 2016 Army  
**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A / 02 / 18

**P-1 Line Item Number / Title:**  
BB8500 / Defense Enterprise Wideband Satcom Systems

**Item Number / Title [DODIC]:**  
BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

**ID Code (A=Service Ready, B=Not Service Ready):**

<table>
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<tr>
<th>Secondary Distribution</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Army</td>
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<tr>
<td>Quantity</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority</td>
<td>11.209</td>
<td>30.154</td>
<td>62.490</td>
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<td>62.490</td>
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<tr>
<td>Quantity</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority</td>
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<td>30.154</td>
<td>62.490</td>
<td>-</td>
<td>62.490</td>
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(†) indicates the presence of a P-5a
<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>OCO FY</th>
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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET Hardware(†)</td>
<td>2014</td>
<td>Harris / Melbourne Florida</td>
<td>SS / FFP</td>
<td>ACC-RI</td>
<td>May 2014</td>
<td>Jun 2015</td>
<td>1</td>
<td>3,509.000</td>
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<tr>
<td>MET Hardware(†)</td>
<td>2015</td>
<td>Harris / Melbourne Florida</td>
<td>SS / FFP</td>
<td>ACC-RI</td>
<td>May 2015</td>
<td>Jun 2016</td>
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<tr>
<td>MET Hardware(†)</td>
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<td>Harris / Melbourne Florida</td>
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(†) indicates the presence of a P-21
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
BB8500 / Defense Enterprise Wideband Satcom Systems

**Item Number / Title [DODIC]:**
BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

---

**Cost Elements**

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<thead>
<tr>
<th>M</th>
<th>O</th>
<th>C</th>
<th>R</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC</th>
<th>QTY</th>
<th>ACCEPT</th>
<th>BAL</th>
<th>DUE</th>
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<td>1</td>
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<td>ARMY</td>
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<td>1</td>
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<tr>
<td>1</td>
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**Exhibit P-21, Production Schedule:**

**Date:** February 2015

**Met Hardware Prior Years Deliveries:**

- Fiscal Year 2014
  - January 2014: 1
  - March 2014: 1
  - July 2014: 1
  - October 2014: 1

- Fiscal Year 2015
  - January 2015: 1
  - March 2015: 1
  - July 2015: 1
  - October 2015: 1

**Cost Elements**

<table>
<thead>
<tr>
<th>MET Hardware</th>
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<tr>
<td>Prior Years Deliveries: 18</td>
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**Exhibit P-21, Production Schedule:**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
BB8500 / Defense Enterprise Wideband Satcom Systems

**Item Number / Title [DODIC]:**
BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

---

**Cost Elements**

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<tr>
<th>M</th>
<th>O</th>
<th>C</th>
<th>R</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC</th>
<th>QTY</th>
<th>ACCEPT</th>
<th>BAL</th>
<th>DUE</th>
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<tbody>
<tr>
<td>1</td>
<td>2014</td>
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<tr>
<td>1</td>
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**Exhibit P-21, Production Schedule:**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
BB8500 / Defense Enterprise Wideband Satcom Systems

**Item Number / Title [DODIC]:**
BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

---

**Cost Elements**

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<tr>
<th>MET Hardware</th>
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<tbody>
<tr>
<td>Prior Years Deliveries: 18</td>
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**Exhibit P-21, Production Schedule:**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
BB8500 / Defense Enterprise Wideband Satcom Systems

**Item Number / Title [DODIC]:**
BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

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**Cost Elements**

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<tr>
<td>Prior Years Deliveries: 18</td>
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</tbody>
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**Exhibit P-21, Production Schedule:**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
BB8500 / Defense Enterprise Wideband Satcom Systems

**Item Number / Title [DODIC]:**
BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

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**Cost Elements**

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<th>MET Hardware</th>
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<tr>
<td>Prior Years Deliveries: 18</td>
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</table>
## Exhibit P-21, Production Schedule:

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
BB8500 / Defense Enterprise Wideband Satcom Systems

**Item Number / Title [DODIC]:**
BB8416 / Enterprise Wideband Satellite Terminal - (Mod)

### Cost Elements (Units in Each)

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<tr>
<th>M COLL O #</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC QTY</th>
<th>ACCEPT PRIOR TO 1 OCT</th>
<th>BAL DUE AS OF 1 OCT</th>
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</thead>
<tbody>
<tr>
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**Fiscal Year 2016**

<table>
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<th>COST ELEMENT</th>
<th>UNIT</th>
<th>QTY</th>
<th>MAT</th>
<th>TOT</th>
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</thead>
<tbody>
<tr>
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Prior Years Deliveries: 18

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<th>Army</th>
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<tr>
<td></td>
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<td>3</td>
<td>7</td>
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**Calendar Year 2016**

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<th>UNIT</th>
<th>QTY</th>
<th>MAT</th>
<th>TOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET Hardware</td>
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</table>

**Fiscal Year 2017**

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<tr>
<th>COST ELEMENT</th>
<th>UNIT</th>
<th>QTY</th>
<th>MAT</th>
<th>TOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET Hardware</td>
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**Calendar Year 2017**

<table>
<thead>
<tr>
<th>COST ELEMENT</th>
<th>UNIT</th>
<th>QTY</th>
<th>MAT</th>
<th>TOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET Hardware</td>
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**Date:** February 2015

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<table>
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<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
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<tr>
<td>1</td>
<td>Harris - Melbourne Florida</td>
<td>1</td>
<td>6</td>
<td>12</td>
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Production Rates (Each / Month) | Procurement Leadtime (Months)

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<tr>
<th>Initial</th>
<th>Reorder</th>
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<tr>
<td>ALT</td>
<td>ALT</td>
</tr>
<tr>
<td>Prior to Oct 1</td>
<td>After Oct 1</td>
</tr>
<tr>
<td>Mfg PLT</td>
<td>Mfg PLT</td>
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<tr>
<td>Total After Oct 1</td>
<td>Total After Oct 1</td>
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</table>

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18  
**P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems  
**Item Number / Title [DODIC]:** BB8501 / Enterprise Wideband Satellite Terminal Digital EQ  
**Date:** February 2015

#### ID Code (A=Service Ready, B=Not Service Ready):

#### MDAP/MAIS Code:

<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>762.909</td>
<td>17.792</td>
<td>25.194</td>
<td>52.490</td>
<td>-</td>
<td>52.490</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>762.909</td>
<td>17.792</td>
<td>25.194</td>
<td>52.490</td>
<td>-</td>
<td>52.490</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>762.909</td>
<td>17.792</td>
<td>25.194</td>
<td>52.490</td>
<td>-</td>
<td>52.490</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**

- - - - - -

**Gross/Weapon System Unit Cost ($ in Thousands)**

- - - 6,561,250 - 6,561,250

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Flyway Cost</td>
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<tr>
<td>Recurring Cost</td>
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<td>Contractor Support</td>
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<td>TYAD Rack and Fabrication Support(1)</td>
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<td>17,792</td>
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<tr>
<td>Subtotal: Flyway Cost</td>
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<td>-</td>
<td>17,792</td>
<td>-</td>
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<tr>
<td>Gross/Weapon System Cost</td>
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<td>762,909</td>
<td>-</td>
<td>17,792</td>
<td>-</td>
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<table>
<thead>
<tr>
<th>MDAP/MAIS Code:</th>
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<tbody>
<tr>
<td>PB 2016 Army</td>
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</table>

LI BB8500 - Defense Enterprise Wideband Satcom Syste...
## Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
BB8500 / Defense Enterprise Wideband Satcom Systems

**Item Number / Title [DODIC]:**
BB8501 / Enterprise Wideband Satellite Terminal Digital EQ

**ID Code** (A=Service Ready, B=Not Service Ready):

<table>
<thead>
<tr>
<th>Secondary Distribution</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total obligation authority</td>
<td>17.792</td>
<td>25.194</td>
<td>52.490</td>
<td>-</td>
<td>52.490</td>
</tr>
</tbody>
</table>

**MDAP/MAIS Code:**

- Total: Secondary Distribution
  - Quantity: -
  - Total obligation authority: 17.792

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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 18

#### P-1 Line Item Number / Title:
BB8500 / Defense Enterprise Wideband Satcom Systems

#### Item Number / Title [DODIC]:
BB8501 / Enterprise Wideband Satellite Terminal Digital EQ

<table>
<thead>
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<th>Cost Elements</th>
<th>OCO FY</th>
<th>Contractor and Location</th>
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<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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</thead>
<tbody>
<tr>
<td>MIDAS</td>
<td>2014</td>
<td>Raytheon / Marlborough Massachusetts</td>
<td>SS / FFP</td>
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<td>Apr 2014</td>
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</tr>
<tr>
<td>MIDAS</td>
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<td>TBD / TBD</td>
<td>C / TBD</td>
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<td>Mar 2015</td>
<td>Apr 2015</td>
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<td>Apr 2016</td>
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<td>SS / FFP</td>
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<td>Jun 2014</td>
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<td>TBD / TBD</td>
<td>C / TBD</td>
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<td>Jun 2015</td>
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#### Remarks:
P-21 is not provided, as these lines purchase multiple, cross-system components.
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(Each following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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**Secondary Distribution**

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(†) indicates the presence of a P-5a
## Exhibit P-5a, Procurement History and Planning

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
BB8500 / Defense Enterprise Wideband Satcom Systems

**Item Number / Title [DODIC]:**
BB8509 / Enterprise Wideband Sat Payload Control System

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<th>Qty (Each)</th>
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**Exhibit P-5a, Procurement History and Planning:** PB 2016 Army  
**Date:** February 2015  
**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18  
**P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems  
**Item Number / Title [DODIC]:** BB8509 / Enterprise Wideband Sat Payload Control System  

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**Remarks:**  
P-21 is not provided, as these lines purchase multiple, cross-system components.
**Description:**

Transportable Tactical Command Communications (T2C2) extends the Warfighter Information Network Tactical (WIN-T) network to small company and team sized early entry units. The T2C2 system is based on combat proven capabilities and provides robust voice and data communication capabilities. The T2C2 systems will also integrate users into the higher capacity WIN-T network and extend that network to the tactical edge; T2C2 also enables warfighters in select small Command Posts (CP) (typically Company level) and select Army teams to send and receive time sensitive Situational Awareness (SA), Intelligence, and Mission Command (MC) information while At-the-Halt (ATH) in support of all Joint determined and defined operational phases. These phases span from the initial Shaping Phase, designed to dissuade or deter adversaries and assure mission friends, Deterrence, Initiative Seizure and Domination culminating with post maneuver Stabilization and Enabling of Civil Authorities enabling legitimate civil governance in safe and secure environment.

The approved AAO for Transportable Tactical Command Communications (T2C2) is 490 Lites, 372 Heavys.

T2C2 Capability Production Document (CPD) was validated in Nov 2013.

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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>13.999</td>
<td>44.998</td>
<td>5.724</td>
<td>50.722</td>
<td>49.232</td>
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<td>62.962</td>
<td>78.456</td>
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<td>320.039</td>
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</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - | - |

### Secondary Distribution

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### Program Elements for Code B Items:

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<td>62.849</td>
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</table>

**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

**Proposed Appropriation / Budget Activity / Budget Sub Activity:**

2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications

**P-1 Line Item Number / Title:**

B85800 / Transportable Tactical Command Communications (T2C)

**ID Code (A=Service Ready, B=Not Service Ready):** A

**Secondary Distribution**

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<td>62.962</td>
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</table>
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications

P-1 Line Item Number / Title:
B85800 / Transportable Tactical Command Communications (T2C)

ID Code (A=Service Ready, B=Not Service Ready) : A

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<tr>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements: 0303142A</th>
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<tbody>
<tr>
<td><strong>Exhibits Schedule</strong></td>
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<tr>
<td><strong>Title</strong></td>
<td><strong>Schedule</strong></td>
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<tr>
<td>B85800 / Transportable Tactical Command Communications (T2C)</td>
<td>P-5, P-5a, P-21</td>
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<tr>
<td>Total Gross/Weapon System Cost</td>
<td></td>
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</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY16 base procurement dollars, in the amount of $44.998 million, supports the procurement of Low Rate Initial Production (LRIP) quantities for T2C2 Light (34) and T2C2 Heavy (24) systems. FY16 OCO procurement dollars, in the amount of $5.724 million, supports T2C2 Bridging Capabilities. Commercial manpackable satellite terminals will be procured to support emerging operational needs of forces deploying to the Theater of Operations in the Persian Gulf or Operation INHERENT RESOLVE (OIR).

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities".
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18  
**P-1 Line Item Number / Title:** B85800 / Transportable Tactical Command Communications (T2C)

| ID Code (A=Service Ready, B=Not Service Ready): | A |
| Resource Summary | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
| Procurement Quantity (Units in Each) | - | - | - | - | - | - |
| Gross/Weapon System Cost ($ in Millions) | 1.819 | - | 13.999 | 44.998 | 5.724 | 50.722 |
| Less FY Advance Procurement ($ in Millions) | - | - | - | - | - | - |
| Net Procurement (P1) ($ in Millions) | 1.819 | - | 13.999 | 44.998 | 5.724 | 50.722 |
| Plus CY Advance Procurement ($ in Millions) | - | - | - | - | - | - |
| Total Obligation Authority ($ in Millions) | 1.819 | - | 13.999 | 44.998 | 5.724 | 50.722 |

(For FY 2014, the following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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<tr>
<th>Cost Elements</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
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<tbody>
<tr>
<td>Flyaway Cost</td>
<td>AN/PSC-15 (GRRIP) Upgrade(1)</td>
<td>10.000</td>
<td>100</td>
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<tr>
<td></td>
<td>T2C2 Lite(1)</td>
<td>-</td>
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<td>T2C2 Heavy(1)</td>
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<td>Program Management</td>
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<td>Bridging Capabilities</td>
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<td>Subtotal: Flyaway Cost</td>
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Secondary Distribution

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<th>FY 2016 Base</th>
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<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Quantity</td>
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<tr>
<td>Total Obligation Authority</td>
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UNCLASSIFIED
## Exhibit P-5, Cost Analysis: PB 2016 Army

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<th>P-1 Line Item Number / Title: B85800 / Transportable Tactical Command Communications (T2C)</th>
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<tr>
<td>Quantity</td>
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<td>Total Obligation Authority</td>
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<td>44.998</td>
<td>5.724</td>
<td>50.722</td>
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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
B85800 / Transportable Tactical Command Communications (T2C)

**Item Number / Title [DODIC]:**
B85800 / Transportable Tactical Command Communications (T2C)

<table>
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<th>Cost Elements</th>
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<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tr>
<td>T2C2 Lite(^{(1)})</td>
<td>2015</td>
<td>TBD / TBD</td>
<td>TBD</td>
<td>Aberdeen Proving Ground, MD</td>
<td>Jan 2016</td>
<td>Apr 2016</td>
<td>10</td>
<td>322,000</td>
<td>N</td>
<td>Jun 2015</td>
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<tr>
<td>T2C2 Lite(^{(1)})</td>
<td>2016</td>
<td>TBD / TBD</td>
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<td>Aberdeen Proving Ground, MD</td>
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<td>397,676</td>
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<tr>
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<td>TBD</td>
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<td>Jun 2015</td>
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\(^{(1)}\) indicates the presence of a P-21

**Remarks:**
Unit cost changes to better reflect currently fielded solutions that meet the operational requirements.
### UNCLASSIFIED

**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
B85800 / Transportable Tactical Command Communications (T2C)

**Item Number / Title [DODIC]:**
B85800 / Transportable Tactical Command Communications (T2C)

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<td>T2C2 Lite</td>
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<tr>
<td>1 2015 ARMY</td>
<td>49 - 49</td>
<td>A - - - - - 8 16 16</td>
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**LI B85800 - Transportable Tactical Command Communicati...**

**UNCLASSIFIED**

Page 7 of 8

P-1 Line #21
<table>
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<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
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<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
<th>Initial</th>
<th>Procurement Leadtime (Months)</th>
<th>Reorder</th>
<th>Total After Oct 1</th>
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<td>1</td>
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<td>24</td>
<td>-</td>
<td>3</td>
<td>6</td>
<td>9</td>
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<tr>
<td>2</td>
<td>TBD - TBD</td>
<td>2</td>
<td>16</td>
<td>24</td>
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<td>4</td>
<td>6</td>
<td>10</td>
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<tr>
<td>3</td>
<td>TBD - TBD</td>
<td>2</td>
<td>16</td>
<td>24</td>
<td>-</td>
<td>4</td>
<td>6</td>
<td>10</td>
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</tbody>
</table>

*"A" in the Delivery Schedule indicates the Contract Award Date.*

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics

P-1 Line Item Number / Title:
BA9350 / SHF Term

Equipment / BSA 18: Comm - Satellite Communications

ID Code (A=Service Ready, B=Not Service Ready) : A

Program Elements for Code B Items:

Other Related Program Elements:

Resource Summary

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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>7.232</td>
<td>6.494</td>
<td>7.629</td>
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<td>7.629</td>
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<td>534.468</td>
<td></td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>513.113</td>
<td>7.232</td>
<td>6.494</td>
<td>7.629</td>
<td>-</td>
<td>7.629</td>
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<td>534.468</td>
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</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - | - |

Description:
Super High Frequency (SHF) terminal, also referred to as the Phoenix, satisfies tactical, highly mobile, command and control, intelligence, fire support, air defense and logistics wideband communications requirements in support of Army and multi-service users. Phoenix provides the Army operational flexibility by operating over four bands (C, X, Ka, and Ku) on military and commercial satellites resulting in less dependency on costly and high demand commercial satellites. Fielding is to Active, Reserve and National Guard Expeditionary Signal Battalions (ESBs). The Army decided to retire legacy AN/TSC-85 terminals by 2015 and replace them with SHF (Phoenix) terminals and upgrade all Phoenix terminals from 20 to 50 Megabits per second (Mbps) aggregate capacity to meet growing capacity demands. This program is designated as a DoD Space Program.

The Approved Acquisition Objective (AAO) for the SHF Terminal is 112.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 18: Comm - Satellite Communications

P-1 Line Item Number / Title:
BA9350 / SHF Term

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items:
Other Related Program Elements:

<table>
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<tr>
<th>Exhibits Schedule</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td></td>
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<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY 2016 Base procurement dollars in the amount $7.629 million funds transition planning and implementation efforts to facilitate a successful 1QFY17 transition to Sustainment. This will also include any special training and depot stockage requirements to support the transition.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."
## UNCLASSIFIED

### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18

**P-1 Line Item Number / Title:** BA9350 / SHF Term

**Item Number / Title [DODIC]:** BA9350 / SHF Term

### Resource Summary

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<th>Procurement Quantity (Units in Each)</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
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<tbody>
<tr>
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<td>6.494</td>
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<td><strong>Less PY Advance Procurement ($ in Millions)</strong></td>
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<td>7.232</td>
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<td><strong>Plus CY Advance Procurement ($ in Millions)</strong></td>
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<tr>
<td><strong>Total Obligation Authority ($ in Millions)</strong></td>
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<td>7.232</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Cost Elements

**Flyaway Cost**

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<th>Component</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
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<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
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### Secondary Distribution

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Note: Subtotals or Totals in this exhibit P-5 may not be exact or add, due to rounding.

Date: February 2015

LI BA9350 - SHF Term

UNCLASSIFIED

Page 3 of 4

P-1 Line #22

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<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
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<td>6.494</td>
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**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications

**P-1 Line Item Number / Title:**
K47800 / NAVSTAR Global Positioning System (SPACE)

**ID Code (A=Service Ready, B=Not Service Ready):**

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<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>1.635</td>
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<td>-</td>
<td>1,175.543</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions):**

**Flyaway Unit Cost ($ in Thousands):**

**Gross/Weapon System Unit Cost ($ in Thousands):**

**Description:**

The NAVSTAR Global Positioning System (GPS) is a passive, space-based, radio positioning, navigation, and timing (PNT) system providing precise time, three dimensional position, navigation and velocity information to Warfighters. Accurate positioning, navigation and timing are critical enablers to all Army Warfighting capabilities. Timing is a key enabler to tactical communications networks. The NAVSTAR GPS program is designated as a DoD Space Program and the United States Air Force (USAF) is the executive service. The USAF GPS Directorate develops enabling technologies and products for GPS User Equipment (PE 35164F), with direct Army management and participation. The Army implements these technologies into Army architectures and user equipment. The Army NAVSTAR GPS program provides for management, procurement, fielding and support of Army GPS User Equipment. GPS User Equipment consists of a family of Selective-Availability Anti-Spoofing Module (SAASM) based PNT Capability solutions which span aviation users, ground users, host vehicles, and sensors. Current GPS User Equipment is comprised of a dual-use dismounted handheld or system-installed Defense Advanced GPS Receiver (DAGR), DAGR Distributed Device (D3) for distributed PNT on platforms, and Ground-Based GPS Receiver Application Module (GB-GRAM) for embedded PNT.

**Public Law 111-383 Section 913 (January 2011) Authorizes FY 2017 and beyond appropriations to only procure GPS equipment capable of receiving the military code, commonly known as M code, if M code capable equipment is available.**

**Current Army Acquisition Objective (AAO) for the DAGR/D3 is 462,288 units.**

**Secondary Distribution**

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<tr>
<td>Total Obligation Authority</td>
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<td>1.635</td>
<td>14.027</td>
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<td>14.027</td>
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**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications  
**P-1 Line Item Number / Title:**  
K47800 / NAVSTAR Global Positioning System (SPACE)  
**ID Code (A=Service Ready, B=Not Service Ready):**  
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**Date:** February 2015  

### ID Code (A=Service Ready, B=Not Service Ready)

<table>
<thead>
<tr>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
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<td>ID CD ExHibits</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**
FY 2016 Base procurement dollars in the amount of $14.027 million support D3 integration and fielding. This will include hardware and software modification of the current D3 that will host the M code card. FY 2016 procurement dollars include software support to resolve compatibility issues resulting from upgrading to the M code technology, fielding D3 to Armored Knight, integration of the D3 to client and host systems, test and evaluation to include Bid Sample and First Article Testing, and contractor support.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

<table>
<thead>
<tr>
<th></th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td></td>
<td></td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>1.635</td>
<td>14.027</td>
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<td>14.027</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>Net Procurement (P1) ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

#### Note:
Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
**Exhibit P-5, Cost Analysis**: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity**: 2035A / 02 / 18

**P-1 Line Item Number / Title**: K47800 / NAVSTAR Global Positioning System (SPACE)

**Item Number / Title [DODIC]**: K47800 / NAVSTAR Global Positioning System (SPACE)

**Date**: February 2015

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>MDAP/MAIS Code</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Secondary Distribution</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
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<tr>
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**(†)** indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**

2035A / 02 / 18

**P-1 Line Item Number / Title:**

K47800 / NAVSTAR Global Positioning System (SPACE)

---

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>O C O FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost (£ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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</thead>
</table>

(†) indicates the presence of a P-21
| Cost Elements (Units in Each) | Fiscal Year 2015 | | | | Calendar Year 2015 | | | | Calendar Year 2016 | | | |
|-------------------------------|-----------------|---|---|---|-------------------|---|---|---|-------------------|---|---|---|---|
| M O C O R F R | FY | ACCEPT PRIOR TO 1 OCT 2014 | BAL DUE AS OF 1 OCT 2014 | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Procurement | | | | | | | | | | | | | |
| Prior Years Deliveries: 2731 | | | | | | | | | | | | | |
| 1 | 2015 ARMY | 258 | - | 258 | A | - | - | 258 | - | | | | | |
| 2 | 2016 ARMY | 100 | - | 100 | A | - | - | 100 | - | | | | | |

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LI K47800 - NAVSTAR Global Positioning System (SPACE)

UNCLASSIFIED

Army

Page 6 of 7

P-1 Line #23
## Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
K47800 / NAVSTAR Global Positioning System (SPACE)

**Item Number / Title [DODIC]:**
K47800 / NAVSTAR Global Positioning System (SPACE)

### Production Rates (Each / Year)

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>GPS Source, Inc - Pueblo</td>
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<td>150</td>
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<tr>
<td>2</td>
<td>TBD - TBD</td>
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<td>150</td>
<td>6,000</td>
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### Procurement Leadtime (Months)

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<th>ALT</th>
<th>ALT</th>
<th>Mfg PLT</th>
<th>Total</th>
<th>ALT</th>
<th>ALT</th>
<th>Mfg PLT</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Prior to Oct 1</td>
<td>After Oct 1</td>
<td>Mfg PLT</td>
<td>Prior to Oct 1</td>
<td>After Oct 1</td>
<td>Mfg PLT</td>
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<tr>
<td>Initial</td>
<td>Reorder</td>
<td>Initial</td>
<td>Reorder</td>
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<td>Reorder</td>
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<tr>
<td>1</td>
<td>GPS</td>
<td>Source</td>
<td>Inc</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>2</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>100</td>
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<td>-</td>
</tr>
</tbody>
</table>

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

"A" in the Delivery Schedule indicates the Contract Award Date.
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Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 18: Comm - Satellite Communications

P-1 Line Item Number / Title:
BC4002 / SMART-T (SPACE)

ID Code (A=Service Ready, B=Not Service Ready) : A

Description:
Secure Mobile Anti-Jam Reliable Tactical Terminal (SMART-T) is a multi-channel satellite terminal that provides beyond line of sight support for the current and future tactical communications network. The SMART-T provides a robust, protected satellite capability to permit uninterrupted communications, as our advancing forces move beyond the line-of-sight of terrestrial systems. The prime mover is a High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) configured with all the electronics and the self-erected antenna. The SMART-T transmits at the Extremely High Frequency (EHF) band and receives in the Super High Frequency (SHF) band. The SMART-T provides the only low probability of interception and low probability of detection (LPI/LPD) capability to avoid being targeted for destruction, jamming or eavesdropping. The SMART-T provides fully interoperable communications with the Milstar terminals of other services (Air Force, Navy, Marine Corps and other DoD agencies and activities). The SMART-Ts are being upgraded to use the Advanced EHF (AEHF) satellite constellation, which provides a four-fold increase in communication capacity over the current Milstar system but retains full backward compatibility with the Milstar satellites. SMART-T is designated as a DoD Space Program.

The Approved Acquisition Objective (AAO) is 324 terminals plus 8 terminals procured for the DoD Special Users.

<p>|
|------------------------|----------|----------|---------------|-------------|--------------|---------|---------|---------|---------|
| Army                   | Quantity | -        | -             | -           | -            | -       | -       | -       | -       |
| ANG                    | Quantity | -        | -             | -           | -            | -       | -       | -       | -       |
|                        | Total Obligation Authority | -       | 4.400 | 2.000       | -           | 2.000       | 2.000   | -       | -       |
| AR                     | Quantity | -        | -             | -           | -            | -       | -       | -       | -       |
|                        | Total Obligation Authority | -       | -       | 2.250       | -           | 2.250       | 2.000   | -       | -       |
| Total                  | Quantity | -        | -             | -           | -            | -       | -       | -       | -       |</p>
<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready): A</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
</tr>
</thead>
</table>

UNCLASSIFIED
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 18: Comm - Satellite Communications

P-1 Line Item Number / Title:
BC4002 / SMART-T (SPACE)

ID Code (A=Service Ready, B=Not Service Ready) : A

Program Elements for Code B Items:

<table>
<thead>
<tr>
<th>Exhibits Schedule</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ID CD</td>
<td></td>
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<tr>
<td>BC4002 / SMART-T (SPACE)</td>
<td>P-5</td>
<td>A</td>
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<tr>
<td></td>
<td></td>
<td>- / 698.510</td>
<td>- / 13.992</td>
<td>- / 11.454</td>
<td>- / 13.453</td>
<td>- / -</td>
</tr>
</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY 2016 Base procurement dollars in the amount of $13.453 million supports logistics, obsolescence management, training, and fielding support for previously procured SMART-T AEHF upgrade kits and AEHF SMART-T terminals.

*In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

<table>
<thead>
<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Prior Years

<table>
<thead>
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<th>Cost Elements</th>
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<th>Qty (Each)</th>
<th>Unit Cost ($ M)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ M)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ M)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ M)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
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<tbody>
<tr>
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<td>218.785</td>
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<tr>
<td>EHF SMART-T</td>
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<td>AEHF SMART-T</td>
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<td>13.453</td>
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</tr>
</tbody>
</table>

### Cost Elements

- Flyway Cost
- Recurring Cost
  - EHF SMART-T Terminal Cost
  - AEHF Upgrade Mod Kits
  - AEHF SMART-T Terminal Cost
  - Engineering Support
  - Obsolescence
  - Data
  - System Project Mgmt/ Gov't
  - System Test & Evaluation
  - GFE
  - Fielding
  - Modularity/Army National Guard
  - Subtotal: Recurring Cost
  - Subtotal: Flyway Cost
  - Gross/Weapon System Cost
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Date:** February 2015

<table>
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<tr>
<th>Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18</th>
<th>P-1 Line Item Number / Title: BC4002 / SMART-T (SPACE)</th>
<th>Item Number / Title [DODIC]: BC4002 / SMART-T (SPACE)</th>
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</table>

**ID Code** (A=Service Ready, B=Not Service Ready): A

**MDAP/MAIS Code:**

<table>
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<tr>
<th>Secondary Distribution</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>Army</td>
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<tr>
<td>ANG</td>
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<td>Total Obligation Authority</td>
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</table>
Global Broadcast Service (GBS) provides high speed broadcast of large volume data and multimedia products. These include Unmanned Aerial Vehicles (UAV) and commercial video and products from imagery, intelligence, weather and biometric data sources. GBS gives deployed forces access to national level repositories of intelligence products and other critical mission planning information. The Air Force (USAF) is designated as the executive service for this Acquisition Category (ACAT) IC program. The Army GBS program is designated ACAT III. The Army supports the Joint Program Office (JPO) for the development and procurement of the Transportable Ground Receive Suites (TGRS) and the Theater Injection Point (TIP). The TGRS consists of a Receive Broadcast Manager (RBM) and a one meter satellite antenna which can receive video, imagery, and large data files at rates up to 29.5 megabits per second (Mbps). The TGRS is fielded to Battalion, Brigade Combat Teams, Division, Corps and Theater level units in active, National Guard, and reserve components. The TIP consists of a Transportable Satellite Broadcast Manager (TSBM) coupled with a Phoenix Super High Frequency (SHF) terminal. The TIP provides an in-theater injection capability for the GBS architecture that permits distribution of vital Joint Task Force Commander in-theater information to the TGRS. The Army TSBM is upgrading a down-sized Joint Internet Protocol Modem (JIPM) Network Control Center (Mini Hub) to maintain compatibility with other fixed injection sites, the Broadcast Management functions of the Defense Enterprise Computing Centers (DECC) and the TGRS. This is a Joint Program and is designated as a Department of Defense Space System.

The Approved Acquisition Objective (AAO) for GBS TGRS is 2080.

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</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>271.607</td>
<td>10.206</td>
<td>18.899</td>
<td>6.265</td>
<td>-</td>
<td>6.265</td>
<td>2.379</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>309.356</td>
</tr>
</tbody>
</table>

(Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |

Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |

Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |
Exhibit P-40, Budget Line Item Justification: PB 2016 Army  

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics  
Equipment / BSA 18: Comm - Satellite Communications

P-1 Line Item Number / Title:  
BC4120 / Global Brdcst Svc - GBS

ID Code (A=Service Ready, B=Not Service Ready):

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<th>Other Related Program Elements:</th>
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<tbody>
<tr>
<td>Total:</td>
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<td>Quantity</td>
</tr>
<tr>
<td></td>
<td>Total Obligation Authority</td>
<td>10.206</td>
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</table>
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 18: Comm - Satellite Communications

P-1 Line Item Number / Title:
BC4120 / Global Brdcst Svc - GBS

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

Other Related Program Elements:

<table>
<thead>
<tr>
<th>Exhibits Schedule</th>
<th>ID CD</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY 2016 Base procurement dollars in the amount of $6.265 million will support logistics, training, and fielding for previously procured systems to upgrade legacy TGRS to comply with Office of the Secretary of Defense mandated information assurance improvements to the GBS broadcast. GBS will field and train WINDOWS 7 upgrades.

DoD has stopped efforts to provide TRANSEC with the current JIPM solution and is pursuing a commercial modem to support the TRANSEC requirement for GBS in the future. The objective TRANSEC modem solution has not yet been identified. In the interim, the Army will field JIPMs on hand, to be used without TRANSEC, to provide increased capability for previously procured GBS suites and spares until the objective TRANSEC modem has been identified and tested by DISA.

*In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

<table>
<thead>
<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>271.607</td>
<td>10.206</td>
<td>18.899</td>
<td>6.265</td>
<td>6.265</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>271.607</td>
<td>10.206</td>
<td>18.899</td>
<td>6.265</td>
<td>6.265</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Cost Elements

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<tr>
<th>Cost Elements</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
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<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
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<th>Unit Cost ($ K)</th>
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<td>Flyaway Cost</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
### Exhibit P-5, Cost Analysis: PB 2016 Army

---

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A / 02 / 18

**P-1 Line Item Number / Title:**
- BC4120 / Global Brdct Svc - GBS

**Item Number / Title [DODIC]:**
- BC4120 / Global Brdct Svc - GBS

**ID Code** (A=Service Ready, B=Not Service Ready): 

**MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

---

**Date:** February 2015

---

### Prior Years

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<th>FY 2014</th>
<th>FY 2015</th>
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<th>FY 2016 Total</th>
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**Secondary Distribution**

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<tr>
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<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<table>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
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<tbody>
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(*) indicates the presence of a P-5a
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<th>OCO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>Joint IP Modem (JIPM) Upgrd Kit AN/TSR-8*(†)</td>
<td>2014</td>
<td></td>
<td>General Dynamics / C4 Systems / Taunton, MA</td>
<td>C / FFP</td>
<td>ESC/HNSK, Hanscom AFB</td>
<td>Sep 2014</td>
<td>Apr 2015</td>
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<td>63.000</td>
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<tr>
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<td>2015</td>
<td></td>
<td>General Dynamics / C4 Systems / Taunton, MA</td>
<td>C / FFP</td>
<td>ESC/HNSK, Hanscom AFB</td>
<td>Sep 2015</td>
<td>Apr 2016</td>
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<td>63.000</td>
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*(†)* indicates the presence of a P-21
### Joint IP Modem (JIPM) Upgrd Kit AN/TSR-8

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<th>Calendar Year 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<tr>
<td>O C R O # FY SERVICE PROC QTY</td>
<td>ACCEPT PRIOR TO 1 OCT 2013 BAL DUE AS OF 1 OCT</td>
<td></td>
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<tr>
<td>1 2014 ARMY 31</td>
<td>31</td>
<td>A</td>
<td>-</td>
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</table>

Prior Years Deliveries: 360

Joint IP Modem (JIPM) Upgrd Kit AN/TSR-8

<table>
<thead>
<tr>
<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>O C R O # FY SERVICE PROC QTY</td>
<td>ACCEPT PRIOR TO 1 OCT 2013 BAL DUE AS OF 1 OCT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 2014 ARMY 31</td>
<td>31</td>
<td>A</td>
<td>-</td>
</tr>
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</table>
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
BC4120 / Global Brdcsst Svc - GBS

**Item Number / Title [DODIC]:**
BC4120 / Global Brdcsst Svc - GBS

<table>
<thead>
<tr>
<th>Cost Elements (Units in Each)</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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<tbody>
<tr>
<td>1</td>
<td>2014</td>
<td>ARMY</td>
<td>31</td>
<td>31</td>
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**Joint IP Modem (JIPM) Upgrd Kit AN/TSR-8**

Prior Years Deliveries: 360

- Joint IP Modem (JIPM) Upgrd Kit AN/TSR-8
### Exhibit P-21, Production Schedule: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 18

#### P-1 Line Item Number / Title:
BC4120 / Global Brdcst Svc - GBS

#### Item Number / Title [DODIC]:
BC4120 / Global Brdcst Svc - GBS

#### Date: February 2015

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
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<tbody>
<tr>
<td>1</td>
<td>General Dynamics / C4 Systems - Taunton, MA</td>
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<td>60</td>
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<table>
<thead>
<tr>
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<th>Initial</th>
<th>Reorder</th>
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<tr>
<td>ALT</td>
<td>ALT</td>
<td>ALT</td>
</tr>
<tr>
<td>Prior to Oct 1</td>
<td>After Oct 1</td>
<td>Prior to Oct 1</td>
</tr>
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<td>Mfg PLT</td>
<td>Mfg PLT</td>
<td>Mfg PLT</td>
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<td>Total After Oct 1</td>
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<td>15</td>
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</table>

**Remarks:**

GBS is a Joint Program and all Services share the production line. Production for Joint IP Modem (JIPM)Upgrade Kits(AN/TSR-8)is 30 per month Production for Next Generation Receive Terminal (NGRT) is 25 per month

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 18: Comm - Satellite Communications

P-1 Line Item Number / Title:
BB8417 / Mod Of In-Svc Equip (TAC SAT)

UNCLASSIFIED

UNCLASSIFIED

Date: February 2015

Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020 To Complete</th>
<th>Total</th>
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<tbody>
<tr>
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<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>2.778</td>
<td>2.849</td>
<td>1.042</td>
<td>-</td>
<td>1.042</td>
<td>1.053</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>2.778</td>
<td>2.849</td>
<td>1.042</td>
<td>-</td>
<td>1.042</td>
<td>1.053</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>2.849</td>
<td>1.042</td>
<td>-</td>
<td>1.042</td>
<td>1.053</td>
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(These Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - |

Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - |

Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - |

Description:

Mod of In-Svc Equipment (TACSAT) funds the upgrades to Army tactical satellite communications equipment. This Mod of In-Svc funding procures and fields Tactical Computer Digital Mission Planner (T-CDMP) AN/PYQ-19. T-CDMP replaces the Communications Planning System (CPS)(AN/PSQ-17). The T-CDMP is an integrated tool on which Military Strategic and Tactical Relay (MILSTAR) and Advanced Extremely High Frequency (AEHF) satellite communication network planning will be performed. The T-CDMP supports real-time mission planning and network management to efficiently use limited satellite resources. The T-CDMP generates Terminal Image Data essential for the operation of Secure Mobile Anti-Jam Reliable Tactical Terminal (SMART-T) and Single Channel Anti-Jam Manportable Program (SCAMP) terminals. Mod of In-Svc funds the 20th Support Command - Command, Control, Communications and Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) requirements; the Unified Command Suite (UCS) to the National Guard; and provides Enroute Mission Command (EMC) capability for the 82nd Airborne Global Response Force (GRF).

The T-CDMP Approved Acquisition Objective is 318.

Secondary Distribution

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**Justification:**

FY 2016 Base procurement dollars in the amount of $1.042 million funds the logistics, training and fielding for previously procured Tactical Computer Digital Mission Planner (T-CDMPs).

"IAW Section 1815 of the FY 2008 NDAA (P.L. 110-181), this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing the military support to civil authorities."
UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army

Resource Summary

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<th>FY 2015</th>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - |

Description:

MOD OF IN SVC: This program provides a tactical satellite communications capability to meet critical Ground Mobile Forces (GMF) Command, Control, Communications, Computers and Intelligence (C4I), needs not satisfied by conventional terrestrial communications systems. The GMF are those components of the Army, Navy, Air Force, Marine Corps, Special Operations Forces and Joint Communications Support Elements engaged in land, tactical air combat, and amphibious operations ranging from single-service crisis missions to mutually supportive joint-service combat scenarios. Mod of In Svc Equipment (TACSAT) funds the upgrades to Army Tactical Satellite Communications Equipment. In addition, provides support for the 20th Support Command - Command, Control, Communications and Computers Intelligence Surveillance Reconnaissance (C4ISR) gear; the Unified Command Suite (UCS) to the National Guard; and provides EMC capability for the 82nd airborne Global Response Force (GRF).

T-CDMP: FY 2016 funds training and fielding of the Tactical Computer, Digital, Mission Planner (T-CDMP)/(AN/PYQ-19), to meet modularity requirements for Advanced Extremely High Frequency (AEHF) protected communication mission planning. T-CDMP supports communications mission planning and management of satellite resources on MILSTAR and AEHF for Army Secure Mobile Anti-Jam Reliable Tactical Terminal (SMART-T) and Single Channel Anti-Jam Man-Portable (SCAMP) terminals. These terminals provide world wide anti-jam, low probability of intercept and detection, secure voice and data capability for Brigade, Division, Corps, and special users. The Air Force is the Executive Agent for developing the Tactical Mission Planning Sub-System (T-MPSS)/(AN/PYQ-14), the major subassembly of the T-CDMP (AN/PYQ-19). Each service is responsible for procuring the T-CDMP and fielding the system to their communications planners. The T-CDMP is essential to the operation of the SCAMP and SMART-T. This program will procure the designated hardware, field, provide training and technical data for SCAMP and SMART-T communications planners.
## Exhibit P-3a, Individual Modification: PB 2016 Army

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### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 18

### P-1 Line Item Number / Title:
BB8417 / Mod Of In-Svc Equip (TAC SAT)

### Modification Number / Title:
BB8417 / MOD OF IN SVC EQUIP (TACSAT)

### Models of Systems Affected:
None

### Modification Type:
0

### Related RDT&E PEs:

### Financial Plan

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**Modification Item 1 of 1: T-CDMP**

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#### Installation

**Modification Item 1 of 1: T-CDMP**

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#### Total

| Total Cost (Procurement + Support + Installation) | 540.709 | 2.778 | 2.849 | 1.042 | - | 1.042 | 1.053 | - | - | - | - | 548.431 |

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LI BB8417 - Mod Of In-Svc Equip (TAC SAT)

UNCLASSIFIED

Army

Page 4 of 5

P-1 Line #26
**UNCLASSIFIED**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
BB8417 / Mod Of In-Svc Equip (TAC SAT)

**Modification Number / Title:**
BB8417 / MOD OF IN SVC EQUIP (TACSAT)

### Modification Item 1 of 1: T-COMP

#### Manufacturer Information

**Manufacturer Name:** RAYTHEON

**Manufacturer Location:** MARLBOROUGH, MA

**Administrative Leadtime (in Months):** 2

**Production Leadtime (in Months):** 12

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**LI BB8417 - Mod Of In-Svc Equip (TAC SAT)**

UNCLASSIFIED

Page 5 of 5

P-1 Line #26
**Resource Summary**

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<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items:</th>
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<td>Net Procurement (P1) ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>Initial Spares ($ in Millions)</td>
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<td>Flyaway Unit Cost ($ in Thousands)</td>
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<td>Gross/Weapon System Unit Cost ($ in Thousands)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Description:**

Enroute Mission Command Capability (EMC) supports the Global Response Force (GRF) requirement to conduct Airborne forcible entry operations with the ability to conduct mission command, to include mission planning and rehearsal, while enroute on board US Air Force Air Mobility Command (AMC) aircraft. EMC modernizes enroute communications to enable broadband reach-back data capability utilizing military or commercial networks with adequate bandwidth support required by Mission Command and Intelligence applications.

The enduring requirement for EMC is documented in the Transmission Systems Capabilities Production Document (CPD), which was Joint Requirements Oversight Council (JROC) approved 18 Dec 2014. The Army Procurement Objective (APO) for the EMC is 8 nodes.

**Secondary Distribution**

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### Justification:

FY 2016 Base procurement dollars in the amount of $7.116 million will support fielding and training of Fixed Installed Satellite Antennas (FISA), Command and Staff Palletized Airborne Nodes (CASPAN), Key-leader Enroute Nodes (KEN) and Dependent Airborne Nodes (DAN) procured in FY15. It will also support Environmental testing; Army Interoperability Certification (AIC) and Joint Integration Test Command (JITC) certification.

Operational Needs Statement (ONS) 09-9319 was revalidated by the HQDA G-3 on 5 Nov 2014 to support fielding of the objective capability, which will support a full brigade lift of the Alpha echelon for a forced entry operation. (ONS) 09-9319 was only validated by HQDA G3 in 5 Mar 2013. $21.275 million was provided in September 2013 via an Above Threshold Reprogramming (ATR) on SSN BB8417 Modification of In-Service Equipment (TACSAT) in support of that ONS to provide an initial capability.

### Exhibits Schedule

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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
### UNCLASSIFIED

**Exhibit P-5, Cost Analysis:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
B08400 / ENROUTE MISSION COMMAND (EMC)

**Item Number / Title [DODIC]:**
B00015 / Enroute Mission Command (EMC)

**Date:** February 2015

#### Resource Summary

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#### Procurement Quantity (Units in Each)

- Gross/Weapon System Cost ($ in Millions)
- Less PY Advance Procurement ($ in Millions)
- Net Procurement (P1) ($ in Millions)
- Plus CY Advance Procurement ($ in Millions)
- Net Procurement Authority ($ in Millions)

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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

- Initial Spares ($ in Millions)
- Gross/Weapon System Unit Cost ($ in Thousands)
- Prior Years
- FY 2014
- FY 2015
- FY 2016 Base
- FY 2016 OCO
- FY 2016 Total

**UNCLASSIFIED**

LI B08400 - ENROUTE MISSION COMMAND (EMC)

UNCLASSIFIED

Page 3 of 8

P-1 Line #27
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FY 2016 Total: 7.116

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<th>Date of First Delivery</th>
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<th>Unit Cost ($ K)</th>
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<th>Fiscal Year 2016</th>
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<tr>
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LI B08400 - ENROUTE MISSION COMMAND (EMC)
### Cost Elements (Units in Each)

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<th>FY</th>
<th>SERVICE</th>
<th>PROC</th>
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<td>ARMY</td>
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**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18

**P-1 Line Item Number / Title:** B08400 / ENROUTE MISSION COMMAND (EMC)

**Item Number / Title [DODIC]:** B00015 / Enroute Mission Command (EMC)

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<th>QTY</th>
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<tbody>
<tr>
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**Date:** February 2015

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### Fiscal Year 2017

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**Calendar Year 2017**

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**Fiscal Year 2018**

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**Calendar Year 2018**

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**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 18

**P-1 Line Item Number / Title:**
B08400 / ENROUTE MISSION COMMAND (EMC)

**Item Number / Title [DODIC]:**
B00015 / Enroute Mission Command (EMC)

**Date:** February 2015

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<th>MAX For 2016</th>
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<th>Mfg PLT</th>
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"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999, all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics

Equipment / BSA 24: Comm - C3 System

Exhibit P-40, Budget Line Item Justification:
PB 2016 Army

Date: February 2015

P-1 Line Item Number / Title:
BA8250 / Army Global Cmd & Control Sys (AGCCS)

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

Other Related Program Elements: 0303150A

Resource Summary

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</thead>
<tbody>
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<td>2.590</td>
<td>-</td>
<td>10.137</td>
<td>-</td>
<td>10.137</td>
<td>2.529</td>
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<td>422.892</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>2.590</td>
<td>-</td>
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<td>-</td>
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<td>4.648</td>
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<td>422.892</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - |

Description:
Global Command and Control System-Army (GCCS-A): This project is the Army component of the Global Command and Control System (GCCS) Family of Systems (FoS). GCCS-A provides automated command and control tools, including Force readiness, planning and movement, and situational awareness, for Army Strategic and Operational Theater commanders to enhance warfighter capabilities throughout the spectrum of conflict during Joint and combined operations in support of National Security. GCCS-A dramatically improves the Army's ability to analyze courses of action, develop and manage Army forces and execute war plans. GCCS-A links the GCCS-Joint Common Operating Picture with the Army Mission Command systems. In accordance with Army Command Post Computing Environment and Joint Command and Control objectives, GCCS-A will be re-architected away from a scalable process architecture based server - thick client architecture to a virtualized server - web client architecture hosted on Battle Command Common Services. In addition, Product Manager, GCCS-A is the Executive Agent with responsibility to procure and field GCCS-J hardware and Commercial-Off-The-Shelf (COTS) software to selected GCCS-J sites.
### Justification:

GCCS-A FY 2016 Base funding will support fielding of GCCS-A 4.3 and procurement of GCCS-J refresh hardware in the amount of $10.137 million. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

### Exhibits Schedule

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<th>Exhibits</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Title</td>
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<td>Quantity / Total Cost (Each) / ($ M)</td>
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<td>- / 2.590</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
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<tr>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>397.726</td>
<td>2.590</td>
<td>-</td>
<td>10.137</td>
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</table>

Initial Spares ($ in Millions)

Gross/Weapon System Unit Cost ($ in Thousands)

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flyaway Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>GCCS-A H/W</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>GCCS-J Hardware Refresh†</td>
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<td>Software Support</td>
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<td>PMO Support</td>
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<tr>
<td>Subtotal: Recurring Cost</td>
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<td>-</td>
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<tr>
<td>Subtotal: Flyaway Cost</td>
<td>-</td>
<td>-</td>
<td>397.726</td>
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<td>2.590</td>
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</tr>
<tr>
<td>Gross/Weapon System Cost</td>
<td>-</td>
<td>-</td>
<td>397.726</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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Secondary Distribution

<table>
<thead>
<tr>
<th>Army</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority</td>
<td>2.590</td>
<td>-</td>
<td>10.137</td>
<td>-</td>
<td>10.137</td>
</tr>
</tbody>
</table>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
**Exhibit P-5, Cost Analysis:** PB 2016 Army

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 24

**P-1 Line Item Number / Title:**
BA8250 / Army Global Cmd & Control Sys (AGCCS)

**Item Number / Title [DODIC]:**
BA8250 / Army Global Cmd & Control Sys (AGCCS)

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>MDAP/MAIS Code:</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Total Obligation Authority</td>
<td>2.590</td>
<td>-</td>
<td>10.137</td>
<td>-</td>
<td>10.137</td>
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</tbody>
</table>

(†) indicates the presence of a P-5a
Exhibit P-5a, Procurement History and Planning: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 24

P-1 Line Item Number / Title: BA8250 / Army Global Cmd & Control Sys (AGCCS)

Item Number / Title [DODIC]: BA8250 / Army Global Cmd & Control Sys (AGCCS)

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>OCO FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>GCCS-J Hardware Refresh(*)</td>
<td>2016</td>
<td>General Dynamics / Tauton</td>
<td>C / FFP</td>
<td>Aberdeen Proving Ground</td>
<td>Jan 2016</td>
<td>Apr 2016</td>
<td>34</td>
<td>241.000</td>
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</table>

(*) indicates the presence of a P-21

Remarks:
Refresh hardware required for 17 GCCS-J sites and COOP. 34 total sets of hardware.
Exhibit P-21, Production Schedule: PB 2016 Army

<table>
<thead>
<tr>
<th>Cost Elements (Units in Each)</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
</tr>
</thead>
</table>
| M                            | O               | C                 | R               | F
| O # FY POLICY                | PROC QTY        | ACCEPT            | BAL DUE AS OF 1 OCT | DUE AS OF 1 OCT |
| GCCS-J Hardware Refresh      |                 |                   |                 |                   |
| 1 2016 ARMY                  | 34              | -                 | 34              | A -               |
|                               |                 |                   |                 |                   |
|                               |                 |                   |                 |                   |

LI BA8250 - Army Global Cmd & Control Sys (AGCCS)
Exhibit P-21, Production Schedule: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 24

P-1 Line Item Number / Title: BA8250 / Army Global Cmd & Control Sys (AGCCS)

Item Number / Title [DODIC]: BA8250 / Army Global Cmd & Control Sys (AGCCS)

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
<th>Initial ALT Prior to Oct 1</th>
<th>Initial ALT After Oct 1</th>
<th>Initial Mfg PLT</th>
<th>Total After Oct 1</th>
<th>Initial ALT Prior to Oct 1</th>
<th>Initial ALT After Oct 1</th>
<th>Initial Mfg PLT</th>
<th>Total After Oct 1</th>
<th>Reorder ALT Prior to Oct 1</th>
<th>Reorder ALT After Oct 1</th>
<th>Reorder Mfg PLT</th>
<th>Total After Oct 1</th>
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<tbody>
<tr>
<td>1</td>
<td>General Dynamics - Tauton</td>
<td>1</td>
<td>10</td>
<td>50</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<td>-</td>
</tr>
</tbody>
</table>

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
Handheld, Manpack, and Small Form Fit (HMS) is a materiel solution meeting the requirements for a Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government purpose rights software waveforms (applications). HMS is an Acquisition Category (ACAT) ID Program that encompasses specific requirements to support the US Army, US Air Force, US Navy, US Marine Corps and the Special Operations Command (SOCOM) communication needs.

HMS provides voice and data communications to the tactical edge/most disadvantaged Warfighter with an on the move, at the halt, and stationary Line of Sight (LOS)/ Beyond Line of Sight (BLOS) capability for both dismounted personnel and platforms. HMS radios are software re-programmable, networkable multi-mode system (of systems) capable of simultaneous voice, data and video communications. The embedded Small Form Factor (SFF) versions of HMS may be used for Unmanned Vehicles and other platform applications.

HMS is structured as a single program of record. The program has completed the Engineering Manufacturing and Development Phase and received Milestone C approval on 17 June 2011 with Low Rate Initial Production configured radios.

HMS is currently executing an April 2014 approved acquisition strategy to procure modified non-developmental items (NDI) through full and open competition open to all potential industry partners. The first phase is to procure an NDI AN/PRC-154A Rifleman Radio (RR) for use in a classified environment. The RR ports the Soldier Radio Waveform (SRW)-Army managed waveform. The second phase is procuring an NDI AN/PRC-155 Manpack (MP) for use in a classified environment. Waveforms to be ported to HMS MP include: SRW, Single Channel Ground and Airborne Radio System (SINCGARS)-Army managed waveform, Satellite Communications (SATCOM)-Army managed waveform, and Mobile-User Objective System (MUOS)-Navy managed waveform.

The Army will award Multiple Firm Fixed-Price (FFP) IDIQ Contracts through a multiple step selection process:
a. Award FFP Contracts and initial delivery orders to all qualified vendors based on technical acceptability and demonstrations (4QFY15 for RR and 1QFY16 for MP).
b. Award second delivery orders based on qualification test results (2QFY16 for RR and 3QFY16 for MP)
c. Award FRP delivery orders based on operational assessments and best value trade off construct (2QFY17 for RR and 4QFY17 for MP).
Following full and open competition, qualified NDI RR and MP Radios will require operationally-relevant testing to inform a Full Rate Production decision and to support fielding to Capability Set units.

The current Rifleman Radio (Army) AAO is 193,279 (of which 37,632 are for SRW Applique). SRW Appliqué is a single-channel, vehicle-mounted radio running SRW that can be retrofit into the same space as SINCGARS. The Army intends to integrate the SRW Appliqué radios with multiple vehicle platforms for fielding flexibility.

The current Manpack and SFF-B (Army) AAO is 66,572.

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Army</td>
<td>Quantity</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority</td>
<td>247.000</td>
<td>40.711</td>
<td>64.640</td>
<td>-</td>
<td>64.640</td>
<td>290.894</td>
<td>469.263</td>
<td>470.364</td>
<td>480.221</td>
</tr>
<tr>
<td>Total: Secondary Distribution</td>
<td>Quantity</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Total Obligation Authority</td>
<td>247.000</td>
<td>40.711</td>
<td>64.640</td>
<td>-</td>
<td>64.640</td>
<td>290.894</td>
<td>469.263</td>
<td>470.364</td>
<td>480.221</td>
</tr>
</tbody>
</table>
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 32: Comm - Combat Communications

P-1 Line Item Number / Title:
B90000 / Joint Tactical Radio System

ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items:
Other Related Program Elements: 0604280A

Display Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items:
Other Related Program Elements: 0604280A

Line Item MDAP/MAIS Code:
Item MDAP/MAIS Code(s): 385

<table>
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<tr>
<th>Exhibits Schedule</th>
<th>Title*</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B90210 / JTRS Cluster 5 Rifleman Radio</td>
<td>P-5, P-5a, P-21</td>
<td>-</td>
<td>25,205 / 513.859</td>
<td>25,205 / 513.859</td>
<td>- / 34,200</td>
<td>300 / 34.910</td>
<td>- / -</td>
<td>300 / 34.910</td>
</tr>
<tr>
<td></td>
<td>B90215 / JTRS (MANPACK)</td>
<td>P-5, P-5a, P-21</td>
<td>-</td>
<td>1,500 / 180.194</td>
<td>1,500 / 180.194</td>
<td>- / 212,800</td>
<td>240 / 29.730</td>
<td>- / -</td>
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</tr>
<tr>
<td></td>
<td>Total Gross/Weapon System Cost</td>
<td>-</td>
<td>-</td>
<td>- / 721.343</td>
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<td>- / 247.000</td>
<td>- / 64.640</td>
<td>- / -</td>
<td>- / 64.640</td>
</tr>
</tbody>
</table>

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY16 Base procurement dollars in the amount of $64.640M supports the procurement of:
-300 operational test assets for the Rifleman Radio, support equipment, and fielding. ($34.910M) (100 radios per vendor)
-240 operational test assets for the Manpack Radio, NRE, and vehicle integration. ($29.730M) (60 radios per vendor)

In accordance with Section 1815 of the FY08 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
<td>300</td>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>513.859</td>
<td>34.200</td>
<td>14.200</td>
<td>34.910</td>
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<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>34.200</td>
<td>14.200</td>
<td>34.910</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>513.859</td>
<td>34.200</td>
<td>14.200</td>
<td>34.910</td>
<td>-</td>
</tr>
</tbody>
</table>

*Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.*

*The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.*

### Note

- Subtotal or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
- The corresponding budget requests are documented elsewhere.

### Cost Elements

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flyaway Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recurring Cost</td>
<td></td>
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</tr>
<tr>
<td>Hardware NRE</td>
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<tr>
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<td>7.500</td>
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<td>Support Equipment</td>
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<tr>
<td>Other</td>
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<td>-</td>
<td>34.200</td>
</tr>
<tr>
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<td>-</td>
<td>34.200</td>
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<td>25,205</td>
<td>513.859</td>
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<td>34.200</td>
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## Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 32

**P-1 Line Item Number / Title:**
B90000 / Joint Tactical Radio System

**Item Number / Title [DODIC]:**
B90210 / JTRS Cluster 5 Rifleman Radio

<table>
<thead>
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<th>MDAP/MAIS Code: 385</th>
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<tbody>
<tr>
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### Secondary Distribution

<table>
<thead>
<tr>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Army</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantity</td>
<td>-</td>
<td>-</td>
<td>300</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority</td>
<td>34.200</td>
<td>14.200</td>
<td>34.910</td>
<td>-</td>
</tr>
<tr>
<td>Total: Secondary Distribution</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Quantity</td>
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(†) indicates the presence of a P-5a
**Exhibit P-5a, Procurement History and Planning:** PB 2016 Army  

**Date:** February 2015  

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A / 02 / 32  

**P-1 Line Item Number / Title:**  
B90000 / Joint Tactical Radio System  

**Item Number / Title [DODIC]:**  
B90210 / JTRS Cluster 5 Rifleman Radio  

<table>
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<th>Cost Elements</th>
<th>OCO FY</th>
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<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Available Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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†† indicates the presence of a P-21

**Remarks:**  
The Joint Tactical Radio System (JTRS) Handheld, Manpack, and Small Form Fit (HMS) contract will be Firm Fixed Price (FFP) for Full Rate Production (FRP).
## Cost Elements

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<th>Appropriation</th>
<th>Proc Qty</th>
<th>FY</th>
<th>Service</th>
<th>Proc FY</th>
<th>Accept Prior to 1 Oct 2015</th>
<th>Bal Due As of 1 Oct</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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Manufacturing - Rifleman Radio (SAB)

Prior Years Deliveries: 11852

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<th>Bal Due As of 1 Oct</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
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</table>

Remarks:
Based on the Army's requirements and the number of vendors, min/max production rates will be determined at that time. Current numbers reflect planned competition test quantities.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999, all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis:** PB 2016 Army  
**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32  
**P-1 Line Item Number / Title:** B90000 / Joint Tactical Radio System  
**Item Number / Title [DODIC]:** B90215 / JTRS (MANPACK)  
**ID Code (A=Service Ready, B=Not Service Ready):**  
**MDAP/MAIS Code:** 385

**Resource Summary**

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<th>Procurement Quantity (Units in Each)</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
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**Gross/Weapon System Cost ($ in Millions)**

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<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>180.194</td>
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**Less PY Advance Procurement ($ in Millions)**

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<th>FY 2014</th>
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<th>FY 2016 OCO</th>
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<tbody>
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**Net Procurement (P1) ($ in Millions)**

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<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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**Net Procurement (P1) ($ in Millions)**

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<th>FY 2014</th>
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**Total Obligation Authority ($ in Millions)**

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<th>FY 2014</th>
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<th>FY 2016 OCO</th>
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*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

**Initial Spares ($ in Millions)**

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<th>FY 2015</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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**Gross/Weapon System Unit Cost ($ in Thousands)**

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<td>120.129</td>
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**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

**Cost Elements**

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<th>FY 2014 Unit Cost ($ K)</th>
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<th>Total Cost ($ M)</th>
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<th>FY 2016 Total Qty (Each)</th>
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**Secondary Distribution**

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<th>FY 2015 Quantity</th>
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**Army**

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Page 9 of 13  
P-1 Line #29
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32
P-1 Line Item Number / Title: B90000 / Joint Tactical Radio System

<table>
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</table>

(†) indicates the presence of a P-5a
### Remarks:
The Joint Tactical Radio System (JTRS) Handheld, Manpack, and Small Form Fit (HMS) contract will be Firm Fixed Price (FFP) for Full Rate Production (FRP).

### Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>OCO FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Available</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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(*) indicates the presence of a P-21
Exhibit P-21, Production Schedule: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32
P-1 Line Item Number / Title: B90000 / Joint Tactical Radio System

Item Number / Title [DODIC]: B90215 / JTRS (MANPACK)

**Exhibit P-21, Production Schedule:**

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<th>Cost Elements (Units in Each)</th>
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<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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Recurring Manufacturing - Manpack

Prior Years Deliveries: 1500

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<td>MFR Ref</td>
<td>MFR Name - Location</td>
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<td>1</td>
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</table>

**Remarks:**

Based on the Army's requirements and the number of vendors, min/max production rates will be determined at that time. Current numbers reflect planned competition test quantities.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999, all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000, all quantities are shown in billions (rounded to the nearest million).
**Description:**

The Mid-tier Networking Vehicular Radio (MNVR) enables the extension of data services within the tactical network through seamless integration of the upper and lower tiers; providing software-defined, multi-channel networking radios for a wide variety of Army tactical vehicles to meet the Army's requirement for the Mid-tier Wideband Networking (MWN) capability.

On 20 September 2013, the Defense Acquisition Executive (DAE) signed the Acquisition Decision Memorandum (ADM) approving the program Materiel Development Decision (MDD). The ADM designated MNVR as an ACAT 1D Special Interest Program under the continued oversight of the DAE. It approved the Army to award an Industry contract, which was awarded on 24 September 2013 as a single award for an Indefinite Deliver Indefinite Quantity (IDIQ), firm fixed price contract.

The Approved Acquisition Objective (AAO) for the MNVR is 10,293.

---

### Secondary Distribution

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<tr>
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**Description:**

The Mid-tier Networking Vehicular Radio (MNVR) enables the extension of data services within the tactical network through seamless integration of the upper and lower tiers; providing software-defined, multi-channel networking radios for a wide variety of Army tactical vehicles to meet the Army's requirement for the Mid-tier Wideband Networking (MWN) capability.

On 20 September 2013, the Defense Acquisition Executive (DAE) signed the Acquisition Decision Memorandum (ADM) approving the program Materiel Development Decision (MDD). The ADM designated MNVR as an ACAT 1D Special Interest Program under the continued oversight of the DAE. It approved the Army to award an Industry contract, which was awarded on 24 September 2013 as a single award for an Indefinite Deliver Indefinite Quantity (IDIQ), firm fixed price contract.

The Approved Acquisition Objective (AAO) for the MNVR is 10,293.
### Justification:

FY 2016 Base procurement dollars in the amount of $27.762 million funds the procurement of 226 radios for fielding in FY17. FY 2016 funding also provides for preliminary CS 17 & 18 fielding activities including Tier I & II Support Operations Cell (SOC)/Single Interface to the Field (SIF) support; minor hardware modifications; Source Selection for the next industry-developed version of the MNVR to be fielded starting in CS19; and Project Management Administration (PMA) costs to support the execution of the modified Non-Developmental Item (NDI) strategy for a mid-tier networking vehicular capability.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

### Exhibits Schedule

<table>
<thead>
<tr>
<th>Title*</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Quantity / Total Cost (Each)</th>
<th>Quantity / Total Cost (Each)</th>
<th>Quantity / Total Cost (Each)</th>
<th>Quantity / Total Cost (Each)</th>
<th>Quantity / Total Cost (Each)</th>
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</thead>
<tbody>
<tr>
<td>B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)</td>
<td>P-5, P-5a, P-21</td>
<td>-</td>
<td>51.105</td>
<td>-</td>
<td>27.762</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Total Gross/Weapon System Cost</td>
<td>-</td>
<td>-</td>
<td>60.205</td>
<td>-</td>
<td>47.182</td>
<td>-</td>
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</tr>
</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 36  
**P-1 Line Item Number / Title:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)  
**Item Number / Title [DODIC]:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)

#### ID Code (A=Service Ready, B=Not Service Ready) :

**MDAP/MAIS Code:**

<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>51.105</td>
<td>19.200</td>
<td>4.692</td>
<td>27.762</td>
<td>-</td>
<td>27.762</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>51.105</td>
<td>19.200</td>
<td>4.692</td>
<td>27.762</td>
<td>-</td>
<td>27.762</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>51.105</td>
<td>19.200</td>
<td>4.692</td>
<td>27.762</td>
<td>-</td>
<td>27.762</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**  
**Gross/Weapon System Unit Cost ($ in Thousands)**  
- 122,841

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

#### Cost Elements

| Flyway Cost Recurring Cost | Engineering Changes | - | - | 2,254 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| System Test and Evaluation | - | - | 2,618 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Platform Integration/ Installation | - | - | 10,800 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Management Administration | - | - | 27,063 | - | - | 14,750 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal: Recurring Cost | - | - | 42,735 | - | - | 16,993 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal/ Flyaway Cost | - | - | 42,735 | - | - | 16,993 | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Hardware Cost Recurring Cost | Mid-Tier Networking Radio (B-Kit)(1) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 43,951 |
| Other Hardware (A- Kit) | - | - | 5,078 | - | - | 0,936 | - | - | - | - | - | - | - | - | - | - | - | - | 1029 |
| Network Management/ Software Loader | - | - | 0,591 | - | - | 0,115 | - | - | - | - | - | - | - | - | - | - | - | - | 0,187 |
| Subtotal: Recurring Cost | - | - | 5,669 | - | - | 1,051 | - | - | - | - | - | - | - | - | - | - | - | - | 11,149 |
| Subtotal/ Hardware Cost | - | - | 5,669 | - | - | 1,051 | - | - | - | - | - | - | - | - | - | - | - | - | 11,149 |

| Logistics Cost Recurring Cost |

---

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 36  
**P-1 Line Item Number / Title:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)  
**Item Number / Title [DODIC]:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)

---

LI B51001 - MID-TIER NETWORKING VEHICULAR RADIO (MNVR)
## Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 36

**P-1 Line Item Number / Title:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)

**Item Number / Title [DODIC]:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)

**ID Code** (A=Service Ready, B=Not Service Ready) :

**MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Prior Years

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<tr>
<th>Cost Elements</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
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</thead>
<tbody>
<tr>
<td>Data/Training/CLS/Support Equipment</td>
<td>-</td>
<td>-</td>
<td>2.701</td>
<td>-</td>
<td>-</td>
<td>1.156</td>
<td>-</td>
<td>-</td>
<td>0.084</td>
<td>-</td>
<td>-</td>
<td>0.084</td>
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<tr>
<td>Subtotal: Recurring Cost</td>
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<td>-</td>
<td>2.701</td>
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<td>-</td>
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### Secondary Distribution

<table>
<thead>
<tr>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Army</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority</td>
<td>19.200</td>
<td>4.692</td>
<td>27.762</td>
<td>-</td>
</tr>
<tr>
<td>Total: Secondary Distribution</td>
<td>Quantity</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority</td>
<td>19.200</td>
<td>4.692</td>
<td>27.762</td>
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</tbody>
</table>

(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 36

**P-1 Line Item Number / Title:**
B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)

**Item Number / Title [DODIC]:**
B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>OCO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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</thead>
</table>

\(^{(†)}\) indicates the presence of a P-21

**Remarks:**
This represents the procurement of Delivery Order Number 3 on the current Harris Corp contract, dated 24 September 2013.
### Exhibit P-21, Production Schedule: PB 2016 Army

<table>
<thead>
<tr>
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<tr>
<td>P-1 Line Item Number / Title: B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)</td>
</tr>
<tr>
<td>Item Number / Title [DODIC]: B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)</td>
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</tbody>
</table>

#### Cost Elements (Units in Each)

<table>
<thead>
<tr>
<th>MFR O# FY</th>
<th>SERVICE</th>
<th>PROC QTY</th>
<th>ACCEPT PRIOR TO 1 OCT</th>
<th>BAL DUE AS OF 1 OCT</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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</thead>
<tbody>
<tr>
<td>1 2016 Army</td>
<td>226</td>
<td>-</td>
<td>226</td>
<td></td>
<td>A</td>
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</table>

### Mid-Tier Networking Radio (B-Kit)

<table>
<thead>
<tr>
<th>MFR O# FY</th>
<th>SERVICE</th>
<th>PROC QTY</th>
<th>ACCEPT PRIOR TO 1 OCT</th>
<th>BAL DUE AS OF 1 OCT</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 2016 Army</td>
<td>226</td>
<td>-</td>
<td>226</td>
<td></td>
<td>A</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
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</table>
## Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 36

**P-1 Line Item Number / Title:**
B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)

**Item Number / Title [DODIC]:**
B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR)

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
<th>Initial ALT Prior to Oct 1</th>
<th>Initial ALT After Oct 1</th>
<th>Initial Mfg PLT</th>
<th>Total After Oct 1</th>
<th>Reorder ALT Prior to Oct 1</th>
<th>Reorder ALT After Oct 1</th>
<th>Reorder Mfg PLT</th>
<th>Total After Oct 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Harris Corp - Rochester NY</td>
<td>10</td>
<td>223</td>
<td>400</td>
<td>353</td>
<td>176</td>
<td>176</td>
<td></td>
<td>176</td>
<td></td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**Remarks:**
FY 2016 dollars support the procurement of 226 radios. 204 radios will field to Capability Set (CS) 17 and 22 radios will be provided to the schoolhouse.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
### Description:
The Multifunctional Information Distribution System Low Volume Terminal (MIDS LVT) is a communications device that provides situational awareness information exchange between aircraft, airborne command and control, Ground Air Defense and shipboard platforms in the Tactical Data Link-16 Network. The Army variant consists of three Line Replaceable Units (Main Terminal, Power Supply Assembly and Cooling Unit) installed on a mounting base, which physically and functionally replaces the Joint Tactical Information Distribution System (JTIDS) Class 2M terminal.

The Army Acquisition Objective (AAO) for MIDS is 709 and the Army Procurement Objective is 572. The Army procured 566 terminals through FY14 and no more hardware procurements are planned. Army future procurement are for Block Upgrade 2 (BU2) upgrade kits only.


Army MIDS is part of the Joint Navy-led MIDS program. The Army leverages Navy contracts to support Army MIDS efforts and to upgrade the BU2 crypto-modernization initiative. The BU2 retrofit improves the capabilities and security of the MIDS LVT by incorporating the crypto-modernization and mandated frequency remapping to ensure compliance with National Security Agency and Federal Aviation Administration mandates. The BU2 kit replaces approximately five shop replaceable units within the radio.

### Resource Summary

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units Each)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
</tbody>
</table>

(Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | 109.558 | - | 109.558 | - | - | - | - | - | Continuing |

(Continuing)

### Secondary Distribution

<table>
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<tr>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Army</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>---------</td>
</tr>
<tr>
<td>Quantity</td>
<td>-</td>
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<td>-</td>
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</tbody>
</table>

LI B22603 - Radio Terminal Set, MIDS LVT(2)

UNCLASSIFIED
### Justification:
FY2016 Base dollars in the amount of $9.422 million will support Block Upgrade 2 retrofit, engineering services, software support, and program management. The Block Upgrade 2 unit cost is pending contract award and negotiation. With a planning retrofit unit cost of $65K, 86 BU2 retrofit kits may be procured in FY16.
**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32

**P-1 Line Item Number / Title:** B22603 / Radio Terminal Set, MIDS LVT(2)

**Item Number / Title [DODIC]:** B22603 / Radio Terminal Set, MIDS LVT(2)

**MDAP/MAIS Code:** 554

**ID Code (A=Service Ready, B=Not Service Ready):**

### Resource Summary

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<tr>
<th>Prior Years</th>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>77.610</td>
<td>1.438</td>
<td>15.698</td>
<td>9.422</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>77.610</td>
<td>1.438</td>
<td>15.698</td>
<td>9.422</td>
<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>77.610</td>
<td>1.438</td>
<td>15.698</td>
<td>9.422</td>
<td>-</td>
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</table>

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

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<tr>
<th>Prior Years</th>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>Flyaway Cost</td>
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<tr>
<td>Recurring Cost</td>
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<td>Hardware</td>
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<tr>
<td>Other Hardware - Voice Conv(1)</td>
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<td>Other Hardware - BU2(1)</td>
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<td>Gross/Weapon System Cost</td>
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### Secondary Distribution

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<th>FY 2016 Total</th>
</tr>
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<tr>
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### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 32

**P-1 Line Item Number / Title:**
B22603 / Radio Terminal Set, MIDS LVT(2)

**Item Number / Title [DODIC]:**
B22603 / Radio Terminal Set, MIDS LVT(2)

**ID Code** (A=Service Ready, B=Not Service Ready):

**MDAP/MAIS Code:** 554

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<th>Secondary Distribution</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Total:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Obligation Authority</td>
<td>1.438</td>
<td>15.698</td>
<td>9.422</td>
<td>-</td>
<td>9.422</td>
</tr>
<tr>
<td>Quantity</td>
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<tr>
<td>Total:</td>
<td></td>
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(†) indicates the presence of a P-5a
### Cost Elements

<table>
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<tr>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($k)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tbody>
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<td>C / FFP</td>
<td>SPAWAR, San Diego, CA</td>
<td>Jul 2015</td>
<td>Jul 2016</td>
<td>58</td>
<td>-</td>
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<td>2015</td>
<td>ViaSat / Carlsbad, CA</td>
<td>C / FFP</td>
<td>SPAWAR, San Diego, CA</td>
<td>Jul 2015</td>
<td>Jul 2016</td>
<td>486</td>
<td>-</td>
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<tr>
<td>2016</td>
<td>TBD / TBD</td>
<td>C / FFP</td>
<td>TBD</td>
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<td>Jun 2016</td>
<td>86</td>
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(†) indicates the presence of a P-21

**Remarks:**
FY15 buys Voice Conversion Kits at a total quantity of 544 using two vendors. FY16 buys BU2 Upgrade Kits
<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
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<td>ARMY (II)</td>
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Other Hardware - BU2
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 32

**P-1 Line Item Number / Title:**
B22603 / Radio Terminal Set, MIDS LVT(2)

**Item Number / Title [DODIC]:**
B22603 / Radio Terminal Set, MIDS LVT(2)

**Date:** February 2015

#### Cost Elements (Units in Each)

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<th>SERVICE</th>
<th>PROC QTY</th>
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<th>BAL DUE AS OF 1 OCT</th>
<th>M</th>
<th>O</th>
<th>F</th>
<th>R</th>
<th>O</th>
<th>#</th>
<th>FY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>58</td>
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<td>35</td>
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<td></td>
<td>OTHER HARDWARE - BU2</td>
<td>ARMY (II)</td>
<td>486</td>
<td>123</td>
<td>363</td>
<td>3</td>
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#### Fiscal Year 2017

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<tbody>
<tr>
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#### Fiscal Year 2018

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<th>R</th>
<th>O</th>
<th>#</th>
<th>FY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 32

**P-1 Line Item Number / Title:**
B22603 / Radio Terminal Set, MIDS LVT(2)

**Item Number / Title [DODIC]:**
B22603 / Radio Terminal Set, MIDS LVT(2)

**Date:** February 2015

---

<table>
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<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
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<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
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<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
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<th>Mfg PLT</th>
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<td>-</td>
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<td>86</td>
<td>86</td>
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</table>

*A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**
(I) DLS
(II) ViaSat
(III) BU2
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics

Program Elements for Code B Items:

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<tr>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

(These Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Description:

The AMC Critical Items Program oversees the process by which Class II and VII end items that are out of production and, consequently, now under AMC management, are re-procured to fill shortages. The program supports major end-item (weapon system) inventory management through item managers. The program requirements represent actual and projected equipment deficiencies and do not include obsolete items or items replaced by modernized successors managed by G8.

The Army Materiel Command (AMC) identifies Table of Organizational Equipment (TOE) items with identifiable line item numbers (LINs) that have valid unit requirements and support Army force generation requirements. These LINs are in the sustainment phase of their life cycle and are no longer being acquired by the Army. In some cases there is a production base because of commercial, Foreign Military Sales (FMS) or other service demands. The Army prioritizes these items and determines that the systems requested herein are key to supporting current operations.

LIN H01907: The AN/ASM-146 Repair Shelter is an air transportable, mobile field maintenance facility that provides repair capability at the BCT level for all Communications-Electronics (C-E) systems and equipment and is critical to maintaining C-E readiness in the battlefield.

LIN P40750: Power Supply PP-6224, LIN P40750 is a power supply that furnishes 0-25 amperes over a voltage range of 24 to 32 Vdc from nominal 115/230 VAC at 50, 60 or 400 Hz single phase. The power supply can also operate from a 24 Vdc storage battery in the battery standby mode. It is the Army standard tactical 24V DC power source for C-E equipment in Tactical Operations Centers (TOCs) as well as equipment dismounted from vehicles.

Secondary Distribution

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>Army</td>
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<td>-</td>
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</tr>
<tr>
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<td>6.284</td>
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</tbody>
</table>
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics  
Equipment / BSA 32: Comm - Combat Communications

**P-1 Line Item Number / Title:**
B19920 / AMC Critical Items - OPA2

<table>
<thead>
<tr>
<th>ID Code</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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</thead>
<tbody>
<tr>
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<td>12.446</td>
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<tr>
<td>Quantity</td>
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<td>Total:</td>
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<td>Secondary Distribution</td>
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<tr>
<td>Total Obligation Authority</td>
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Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications

P-1 Line Number / Title: B19920 / AMC Critical Items - OPA2

Justification:
FY 2016 Base procurement dollars in the amount of $26.020 Million supports the following efforts.

Electronic Shop Shelter H01907: FY 2016 Base procurement funding in the amount of $8.391 million will support the program management through acquisition of 50 ea each AN/ASM-146 LIN H01907 systems to include program management and organic support. Funding supports a balanced investment strategy for the Army's approved force structure and Army Force Generation (ARFORGEN) requirements. This critical system has substantial shortages, which have resulted in 20% of BCTs deploying without full authorizations. Shortages of these systems will degrade the readiness of Command, Control, Communications, Computers and Sensors Systems, thereby placing warfighter lives in jeopardy. ERC-A systems are primary weapon systems which are essential in accomplishing the operation mission.

Power Supply P40750: FY 2016 Base procurement funding in the amount of $17.629 million is required for the acquisition of 4,962 each Power Supply, PP-6224 LIN P40750. Funding supports both acquisition and program management to include engineering support for new production contract effort. A substantial shortage of this item is degrading readiness of systems requiring 24V DC power. Due to Modified Table of Equipment (MTOE) shortages of 58%, this equipment is ranked as #2 on DA's Readiness list. The inability to provide sufficient quantities of this item will degrade DOD readiness by hindering battlefield communications.

IAW Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), these items are necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

### Exhibits Schedule

<table>
<thead>
<tr>
<th>ID Code</th>
<th>Program Elements for Code B Items</th>
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<tr>
<td></td>
<td><strong>Title</strong></td>
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<tr>
<td></td>
<td><strong>Exhibits</strong></td>
<td><strong>ID CD</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Quantity / Total Cost (Each) / ($ M)</strong></td>
<td><strong>FY 2014</strong></td>
</tr>
</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
### Resource Summary

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<th>FY 2015</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

#### Flyaway Cost

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<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($M)</th>
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<td>655.255</td>
<td>153</td>
<td>100.254</td>
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<tr>
<td>Power Supply (PP-6224/U) (P40750)</td>
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<td>7.525</td>
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Subtotal: Flyaway Cost: 100.254

Subtotal: Recurring Cost: 100.254

### Gross/Weapon System Cost

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td>ANG</td>
<td>Quantity</td>
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Total: Quantity: -
Exhibit P-5, Cost Analysis: PB 2016 Army

| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32 | P-1 Line Item Number / Title: B19920 / AMC Critical Items - OPA2 | Item Number / Title [DODIC]: B19920 / AMC Critical Items - OPA2 |

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<th>ID Code</th>
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<tr>
<td>A=Service Ready, B=Not Service Ready</td>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
</table>

(†) indicates the presence of a P-5a
**Cost Elements** | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty | Unit Cost | Specs Avail Now? | Date Revision Available | RFP Issue Date
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Elect Shop Shelter (AN-ASM 146) (H01907) | 2013 | Tobyhanna / Tobyhanna, PA | PO | TYAD | Apr 2013 | Sep 2013 | 153 | 0.166 | | | | |
Elect Shop Shelter (AN-ASM 146) (H01907) | 2015 | TBS / TBS | PO | TBS | Feb 2015 | Jun 2015 | 111 | 0.108 | | | | |
Elect Shop Shelter (AN-ASM 146) (H01907) | 2016 | TBS / TBS | PO | TBS | Jan 2016 | May 2016 | 50 | 167.820 | | | | |

(†) indicates the presence of a P-21
**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 32

**P-1 Line Item Number / Title:**
B19920 / AMC Critical Items - OPA2

**Item Number / Title [DODIC]:**
B19920 / AMC Critical Items - OPA2

<table>
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<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
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**Elect Shop Shelter (AN-ASM 146) (H01907):**

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<td>A - - - - - - 13 13 13 13 13 13 13 10 -</td>
<td>153</td>
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**Power Supply (PP-6224/U) (P40750):**

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**UNCLASSIFIED**

Date: February 2015
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32

**P-1 Line Item Number / Title:** B19920 / AMC Critical Items - OPA2

**Item Number / Title [DODIC]:** B19920 / AMC Critical Items - OPA2

<table>
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<th>Cost Elements (Units in Each)</th>
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<th>Calendar Year 2015</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
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<tbody>
<tr>
<td><strong>Elect Shop Shelter (AN-ASM 146) (H01907)</strong></td>
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<td><strong>Power Supply (PP-6224/U) (P40750)</strong></td>
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<td>50</td>
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### Elect Shop Shelter (AN-ASM 146) (H01907)

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<th>Service</th>
<th>Quantity</th>
<th>Fiscal Year 2017</th>
<th>Fiscal Year 2018</th>
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<td>2013</td>
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<tr>
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<td>2015</td>
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**Exhibit P-21, Production Schedule:** PB 2016 Army  
**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A / 02 / 32

**P-1 Line Item Number / Title:**  
B19920 / AMC Critical Items - OPA2

**Item Number / Title [DODIC]:**  
B19920 / AMC Critical Items - OPA2

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<td>MAX For 2016</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1 TBS - TBS</td>
<td>1</td>
<td>15</td>
<td>25</td>
</tr>
<tr>
<td>2 Tobyhanna - Tobyhanna, PA</td>
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<tr>
<td>3 TBS - TBS</td>
<td>10</td>
<td>500</td>
<td>750</td>
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</tbody>
</table>

*"A" in the Delivery Schedule indicates the Contract Award Date.*

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics

**Equipment / BSA 32:** Comm - Combat Communications

**UNCLASSIFIED**

**P-1 Line Item Number / Title:**
BC3000 / TRACTOR DESK

**UNCLASSIFIED**

**Date:** February 2015

**ID Code** (A=Service Ready, B=Not Service Ready):

**Program Elements for Code B Items:**

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</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - |

**Description:**
The details for this program are reported in accordance with Title 10, United States Code, Section 119(a)(1)."
**Description:**

The Spider is a hand emplaced, remotely controlled, anti-personnel munition system that was designed to replace the capability of the persistent anti-personnel landmines banned from use after December 2010 per US Landmine policy. Spider, as a Man-in-the-Loop system, offers numerous capabilities for asymmetric warfare focusing on small unit force protection. The system is made up of 4 subsystems: Man-in-the-Loop (the human operator), Remote Control Station (the system command and control station), Repeater (a communication link to the munitions that provides extended range), and Munition Control Units (delivers anti-personnel effects). The Spider is designed to mitigate the indiscriminate initiation of the lethal mechanism. A Soldier makes a conscious decision to engage a target with the lethal mechanism. Spider's sensor capabilities and controlled munitions provide needed force protection and battlefield shaping. Spider also supports net-centric operations by feeding situational awareness information (location and status) into the Battle Command System. The Spider system with its many desirable features makes it a versatile weapon system that has significant utility across the full spectrum of military operations and will support current and future operations. This item is Code A, approved for service use. Type Classification Standard and Full Material Release were achieved in July and September 2013 respectively. The Spider AAO is 736 systems.

### Resource Summary

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>140.596</td>
<td>-</td>
<td>0.969</td>
<td>1.403</td>
<td>-</td>
<td>1.403</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>142.968</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>140.596</td>
<td>-</td>
<td>0.969</td>
<td>1.403</td>
<td>-</td>
<td>1.403</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
<td>142.968</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>140.596</td>
<td>-</td>
<td>0.969</td>
<td>1.403</td>
<td>-</td>
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<td>-</td>
<td>142.968</td>
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</table>

(Initial Spares ($ in Millions) - - - - - - - - - - - -
Flyway Unit Cost ($ in Thousands) - - - - - - - - - - - -
Gross/Weapon System Unit Cost ($ in Thousands) - - - - - - - - - - - -

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Secondary Distribution

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<tbody>
<tr>
<td>Army</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Total:</td>
<td>-</td>
<td>-</td>
<td>0.969</td>
<td>1.403</td>
<td>-</td>
<td>1.403</td>
<td>-</td>
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<tr>
<td>Quantity</td>
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<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority</td>
<td>-</td>
<td>0.969</td>
<td>1.403</td>
<td>-</td>
<td>1.403</td>
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</tr>
</tbody>
</table>

(S25501 - SPIDER APLA Remote Control Unit Army)

LI 2015-5001 - SPIDER APLA Remote Control Unit

UNCLASSIFIED

Page 1 of 4
P-1 Line #34
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications

P-1 Line Item Number / Title: B55501 / SPIDER APLA Remote Control Unit

ID Code (A=Service Ready, B=Not Service Ready): A

Program Elements for Code B Items:

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<th>Quantity / Total Cost (Each) / ($ M)</th>
<th>Quantity / Total Cost (Each) / ($ M)</th>
<th>Quantity / Total Cost (Each) / ($ M)</th>
<th>Quantity / Total Cost (Each) / ($ M)</th>
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</thead>
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<td>B55501 / SPIDER APLA Remote Control Unit</td>
<td>P-5</td>
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<td>Total Gross/Weapon System Cost</td>
<td>- / 140.596</td>
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<td>- / 0.969</td>
<td>- / 1.403</td>
<td>- / -</td>
<td>- / 1.403</td>
</tr>
</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY 2016 Base procurement dollars in the amount of $1.403 million supports the Spider Increment 1 New Equipment Training (NET) team and provides fielding/logistical support for 25 fielding events to the Active Army and National Guard.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32

P-1 Line Item Number / Title: B55501 / SPIDER APLA Remote Control Unit

Item Number / Title [DODIC]: B55501 / SPIDER APLA Remote Control Unit

ID Code (A=Service Ready, B=Not Service Ready): A

MDAP/MAIS Code:

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>-</td>
<td>0.969</td>
<td>1.403</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>-</td>
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<td>1.403</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

<table>
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<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
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<th>FY 2016 OCO</th>
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Exhibit P-5, Cost Analysis: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32

P-1 Line Item Number / Title: B55501 / SPIDER APLA Remote Control Unit

ID Code (A=Service Ready, B=Not Service Ready) : A

MDAP/MAIS Code: 

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

<table>
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<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unit Cost</td>
<td>Qty</td>
<td>Total Cost</td>
<td>Unit Cost</td>
<td>Qty</td>
<td>Total Cost</td>
</tr>
<tr>
<td>Gross/Weapon System</td>
<td>($ K)</td>
<td>(Each)</td>
<td>($ M)</td>
<td>($ K)</td>
<td>(Each)</td>
<td>($ M)</td>
</tr>
<tr>
<td>Cost</td>
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<td>140.596</td>
<td>-</td>
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Secondary Distribution

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>-</td>
<td>-</td>
<td>0.969</td>
<td>1.403</td>
</tr>
</tbody>
</table>

Total Secondary Distribution

<table>
<thead>
<tr>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority</td>
<td>-</td>
<td>0.969</td>
<td>1.403</td>
<td>1.403</td>
</tr>
</tbody>
</table>
**Description:**

XM7 Spider is a hand emplaced, remotely controlled, Man-In-The-Loop (MITL) anti-personnel munition system that is currently being fielded. Spider Increment 1A utilizes an evolutionary acquisition approach which builds upon the baseline Spider Increment 1 system. Spider Increment 1A will 1) replace the Spider Increment 1 Remote Control Unit (RCU) with a new Networked Munitions Control Station that includes mapping capability, seamless interoperability to the Mission Command System (MCS) or Joint Battle Command Platform (JBC-P) and new technologies, 2) control current Spider AP munitions and 3) demonstrate the initiation of legacy GOTS AV (lethal) and AP (lethal and non-lethal) effects. All other XM7 Spider Increment 1 components (i.e. Control Station Transceiver (CST), Munition Control Units (MCUs)) will remain as is to ensure backwards compatibility. The Spider system with its many desirable features makes it a versatile weapon system that has significant utility across the full spectrum of military operations and will support current and future operations. The Spider Increment 1A Army Procurement Objective is 321 systems and the overall Spider program has an Approved Acquisition Objective (AAO) of 736 systems.
**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics

**Equipment / BSA 32: Comm - Combat Communications**

**P-1 Line Item Number / Title:**
B54020 / Spider Family of Networked Munitions Incr

**ID Code (A=Service Ready, B=Not Service Ready): A**

<table>
<thead>
<tr>
<th>ID Code</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements: 0604808A</th>
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<tr>
<td>B54020  / Spider Family of Networked Munitions Incr</td>
<td>P-5, P-5a, P-21</td>
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**Exhibits Schedule**

<table>
<thead>
<tr>
<th>Title*</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**
FY 2016 Base procurement dollars in the amount of $9.199 million supports the procurement of 89 Spider Increment 1A systems.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>MDAP/MAIS Code:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>9.199</td>
<td>-</td>
<td>9.199</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>9.199</td>
<td>-</td>
<td>9.199</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>-</td>
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<td>-</td>
<td>9.199</td>
<td>-</td>
<td>9.199</td>
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(To the following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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<thead>
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<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Unit Cost ($ K)</td>
<td>Qty (Each)</td>
<td>Total Cost ($ M)</td>
<td>Unit Cost ($ K)</td>
<td>Qty (Each)</td>
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<tr>
<td>Flyway Cost</td>
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<td>-</td>
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<td>89</td>
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<td>2.619</td>
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<tr>
<td>Recurring Cost</td>
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<tr>
<td>Spider System(T)</td>
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<td>103.360</td>
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<td>Facilitation</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

## Secondary Distribution

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<tr>
<td>Quantity</td>
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<tr>
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Total: Secondary Distribution

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<th>FY 2016 OCO</th>
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<tbody>
<tr>
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<tr>
<td>Total Obligation Authority</td>
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<td><strong>Exhibit P-5, Cost Analysis</strong>: PB 2016 Army</td>
<td><strong>Date</strong>: February 2015</td>
<td></td>
<td></td>
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<tr>
<td>---------------------------------------------</td>
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</tr>
<tr>
<td><strong>Appropriation / Budget Activity / Budget Sub Activity</strong>: 2035A / 02 / 32</td>
<td><strong>P-1 Line Item Number / Title</strong>: B54020 / Spider Family of Networked Munitions Incr</td>
<td></td>
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<tr>
<td><strong>Item Number / Title [DODIC]</strong>: B54020 / Spider Family of Networked Munitions Incr</td>
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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Address:**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 32

**P-1 Line Item Number / Title:**
B54020 / Spider Family of Networked Munitions Incr

**Item Number / Title [DODIC]:**
B54020 / Spider Family of Networked Munitions Incr

**Date:**
February 2015

<table>
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<tr>
<th>Cost Elements</th>
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<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>Spider System(*)</td>
<td>2016</td>
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<td>Northrop Grumman / Redando Beach</td>
<td>C / FFP</td>
<td>Picatinny Arsenal, NJ</td>
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<td>Mar 2017</td>
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<td>47.040</td>
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(*) indicates the presence of a P-21

**Remarks:**
FY16 LRIP will be let on EMD contract option with Northrop Grumman.
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 32

**P-1 Line Item Number / Title:**
B54020 / Spider Family of Networked Munitions Incr

**Item Number / Title [DODIC]:**
B54020 / Spider Family of Networked Munitions Incr

---

### Fiscal Year 2016

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<th>Cost Elements (Units in Each)</th>
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<th>Calendar Year 2017</th>
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**Spider System**

<table>
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<tr>
<th>MFR#</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC</th>
<th>QTY</th>
<th>ACCEPT PRIOR TO 1 OCT</th>
<th>BAL DUE AS OF 1 OCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>ARMY</td>
<td>89</td>
<td>-</td>
<td>-</td>
<td>89</td>
</tr>
</tbody>
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<p>| | | | | |
|                  |                  |                    |                  |                    |</p>
<table>
<thead>
<tr>
<th>O C R #</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC</th>
<th>QTY</th>
<th>ACCEPT PRIOR TO 1 OCT</th>
<th>BAL DUE AS OF 1 OCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2016</td>
<td>ARMY</td>
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<td>89</td>
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</table>

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|                  |                  |                    |                  |                    |</p>
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<thead>
<tr>
<th>O C R #</th>
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<th>SERVICE</th>
<th>PROC</th>
<th>QTY</th>
<th>ACCEPT PRIOR TO 1 OCT</th>
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</thead>
<tbody>
<tr>
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<td>ARMY</td>
<td>89</td>
<td>-</td>
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<td>89</td>
</tr>
</tbody>
</table>

**UNCLASSIFIED**

LI B54020 - Spider Family of Networked Munitions Incr...

**UNCLASSIFIED**

**Page 6 of 7**

P-1 Line #35
**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 32

**P-1 Line Item Number / Title:**
B54020 / Spider Family of Networked Munitions Incr

**Item Number / Title [DODIC]:**
B54020 / Spider Family of Networked Munitions Incr

**Date:** February 2015

---

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
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<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
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<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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</thead>
<tbody>
<tr>
<td>1</td>
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<td>5</td>
<td>100</td>
<td>500</td>
<td>9</td>
<td>9</td>
<td>18</td>
<td>27</td>
<td>6</td>
<td>6</td>
<td>15</td>
<td>21</td>
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</tbody>
</table>

*A* in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics  
Equipment / BSA 32: Comm - Combat Communications

**P-1 Line Item Number / Title:**  
BA5300 / Soldier Enhancement Program Comm/Electronics

**Date:** February 2015

### Resource Summary

<table>
<thead>
<tr>
<th></th>
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<th>FY 2015 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
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</tr>
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<tbody>
<tr>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>0.294</td>
<td>0.349</td>
<td>0.349</td>
<td>0.382</td>
<td>0.485</td>
<td>0.489</td>
<td>0.507</td>
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</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>96.341</td>
<td>0.294</td>
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<td>0.382</td>
<td>0.485</td>
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<td>0.507</td>
<td>Continuing</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>96.341</td>
<td>0.294</td>
<td>0.349</td>
<td>0.349</td>
<td>0.382</td>
<td>0.485</td>
<td>0.489</td>
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<td>Continuing</td>
<td>Continuing</td>
<td></td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

| Quantity | - | - | - | - | - | - | - | - | - | - |

### Flyaway Unit Cost ($ in Thousands)

| Quantity | - | - | - | - | - | - | - | - | - | - |

### Gross/Weapon System Unit Cost ($ in Thousands)

| Quantity | - | - | - | - | - | - | - | - | - | - |

### Description:

The Soldier Enhancement Program (SEP) was established by the National Defense Authorization Act for Fiscal Year 1990 and 1991. The purpose of the SEP is to evaluate available Commercial Off the Shelf (COTS), Government Off the Shelf (GOTS) and Non-Developmental Items (NDI) equipment to increase combat effectiveness of the Soldier. OPA2 provides a means of procuring selected types of equipment (electronics and communications) designed to increase Soldiers' mission command, situational awareness and operational effectiveness.

### Justification:

FY 2016 base funding in the amount of $0.349 million supports procurement (COTS/GOTS/NDI) of approved hardware for Soldier evaluation. Items in this category include generally Soldier worn or carried Communications/Electronics solutions.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."
### **Description:**

The Tactical Communications and Protective System (TCAPS) provides Soldiers with advanced, active hearing protection that simultaneously protects Soldiers' hearing while enabling situational awareness and mission command. TCAPS protects Soldiers against harmful impulse and steady-state noises characteristic of combat environments while enabling Soldiers to communicate with each other using voice communications or over a tactical radio. TCAPS also enhances survivability and situational awareness by allowing Soldiers to selectively amplify faint sounds that would not otherwise be audible.

By reducing noise-induced hearing damage, TCAPS contributes to the reduction of post-service disability compensation and limits lost in-service time related to hearing injury. TCAPS will employ commercial-off-the-shelf (COTS) solution(s) that are inserted into production on a periodic basis following user evaluations.

The Approved Acquisition Objective (AAO) for the TCAPS is 106,184.

### **Secondary Distribution**

<table>
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<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Army</td>
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<td>22,654</td>
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<td>25,597</td>
<td>22,579</td>
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</table>
Justification:
FY 2016 base procurement dollars in the amount of $25.597 million procures commercial off the shelf Tactical Communications and Protective Systems.

The General Accounting Office (GAO) Report 11-114 states that the Veterans Administration purchased 382,000 hearing assistive devices at an estimated expenditure of $154 million in FY2008 and provided annual disability payments in excess of $1.1 billion in FY2009. Hearing injuries will be avoided only if Soldiers wear hearing protection. Historically Soldiers have had to choose between hearing protection and auditory situational awareness. TCAPS prevents hearing injury while enabling command, control and situational awareness.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32

P-1 Line Item Number / Title: B55510 / Tactical Communications And Protective System

Item Number / Title [DODIC]: B55510 / Tactical Communications And Protective System

Date: February 2015

<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>12.967</td>
<td>31.868</td>
<td>22.654</td>
<td>25.597</td>
<td>-</td>
<td>25.597</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>12.967</td>
<td>31.868</td>
<td>22.654</td>
<td>25.597</td>
<td>-</td>
<td>25.597</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>TCAPS Hardware (COMPO) 1(†)</td>
<td>2.165</td>
<td>5,590</td>
<td>12.967</td>
<td>2.129</td>
<td>10,972</td>
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<tr>
<td>Sys/Eng Prgm Mgmt (COMPO) 1</td>
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<td>System Fielding &amp; Support (COMPO) 1</td>
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<td>12.968</td>
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(†) indicates the presence of a P-5a
Exhibit P-5a, Procurement History and Planning: PB 2016 Army  

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32  

**P-1 Line Item Number / Title:** B55510 / Tactical Communications And Protective System  

**Item Number / Title [DODIC]:** B55510 / Tactical Communications And Protective System  

**Cost Elements**

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>OCO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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</thead>
<tbody>
<tr>
<td>TCAPS Hardware (COMPO) 1</td>
<td>2014</td>
<td>DLA Troop Support / PA</td>
<td>MIPR</td>
<td>Philadelphia</td>
<td>Mar 2014</td>
<td>May 2014</td>
<td>10,972</td>
<td>2.129</td>
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<tr>
<td>TCAPS Hardware (COMPO) 1</td>
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<td>TCAPS Hardware (COMPO) 1</td>
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<td>DLA Troop Support / PA</td>
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<td>May 2016</td>
<td>8,987</td>
<td>2.060</td>
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</table>

**Remarks:**
P21 is not required. This program procures commercial off the shelf Tactical Communications and Protective Systems.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics

UNCLASSIFIED

P-1 Line Item Number / Title: B58601 / Unified Command Suite

UNCLASSIFIED

Equipment / BSA 32: Comm - Combat Communications

Description:
The Unified Command Suite (UCS) is a fully integrated mobile communications platform that is self-sufficient and highly interoperable by integrating commercial off the shelf (COTS) and government off the shelf (GOTS) military communications hardware. UCS provides communications interoperability with Federal, State, Local and Military Emergency Response elements at incident scenes. UCS provides reachback capability which allows Incident Commanders the ability to assess an incident scene, advise responders, and facilitate access to Department of Defense information. UCS provides critical Key Performance Parameter directed reachback communications for Analytical Laboratory Systems (ALS) and other Civil Support Team (CST) systems.

The Approved Acquisition Objective (AAO) for the UCS is 64.

<table>
<thead>
<tr>
<th></th>
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<tr>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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<thead>
<tr>
<th>Description:</th>
<th>Value</th>
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<td>FY 2016 Base</td>
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<td>FY 2020</td>
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</table>

LI B58601 - Unified Command Suite

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### Justification:

FY 2016 Base funding in the amount of $21.854 million will modernize, upgrade, and procure components for the Unified Command Suites for Civil Support Teams. Funding supports the UCS platform shelter and integration for 32 UCS systems, Video Teleconference (VTC) upgrade for 32 UCS systems, Satellite Communication (SATCOM) terminal upgrades for 32 UCS systems, and cryptological device modernization of 32 UCS systems.

<table>
<thead>
<tr>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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<tbody>
<tr>
<td>ID Code (A=Service Ready, B=Not Service Ready):</td>
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<tr>
<td>P-1 Line Item Number / Title: B58601 / Unified Command Suite</td>
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<tr>
<td>Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics</td>
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<td>Exhibit P-40, Budget Line Item Justification: PB 2016 Army</td>
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<td>Date: February 2015</td>
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<table>
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<tr>
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<tbody>
<tr>
<td>B58601 / Unified Command Suite</td>
<td>P-5, P-5a, P-21</td>
<td></td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>8.000</td>
<td>17.445</td>
<td>-</td>
<td>21.854</td>
<td>-</td>
<td>21.854</td>
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</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32
P-1 Line Item Number / Title: B58601 / Unified Command Suite
Item Number / Title [DODIC]: B58601 / Unified Command Suite

Date: February 2015

Resource Summary

<table>
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<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>-</td>
<td>8.000</td>
<td>17.445</td>
<td>21.854</td>
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(Revised 2017 Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

<table>
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<th>Cost Elements</th>
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<th>Qty (Each)</th>
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<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
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<td>Fielding</td>
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<td>6.437</td>
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<td>0.152</td>
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<td>Hardware(1)</td>
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<td>-</td>
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<td>507.500</td>
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<td>21.854</td>
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<tr>
<td>Subtotal: Flyaway Cost</td>
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<td>8.000</td>
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<td>21.854</td>
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Secondary Distribution

<table>
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<tr>
<th>Army</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<td>1,580</td>
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<table>
<thead>
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<th>ANG</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
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<td>Quantity</td>
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<td>17,445</td>
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Total:

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<tbody>
<tr>
<td>Quantity</td>
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<td>-</td>
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<tr>
<td>Total Obligation Authority</td>
<td>8,000</td>
<td>17,445</td>
<td>21,854</td>
<td>-</td>
<td>21,854</td>
</tr>
</tbody>
</table>

(1) Indicates the presence of a P-5a
### Cost Elements

| Hardware (†) | 2015 | TBD / TBD | C / FFP | TBD | Mar 2015 – Apr 2015 | 22 | 507.550 |
| Hardware (†) | 2016 | TBD / TBD | C / FFP | TBD | Mar 2016 – Apr 2016 | 32 | 469.220 |

*(†) indicates the presence of a P-21

**Remarks:**
Fielding schedule reflects modernization of existing systems. No new system fieldings are taking place, as UCS is currently undergoing various blocks of modernization to remain ahead of the obsolescence curve.
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 32

**P-1 Line Item Number / Title:**
B58601 / Unified Command Suite

**Item Number / Title [DODIC]:**
B58601 / Unified Command Suite

**Date:**
February 2015

#### Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements (Units in Each)</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
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<tr>
<td>Hardware</td>
<td></td>
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</table>

| Month | FY | PROCUREMENT | ACCEPT PRIOR TO 1 OCT 2014 | BAL DUE AS OF 1 OCT 2014 | ON | DJ | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | B |
| 1     | 2015 ARMY | 22 | - | 22 | A | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | A | - | 3 | 3 | 3 | 3 | 3 | 3 | 14 | |

**UNCLASSIFIED**

LI B58601 - Unified Command Suite

Army

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P-1 Line #38

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<table>
<thead>
<tr>
<th>Cost Elements (Units in Each)</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
<th>Fiscal Year 2018</th>
<th>Calendar Year 2018</th>
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<tbody>
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<td>O</td>
<td>M</td>
<td>C</td>
<td>F</td>
<td>O</td>
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<tr>
<td>T</td>
<td>V</td>
<td>C</td>
<td>N</td>
<td>B</td>
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Hardware

| 1 | 2015 | ARMY | 22 | 22 | - | 3 | 3 | 3 | 3 | 2 | - |
| 1 | 2016 | ARMY | 32 | 18 | 14 | 3 | 3 | 3 | 3 | 2 | - |
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 32

**P-1 Line Item Number / Title:**
B58601 / Unified Command Suite

**Item Number / Title [DODIC]:**
B58601 / Unified Command Suite

**Date:** February 2015

<table>
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<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
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<th>MAX For 2016</th>
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<tr>
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<table>
<thead>
<tr>
<th></th>
<th><strong>Production Rates (Each / Month)</strong></th>
<th><strong>Initial</strong></th>
<th><strong>Total</strong></th>
<th><strong>Mfg PLT</strong></th>
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<td></td>
<td>ALT Prior to Oct 1</td>
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<td>Mfg PLT</td>
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<td><strong>Ref</strong></td>
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*A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
### Description:

The COTS Family of radios provides state-of-the-art communications for tactical use. Through numerous non-developmental and commercial offerings, the COTS family is able to provide various capabilities currently required by the Soldier.

These capabilities include:

- Transmit and receive voice and data via line-of-sight (LOS), non-LOS or satellite communications (SATCOM) operations
- Supports legacy/current force waveforms and emerging networking waveforms
- Software upgradeable
- Encryption to protect Sensitive Unclassified and Classified voice and data
- Supports Large/Medium/Small Forward Operating Bases
- Vehicular, Manpack, Hand Held, and Base Station configurations

Funding also supports COTS procurement of cosite mitigation, Electronic Warfare filters and multi-band antennas.

---

### Resource Summary

<table>
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<tr>
<th></th>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>1.028</td>
<td>-</td>
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<td>1,623,909</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>-</td>
<td>1.028</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

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### Flyaway Unit Cost ($ in Thousands)

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### Cross-Servicing Cost ($ in Millions)

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### Cross-Servicing Quantity

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<td>ID Code (A=Service Ready, B=Not Service Ready)</td>
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<td>Other Related Program Elements:</td>
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<tr>
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<td>Secondary Distribution</td>
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## Justification:

This program has no FY 2016 procurement request, as program transitions to sustainment.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-118), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
## Exhibit P-40a, Budget Item Justification For Aggregated Items

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32

**P-1 Line Item Number / Title:** BU8100 / Radio, Improved HF (COTS) Family

**Aggregated Items Title:** Various

**Date:** February 2015

---

### Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add up, due to rounding.

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<thead>
<tr>
<th>Item Number / Title [DODIC]</th>
<th>MDAP/ MAIS Code</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
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<td>1.028</td>
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<tr>
<td><strong>Secondary Distribution</strong></td>
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<td>1.028</td>
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LI BU8100 - Radio, Improved HF (COTS) Family

UNCLASSIFIED

Page 4 of 4  P-1 Line #39
## Description:
The Medical Communications for Combat Casualty Care (MC4) system provides multipliers to the medical force structure through the acquisition of information technology solutions for the deployable medical forces. The MC4 system fulfills the requirements highlighted in United States Code: Title 10, Subtitle A, Part II, Chapter 55, Section 1074f, mandating the proper documentation of deployed service members’ medical treatment to include pre- and post-deployment screening and its associated medical surveillance, enabling each soldier to have a comprehensive, life-long medical record of all illnesses and injuries. The MC4 system also interfaces Force Health Protection and medical surveillance information with Army Mission Command information technology systems. The collection and analysis of medical data provided by the MC4 system provides and enhances medical situational awareness for mission commanders. The MC4 program is currently in full fielding of integrated Information Management/Information Technology (IM/IT) equipment. The Army Acquisition Objective (AAO) is 46,589 end components of the MC4 system.

### Resource Summary

<table>
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<tr>
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</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

| Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - | - |

### Flyaway Unit Cost ($ in Thousands)

| Flyway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - | - |

### Gross/Weapon System Unit Cost ($ in Thousands)


### Description:
The Medical Communications for Combat Casualty Care (MC4) system provides multipliers to the medical force structure through the acquisition of information technology solutions for the deployable medical forces. The MC4 system fulfills the requirements highlighted in United States Code: Title 10, Subtitle A, Part II, Chapter 55, Section 1074f, mandating the proper documentation of deployed service members’ medical treatment to include pre- and post-deployment screening and its associated medical surveillance, enabling each soldier to have a comprehensive, life-long medical record of all illnesses and injuries. The MC4 system also interfaces Force Health Protection and medical surveillance information with Army Mission Command information technology systems. The collection and analysis of medical data provided by the MC4 system provides and enhances medical situational awareness for mission commanders. The MC4 program is currently in full fielding of integrated Information Management/Information Technology (IM/IT) equipment. The Army Acquisition Objective (AAO) is 46,589 end components of the MC4 system.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

P-1 Line Item Number / Title: MA8000 / Family of Med Comm for Combat Casualty Care

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications

Exhibit P-40, Budget Line Item Justification:
PB 2016 Army

MA8000 / Family of Med Comm for Combat Casualty Care

ID Code (A=Service Ready, B=Not Service Ready): P-5, P-5a

Program Elements for Code B Items:

Other Related Program Elements:

Exhibits Schedule

<table>
<thead>
<tr>
<th>Title*</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
</table>

Total Gross/Weapon System Cost


*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY 2016 Base procurement dollars in the amount of $24.388 million supports production engineering, fielding and new equipment training for new systems. In addition, overall program office management efforts are funded in this appropriation. Base funding in FY16 is required to continue fielding remaining gaps of MC4 capability to the Army medical force structure and to upgrade obsolete equipment to comply with direction of the US Army Common Operating Environment. FY16 funding will procure 2,089 end components of the MC4 system for upgraded and new equipment fielding and provide NET (new equipment training) for 3 Active units (1 military police, 1 sustainment brigade, 1 medical detachment); 128 National Guard units (3 Infantry Division headquarters, 2 sustainment brigades, 1 chemical unit, 11 infantry regiment/battalion, 23 medical units, 11 military police, 11 field artillery, 7 brigade combat team headquarters, 16 engineering units, 4 cavalry units, 18 support battalion, 2 maneuver battalion, 14 aviation units, 1 armored, 1 fires brigade, 1 battlefield surveillance brigade); and 7 Army Reserve units (4 sustainment commands, 1 aviation battalion, 25 medical units, 5 military police units, 3 combat support hospitals, 9 civil affairs units, 3 chemical units and 8 engineering units). The system is fielded and trained to units as they prepare for deployment or other priority missions. In addition, all units with MC4 equipment authorizations are being evaluated for authorized shortages and provided equipment towards reaching the AAO. The medical encounters captured by the MC4 system will provide the Soldiers’ electronic health record as well as data to databases and systems that enable commanders to: identify population health trends and outbreaks; reallocate human and materiel resources based on needs; determine if locations are the source of illnesses or injuries; and make better tactical and medical decisions that impact the mission and Soldiers’ health.

In accordance with Section 1815 of the FY08 National Defense Authorization Act (NDAA) (P.L. 110-181) this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing the military support to civil authorities.
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**Resource Summary**

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<th>FY 2016 Base</th>
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<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

**Initial Spares ($ in Millions)**

<table>
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<th>FY 2016 Base</th>
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**Gross/Weapon System Unit Cost ($ in Thousands)**

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**Secondary Distribution**

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*Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.*
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(*) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 32

**P-1 Line Item Number / Title:**
MA8000 / Family of Med Comm for Combat Casualty Care

**Item Number / Title [DODIC]:**
MA8046 / Medical Comm For CBT Casualty Care (MC4)

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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
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<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<td>C / FP</td>
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**Remarks:**
1. Contracted PMO Fielding Management Support/New Equipment Training is provided under GSA/General Dynamics-Information Technology Division contract, awarded 01 Mar 2010, with option years through 28 Feb 2015. A new contract competition is planned to continue effort beyond that time.
2. Product Engineering support is provided under Army Contracting Command-Rock Island (ACC-RI)/L3 contract, awarded 01 Aug 2013, with option years through 31 Jan 2016. A new contract competition is planned to continue effort beyond that time.
4. Equipment (TBS-To Be Selected) is COTS and is procured with various of the 7 MC4 Line Item Numbers (LINs) depending on specific configurations of operational units to be fielded. Equipment vendors are selected by Army Contracting Command, Rock Island (ACC-RI), for best value based on MC4 engineering specifications.
5. Program Management Support is provided through Program Management Support Services 2 (PMSS2) contract, Booz Allen Hamilton task order awarded 1 Apr 2011 with options extending through Jun 2015. A new contract competition is planned to continue the effort beyond that time.
6. PMO Fielding Management is not shown here as it is not contracted but consists of Government Civilians, and facility/utility fees and expenses paid to base operations.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics / BSA 36: Comm - Intelligence Comm

P-1 Line Item Number / Title:
BK5284 / CI Automation Architecture

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

Description:
This program provides the Army, as a member of the Department of Defense (DoD) counterintelligence (CI) community, with advanced CI operational equipment. This equipment enhances Army’s ability to counter the global threat through significant improvements in information sharing, common situational awareness, and knowledge management in a joint operational environment.

Justification:
FY 2016 Base funding in the amount of $1.349 million procures the DoD Intelligence Information System (DODIIS)-compliant CI and Human Intelligence (HUMINT) materiel solutions to support implementation of Defense Counterintelligence Integrated Information System (DCIIS) at Army Intelligence sites at the MACOM level. Funding further provides specialized equipment necessary to support worldwide CI operations and investigative missions.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics

Equipment / BSA 36: Comm - Intelligence Comm

UNCLASSIFIED

Date: February 2015

P-1 Line Item Number / Title:
BK6285 / Army CA/MISO GPF Equipment

Program Elements for Code B Items:

ID Code (A=Service Ready, B=Not Service Ready):

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |

Description:
This program is vital in conventional operations and irregular warfare. Beginning in FY16, the portfolio for Civil Affairs (CA) and Military Information Support Operations (MISO) will consist of 11 systems. These systems are critical to the Warfighter's capabilities in all overseas contingency operations, theater security cooperation, and stability, transition and reconstruction operations. These systems are deployed in support of the combatant commanders engaging with foreign audiences, joint interagency and multi-national operations before, during, and after military operations. The program enables CA/MISO units to keep pace with the increasing Modified Table of Organization and Equipment (MOTEs), rapid deployment rotational cycles, and the requirements of the Warfighter in various theaters of operations. The Army Acquisition Objectives for these 11 systems are 8 Fly Away Broadcast System-v2 (FABS-v2), 192 Media Production Center-Light (MPC-L), 8 Media Production Center-Medium (MPC-M), 33 MISO Print-Light (MISOP-L), 2 MISO Print-Medium (MISOP-M), 651 Next Generation Loud Speakers-Dismounted (NGLS-D), 641 Next Generation Loud Speaker-Mounted (NGLS-M), 709 Production Distribution System-Light (PDS-L), 56 Radio Integration System Lite (RIS-L), 890 SOF Deployment Node-Light (SDN-L), and 59 Tactical Local Area Network (TACLAN).

Secondary Distribution

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Page 1 of 8

LI BK6285 - Army CA/MISO GPF Equipment

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics

Equipment / BSA 36: Comm - Intelligence Comm

P-1 Line Item Number / Title: BK6285 / Army CA/MISO GPF Equipment

ID Code: BK6285 / Army CA/MISO GPF Equipment

Program Elements for Code B Items:

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<th>Title</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Prior Years</th>
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<th>FY 2016 Base</th>
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<th>FY 2016 Total</th>
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<td>/ 15.152</td>
<td>/ 58.468</td>
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<td>/ 3.695</td>
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Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY 2016 Base procurement dollars in the amount of $3.695 million supports the procurement of 13 Production Distribution System-Light (PDS-L).

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing the military support to civil authorities.
### Resource Summary

<table>
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<tr>
<th>Resource Summary</th>
<th>FY 2014</th>
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<th>FY 2016 Base</th>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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### Secondary Distribution

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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
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<td>P-1 Line Item Number / Title: BK6285 / Army CA/MISO GPF Equipment</td>
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<tr>
<td>Item Number / Title [DODIC]: BK6285 / Army CA/MISO GPF Equipment</td>
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**ID Code** *(A=Service Ready, B=Not Service Ready)*

(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 36

**P-1 Line Item Number / Title:**
BK6285 / Army CA/MISO GPF Equipment

**Item Number / Title [DODIC]:**
BK6285 / Army CA/MISO GPF Equipment

**Date:** February 2015

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<th>Method/Type or Funding Vehicle</th>
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<th>Date of First Delivery</th>
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<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
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(†) indicates the presence of a P-21
### Exhibit P-21, Production Schedule: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 36

#### P-1 Line Item Number / Title:
BK6285 / Army CA/MISO GPF Equipment

#### Item Number / Title [DODIC]:
BK6285 / Army CA/MISO GPF Equipment

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<th>Calendar Year 2015</th>
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| Product Distribution System-Light
| 1 2014 ARMY 199 - 199 | A - - 199 | | - |
| 1 2016 ARMY 13 - 13 | | | 13 |
| SOF Deployment Node-Light
| 2 2014 ARMY 441 - 441 | A - - - 441 | - | |
| MISO Print-Light
| 3 2015 ARMY 12 - 12 | A - - - - 12 | - | |

LI BK6285 - Army CA/MISO GPF Equipment

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Army

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P-1 Line #43
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<th>Cost Elements (Units in Each)</th>
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**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 36

**P-1 Line Item Number / Title:** BK6285 / Army CA/MISO GPF Equipment

**Item Number / Title [DODIC]:** BK6285 / Army CA/MISO GPF Equipment

**Date:** February 2015
**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 36

**P-1 Line Item Number / Title:** BK6285 / Army CA/MISO GPF Equipment

**Item Number / Title [DODIC]:** BK6285 / Army CA/MISO GPF Equipment

**Date:** February 2015

### Production Rates (Each / Month)

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<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
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<tr>
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<tr>
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### Procurement Leadtime (Months)

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*“A” in the Delivery Schedule indicates the Contract Award Date.*

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
Description:
The Biometrics Enabling Capability (BEC) product office has full life-cycle management responsibility of the upgraded authoritative biometrics enterprise repository system, known as DoD Automated Biometrics Identification System (DoD ABIS). DoD ABIS is an information technology investment that supports identity superiority by providing the critical capability for Warfighters to identify known or suspected terrorists and third country nationals in the course of military operations. DoD ABIS is the authoritative biometrics enterprise system that provides matching, sharing and storing of biometrics data. The capability can receive multi-model biometrics submissions to include iris, face, palm and finger prints from biometrics collection devices, which will support the Warfighter in making, retain, capture or release decisions. The system has a direct impact on the availability of critical intelligence information that is of vital interest to DoD and other government agencies, including Department of Justice (DoJ), Federal Bureau of Investigation (FBI), Department of Homeland Security (DHS), and Department of State (DoS).
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Date:** February 2015

### Appropriation / Budget Activity / Budget Sub Activity:
- 2035A: Other Procurement, Army / BA 02: Communications and Electronics
- Equipment / BSA 64: Information Security

### P-1 Line Item Number / Title:
- BA1300 / FAMILY OF BIOMETRICS

### ID Code (A=Service Ready, B=Not Service Ready):

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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

### Justification:
This program has no FY 2016 Base or Overseas Contingency Operations (OCO) procurement requirement, as the system is transitioning to sustainment.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Exhibit P-40a, Budget Item Justification For Aggregated Items:

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 64

**P-1 Line Item Number / Title:**
BA1300 / FAMILY OF BIOMETRICS

**Aggregated Items Title:**
Various

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.

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</table>

LI BA1300 - FAMILY OF BIOMETRICS

UNCLASSIFIED

Army

Page 3 of 3

P-1 Line #44
Description:
The Cryptographic Systems (CS) Program procures and fields Communications Security (COMSEC) solutions to secure the National Network Enterprise. New and emerging architectures, cease key dates, and DoD/Army policy are driving the need to replace current inventory of stove pipe systems with technologically advanced (network centric/Global Information Grid (GIG) compliant) devices that incorporate Chairman of the Joint Chiefs of Staff and Joint Requirements Oversight Council directed cryptographic standardization, advanced key management and network centric performance capabilities. This program enables DoD to equip the force with critical cryptographic solutions and services during peacetime, wartime, and contingency operations. The program consists of three product families: In-Line Network Encryptors (INE), Link/Trunk Encryptors Family (LEF), and Secure Voice. (PD Net E)

The Army-wide Cryptographic Network Standardization (ACNS) effort is to bring cryptographic equipment into compliance with the Army's upgraded data network and Internet Protocol version 6 (IPv6), as mandated by the National Security Agency (NSA) and Chief Information Officer (CIO)/G6. ACNS provides the Army fully modernized equipment and provides Units assistance with system identification, training, integration, network optimization, and property book update. ACNS is an essential project as many of the legacy devices currently in the field will no longer be compliant starting in FY 2015 due to NSA driven cease key dates, resulting in an inability to communicate at classified levels. (PD Net E)

The Defensive Cyberspace Operations (DCO) program provides initial capabilities to Cyber Protection Teams. Teams enable passive and active cyberspace defensive operations to preserve friendly cyberspace capabilities, and protect data, networks, net-centric capabilities, and other designated systems. DCO consists of four critical capabilities:

DCO-Infrastructure (DCO-I): the hardware and software baseline for remote cyber maneuver based on Defense Advanced Research Projects Agency (DARPA) Plan X
Cyber Protection Team (CPT) support: tools that reside inside DCO-I
Web Vulnerability Scanning: the software baseline to secure key cyber terrain and protect DoD websites
Big Data Analytics: analytics that leverage Defense Information System Agency (DISA) Acropolis analytics

DCO responds to unauthorized activity or alerts/threat information against the Army enterprise, and leverages intelligence, counterintelligence, law enforcement, and other military capabilities. It includes outmaneuvering adversaries taking or about to take offensive actions against defended networks, or otherwise responding to internal and external cyberspace threats. Internal defense measures include mission assurance actions to dynamically reestablish, re-secure, reroute, reconstitute, or isolate degraded or compromised local networks to ensure sufficient cyberspace access for commanders. The Army's DCO activities are a construct of active cyberspace defenses which provide synchronized, real-time capabilities to discover, detect, analyze, and mitigate threats and vulnerabilities to DoD networks and systems.
### Secondary Distribution

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security

P-1 Line Item Number / Title:
TA0600 / Information System Security Program-ISSP

ID Code (A=Service Ready, B=Not Service Ready) : A

Program Elements for Code B Items:

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Other Related Program Elements: 0303140A

Exhibit Schedule

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<tbody>
<tr>
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<td>- / 19.920</td>
<td>- / -</td>
<td>- / 19.920</td>
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</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY2016 Base procurement dollars in the amount of $19.920 million supports procurement of Defensive Cyberspace Operations equipment, engineering, integration, configuration management, testing, training, accreditation, and fielding for defensive cyberspace infrastructure and capabilities as outlined in the following: US Army Cyber Command (ARCYBER) Operational Needs Statements (ONS) 14-19545 for DCO-I dated 6 Jan 14; ONS 14-19420 for Web Scanning dated 29 Oct 13; ONS 14-19419 for Big Data Analytics dated 29 Oct 13; and ONS 14-20079 for CPT Support; as well as the draft US Army Training and Doctrine Command (TRADOC) Information Systems Capability Development Document (IS CDD) for DCO.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 64  

**P-1 Line Item Number / Title:**
TA0600 / Information System Security Program-ISSP  

**Item Number / Title [DODIC]:**
TA0600 / Information System Security Program-ISSP  

**MDAP/MAIS Code:**  

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<th>FY 2016 OCO</th>
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<tbody>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions)

Gross/Weapon System Unit Cost ($ in Thousands)

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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### BIG DATA HARDWARE(†)

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### DCO-I PROJECT MGMT

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<th>Qty (Each)</th>
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### WEB SCANNING SOFTWARE(†)

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### IN-LINE NETWORK ENCRYPTORS (INE)(†)

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<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
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### ARMY-WIDE CRYPTO NETWORK STANDARDIZATION

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<th>Qty (Each)</th>
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### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64  
**P-1 Line Item Number / Title:** TA0600 / Information System Security Program-ISSP  
**Item Number / Title [DODIC]:** TA0600 / Information System Security Program-ISSP

**ID Code (A=Service Ready, B=Not Service Ready):** A

**MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

#### Cost Analysis

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#### Secondary Distribution

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>Quantity</td>
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<td>Total Obligation Authority</td>
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<td>Total Obligation Authority</td>
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<td>19.920</td>
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<td><strong>Date:</strong> February 2015</td>
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LI TA0600 - Information System Security Program-ISSP
Army

UNCLASSIFIED

Page 6 of 7

P-1 Line #45
**Exhibit P-5a, Procurement History and Planning:** PB 2016 Army  
**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A / 02 / 64

**P-1 Line Item Number / Title:**  
TA0600 / Information System Security Program-ISSP

**Item Number / Title [DODIC]:**  
TA0600 / Information System Security Program-ISSP

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<th>Method/Type or Funding Vehicle</th>
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<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
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<td>CHESS / ACC-RI, IL</td>
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<td>IN-LINE NETWORK ENCRYPTORS (INE)</td>
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<td>NSA / FORT MEADE, MD</td>
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<td>97</td>
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**Remarks:**  
Defensive Cyberspace Operations (DCO) items procured are Commercial-Off-The-Shelf (COTS) products from the Computer Hardware Enterprise Software and Solutions (CHESS) contract. CHESS is the Army's designated primary source for commercial information technology (IT). CHESS provides a no-fee flexible procurement strategy through which an Army user may procure COTS IT hardware, software and services via an e-commerce based process. CHESS offers simple, straightforward contract vehicles through its online Army e-commerce ordering system, the IT e-mart. These contracts provide continuous vendor competition for best value and consolidation of requirements to maximize cost avoidance and leverage the Army's buying power.
Description:
The Cryptographic Systems (CS) Program procures and fields Communications Security (COMSEC) solutions to secure the National Network Enterprise. New and emerging architectures, cease key dates, and DoD/Army policy are driving the need to replace currently fielded legacy systems with technologically advanced (network centric/Global Information Grid (GIG) compliant) devices that incorporate Chairman of the Joint Chiefs of Staff and Joint Requirements Oversight Council directed cryptographic standardization, advanced key management and network centric performance capabilities. This program enables DoD to equip the force with critical cryptographic solutions and services during peacetime, wartime, and contingency operations. The program consists of four product families: In-Line Network Encryptors (INE), In-Line Media Encryptors (IME), Link/Trunk Encryption Family (LEF), and Secure Voice (SV).

Army Key Management Infrastructure (AKMI) is a Non Program of Record (POR) under PD Network Enablers (PD Net E). The AKMI is the Army's implementation of the National Security Agency's (NSA) Key Management Infrastructure (KMI) ACAT IAM program. KMI automates the functions of Communications Security (COMSEC) electronic key management, control, planning, and distribution. KMI supports the Army's ability to communicate and distribute data on the Army's tactical and strategic networks by limiting adversarial access to, and reducing the vulnerability of, Army Command, Control, Computers, Intelligence (C4I) systems. The AKMI System of Systems (SoS) components are the Local COMSEC Management Software (LCMS), Automated Communications Engineering Software (ACES) and Simple Key Loader (SKL). AKMS is a ACAT III Program of Record (POR) under PD Network Enablers (PD Net E). It is the Army's implementation of the NSA's AKMS. The AKMS allows the Army to manage, control, plan, and distribute electronic key for the 1.5 million Cryptographic Units (ECUs) necessary to communicate and distribute data on the Army's tactical and strategic networks.

The Approved Acquisition Objective (AAO) for the AKMS is 174,522 (Fill Devices); AKMI is 855 Management Client Nodes (MGC); Crypto Systems is 153,203 (Encryption Devices).
### Exhibit P-40, Budget Line Item Justification: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security

**P-1 Line Item Number / Title:**
- B96000 / Communications Security (COMSEC)

**Date:** February 2015

<table>
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<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements: 0303140A</th>
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#### Secondary Distribution

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<td>90.731</td>
<td>116.625</td>
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| **ANG**             |         |         |              |             |               |         |         |         |         |
| Quantity            | -       | -       | -            | -           | -             | -       | -       | -       | -       |
| Total Obligation Authority | -       | 3.248  | 1.178        | -           | 1.178         | 4.060   | 2.735   | 0.910   | 3.715   |

| **AR**              |         |         |              |             |               |         |         |         |         |
| Quantity            | -       | -       | -            | -           | -             | -       | -       | -       | -       |
| Total Obligation Authority | -       | 1.624  | 0.590        | -           | 0.590         | 2.031   | 1.368   | 0.455   | 1.858   |

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army  
Appropriation / Budget Activity / Budget Sub Activity:  
2035A: Other Procurement, Army / BA 02: Communications and Electronics  
Equipment / BSA 64: Information Security  
P-1 Line Item Number / Title:  
B96000 / Communications Security (COMSEC)  

ID Code (A=Service Ready, B=Not Service Ready) - A  
Program Elements for Code B Items:  
Other Related Program Elements: 0303140A

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<td>P-5, P-5a</td>
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<td>B96004 / KEY MANAGEMENT INFRASTRUCTURE</td>
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<th>Quantity / Total Cost (Each) / ($ M)</th>
<th>Quantity / Total Cost (Each) / ($ M)</th>
<th>Quantity / Total Cost (Each) / ($ M)</th>
<th>Quantity / Total Cost (Each) / ($ M)</th>
<th>Quantity / Total Cost (Each) / ($ M)</th>
</tr>
</thead>
</table>

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
In FY 2016, PD COMSEC funding of $72.257 Million supports three sub-programs.

FY 2016 base procurement dollars, in the amount of $16.206 Million, will be primarily utilized to procure modern In-Line Network Encryption (INE) and In-Line Media Encryption (IME) devices. A portion of these funds will support the continuing Army-wide Cryptographic Network Standardization (ACNS) effort.

FY2016 base procurement dollars in the amount of $45.678 supports the procurement, fielding, depot support and New Equipment Training (NET) for KMI MGCS, NGLD fill devices, J-TNT and ACES laptops. It also provides associated government and contractor engineering support, Post Deployment Software support, system technical and software support of the AKMI SoS components. Funding enables modifications in the AKM SoS to support the transition of AKMS components to KMI standards and compliance and to support legacy and emerging ECUs ability to communicate within the KMI architecture.

FY 2016 base procurement dollars in the amount of $10.373M supports continuing Post Deployment Software Support (PDSS) efforts for legacy AKMS components, operational support for deployed and sustaining forces, technical engineering & support, associated government and contractor engineering support, and the development and updating of Web based training for AKMS components to augment in-class delta and sustainment training. The PDSS effort is an OPA requirement because of the new capabilities that are required to be implemented into key management products based on the evolution of the network and end cryptographic units. The changes in capability do not allow the operational support to be transitioned to sustainment. The PDSS contract for all key management products has been optimized and requirements continuously assessed to ensure that it is fiscally sound. The AKMS SoS supports the transition to AKMI, the Army’s implementation of NSA’s KMI ACAT IAM program in accordance with the EKMS Tier 2 Sunset date of December 2017. Continued support for the AKMS SoS is critical until KMI is fully operational and fielded. The current SKL fleet will require support through at least 2025. Modernization of fill devices and emerging radio planning and configuration requirements are supported through the Army's KMI funding line (B96004).

It is the PdD's intent to incrementally migrate the AKMS funding line to the AKMI funding line beginning in FY2017, provided that the sunset date of December 2017 is met. Recent developments at the NSA Program Management Office (PMO) may cause additional schedule slippages to the complete standup of the KMI infrastructure. This presents a potential risk which may require the AKMS funding line to be maintained at steady state beyond 2017, if the planned sunset date is not met.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64

P-1 Line Item Number / Title: B96000 / Communications Security (COMSEC)

Item Number / Title [DODIC]: B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)

ID Code (A=Service Ready, B=Not Service Ready): A

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<th>FY 2015</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>16.206</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

**Cost Elements**

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The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.

MDAP/MAIS Code:

Date: February 2015

UNCLASSIFIED
## Exhibit P-5, Cost Analysis: PB 2016 Army
### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 64

### P-1 Line Item Number / Title:
B96000 / Communications Security (COMSEC)

### Item Number / Title [DODIC]:
B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS)

### ID Code (A=Service Ready, B=Not Service Ready):
A

### MDAP/MAIS Code:
Secondary Distribution

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<th>Date of First Delivery</th>
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Remarks:
The items procured are COTS or GOTS.
## UNCLASSIFIED

**Exhibit P-5, Cost Analysis: PB 2016 Army**

### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 64

**P-1 Line Item Number / Title:**
B96000 / Communications Security (COMSEC)

**Item Number / Title [DODIC]:**
B96004 / KEY MANAGEMENT INFRASTRUCTURE

### ID Code (A=Service Ready, B=Not Service Ready):

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

#### Resource Summary

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-The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.-

| Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | 125.145 | - | 125.145 |

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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**UNCLASSIFIED**

Army

Page 7 of 11

P-1 Line #46

LI B96000 - Communications Security (COMSEC)

210
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64
P-1 Line Item Number / Title: B96000 / Communications Security (COMSEC)

Item Number / Title [DODIC]: B96004 / KEY MANAGEMENT INFRASTRUCTURE

ID Code (A=Service Ready, B=Not Service Ready):

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions)                       |             |          |          |              |             |               |
| Gross/Weapon System Unit Cost ($ in Thousands)       |             |          |          |              |             | 10,373,000    |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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<td>Subtotal: Flyaway Cost</td>
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</table>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
### Exhibit P-5, Cost Analysis: PB 2016 Army

<table>
<thead>
<tr>
<th>Appropriation / Budget Activity / Budget Sub Activity:</th>
<th>P-1 Line Item Number / Title:</th>
<th>Item Number / Title [DODIC]:</th>
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<tbody>
<tr>
<td>2035A / 02 / 64</td>
<td>B96000 / Communications Security (COMSEC)</td>
<td>BA1201 / TSEC - Army Key Mgt Sys (AKMS)</td>
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**Date:** February 2015

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, N=Not Service Ready):</th>
<th>MDAP/MAIS Code:</th>
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<table>
<thead>
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<th>Secondary Distribution</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Army</td>
<td>Quantity</td>
<td>-</td>
<td>-</td>
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<tr>
<td></td>
<td>Total Obligation Authority</td>
<td>13.890</td>
<td>10.382</td>
<td>10.373</td>
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</tr>
<tr>
<td>Total: Secondary Distribution</td>
<td>Quantity</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority</td>
<td>13.890</td>
<td>10.382</td>
<td>10.373</td>
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<td>10.373</td>
</tr>
</tbody>
</table>
Description:
This program funds Army-wide non-tactical installation Land Mobile Radio (LMR) systems and radios, and two years of Interim Contractor Support (ICS) for LMR system maintenance. LMR systems are commercial solutions that provide mobile and portable communications for garrison public safety, force protection, homeland security, and facilities maintenance operations. The primary users of LMR are emergency response personnel, including installation military police, fire departments, and medical personnel. These personnel use LMR to synchronize emergency response efforts and for critical communications support during dispatch, mobilization, deployment, and operations. Without adequate communications capabilities that readily enable coordination, maximize the use of scarce radio spectrum, and provide secure voice transmissions, emergency responders and base support personnel would be significantly constrained in their ability to perform key functions. LMR provides Army interoperability with state and local fire protection and law enforcement agencies critical to ensuring effective incident response via mutual aid agreements. The LMR Program modernization of installation radio systems enables compliance with the National Telecommunications and Information Administration (NTIA) mandated migration from wideband LMR systems. LMR systems are key components of the Army Enterprise used to provide a seamless communications network in support of base level communications and infrastructure.

## Resource Summary

<table>
<thead>
<tr>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements:</th>
</tr>
</thead>
</table>

### Initial Spares ($ in Millions)

<table>
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### Flyaway Unit Cost ($ in Thousands)

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</table>

### Description:
This program funds Army-wide non-tactical installation Land Mobile Radio (LMR) systems and radios, and two years of Interim Contractor Support (ICS) for LMR system maintenance. LMR systems are commercial solutions that provide mobile and portable communications for garrison public safety, force protection, homeland security, and facilities maintenance operations. The primary users of LMR are emergency response personnel, including installation military police, fire departments, and medical personnel. These personnel use LMR to synchronize emergency response efforts and for critical communications support during dispatch, mobilization, deployment, and operations. Without adequate communications capabilities that readily enable coordination, maximize the use of scarce radio spectrum, and provide secure voice transmissions, emergency responders and base support personnel would be significantly constrained in their ability to perform key functions. LMR provides Army interoperability with state and local fire protection and law enforcement agencies critical to ensuring effective incident response via mutual aid agreements. The LMR Program modernization of installation radio systems enables compliance with the National Telecommunications and Information Administration (NTIA) mandated migration from wideband LMR systems. LMR systems are key components of the Army Enterprise used to provide a seamless communications network in support of base level communications and infrastructure.
P-1 Line Item Number / Title: BU4160 / Base Support Communications

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

<table>
<thead>
<tr>
<th>Title*</th>
<th>Exhbits ID CD</th>
<th>Quantity / Total Cost (Each) / ($ M)</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY 2016 Base funding in the amount of $16.082 million procures and modernizes garrison LMR systems for two installations in the continental US (CONUS), and US Army Garrison Japan, and provides two years of Contractor Support (CS) for LMR system engineering. Existing systems do not meet DoD and Army standards, are obsolete, are no longer supported by the manufacturer, and/or are non-compliant with the NTIA spectrum efficiency mandate. Power projection and power support Army installations across the continental US (CONUS) and the Pacific Area of Operations rely on base support LMR systems as a primary means to support force protection, public safety, installation management, and homeland security missions.

In accordance with Sections 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
## Exhibit P-5, Cost Analysis: PB 2016 Army

### ID Code (A=Service Ready, B=Not Service Ready):

- **Resource Summary:**
  - Procurement Quantity (Units in Each)
  - Gross/Weapon System Cost ($ in Millions)
  - Less PY Advance Procurement ($ in Millions)
  - Net Procurement (P1) ($ in Millions)
  - Plus PY Advance Procurement ($ in Millions)
  - Total Obligation Authority ($ in Millions)

- **Resource Summary Prior Years:**
  - FY 2014
  - FY 2015
  - FY 2016 Base
  - FY 2016 OCO
  - FY 2016 Total

- **Gross/Weapon System Unit Cost ($ in Thousands):**
  - FY 2014
  - FY 2015
  - FY 2016 Base
  - FY 2016 OCO
  - FY 2016 Total

- **Initial Spares ($ in Millions):**
  - FY 2014
  - FY 2015
  - FY 2016 Base
  - FY 2016 OCO
  - FY 2016 Total

- **Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

#### Hardware Cost

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<th>Cost Element</th>
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<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
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#### Secondary Distribution

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<tr>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>Quantity</td>
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<td>Quantity</td>
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<td>Total Obligation Authority</td>
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*(†) indicates the presence of a P-5a*
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 72

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<thead>
<tr>
<th>Cost Elements</th>
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<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
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<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
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**Remarks:**

All IT procurements consist of Cost Commercial Off-The-Shelf (COTS) solutions; all quantities and unit costs vary by project, system configuration, and site. ACC APG - Army Contract Command Aberdeen Proving Ground; PEO EIS - Program Executive Office Enterprise Information Systems; PM DCATS - Project Manager, Defense Communications and Army Transmission Systems; PD LMR - Product Director, Land Mobile Radios; ACC RI - Army Contracting Command Rock Island; ISEC - Information Systems Engineering Command.
### Program Elements for Code B Items:

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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>3,793.121</td>
<td>76.157</td>
<td>97.091</td>
<td>86.037</td>
<td>-</td>
<td>86.037</td>
<td>61.248</td>
<td>77.686</td>
<td>61.423</td>
<td>61.741 Continuing</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>76.157</td>
<td>97.091</td>
<td>86.037</td>
<td>-</td>
<td>86.037</td>
<td>61.248</td>
<td>77.686</td>
<td>61.423</td>
<td>61.741 Continuing</td>
<td>Continuing</td>
</tr>
</tbody>
</table>

(Continued on the next page...)

### Description:

In accordance with Section 1815 of FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

This budget line does not procure weapons systems or produce end items. All Information Technology (IT) procurements consist of COTS/GOTS solutions; all quantities and unit cost vary by project, system configuration, and site.

This program provides engineering, quality assurance, and Information Systems infrastructure (common user voice, data, video networks) in support of Military Construction Army (MCA) and Sustainment, Restoration, and Modernization (SRM) projects. It supplies non-tactical telecommunications equipment and engineering services for Army base operations. When required due to MCA or SRM projects, this program provides upgrades to regional or Theater Information Systems infrastructure, as well as physical plant infrastructure that directly support those Information Systems assets. This program delivers standardized operational processes and procedures, providing the Army with consistent integration, synchronization, and delivery of voice, data, imagery, applications, and network capabilities down to the individuals in both the operating force and generating force Army-wide. In conjunction with MCA or SRM projects, this program also provides funding for organization-specific command and control Information Systems requirements necessary to equip a new or modernized facility to a mission-ready state ahead of the physical relocation of the occupant organization.

**PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION:**

This program funds organization-specific command and control Information Systems requirements necessary to relocate and equip an organization in conjunction with MCA or SRM projects. These may include specific IT requirements to facilitate connectivity from building infrastructure to end user equipment, items for classrooms, computers, video teleconferencing (VTC) systems, projectors, display/knowledge walls, telephone equipment, etc. This SSN consolidates individual organizational requirements to provide a deliberate planned programmatic approach to procure mission essential Information Systems equipment.

**INFORMATION SYSTEMS (MCA SUPPORT):**

This program provides for the worldwide Information Systems infrastructure (common user voice, data, video networks) for the MCA Program. It supplies non-tactical telecommunications equipment and services in support of Army base operations, LandWarNet 2020 and Beyond, Unified Capabilities, common user, and physical plant infrastructure to support Information Systems assets. It provides standardized operational processes and procedures, enabling the Army consistent integration, synchronization, and delivery of voice, data, imagery, applications, and network capabilities down to the individuals in both the operating force and generating force Army-wide.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 73: Comm - Base Communications

P-1 Line Item Number / Title:
BB8650 / Information Systems

Date: February 2015

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: Other Related Program Elements:

INFORMATION SYSTEMS (CONUS/WESTERN HEM):
This program provides for the worldwide Information Systems infrastructure (common user voice, data, video networks) for the SRM Program. It supplies non-tactical telecommunications equipment and services in support of Army base operations, LandWarNet 2020 and Beyond, Unified Capabilities, common user, and physical plant infrastructure to support Information Systems assets. It provides standardized operational processes and procedures, enabling the Army consistent integration, synchronization, and delivery of voice, data, imagery, applications, and network capabilities down to the individuals in both the operating force and generating force Army-wide.

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<tbody>
<tr>
<td>Army</td>
<td>Quantity</td>
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<td>77.686</td>
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<td>Total: Secondary Distribution</td>
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<tr>
<td>Total Obligation Authority</td>
<td>76.157</td>
<td>97.091</td>
<td>86.037</td>
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UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications

P-1 Line Item Number / Title: BB8650 / Information Systems

ID Code (A=Service Ready, Br=Not Service Ready) : 

Program Elements for Code B Items:

Exhibit Schedule

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td>ID Code</td>
<td>ID CD</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
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<tr>
<td>B31510 / PROPONENT / MISSION IT-MCA / PHYSICAL RELOCATION</td>
<td>P-5, P-5a</td>
<td>- / -</td>
<td>- / -</td>
<td>- / 47.600</td>
<td>- / 50.694</td>
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<tr>
<td>BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)</td>
<td>P-5, P-5a</td>
<td>- / 1,444.524</td>
<td>- / 76.157</td>
<td>- / 43.075</td>
<td>- / 31.028</td>
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<td>BB8700 / INFORMATION SYSTEMS (CONUS / WESTERN HEM)</td>
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<td>- / 97.091</td>
<td>- / 86.037</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:

FY 2016 Base procurement dollars in the amount of $86.037 million supports:

PROPOSEN / MISSION IT-MCA / PHYSICAL RELOCATION:
FY 2016 Base procurement dollars in the amount of $50.694 million supports the procurement of commercial-off-the-shelf (COTS) information systems and infrastructure which support mission essential command and control Information Technology requirements in newly built MCA or renovated SRM facilities. These funds ensure the Army employs a planned systematic approach to procure mission essential Information Systems equipment in support of vital command and control missions. This includes, but is not limited to, above secret mission essential network transport infrastructure, and end-user instruments (including telephones, soft phones, video conferencing equipment or computing devices), associated licensing, and secure data switches, gateways and encryption devices for classified connectivity. In addition to the overall network, this provides funding for mission essential Information Systems for classrooms, computers for mission requirements above secret, video conferencing (VTC) systems, projectors, display/knowledge walls, secure telephone equipment, and physical plant infrastructure to support those Information Systems assets. This program procures the network infrastructure engineering, acquisition, installation, security, and quality assurance to support the planning, design, and implementation of mission essential Information Systems. This program supports requirements necessary for the physical relocation of units in conjunction with MCA and SRM projects with command and control missions. Funding is required to ensure that these projects have all necessary Information Systems infrastructure and equipment for soldier readiness of the facilities. This program consolidates individual organizational requirements to provide a deliberate planned programmatic approach to procure mission essential Information Systems equipment.

INFORMATION SYSTEMS (MCA SUPPORT):
FY 2016 Base procurement dollars in the amount of $31.028 million supports the procurement of commercial-off-the-shelf (COTS) Information Systems which support Unified Capability voice/data switches, common user network transport infrastructure, end-user instruments (including telephones, soft phones, video conferencing equipment or computing devices), associated licensing, training range connectivity which may include long runs of fiber optics cable, and secure data switches, gateways and encryption devices for classified network connectivity. This funding also procures the network infrastructure engineering, acquisition, installation, security, and quality assurance to support the planning, design, and implementation of Information Systems requirements associated with MCA projects. Funding is required to ensure that these projects have all necessary Information Systems infrastructure and equipment for soldier readiness of the facilities.

INFORMATION SYSTEMS (CONUS / WESTERN HEM):
FY 2016 Base procurement dollars in the amount of $4.315 million supports the procurement of commercial-off-the-shelf information (COTS) systems which support Unified Capability voice/data switches, common user network transport infrastructure, end-user instruments (including telephones, soft phones, video conferencing equipment or computing devices), associated licensing, training range connectivity which may include long runs of fiber optics cable, and secure data switches, gateways and encryption devices for classified network connectivity. This funding also procures the network infrastructure engineering, acquisition, installation, security, and quality assurance to support the planning, design, and implementation of Information Systems requirements associated with SRM projects. Funding is required to ensure that these projects have all necessary Information Systems infrastructure and equipment for soldier readiness of the facilities.

LI BB8650 - Information Systems

UNCLASSIFIED

Army

Page 3 of 10

P-1 Line #48
**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73

**P-1 Line Item Number / Title:** BB8650 / Information Systems

**Item Number / Title [DODIC]:** B31510 / PROPOSED/MISSION IT-MCA/PHYSICAL RELOCATION

**Date:** February 2015

**MDAP/MAIS Code:**

<table>
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<tr>
<th>Resource Summary</th>
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<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>50.694</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>50.694</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>50.694</td>
<td>-</td>
<td>50.694</td>
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</tbody>
</table>

**Initial Spares ($ in Millions)**

- | - | - | - | - | - |

**Gross/Weapon System Unit Cost ($ in Thousands)**

- | - | - | - | - | - |

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

**Secondary Distribution**

<table>
<thead>
<tr>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<td>Army</td>
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(†) indicates the presence of a P-5a
**Exhibit P-5a, Procurement History and Planning: PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**

| 2035A / 02 / 73 |

**P-1 Line Item Number / Title:**

| BB8650 / Information Systems |

**Item Number / Title [DODIC]:**

| B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION |

### Cost Elements

<table>
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<tr>
<th>Cost Elements</th>
<th>OCO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
</tr>
</thead>
</table>

**Remarks:**

All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site. ACC-RI - Army Contracting Command-Rock Island
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73  
**P-1 Line Item Number / Title:** BB8650 / Information Systems  
**Item Number / Title [DODIC]:** BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)

#### ID Code

(\(A=\)Service Ready, \(B=\)Not Service Ready)

<table>
<thead>
<tr>
<th>ID Code</th>
<th>MDAP/MAIS Code:</th>
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<tr>
<td></td>
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#### Resource Summary

<table>
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<tr>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>31.028</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>1,444.524</td>
<td>76.157</td>
<td>43.075</td>
<td>31.028</td>
<td>-</td>
<td>31.028</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>76.157</td>
<td>43.075</td>
<td>31.028</td>
<td>-</td>
<td>31.028</td>
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</tbody>
</table>

(\(\text{The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.}\))

#### Initial Spares ($ in Millions)

- | - | - | - | - | - | - |

#### Gross/Weapon System Unit Cost ($ in Thousands)

- | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

#### Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
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<td>-</td>
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<td>76.157</td>
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Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73
P-1 Line Item Number / Title: BB8650 / Information Systems

Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT)

ID Code (A=Service Ready, N=Not Service Ready):

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td></td>
<td>Unit Cost ($K)</td>
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Secondary Distribution

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<th>FY 2015</th>
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<th>FY 2016 Total</th>
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<td>Total Obligation Authority</td>
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<td>43.075</td>
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Total:

Secondary Distribution

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<th>FY 2016 Total</th>
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<td>Total Obligation Authority</td>
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<td>43.075</td>
<td>31.028</td>
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(†) indicates the presence of a P-5a
### Cost Elements

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<th>O CO</th>
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<th>Method/Type of Funding Vehicle</th>
<th>Location of PCO</th>
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<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>MCA Spt - Telephone Switch</td>
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<td>TBS / TBS</td>
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<td>Sep 2016</td>
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<td>500,000</td>
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**Remarks:**

All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site. ACC-RI - Army Contracting Command-Rock Island; CHESS - Computer Hardware Enterprise Software and Solutions; IMOD/LTLCS/R2 - Infrastructure Modernization/Long Term Life Cycle/R2; TEIS - Total Engineering and Integration Services; ACC-HUA - Army Contracting Command-Fort Huachuca.
**Exhibit P-5, Cost Analysis:** PB 2016 Army  
**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73  
**P-1 Line Item Number / Title:** BB8650 / Information Systems  
**Item Number / Title [DODIC]:** BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)  
**Date:** February 2015  

### Resource Summary

<table>
<thead>
<tr>
<th></th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>1,010.346</td>
<td>-</td>
<td>6.416</td>
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<tr>
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<td>4.315</td>
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*Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.*

### Cost Elements

#### Prior Years

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#### FY 2014

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#### FY 2016 Base

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#### FY 2016 OCO

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#### FY 2016 Total

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### Secondary Distribution

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<th>FY 2016 OCO</th>
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<td>6.416</td>
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† indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 73

**P-1 Line Item Number / Title:**
BB8650 / Information Systems

**Item Number / Title [DODIC]:**
BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM)

**Date:**
February 2015

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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<td>C / FFP</td>
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<td>4,315.000</td>
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**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications

P-1 Line Item Number / Title: BU3770 / Defense Message System (DMS)

ID Code (A=Service Ready, B=Not Service Ready): BU3770 / Defense Message System (DMS)

Program Elements for Code B Items:

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<td>(Units in Each)</td>
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<td></td>
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</tr>
<tr>
<td>Gross/Weapon System Cost</td>
<td>356.415</td>
<td>0.612</td>
<td>0.246</td>
<td></td>
<td></td>
<td></td>
<td>0.325</td>
<td></td>
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<td>357.98</td>
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<tr>
<td>Less PY Advance Procurement</td>
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<tr>
<td>Net Procurement (P1)</td>
<td>356.415</td>
<td>0.612</td>
<td>0.246</td>
<td></td>
<td></td>
<td></td>
<td>0.325</td>
<td></td>
<td></td>
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<td>357.98</td>
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<tr>
<td>Plus CY Advance Procurement</td>
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<tr>
<td>Total Obligation Authority</td>
<td>356.415</td>
<td>0.612</td>
<td>0.246</td>
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<td></td>
<td>0.325</td>
<td></td>
<td></td>
<td></td>
<td>357.98</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) -
Flyaway Unit Cost ($ in Thousands) -
Gross/Weapon System Unit Cost ($ in Thousands) -

Description:
The Defense Message System (DMS) program is DoD's official system of record for Organizational Command and Control Messaging, as established under ASD C3I memorandum dated 12 April 2001. DMS consists of a web-based enterprise level messaging system employing the Automated Message Handling System (AMHS) software, which provides a single, secure, global inter-service messaging capability extending from the sustaining base to the Warfighter. DMS' tactical implementation supports the Warfighter in the joint task force environment and across the continuum of Army operations.

DMS is:
1. Meeting Army Campaign Plan Objectives through deploying and sustaining a global messaging system for Joint and Coalition forces. 2. Designed to meet the Net-centric requirements of no repudiation (digital signature), data security (digital encryption), assured and timely delivery, message traceability and storage. 3. Providing Authentication and Confidentiality through High Grade Class IV Public Key Infrastructure (PKI) encryption. This guarantees the identity of senders and recipients with the assigned organizational PKI certificates, and messages are encrypted between drafting organization and receiving organization. The Body of the message is unreadable to all except intended recipients with authorized access. 4. Supporting administrative and intelligence traffic from the sustaining base to the battlefield. 5. A critical tool which aids in the Central Command Area of Operation (CENTCOM) direction of both US and Allied forces within Multi-National Forces-Iraq (MNF-I). 6. The only messaging system that allows the regional Combatant Commands (COCOMs) to officially communicate with their Allied partners, and other Services and Agencies, at the operational level.

These are all Joint Army Knowledge Management (AKM) Goal 3 initiatives.

All funds support the Active component.

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<tbody>
<tr>
<td>Army</td>
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<td>0.325</td>
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<tr>
<td>Total:</td>
<td>Quantity</td>
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</table>
### Justification:
This program has no FY 2016 Base or OCO procurement requirement.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications

P-1 Line Item Number / Title: BU8000 / Emergency Management Modernization Program

Date: February 2015

Description:
The Emergency Management Modernization Program (EM2P) is a single integrated acquisition program for the design, procurement, fielding, new equipment training, and life-cycle management of emergency management capabilities in support of Army installations, Soldiers and their Families, civilians, and contractors. EM2P provides capabilities that increase situational awareness, decrease responder time, and allow for quicker warning and notification of personnel during the management of an active incident. The EM2P system consists of Mass Warning and Notification (MWN) technologies, Enhanced 911 (E911) solutions, and Computer Aided Dispatch (CAD) capability. CAD serves as the central hub for dispatching law enforcement, fire, and medical services on an installation and is integrated with Automated Installation Entry (AIE), Mass Warning and Notification (MWN), and law enforcement (LE) authoritative data sources as well as with local civilian CAD and civilian LE authoritative data sources. The EM2P provides capabilities that will save lives by enabling Commanders to quickly and effectively respond to any installation emergency events, to include insider threats, terrorist activity and natural disasters.

The EM2P ADM authorizes EM2P to field 56 CONUS and 13 OCONUS Mass Warning and Notification (MWN) systems and 22 Enhanced (E911) systems.

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<tbody>
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<tr>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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Secondary Distribution

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**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications

**P-1 Line Item Number / Title:**
BU8000 / Emergency Management Modernization Program

**Date:** February 2015

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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<td>Title*</td>
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<td>Quantity / Total Cost (Each) / ($M)</td>
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<td>- / 8.550</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**
FY 2016 Base procurement funding in the amount of $8.550 million will complete the total package fielding of 56 CONUS and 13 OCONUS Mass Warning and Notification (MWN) technologies and 18 Enhanced 911 (E911) solutions at Army installations.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73

P-1 Line Item Number / Title: BU8000 / Emergency Management Modernization Program

Item Number / Title [DODIC]: BU8000 / Emergency Management Modernization Program

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### Resource Summary

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<tr>
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<td>-</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>105.531</td>
<td>39.000</td>
<td>5.362</td>
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<tr>
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<td>39.000</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>105.531</td>
<td>39.000</td>
<td>5.362</td>
<td>8.550</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

#### Initial Spares ($ in Millions)

- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

#### Gross/Weapon System Unit Cost ($ in Thousands)

- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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#### Subtotal: Recurring Cost

- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

#### Subtotal: Flyaway Cost

- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

#### Gross/Weapon System Cost

- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

### Secondary Distribution

<table>
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<tr>
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<th>FY 2014</th>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<td>5.362</td>
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</table>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere. Initial Spares ($ in Millions): - FY 2014: -; FY 2015: -; FY 2016 Base: -; FY 2016 OCO: -; FY 2016 Total: -


Secondary Distribution:

Army Quantity: -

Total Obligation Authority: 39.000 5.362 8.550 - 8.550

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
## Exhibit P-5, Cost Analysis: PB 2016 Army

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73

**P-1 Line Item Number / Title:** BU8000 / Emergency Management Modernization Program

**Item Number / Title [DODIC]:** BU8000 / Emergency Management Modernization Program

### ID Code (A=Service Ready, B=Not Service Ready) :

### MDAP/MAIS Code:

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<td>39.000</td>
<td>5.362</td>
<td>8.550</td>
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<td>8.550</td>
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*(†) indicates the presence of a P-5a*
<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
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(†) indicates the presence of a P-21
Exhibit P-21, Production Schedule: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73

P-1 Line Item Number / Title: BU8000 / Emergency Management Modernization Program

Item Number / Title [DODIC]: BU8000 / Emergency Management Modernization Program

<table>
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<tr>
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<th>Calendar Year 2014</th>
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<td>MFR O# FY SERVICE PROC QTY</td>
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<tr>
<td>1</td>
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Prime Contract

LI BU8000 - Emergency Management Modernization Program
**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 73

**P-1 Line Item Number / Title:**
BU8000 / Emergency Management Modernization Program

**Item Number / Title [DODIC]:**
BU8000 / Emergency Management Modernization Program

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### Production Rates (Each / Month)

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<th>MFR Name - Location</th>
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<th>1-8-5 For 2016</th>
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<tbody>
<tr>
<td>1</td>
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<td>1</td>
<td>1</td>
<td>10</td>
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<tr>
<td>2</td>
<td>TBD - TBD</td>
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### Procurement Leadtime (Months)

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<td>5</td>
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<tr>
<td>Mfg PLT</td>
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<td>4</td>
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<tr>
<td>Total After Oct 1</td>
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<td>9</td>
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<tr>
<td>ALT Prior to Oct 1</td>
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<td>ALT After Oct 1</td>
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<td>Mfg PLT</td>
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<td>-</td>
</tr>
<tr>
<td>Total After Oct 1</td>
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<td>-</td>
</tr>
</tbody>
</table>

**Remarks:**

The prime contract is structured to compete and award one task order per Army installation to commercial vendors for the EM2P directed requirements, to ensure the greatest effectiveness and lowest cost for each installation's specific capability gaps.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics

Equipment / BSA 73: Comm - Base Communications

**P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program

---

**Resource Summary**

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<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>3,429.116</td>
<td>279.300</td>
<td>79.965</td>
<td>73.496</td>
<td>29.500</td>
<td>102.996</td>
<td>188.420</td>
<td>199.616</td>
<td>217.393</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**

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**Flyaway Unit Cost ($ in Thousands)**

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</table>

**Gross/Weapon System Unit Cost ($ in Thousands)**

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</tbody>
</table>

**Description:**

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

This budget line does not procure weapons systems or produce end items. All IT procurements consist of COTS solutions; all quantities and unit costs vary by system configuration and site.

The Installation Information Infrastructure Modernization Program (I3MP) modernizes and refreshes the classified and unclassified Telecommunications/Information long haul and shorthaul transport infrastructure supporting Army posts/camps/stations across the globe. Installation-level network infrastructure is comprised of the wiring, electronics and security equipment required to provide voice, video, and data communications to traditional business users and Warfighters. Specific systems include classified and unclassified Voice over Internet Protocol (VoIP), Joint Regional Security Stacks, and Internet Protocol Video. I3MP is at the very foundation of the Army's Enterprise information technology modernization strategy to evolve to an Everything over Internet Protocol (EoIP) network environment that meets the Department of Defense mandate to implement Unified Capabilities (UC) and the Joint Information Environment (JIE). I3MP engineers, designs, and fields standardized, converged, UC-ready, secure Installation Campus Area Network (ICAN) infrastructure using Commercial-off-the-Shelf (COTS) solutions. In Korea, the program resources all the Information Technology engineering required to ensure Army and Joint Forces can operate efficiently once they relocate south to Camp Humphries. This infrastructure provides tactical and strategic end-users with connectivity from the desktop to the DOD Information Network (DODIN). The network I3MP modernizes ensures soldiers maintain their warfighting systems and their proficiency on the systems by using the installation network as a "Docking Station" while they are at home station instead of relying on costly satellite usage time. I3MP further enables valuable training as it provides the critical high speed and high bandwidth connectivity required for facilities and organizations to conduct Live, Virtual, and Constructive exercises and operations. The program supports the Army/DoD objectives of network convergence to UC and is aligned with the Joint Information Environment (JIE) initiative by providing the transport infrastructure.

The World Wide Technical Control Improvement Program (WWTCIP) is a continuing program to initiate, improve, expand and automate the Army's Technical Control Facilities (TCF). The program provides power (alternating current and direct current (AC/DC), uninterruptible power supply (UPS) and backup generator), timing and synchronization equipment, line conditioning equipment, real time alarm monitoring and control, tri-service tactical interface, and appropriate test equipment with associated hardware. The upgrades provide the end user with greater bandwidth for real time response, high quality voice, data, video, and minimizes outages. The program is essential to support Outside the Continental United States (OCONUS) Theater Combatant Commander's communications as well as the Continental United States (CONUS) power projection bases and Defense Satellite Communications Systems. The emerging requirements of new base consolidation in both the Pacific and European Theaters will require robust TCF capability. Provides initial configuration management and implements Information Assurance (IA) controls for TCFs.
The Terrestrial Transmission (TT) program is a component of the Army's seamless Enterprise Network that provides long-haul communications compatibility across operational systems supporting the Department of Defense approved program to modernize and integrate digital operations within the Pacific and European Theaters. The goal architecture will be able to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theaters. The objective is an integrated, survivable network that provides voice, data messaging, video and transmission services to the Warfighter. It will also continue the upgrade of power, and timing and alarm systems for the European Transmission Systems. The Army Special Access Program Enterprise Portal (ASEP) is the Army's only Top Secret compartmented wide area network providing a secure communications capability (email, video, teleconferencing, document storage/sharing, voice over internet protocol and instant messaging) for the transmission of highly classified Special Access Required (SAR) information between the Army Operations Center (AOC), the Army staff, Army Commands, Army Service Component Commands, Army Special Access Programs (SAPs) and Army Sensitive Activities (SAs).
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications

P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program

Exhibit P-40, Budget Line Item Justification:

Date: February 2015

Justification:
I3MP:
FY 2016 Base procurement dollars in the amount of $69.223 million supports CONUS/OCONUS engineering plans and upgrades/modernizes the telecommunications/information infrastructure on Army installations in CONUS and OCONUS to provide standardized secure Information Campus Area Network (ICAN) for tactical and strategic use from desktop to DoD Information Network (DoD IN) through implementation of Unified Capabilities (UC). This means converging separate voice, video, and data networks and electronics which exist on Army installations onto a single data (internet protocol) network. Dollars also support Multi-Protocol Label Switching (MPLS) and the purchase of Area Distribution Node/End User Building (ADN/EUB) switches to meet the Army's Unified Capability (UC) Modernization requirement.

FY 2016 Overseas Contingency Operation (OCO) procurement dollars in the amount of $29.500 million supports Operation Freedom Sentinel (OFS). $14.000 million provides OFS support for theater infrastructure modifications to communications equipment at Camps Buehring and Arifjan with outside cable plants (OSP) and DISN terrestrial circuits for installation of the diverse Commercial Point of Presence (PoP). $15.500 million provides OFS support for other enduring locations with theater infrastructure modifications with OSP and network communications facility infrastructure modifications. Support includes replacement of connexes housing network support equipment, servers, and associated equipment with grounded, environmentally controllable modular facilities or within existing permanent facilities; it also brings existing data centers into compliance with Joint Information Environment facility standards for installation processing nodes and special purpose processing nodes.

WWTCP:
FY 2016 Base procurement dollars in the amount of $2.975 million procures the technical engineering service support that facilitates design reviews for the full technical upgrades of TCFs.

Terrestrial Transmission:
FY 2016 Base procurement dollars in the amount of $1.298 million provides for minimal technology refresh (Routers, Switches, Servers, Monitors, etc.) of 10 sites to maintain operational effectiveness, information assurance requirements and to replace obsolete system components of the Army's Special Access Program Enterprise Portal (ASEP).
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73
P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program
Item Number / Title [DODIC]: BU0510 / I3MP - Europe

Date: February 2015

ID Code (A=Service Ready, B=Not Service Ready):

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<th>Prior Years</th>
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<th>FY 2015</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>38.500</td>
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<td>-</td>
</tr>
</tbody>
</table>

The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.

Initial Spares ($ in Millions)
Gross/Weapon System Unit Cost ($ in Thousands)

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<td>38,500</td>
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<td>38,500</td>
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Secondary Distribution

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<th>Army</th>
<th>FY 2014</th>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>Quantity</td>
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<tr>
<td>Total Obligation Authority</td>
<td>38,500</td>
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(†) indicates the presence of a P-5a
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<thead>
<tr>
<th>Cost Elements</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<td>C / FFP</td>
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Remarks:
ACC-RI - Army Contracting Command-Rock Island
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<th>FY 2016 Base</th>
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<td>Net Procurement (P1) ($ in Millions)</td>
<td>1,323.844</td>
<td>232.609</td>
<td>71.610</td>
<td>69.223</td>
<td>29.500</td>
<td>98.723</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>1,323.844</td>
<td>232.609</td>
<td>71.610</td>
<td>69.223</td>
<td>29.500</td>
<td>98.723</td>
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</table>

(Notes: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.)

### Cost Elements

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<tr>
<th>Cost Elements</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Hardware Cost</td>
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<tr>
<td>Recurring Cost</td>
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<tr>
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<tr>
<td>Non Recurring Cost</td>
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<td></td>
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</tr>
<tr>
<td>OFS OSP Camp Bushing(1)</td>
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<tr>
<td>OFS Diverse Pt of Presence Camp Artian(1)</td>
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</tr>
<tr>
<td>OFS COOP/DR OCP ARCENT:Forward(1)</td>
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**Exhibit P-5, Cost Analysis:** PB 2016 Army  
**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73  
**P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program  
**Item Number / Title [DODIC]:** BU0530 / I3MP - CONUS

**ID Code** (A=Service Ready, B=Not Service Ready):  
**MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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<tr>
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<td>Unit Cost ($ K)</td>
<td>Qty (Each)</td>
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<td>Gross/Weapon System Cost</td>
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<tr>
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<td>FY 2015</td>
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<td>FY 2016 Total</td>
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<td>Total Obligation Authority</td>
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<td>29.500</td>
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<td>Total: Secondary Distribution</td>
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<td>71.610</td>
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(†) indicates the presence of a P-5a
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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<td>DISA DITCO Scott, AFB, IL</td>
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<td>C / Various</td>
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<td>C / FFP</td>
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<td>TBD / Various</td>
<td>C / FFP</td>
<td>ACC-RI, Rock Island, IL</td>
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<td>Mar 2016</td>
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</tr>
<tr>
<td>OFS COOP/DR OCP ARCENT-Forward</td>
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<td>C / FFP</td>
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<td>C / FFP</td>
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<td>Apr 2016</td>
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<tr>
<td>OFS Comm Infra Enduring Sites</td>
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<td>C / FFP</td>
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<td>Apr 2016</td>
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<td>C / FFP</td>
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</table>

Remarks:
I3MP is a complex program that orchestrates the implementation of multiple disciplines (connectivity (voice, data, Outside Cable Plant (OSP) network), capacity, storage and information assurance) across multiple locations each with their own developmental cycle, frequently resulting in the overlapping development and implementation of customized communications solutions (to meet unique and diverse mission conditions) at each Army installation. Unit costs and accompanying number of implementations (installations) will, therefore, vary from year to year, due to the complexity of the requirement, size of the installation, state of the information technology being replaced/modernized, the type of technology required, unique configuration and level of effort required to satisfy all requirements. ACC-RI - Army Contracting Command-Rock Island, DISA/DITCO - Defense Information Systems Agency/Defense Information Technology Contracting Organization; OFS – Operation Freedom Sentinel; OSP - Outside Cable Plant; COOP - Continuity of Operations; DR - Disaster Recovery; ARCENT - Army Central; IPN - Installation Processing Node; SPPN - Special Purpose Processing Node.
**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73

**P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program

**Aggregated Items Title:** Various

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.

<table>
<thead>
<tr>
<th>Item Number / Title [DODIC]</th>
<th>ID CD</th>
<th>MDAF/ MAIS Code</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
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<td>Secondary Distribution</td>
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<tr>
<td><strong>Total</strong></td>
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### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73  
**P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program  
**Item Number / Title [DODIC]:** BU3610 / WW Tech Con Imp Prog (WWTCIP)

**Date:** February 2015

**MDAP/MAIS Code:**

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<th>ID Code</th>
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<tr>
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**Resource Summary**

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<tr>
<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>921.977</td>
<td>8.191</td>
<td>8.355</td>
<td>2.975</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>921.977</td>
<td>8.191</td>
<td>8.355</td>
<td>2.975</td>
<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>921.977</td>
<td>8.191</td>
<td>8.355</td>
<td>2.975</td>
<td>-</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

#### Hardware Cost

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
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<td>8.355</td>
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#### Non Recurring Cost

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<tr>
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<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
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<td>Subtotal: Non Recurring Cost</td>
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<td>921.977</td>
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<td>-</td>
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<td>8.355</td>
<td>-</td>
<td>-</td>
<td>2.975</td>
</tr>
<tr>
<td>Subtotal: Hardware Cost</td>
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<td>921.977</td>
<td>-</td>
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<td>8.191</td>
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#### Gross/Weapon System Cost

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<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
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<th>Qty (Each)</th>
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#### Secondary Distribution

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<tr>
<th>Army</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority</td>
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<td>8.355</td>
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<td>2.975</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
<table>
<thead>
<tr>
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<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Total Obligation Authority</td>
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<td>8.355</td>
<td>2.975</td>
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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 73

**P-1 Line Item Number / Title:**
BU0500 / Installation Info Infrastructure Mod Program

**Item Number / Title [DODIC]:**
BU3610 / WW Tech Con Imp Prog (WWTCIP)

**Date:** February 2015

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<th>Method/Type or Funding Vehicle</th>
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**Remarks:**
WWTCIP procurements consist of COTS/GOTS products.

USACE - U.S. Army Corps of Engineers; PM DCATS - Project Manager, Defense Communications and Army Transmission Systems (DCATS); PEO EIS - Program Executive Office Enterprise Information Systems.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics

Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

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ID Code (A=Service Ready, B=Not Service Ready): 

Program Elements for Code B Items:

Other Related Program Elements:

--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Procurement Quantity (Units in Each) | - | - | - | - | - | - | - | - | - | - | -
Gross/Weapon System Cost ($ in Millions) | 313.314 | 0.824 | 0.870 | 0.881 | 0.881 | 0.892 | 0.907 | 0.924 | 0.940 | - | 319.552
Less PY Advance Procurement ($ in Millions) | - | - | - | - | - | - | - | - | - | - | -
Net Procurement (P1) ($ in Millions) | 313.314 | 0.824 | 0.870 | 0.881 | 0.881 | 0.892 | 0.907 | 0.924 | 0.940 | - | 319.552
Plus CY Advance Procurement ($ in Millions) | - | - | - | - | - | - | - | - | - | - | -
Total Obligation Authority ($ in Millions) | 313.314 | 0.824 | 0.870 | 0.881 | 0.881 | 0.892 | 0.907 | 0.924 | 0.940 | - | 319.552

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | -
Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | -
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | -

Description:
The Joint Program Office (JPO) supports all Services and Special Operations Command (SOCOM). The Integrated Broadcast Service (IBS) is the worldwide Department of Defense (DoD) standard network for transmitting time-sensitive tactical and strategic intelligence and targeting data to all echelons of Joint Service operational users. The JPO’s role is to consolidate and replace existing IBS terminal functionality and capability, and to expedite execution of the IBS Technical Transition Plan (TTP). The Joint Tactical Terminal (JTT) family of systems currently consists of the JTT-Senior and JTT-IBS. The TTP is a comprehensive refresh effort of the entire IBS network focused on rearchitecting the broadcast from its current multi-broadcast, multi-data format structure, to a single broadcast (Common Interactive Broadcast - CIB) and single data format (Common Message Format - CMF). The JTT family of systems is a critical component of the TTP as these systems are the only IBS receiver/transceiver devices in the DoD being modernized to support both the new consolidated broadcast architecture and the National Security Agency's (NSA) crypto modernization mandate. The JTT upgrades must execute the over-the-air broadcast portion of the TTP and IBS data flow via the existing over-the-air IBS broadcast networks. The JTT is the official IBS producer system, ensuring continued IBS interoperability to a variety of tactical receivers across DoD and the Services throughout the TTP implementation period and beyond. This program funds the completion of test and evaluation of JTT commercial of the shelf hardware and software modules, and performance enhancements to the family of JTT equipment. This is necessary to ensure crypto modernization compliance and to facilitate migration to a rearchitected CIB and CMF-based IBS broadcast structure. Funds also support the coordination of JTT configuration management, training, equipping and supporting the Warfighter with improved Joint Readiness and Interoperability.

--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Army | - | - | - | - | - | - | - | - | -
Total Obligation Authority | 0.824 | 0.870 | 0.881 | - | 0.881 | 0.892 | 0.907 | 0.924 | 0.940

--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Total: | - | - | - | - | - | - | - | - | -
Total Obligation Authority | 0.824 | 0.870 | 0.881 | - | 0.881 | 0.892 | 0.907 | 0.924 | 0.940
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**P-1 Line Item Number / Title:** V29600 / JTT/CIBS-M

**Date:** February 2015

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<th>P-1 Line Item Number / Title:</th>
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<td>2035A: Other Procurement, Army / BA 02: Communications and Electronics</td>
<td>V29600 / JTT/CIBS-M</td>
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<td>Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)</td>
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<th>ID Code (A=Service Ready, B=Not Service Ready):</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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<tbody>
<tr>
<td>Justification:</td>
<td>FY2016 Base procurement dollars in the amount of $0.881 million funds support of configuration management, sustainment, training, and fielding of JTT-IBS. The approved Army Acquisition Objective is 994. Funding supports the Active Component only.</td>
<td></td>
</tr>
</tbody>
</table>
Prophet Enhanced (PE) is the current system under the Prophet Ground acquisition program. The PE is the tactical commander’s sole organic ground-based Signals Intelligence (SIGINT)/Electronic Warfare system for the Brigade Combat Team (BCT), Stryker Brigade Combat Team (SBCT), and Battlefield Surveillance Brigade (BfSB). Its primary mission is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. PE provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations (Stationary-Fixed, Mobile and Manpack). It also incorporates the ability for rapid integration of Technical Insertions and Pre-Planned Product Improvements to ensure operational relevance. PM Prophet will modernize legacy systems to provide for fleet modernization to meet the requirements of the Prophet program and match the capabilities of the Prophet Enhanced sensors and platforms currently being fielded to the Army.

Army Acquisition Objective (AAO):225
**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

**P-1 Line Item Number / Title:**
- BZ7326 / Prophet Ground

**ID Code** (A=Service Ready, B=Not Service Ready):

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<tr>
<td>Total Obligation Authority</td>
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**Secondary Distribution**

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**Total Obligation Authority**

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UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

P-1 Line Item Number / Title:
BZ7326 / Prophet Ground

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

ID Code

Program Elements for Code B Items:

ID Code

Exhibit Schedule

Exhibits Schedule

ID Code

Program Elements for Code B Items:

ID Code

Other Related Program Elements: 0304270A

Justification:
FY2016 Base procurement dollars in the amount of $63.650 million supports the modernization of 14 legacy Prophet systems to modern SIGINT capabilities, plus associated support for New Equipment Training, fieldings and spares for these systems. Prophet continues to modernize legacy systems. After individual modernized systems are assessed during retrofit (and possible re-use of parts) at the contractor's facility, additional cost savings may be realized, and additional quantities purchased.

IAW Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
###资源摘要

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<th>2015年</th>
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（资源摘要行位于信息性用途下。预算请求在其他地方单独记录。）

###注意：小计或总计可能不准确或相加，由于四舍五入。

###预算要素

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（以百万为单位）

LI BZ7326 - Prophet Ground

UNCLASSIFIED
**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 80

**P-1 Line Item Number / Title:**
BZ7326 / Prophet Ground

**Item Number / Title [DODIC]:**
BZ7326 / Prophet Ground

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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80  
**P-1 Line Item Number / Title:** BZ7326 / Prophet Ground  
**Item Number / Title [DODIC]:** BZ7326 / Prophet Ground  

**Date:** February 2015

<table>
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<th>Cost Elements</th>
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<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
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(†) indicates the presence of a P-21
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** PB 2016 Army 2035A / 02 / 80

**P-1 Line Item Number / Title:** BZ7326 / Prophet Ground

**Item Number / Title [DODIC]:** BZ7326 / Prophet Ground

**Date:** February 2015

**Cost Elements (Units in Each)**

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<th>Fiscal Year 2015</th>
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**UNCLASSIFIED**

LI BZ7326 - Prophet Ground

Army

**Page 7 of 9**

P-1 Line #55
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**Exhibit P-21, Production Schedule:** PB 2016 Army  

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A / 02 / 80

**P-1 Line Item Number / Title:**  
BZ7326 / Prophet Ground

**Item Number / Title [DODIC]:**  
BZ7326 / Prophet Ground

### Production Rates (Each / Month)

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**Remarks:**

Production rates reflect annual capacity. Contractor's production strategy is to build systems from sub-assembly level to parent assembly over the production lifecycle. GD utilizes cross-trained personnel for other GD requirements during months when PROPHET systems are not in production (no gap in production line).

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
## Exhibit P-40, Budget Line Item Justification

**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**Date:** February 2015

### Appropriation / Budget Activity / Budget Sub Activity:

- 2035A: Other Procurement, Army  
- BA 02: Communications and Electronics  
- Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

### P-1 Line Item Number / Title:

- BU4050 / DRUG INTERDICTION PROGRAM (DIP) (TIARA)

### ID Code (A=Service Ready, B=Not Service Ready):

- Program Elements for Code B Items:
- Other Related Program Elements:

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Description:

**CLASSIFIED PROGRAM: INFORMATION WILL BE PROVIDED UPON REQUEST.**
### Description:

Distributed Common Ground System - Army (DCGS-A) is the Intelligence, Surveillance and Reconnaissance (ISR) System of Systems (SoS) for Joint, Interagency, Allied, Coalition, and National data analysis, sharing and collaboration. The core functions of DCGS-A are: the vertical and horizontal synchronization of ISR Processing, Exploitation and Dissemination (PED) efforts; operations in a networked environment at multiple security levels; the control of select Army and joint sensor systems; the fusion of all acquired data and information, and distribution of relevant data (threat), gray (non-aligned), and environmental (weather and terrain) information; and providing the Warfighters’ early warning and targeting capability. DCGS-A provides a single integrated ISR ground processing system composed of common components that are interoperable with sensors, other information sources, all Warfighting Functions, and the Defense Information & Intelligence Enterprise (DI2E). DCGS-A is fielded in fixed and mobile configurations emphasizing the use of reach and split based operations by improving accessibility of data in order to reduce forward deployed footprint. As enhanced capabilities are developed and tested, a continuing series of software releases will be integrated into Army common/commodity hardware and fielded to units in accordance with (IAW) the Army Force Modernization Strategy and the Dynamic Army Resourcing Priority List (DARPL).

The Army Acquisition Executive designated Program Executive Office Intelligence Electronic Warfare and Sensors (PEO IEW&S) as the Command Post Computing Environment (CPCE) lead. As such, DCGS-A is defining the architecture to fit within the Common Operating Environment (COE) as described by the Assistant Secretary of the Army (Acquisition, Logistics, and Technology) (ASA(ALT)) COE Implementation Plan. This is in accordance with the G-3/5/7 priority to align all Army networks, procurements, and enhancements under one COE and one vision leveraging intelligence community investments.

DCGS-A hardware and software is based on a combination of Government Off The Shelf (GOTS), Commercial Off The Shelf (COTS), and Non-Developmental Items (NDI) that are integrated into scalable configurations, tailored to Warfighting functions. These product line components include the software baseline, server suite [Intelligence Fusion Server (IFS)] and individual analyst multi-function workstations, such as Portable and Fixed-Multi-Function Workstations (P-MFWS) and Geospatial Intelligence (GEOINT) Workstation. These components are also used to upgrade existing fielded Intel Programs of Record to enable the establishment of the Army COE while simultaneously assuring system compatibility and interoperability within the DCGS enterprise.

DCGS-A is a designated Major Automation Information System (MAIS), and is deployed on multiple hardware platforms and security levels across the Army. DCGS-A achieved a successful Milestone C in Q212, and following the operational assessment and Full Deployment Decision (FDD) in Q113, DCGS-A Increment 1 Release 1 capabilities are being deployed across the Force IAW the DARPL. Increment 1, Release 2 and Increment 2 capabilities will be fielded incrementally through software releases integrated onto the fielded product line hardware configurations.

Within the Brigade Combat Teams (BCTs), DCGS-A provides basic mobile ISR capability as well as software applications that can be embedded on future Command, Control, Communications & Intelligence (C3I) and other systems. At the Corps, Division and Echelons Above Corps (EAC), DCGS-software will be hosted on fixed, mobile and portable configurations. DCGS-A consolidates and modernizes the PED capabilities formerly found in the following programs, allowing for their continuing disposition out of the force structure: All Source Analysis System (ASAS) Family of Systems (FoS), Tactical Exploitation System...
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

P-1 Line Item Number / Title: BZ7316 / DCGS-A (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items: Other Related Program Elements: 0305208A

(TES) FoS, Integrated Meteorological System (IMETS) FoS, Digital Topographic Support System (DTSS) FoS, Counterintelligence and Interrogation Operations (CI&I Ops) workstation, Guardrail Common Sensor Intelligence Processing Facility/Guardrail Ground Baseline, Common Ground Station, Prophet Control, and Enhanced Trackwolf processing capabilities. DCGS-A will continue to develop software packages to be embedded into mission command and other select systems providing future enhanced ISR/analytic capabilities.

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<td>192.038</td>
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Exhibit P-40, Budget Line Item Justification: PB 2016 Army  

Appropriation / Budget Activity / Budget Sub Activity:  
2035A: Other Procurement, Army / BA 02: Communications and Electronics  
Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

P-1 Line Item Number / Title:  
BZ7316 / DCGS-A (MIP)

ID Code (A=Service Ready, B=Not Service Ready):  

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<td>- / 260.268</td>
<td>- / 54.140</td>
<td>- / 314.408</td>
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</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:  
FY2016 Base funding in the amount of $260.268 million will modernize and procure components for the DCGS-A fixed Sites, mobile variants and Program of Record (POR) systems transitioned to the DCGS-A capability. DCGS-A hardware and software will be integrated into select ISR Current Force POR systems, generating a cost savings, to network enable and provide enhanced ISR PED capabilities IAW the Army’s Equipping Strategy. Funding supports the DARPL by equipping and training next deployers with the current DCGS-A software release. Funding also procures new COTS software licenses to enhance performance of fielded systems, as well as supports integration of Intelligence Community investments. DCGS-A supports the Army’s Geospatial Transformation by providing an integrated visualization capability for intelligence, terrain, and weather effects in a net centric environment.

FY2016 OCO funding in the amount of $54.140 million is required to reset and recapitalize 1 Operational Intelligence Ground Station (OGS), 13 Geospatial Intelligence (GEOINT) Workstations (GWS), and 5 Tactical Intelligence Ground Stations (TGS).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
**Exhibit P-5, Cost Analysis:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80

**P-1 Line Item Number / Title:** BZ7316 / DCGS-A (MIP)

**Item Number / Title [DODIC]:** BZ7316 / DCGS-A (MIP)

**Date:** February 2015

### Resource Summary

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<th>FY 2015</th>
<th>FY 2016 Base</th>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>137.990</td>
<td>192.038</td>
<td>260.268</td>
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*Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.*

### Cost Elements

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*Note: The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.*
### Exhibit P-5, Cost Analysis: PB 2016 Army

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**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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Exhibit P-5, Cost Analysis: PB 2016 Army

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<td>BZ7316 / DCGS-A (MIP)</td>
<td>BZ7316 / DCGS-A (MIP)</td>
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ID Code (A=Service Ready, B=Not Service Ready) : MDAP/MAIS Code:

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(†) indicates the presence of a P-5a
**Exhibit P-5a, Procurement History and Planning:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80

**P-1 Line Item Number / Title:** BZ7316 / DCGS-A (MIP)

**Item Number / Title [DODIC]:** BZ7316 / DCGS-A (MIP)

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**Remarks:**

Based on the approved Army Cost Position in preparation for the Full Deployment Decision, the program office has updated the P-form to reflect software, system integration, engineering change proposals, and engineering support costs separately from the system unit costs.

All DCGS-A hardware is comprised solely of COTS equipment.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

P-1 Line Item Number / Title:
BZ8401 / Joint Tactical Ground Station (JTAGS)

Date: February 2015

Resource Summary

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<th>FY 2016 OCO</th>
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<th>FY 2019</th>
<th>FY 2020</th>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | 3,906.000 | - | 3,906.000 | - | - | - | - | 1.951 |

Description:
The Joint Tactical Ground Station (JTAGS) system provides the Army's only in-theater capability for directly downloading raw data from the Defense Support Program satellites, processing this data into ballistic missile early warnings, alerting, cueing, and disseminating that information reliably to theater combatant commanders. JTAGS, fielded since 1997, currently has five ground stations, and is deployed in three theaters (PACOM, EUCOM, and CENTCOM). Obsolescence issues coupled with the desire to take advantage of the Air Force's investment in newer satellites (Space Based Infrared System, SBIR) and their improved warning accuracy and timeliness, led to the Army's approval/initiation of the JTAGS Pre-Planned Product Improvement (P3I) program. JTAGS Approved Acquisition Objective (AAO) is five systems.

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### Justification:
FY16 base procurement dollars in the amount of $3.906 million procures re-configured and upgraded hardware/software ground stations developed via the JTAGS P3I Block 2 Phase 1 development/modification program.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."
**Exhibit P-3a, Individual Modification:** PB 2016 Army  

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A / 02 / 80  

**P-1 Line Item Number / Title:**  
BZ8401 / Joint Tactical Ground Station (JTAGS)  

**Modification Number / Title:**  
BZ8420 / NA  

**Date:** February 2015

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### Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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**Total:**  

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**Description:**  

FY2016 base funding $3.906 million procures re-configured and upgraded hardware/software ground stations developed via the JTAGS P3I Block 2 Phase 1 development program. The JTAGS P3I Block 2 Phase 1 systems will take advantage of the Air Force’s investment in new Space Based Infrared System (SBIR) Geosynchronous satellites. Phase 1 includes new SBIR scanner capabilities, updated hardware, software/communication systems, and de-sheltering the system.
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### Installation Cost

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### Installation Schedule

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## Description:

TROJAN, as an Army Intelligence system, has been providing direct support and an operational readiness capability to soldiers since 1983. TROJAN exists to provide value added to the tactical commander with remote access to signal environments, in order to maintain a high state of operational readiness and enhance the training and sustainment of highly perishable intelligence skills. Additionally, the TROJAN architecture provides the infrastructure enabling split-based and force protection operations in direct support of the warfighter.

TROJAN NexGEN, formerly TROJAN Classic XXI (TCXXI) advances the tactical commanders' readiness in the areas of training (technical and operational signals intelligence (SIGINT)), operational intelligence production and dissemination, and operational support to split-based intelligence operations supporting force protection operations. TROJAN NexGEN's principle use is to provide remote access to target environments, enabling split-based operations from a sanctuary by being the gateway interface to environments of immediate relevance to every supported commander's priority intelligence requirements. In addition, NexGEN will continue its role as an operational readiness system, while also supporting commanders' intelligence requirements across the spectrum of conflict.

TROJAN NexGEN is an intelligence and electronic warfare (IEW) system that supports the increased readiness of key mobilization personnel in preparation for actions in the mission areas of The Army Plan (TAP). NexGEN is capable of maintaining operational readiness status of unit personnel supporting the full spectrum of military operations as outlined in the Army Strategic Planning Guidance and Army Planning Guidance sections of the TAP.

TROJAN NexGEN provides operational readiness capability to an Army commander employing a rapid global response capability to any level of military conflict throughout the seven mission areas. By employing reach technology relay capabilities between the forward deployed sensors and the sanctuary-based Remote Operational Facilities (ROFs), NexGEN can meet the operational deployment timelines through the use of readiness training venues to meet the requirements of units from Brigade Combat Teams through Corps and Echelon Above Corps (EAC). This operational concept provides the unique capability to remotely control the sensors and direction finding capabilities of the Deployable Collection Assets (DCAs) and process and analyze the collected information for timely reporting of time-sensitive information to the forward deployed Army, Joint Service and Multi-National warfighters.

TROJAN SPIRIT provides Army units with dedicated, secure, high capacity, Sensitive Compartmented Information high intelligence data processing and communications. It provides a rapidly deployable, multi-level security, processor-to-processor, high capacity communications capability, and supports tactical to strategic reach-back, essential to split-based operations.

All funding goes to the Active Component.

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |

### P-40, Budget Line Item Justification:

**PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**

2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

**P-1 Line Item Number / Title:**

BA0326 / TROJAN (MIP)

**ID Code (A=Service Ready, B=Not Service Ready):**

**Program Elements for Code B Items:**

**Other Related Program Elements:**

0303032A
**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

**P-1 Line Item Number / Title:**  
BA0326 / TROJAN (MIP)

**ID Code (A=Service Ready, B=Not Service Ready):**

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**Secondary Distribution**

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UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

P-1 Line Item Number / Title: BA0326 / TROJAN (MIP)

Date: February 2015

Justification:
FY2016 Base funding in the amount $13.929 million funds collection and processing system upgrades required to maintain the TROJAN NexGEN system strategic architecture commonality. These enhancements were commonly known as TROJAN Classic XXI and are now referred to as TROJAN Ground SIGINT NexGEN. Funding is used for the procurement of material (hardware/software) in support of planned TROJAN NexGEN upgrades and fielding activities to include fixed and mobile collection platforms, multi-band signal search and acquisition survey systems, fielding, modernization of existing sites, and upgrades to Network Control Centers to support NSA-approved architecture for network infrastructures.

Funds also procure pre-planned product improvements to all of the fielded and to be fielded TROJAN SPIRIT LITE (V1/(V)2/(V)3 systems to include bulk transport (bulk encrypted) network upgrades, increased bandwidth upgrades to Mbps throughput, X and Ka Band upgrades, replacement of end-of-life or outdated hardware, and TROJAN Network Control Center (TNCC)/TROJAN Network Operations Center (TNOC) upgrades.

FY2016 OCO funding in the amount of $6.542 million funds the upgrades and support of TROJAN SPIRIT systems required for current and emerging operational missions.

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80

P-1 Line Item Number / Title: BA0326 / TROJAN (MIP)

Item Number / Title [DODIC]: BA0331 / TROJAN CLASSIC (MIP)

ID Code (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code:

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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>7.693</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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Note: P-5a indicates the presence of a P-5a
### Cost Elements

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**Remarks:**

CACI is the prime contractor for TROJAN NexGEN and TROJAN SPIRIT. The period of performance for base and option years is 21 June to 20 June. Option Year 2 ends on 20 June 2015. A follow-on contract will be awarded (base year and 2 option years) no later than 21 June 2015.

All items procured are COTS/GOTS.
## Exhibit P-5, Cost Analysis: PB 2016 Army

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)
- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

### Gross/Weapon System Unit Cost ($ in Thousands)
- FY 2014: -
- FY 2015: -
- FY 2016 Base: 266.822
- FY 2016 OCO: -
- FY 2016 Total: 266.822

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

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<th>Army</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
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<tbody>
<tr>
<td>Quantity</td>
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UNCLASSIFIED
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

**P-1 Line Item Number / Title:** BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)

### Resource Summary

<table>
<thead>
<tr>
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<td>-</td>
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<td>-</td>
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</tr>
<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

(All Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Description:

Special Purpose Systems (BZ9751): Technical Insertions (TI) will be made to the ground-based Signals Intelligence (SIGINT) system with additional capabilities required by theater units to effectively engage enemy forces and prove Force Protection information to friendly forces. Procure government and commercial off-the-shelf (GOTS/COTS) Next Generation SIGINT capabilities that are theater specific and enable the Prophet system to address specific threats and Signals of Interest (SOI). Prophet Enhanced (PE) is the tactical commander's sole organic ground-based SIGINT/Electronic Warfare system for the Brigade Combat Team (BCT), Stryker Brigade Combat Team (SBCT), and Battlefield Surveillance Brigade (BSB). Its primary mission is to provide 24-hour situation development and information superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. PE provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations (Stationary-Fixed, Mobile and Manpack). It also incorporates the ability for rapid integration of TI and pre-planned product improvements to ensure operational relevance.
UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

P-1 Line Item Number / Title:
BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)

Date: February 2015

Program Elements for Code B Items:

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Exhibits Schedule</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP)</td>
<td>P-5, P-5a, P-21</td>
<td>/ 117.443</td>
<td>/ 1.927</td>
<td>/ 3.901</td>
<td>/ 3.978</td>
<td>/ 3.978</td>
</tr>
<tr>
<td>Total Gross/Weapon System Cost</td>
<td>/ 117.443</td>
<td>/ 1.927</td>
<td>/ 3.901</td>
<td>/ 3.978</td>
<td>/ 3.978</td>
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</tr>
</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:

FY 2016 Base procurement funding in the amount of $3.978 million is for TI, integration, and product upgrades (hardware and/or software) to increase system performance, to include but not limited to: enhanced Manpack capability (integration/test and accreditation of updates), tuner upgrade, processor upgrade, antenna upgrade, operating system upgrade, and receiver software upgrade for Prophet systems to ensure the product remains relevant.

All funding is for the Active component.

LI BZ9750 - Mod of In-Svc Equip (INTEL SPT) (MIP)

UNCLASSIFIED
Page 2 of 7

P-1 Line #60
### Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>117.443</td>
<td>1.927</td>
<td>3.901</td>
<td>3.978</td>
<td>3.978</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>117.443</td>
<td>1.927</td>
<td>3.901</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
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<td>Total Obligation Authority ($ in Millions)</td>
<td>117.443</td>
<td>1.927</td>
<td>3.901</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

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<th>Prior Years</th>
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<th>FY 2016 OCO</th>
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<tbody>
<tr>
<td>Flyaway Cost</td>
<td>-</td>
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<tr>
<td>Recurring Cost</td>
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<tr>
<td>Next Generation Stationary Receiver&lt;sup&gt;(†)&lt;/sup&gt;</td>
<td>-</td>
<td>-</td>
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<td>780.500</td>
<td>2</td>
<td>1.561</td>
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<tr>
<td>Advanced Processor&lt;sup&gt;(†)&lt;/sup&gt;</td>
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<td>1</td>
<td>117,443</td>
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<td>SIGINT Hardware&lt;sup&gt;(†)&lt;/sup&gt;</td>
<td>-</td>
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<td>397,800</td>
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<tr>
<td>Subtotal: Recurring Cost</td>
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<td>1.927</td>
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<tr>
<td>Gross/Weapon System Cost</td>
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<td>-</td>
<td>117,443</td>
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<td>1.927</td>
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</table>

<sup>(†)</sup> indicates the presence of a P-5a

### Secondary Distribution

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<tr>
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<th>FY 2015</th>
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<tbody>
<tr>
<td>Quantity</td>
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<td>Total Obligation Authority</td>
<td>1.927</td>
<td>3.901</td>
<td>3.978</td>
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<table>
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<th>FY 2016 OCO</th>
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<tbody>
<tr>
<td>Quantity</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority</td>
<td>1.927</td>
<td>3.901</td>
<td>3.978</td>
<td>-</td>
<td>3.978</td>
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</tbody>
</table>
### Cost Elements | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($K) | Specs Avail Now? | Date Revision Available | RFP Issue Date
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Next Generation Stationary Receiver (†) | 2015 | General Dynamics C4 Division / Scottsdale, AZ | C / FFP | APG, MD | Feb 2015 | Oct 2015 | 2 | 780.500 | | | |
Advanced Processor (†) | 2014 | General Dynamics C4 Division / Scottsdale, AZ | C / FFP | APG, MD | Mar 2014 | Oct 2014 | 6 | 321.200 | | | |
Advanced Processor (†) | 2015 | General Dynamics C4 Division / Scottsdale, AZ | C / FFP | APG, MD | Feb 2015 | Oct 2015 | 6 | 390.000 | | | |
Next Generation SIGINT Hardware (†) | 2016 | General Dynamics C4 Division / Scottsdale, AZ | C / FFP | APG, MD | Mar 2016 | Oct 2016 | 10 | 397.800 | | | |

(†) indicates the presence of a P-21

**Remarks:**
Next Generation SIGINT H/W includes, but is not limited to, antennas, tuner cards, receiver cards, memory cards and power amps.
**Exhibit P-21, Production Schedule:** PB 2016 Army

**UNCLASSIFIED**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 80

**Date:** February 2015

**P-1 Line Item Number / Title:**
BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)

**Item Number / Title [DODIC]:**
BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP)

### Cost Elements

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<th>FY</th>
<th>SERVICE</th>
<th>PROC</th>
<th>QTY</th>
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**Next Generation Stationary Receiver**

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<th>CTR</th>
<th>FY</th>
<th>SERVICE</th>
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<th>QTY</th>
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<tbody>
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<tr>
<td></td>
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**Advanced Processor**

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<th>FY</th>
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<th>PROC</th>
<th>QTY</th>
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<tr>
<td>O #</td>
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**Next Generation SIGINT Hardware**

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<th>CTR</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC</th>
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<tr>
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<td>ARMY</td>
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### Exhibit P-21, Production Schedule: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 80

#### P-1 Line Item Number / Title:
BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)

#### Item Number / Title [DODIC]:
BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP)

### Cost Elements (Units in Each)

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#### Fiscal Year 2016

- **Next Generation Stationary Receiver**
  - 2015 ARMY: 2, -
  - 2014 ARMY: 6, 6
  - 2015 ARMY: 6, 6

#### Fiscal Year 2017

- **Advanced Processor**
  - Prior Years Deliveries: 1

- **Next Generation SIGINT Hardware**
  - 2016 ARMY: 10, -
  - 2015 ARMY: 10, -

### Next Generation Stationary Receiver

- 2015 ARMY: 2

### Advanced Processor

- Prior Years Deliveries: 1

### Next Generation SIGINT Hardware

- 2016 ARMY: 10

---

LI BZ9750 - Mod of In-Svc Equip (INTEL SPT) (MIP)
### Exhibit P-21, Production Schedule: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 80

#### P-1 Line Item Number / Title:
BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP)

#### Item Number / Title [DODIC]:
BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP)

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<table>
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<th>MFR Name - Location</th>
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<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
<th>Initial</th>
<th>Procurement Leadtime (Months)</th>
<th>Reorder</th>
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</thead>
</table>
| 1 **General Dynamics C4**
  Division - Scottsdale, AZ | 2 | 30 | 60 | - | - | - | - |
| 2 **General Dynamics C4**
  Division - Scottsdale, AZ | 2 | 30 | 60 | - | - | - | - |
| 3 **General Dynamics C4**
  Division - Scottsdale, AZ | 2 | 30 | 60 | - | - | - | - |

*“A” in the Delivery Schedule indicates the Contract Award Date.
Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).*
The Counterintelligence (CI) and Human Intelligence (HUMINT) Automated Reporting and Collection System (CHARCS) is the Army's CI and HUMINT tactical collection and reporting system. CHARCS provides automation support for information collection, reporting, investigations, source & interrogation operations and document exploitation. The CHARCS automation architecture extends from the individual HUMINT team soldier or CI agent to the Corps. CHARCS reports digital data such as maps, overlays, images, video, biometrics, scanned documents and audio files. These media are transmitted through secure networks and interfaces with the Distributed Common Ground Systems-Army (DCGS-A) for detailed analysis and creation of finished intelligence products. Collection and reporting teams at Military Intelligence (MI) battalions and their operational managers are equipped with one of two CHARCS systems. The first is the AN/PYQ-8 Individual Tactical Reporting Tool (ITRT) which provides collection and processing devices for individual HUMINT team member or CI agents. The second is the AN/PYQ-3 CI/HUMINT Automated Tool Set (CHATS) which provides the team leader (who normally directs 3-5 team members) and Operational Management Team (OMT) tools to process and manage team-collected information and a robust set of devices such as printers, scanners, and cameras to assist the collection mission. The CHATS is also used by Operational Management Team (OMT) (who normally directs 3-5 collection and reporting teams). Each CHATS has an associated Mission Support Peripheral Sets and Kits (MS-PSK) or Collection Peripheral Sets and Kits (C-PSK).

The C-PSK provides specialized collection component capabilities to support CI/HUMINT collection missions. C-PSK capabilities are commercial-off-the-shelf (COTS) technologies and include video and camera equipment, global positioning system (GPS), voice recording device and infrared strobe lights. The MS-PSK provides specialized collection component capabilities to support CI/HUMINT collection missions. MS-PSK capabilities are COTS technologies and include night vision photography & video, captured materiel tracking, digital media forensics software, Document Exploitation (DOCEX) software.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army  

Appropriation / Budget Activity / Budget Sub Activity:  
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)  

P-1 Line Item Number / Title:  
BK5275 / CI HUMINT Auto Reprtng and Coll(CHARCS)  

ID Code (A=Service Ready, B=Not Service Ready):  

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<td></td>
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LI BK5275 - CI HUMINT Auto Reprtng and Coll(CHARCS)  

UNCLASSIFIED  

UNCLASSIFIED  

Page 2 of 6  

P-1 Line #61
Exhibit P-40, Budget Line Item Justification: PB 2016 Army  

### Appropriation / Budget Activity / Budget Sub Activity: 
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)  

### P-1 Line Item Number / Title: 
BK5275 / CI HUMINT Auto Reprtng and Coll(CHARCS)  

### ID Code (A=Service Ready, B=Not Service Ready) : 

<table>
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<tr>
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<th>Other Related Program Elements:</th>
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<tbody>
<tr>
<td>Program Elements for Code B Items:</td>
<td>Other Related Program Elements:</td>
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</tr>
<tr>
<td>Title*</td>
<td>Exhibits</td>
<td>Prior Years</td>
</tr>
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<td></td>
<td>Exhibits</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
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</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

### Justification:

FY2016 Base funding in the amount of $7.542 million procures mission equipment, supports fielding, training, logistic and mission equipment refresh to Dynamic Army Resourcing Priority List (DARPL) units.

FY2016 OCO funding in the amount of $3.860 million is for DOD Biometrics program office to separately procure Biometric Automated Toolsets - Army (BAT-A) device quantities to reset and refresh.

CHARCS AAO: 5198 (CHATS and ITRTs)

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | 20.693 | - | 20.693 |

### Cost Elements

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<th>FY 2015</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td>Flyaway Cost</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Recurring Cost</td>
<td></td>
<td></td>
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<tr>
<td>--CHATS(†)</td>
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<td>--Replacement Parts(†)</td>
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<td>-</td>
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<td>--Laptops &amp; Handhelds for CHATS and IRRTs(†)</td>
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<td>Bio Handheld Devices (PM Biometrics)(†)</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
## Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 80

**P-1 Line Item Number / Title:**
BK5275 / CI HUMINT Auto Reprtng and Coll(CHARCS)

**Item Number / Title [DODIC]:**
BK5275 / CI HUMINT Auto Reprtng and Coll(CHARCS)

### ID Code (A=Service Ready, B=Not Service Ready):

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### Note:
Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

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<th>FY 2015</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td></td>
<td>Unit Cost ($ K)</td>
<td>Qty (Each)</td>
<td>Total Cost ($ M)</td>
<td>Unit Cost ($ K)</td>
<td>Qty (Each)</td>
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### Secondary Distribution

<table>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quantity</td>
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<tr>
<td>Army</td>
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<tr>
<td>ANG</td>
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<tr>
<td>AR</td>
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<td>Total: Secondary Distribution</td>
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</tr>
<tr>
<td>Quantity</td>
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(†) indicates the presence of a P-5a
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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<td>C / FFP</td>
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<td>Mar 2014</td>
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<td>C / FFP</td>
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<td>Mar 2014</td>
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<td>--Replacement Parts</td>
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<td>Mar 2015</td>
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<td>--Laptops &amp; HDs for CHATS and ITRTs</td>
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<td>C / CPFF</td>
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<td>C / CPFF</td>
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<td>437</td>
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Remarks:
Equipment is comprised solely of COTS equipment with COTS/GOTS software.
**Description:**

Close Access Target Reconnaissance (CATR) is a kit of electronic devices that collect, send back, and acquire data to provide near real time feedback in order to validate, follow, locate, or track a target (i.e., tagging, tracking, and locating (TTL)). CATR will use electronic audio and or video recorders to obtain information which is used to validate movement and identify targets. In addition, CATR allows for threat monitoring that can be integrated into existing operational tools, help to paint a clearer picture of the battlefield, pinpoint possible target locations, and identify and exploit enemy movements and patterns.

This program is a new start in FY 2016.

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**Resource Summary**

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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>8.010</td>
<td>-</td>
<td>8.010</td>
<td>8.031</td>
<td>8.083</td>
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<td>8.066</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>8.010</td>
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<td>8.010</td>
<td>8.031</td>
<td>8.083</td>
<td>7.995</td>
<td>8.066</td>
<td>Continuing</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<td>8.083</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**

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</thead>
<tbody>
<tr>
<td>Flyaway Unit Cost ($ in Thousands)</td>
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<tr>
<td>Gross/Weapon System Unit Cost ($ in Thousands)</td>
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<td>-</td>
<td>-</td>
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<table>
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<td>-</td>
<td>8.010</td>
<td>-</td>
<td>8.010</td>
<td>8.031</td>
<td>8.083</td>
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**Secondary Distribution**

<table>
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</thead>
<tbody>
<tr>
<td>Army</td>
<td>Quantity</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority</td>
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<td>8.010</td>
<td>-</td>
<td>8.010</td>
<td>8.031</td>
<td>8.083</td>
</tr>
</tbody>
</table>

This program is a new start in FY 2016.
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics

**ID Code** (A=Service Ready, B=Not Service Ready):

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<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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### Exhibit Schedule

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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</thead>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**
FY 2016 Base procurement dollars in the amount of $8.010 million supports the fielding of 24 CATR sets to four (4) Brigade Combat teams (BCTs). Funds will re-kit CATR sets/systems into the Program of Record (POR) configuration, using equipment from the CATR Quick Reaction Capability (QRC) program.
### Exhibit P-5, Cost Analysis: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 80

#### P-1 Line Item Number / Title:
B10001 / Close Access Target Reconnaissance (CATR)

#### Item Number / Title [DODIC]:
B10002 / Close Access Target Recon Increment 1 (CATR)

#### ID Code (A=Service Ready, B=Not Service Ready):

#### MDAP/MAIS Code:

<table>
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<th>Resource Summary</th>
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<th>FY 2016 OCO</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>8.010</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>8.010</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
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<td></td>
<td>8.010</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) |             |         |         |              |             |              |
| Gross/Weapon System Unit Cost ($ in Thousands) |             |         |         | 333.750      |             | 333.750      |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

#### Cost Elements

<table>
<thead>
<tr>
<th>Flyaway Cost</th>
<th>Total Cost ($ M)</th>
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<tbody>
<tr>
<td>Recurring Cost</td>
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#### Secondary Distribution

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>Quantity</td>
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<tr>
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</tbody>
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**Description:**
The Machine Foreign Language Translation System (MFLTS) program develops, fields, and sustains a basic automated foreign speech and text translation capability into Army acquisition systems, to augment and complement limited human linguistic resources. These integrated automated translation capabilities will be applicable across three different system configurations; a hand-held/wearable portable device, a laptop or mobile device, and in a networked/web-enabled system. The software modules will translate English into a prioritized listing of languages in a prioritized collection of domains (i.e. medical, intelligence, base security). MFLTS will be interoperable with Commercial Off-The-Shelf (COTS) or Government Off-The-Shelf (GOTS) automation equipment to include the Distributed Common Ground System-Army (DCGS-A), Ground Soldier Ensemble, Counterintelligence Human Intelligence Automated Reporting and Collection System (CHARCS).

This program is a new start in FY 2016.

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</thead>
<tbody>
<tr>
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<td>-</td>
<td>-</td>
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<td>32.745</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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(Initial Spares ($ in Millions)) | - | - | - | - | - | - | - | - | - | - | - | - |

(Flayaway Unit Cost ($ in Thousands)) | - | - | - | - | - | - | - | - | - | - | - | - |

(Gross/Weapon System Unit Cost ($ in Thousands)) | - | - | - | - | - | - | - | - | - | - | - | - |

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<tbody>
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</table>
### Justification:
FY 2016 Base procurement dollars in the amount of $8.125 million supports production of the MFLTS Initial Capability software and software licenses.

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<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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<tbody>
<tr>
<td>B88605 / Machine Foreign Language Translation System-MFLTS</td>
<td>P-5</td>
<td></td>
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<tr>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>FY 2014</td>
<td>FY 2015</td>
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Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80
P-1 Line Item Number / Title: B88605 / Machine Foreign Language Translation System-MFLTS

ID Code (A=Service Ready, B=Not Service Ready): 

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<th>FY 2015</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
<td>8.125</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>24.620</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements

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<th>FY 2015</th>
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<td>PMO support</td>
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<td>Subtotal: Recurring Cost</td>
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<table>
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<tr>
<th>Hardware Cost</th>
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<th>FY 2015</th>
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<tr>
<td>Quick Reaction Capabilities (QRC)</td>
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Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80

**P-1 Line Item Number / Title:** B88605 / Machine Foreign Language Translation System-MFLTS

**Item Number / Title [DODIC]:** B88605 / Machine Foreign Language Translation System-MFLTS

**Date:** February 2015

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<thead>
<tr>
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<td>(A=Service Ready, B=Not Service Ready)</td>
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<tr>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Army</td>
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<tr>
<td>Quantity</td>
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<td>Total Obligation Authority</td>
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<tr>
<td>Secondary Distribution</td>
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<td>8.125</td>
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</table>

**Army Total Obligation Authority:** 8.125

**Total:** 8.125
Description:
The AN/TPQ-50 (formerly known as AN/TPQ-48(V)3) Lightweight Counter Mortar Radar (LCMR) is a digitally connected, day/night mortar, cannon, and rocket locating system. It is used to detect, locate, track, and report enemy indirect firing systems and provides the ability to observe friendly fire. The AN/TPQ-50 is capable of being deployed in two configurations, standalone or vehicle mounted. It can be set up and operational in 20 minutes and disassembled in 10 minutes. The AN/TPQ-50 is deployed as part of a System of Systems for the Counter-Rocket, Artillery, Mortar (C-RAM) construct or Rocket, Artillery, Mortar (RAM) Warn. It provides data to the Forward Area Air Defense Command and Control (FAAD C2) node for the sense and warn force protection capability at fixed and semi-fixed sites. It provides 360 degrees of azimuth coverage from ranges of 500 meters to 10 kilometer. The AN/TPQ-50 is a program of record with a demonstrated combat record with systems currently fielded to multiple Continental United States (CONUS) and Outside Continental United States (OCONUS) locations and currently scheduled for deployment to Operation Freedom's Sentinel in FY15.

Army Acquisition Objective (AAO): 400

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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>516.860</td>
<td>98.535</td>
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<td>63.472</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | 1,763.111 | - | 1,763.111 | - | - | - | - | - | Continuing | - |

Secondary Distribution:

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Total Obligation Authority

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</table>

Total Obligation Authority

LI B05201 - Lightweight Counter Mortar Radar Army
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

P-1 Line Item Number / Title:
B05201 / Lightweight Counter Mortar Radar

Date: February 2015

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

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<th>Title*</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Quantity / Total Cost (Each) / ($ M) FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
Fiscal Year (FY) 2016 Base procurement dollars in the amount of $63.472 million supports the procurement of thirty-six (36) AN/TPQ-50 Full Rate Production (FRP) systems. Current force structure is two (2) radars per Division Artillery (DIVARTY) and four (4) radars per Brigade Combat Team (BCT).

In accordance with Section 1815 of the Fiscal Year (FY) 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
## Resource Summary

<table>
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<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>516.860</td>
<td>98.535</td>
<td>24.828</td>
<td>63.472</td>
<td>63.472</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>516.860</td>
<td>98.535</td>
<td>24.828</td>
<td>63.472</td>
<td>63.472</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>98.535</td>
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<td>63.472</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

## Cost Elements

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<tr>
<td>Subtotal: Flyaway Cost</td>
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<td>516.860</td>
<td>-</td>
<td>-</td>
<td>98.535</td>
<td>-</td>
</tr>
</tbody>
</table>

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

---

**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 83

**P-1 Line Item Number / Title:** B05201 / Lightweight Counter Mortar Radar

**Item Number / Title [DODIC]:** B05201 / Lightweight Counter Mortar Radar

**Date:** February 2015

**Resource Summary**

- Procurement Quantity (Units in Each)
  - Prior Years
  - FY 2014
  - FY 2015
  - FY 2016 Base
  - FY 2016 OCO
  - FY 2016 Total

- Gross/Weapon System Cost ($ in Millions)
  - Prior Years
  - FY 2014
  - FY 2015
  - FY 2016 Base
  - FY 2016 OCO
  - FY 2016 Total

- Less PY Advance Procurement ($ in Millions)
  - Prior Years
  - FY 2014
  - FY 2015
  - FY 2016 Base
  - FY 2016 OCO
  - FY 2016 Total

- Net Procurement (P1) ($ in Millions)
  - Prior Years
  - FY 2014
  - FY 2015
  - FY 2016 Base
  - FY 2016 OCO
  - FY 2016 Total

- Plus CY Advance Procurement ($ in Millions)
  - Prior Years
  - FY 2014
  - FY 2015
  - FY 2016 Base
  - FY 2016 OCO
  - FY 2016 Total

- Total Obligation Authority ($ in Millions)
  - Prior Years
  - FY 2014
  - FY 2015
  - FY 2016 Base
  - FY 2016 OCO
  - FY 2016 Total

**Cost Elements**

- Unit Cost ($ K)
- Qty (Each)
- Total Cost ($ M)
- Unit Cost ($ K)
- Qty (Each)
- Total Cost ($ M)
- Unit Cost ($ K)
- Qty (Each)
- Total Cost ($ M)
- Unit Cost ($ K)
- Qty (Each)
- Total Cost ($ M)
- Unit Cost ($ K)
- Qty (Each)
- Total Cost ($ M)

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
<table>
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<tr>
<th>Secondary Distribution</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
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(†) indicates the presence of a P-5a
## Exhibit P-5a, Procurement History and Planning: PB 2016 Army

### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 83

### P-1 Line Item Number / Title:
B05201 / Lightweight Counter Mortar Radar

### Item Number / Title [DODIC]:
B05201 / Lightweight Counter Mortar Radar

<table>
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<tr>
<th>Cost Elements</th>
<th>O C O</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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(†) indicates the presence of a P-21

**Remarks:**
FY14 contract awards were based on release of funding.
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<tr>
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<th>Calendar Year 2015</th>
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<td>M OR O #</td>
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<td>PROCUREMENT DUE AS OF 1 OCT 2013</td>
<td>ACCEPT PRIOR TO 1 OCT 2013</td>
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<tr>
<td>1</td>
<td>2014</td>
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**Cost Elements (Units in Each)**

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<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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**Hardware AN/TPQ-50 (LCMR V3)**

<table>
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<th>M</th>
<th>O</th>
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<th>R</th>
<th>FY</th>
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<th>PROC QTY</th>
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<td>ARMY</td>
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### LI B05201 - Lightweight Counter Mortar Radar

**UNCLASSIFIED**

**Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**

2035A / 02 / 83

**P-1 Line Item Number / Title:**

B05201 / Lightweight Counter Mortar Radar

**Item Number / Title [DODIC]:**

B05201 / Lightweight Counter Mortar Radar

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### Exhibit P-21, Production Schedule: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 83

#### P-1 Line Item Number / Title:
B05201 / Lightweight Counter Mortar Radar

#### Item Number / Title [DODIC]:
B05201 / Lightweight Counter Mortar Radar

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### Cost Elements (Units in Each)

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</table>

<table>
<thead>
<tr>
<th>M</th>
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<th>F</th>
<th>R</th>
<th>O</th>
<th>#</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC QTY</th>
<th>ACCEPT PRIOR TO 1 OCT 2017</th>
<th>BAL DUE AS OF 1 OCT 2017</th>
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<tbody>
<tr>
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<td>2014</td>
<td>ARMY (IV)</td>
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### Fiscal Year 2018

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<thead>
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<tr>
<td>3</td>
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</table>

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Service/Agency Suffixes:

(iv) Second Buy
Description:
Electronic Warfare Planning and Management Tools (EWPMT) will provide planning capabilities to coordinate, manage, and deconflict unit Electronic Warfare (EW) activities; employ EW assets to conduct offensive EW targeting, and synchronize EW spectrum operations with an Effects/Fires Cell as an element of Mission Command. EWPMT is a suite of software tools and applications that will provide a spectrum Common Operating Picture (COP) for the Electronic Warfare Officer (EWO). EWPMT will integrate data elements from Mission Command, Intelligence, and Fires to achieve situational awareness of the Electromagnetic Operational Environment.

Justification:
FY2016 Base procurement dollars in the amount of $2.556 million supports training and fielding of the EWPMT system to achieve an Initial Operational Capability (IOC) in FY2016.
**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**P-1 Line Item Number / Title:** W60001 / Air Vigilance (AV)

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

---

### ID Code (A=Service Ready, B=Not Service Ready) :

- **Program Elements for Code B Items:**
  - Other Related Program Elements: 0603766A, 0605766A

### Resource Summary

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<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>To Complete</th>
<th>Total</th>
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</thead>
<tbody>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>7.000</td>
<td>8.224</td>
<td>-</td>
<td>8.224</td>
<td>0.739</td>
<td>1.526</td>
<td>2.485</td>
<td>2.533 Continuing</td>
<td>Continuing</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>-</td>
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<td>8.224</td>
<td>-</td>
<td>8.224</td>
<td>0.739</td>
<td>1.526</td>
<td>2.485</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>8.224</td>
<td>-</td>
<td>8.224</td>
<td>0.739</td>
<td>1.526</td>
<td>2.485</td>
<td>2.533 Continuing</td>
<td>Continuing</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

- **Initial Spares ($ in Millions)**: -
- **Flyaway Unit Cost ($ in Thousands)**: -
- **Gross/Weapon System Unit Cost ($ in Thousands)**: -

---

**Description:**

Air Vigilance systems collect critical intelligence data on emerging threat aerial systems. The intelligence data provides early warning of operations in restricted airspace to ensure force protection. An Air Vigilance system is comprised of a key ‘Hub’ server unit configured and fielded with a single or multiple sub-component sensors. System Quantities are based upon ‘Hub’ units. Operational details are classified.
Justification:
FY 2016 Base procurement dollars in the amount of $8.224 million procures hardware and software components for the operational force and provides for New Equipment Training. All funding is for Compo 1 (Active Component).
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 83  
**P-1 Line Item Number / Title:** W60001 / Air Vigilance (AV)  
**Item Number / Title [DODIC]:** W60001 / Air Vigilance (AV)

**Date:** February 2015  
**ID Code (A=Service Ready, B=Not Service Ready):**

<table>
<thead>
<tr>
<th>Resource Summary</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
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<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>-</td>
<td>8.224</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>Net Procurement (P1) ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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(†) indicates the presence of a P-5a

**Secondary Distribution**

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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
## Exhibit P-5a, Procurement History and Planning: PB 2016 Army

Date: February 2015

### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 83

### P-1 Line Item Number / Title:
W60001 / Air Vigilance (AV)

### Item Number / Title [DODIC]:
W60001 / Air Vigilance (AV)

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<th>OCO FY</th>
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<th>Location of PCO</th>
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<th>Qty (Each)</th>
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<th>Specs Avail Now?</th>
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<th>RFP Issue Date</th>
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</tr>
</tbody>
</table>

(†) indicates the presence of a P-21

**Remarks:**
The Air Vigilance program receives full RDT&E funding support in RDT&E 6.4 PE 0603766.907 "Tactical Exploitation of National Capabilities (MIP)" and RDT&E 6.5 PE 0605766.DX9 "National Integration to Tactical Systems (MIP)".

W60001 Line renamed to "Air Vigilance" in FY15.
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 83

**P-1 Line Item Number / Title:**
W60001 / Air Vigilance (AV)

**Item Number / Title [DODIC]:**
W60001 / Air Vigilance (AV)

**Date:** February 2015

#### Cost Elements (Units in Each)

<table>
<thead>
<tr>
<th>O M</th>
<th>F</th>
<th>C R</th>
<th>O #</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC QTY</th>
<th>ACCEPT PRIOR TO 1 OCT 2014</th>
<th>BAL DUE AS OF 1 OCT</th>
<th>Calendar Year 2015</th>
<th>Calendar Year 2016</th>
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<tbody>
<tr>
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</tbody>
</table>

**System Hub**

| 1   | 2015 | ARMY | 1   | -   | 1       | A       | -                           | 1                   | 1                   | 1                   |
| 1   | 2016 | ARMY | 3   | -   | 3       | A       | -                           | 1                   | 1                   | 1                   |

**Sensor**

| 2   | 2015 | ARMY | 10  | -   | 10      | A       | -                           | 1                   | 1                   | 1                   |
| 2   | 2016 | ARMY | 8   | -   | 8       | A       | -                           | 1                   | 1                   | 1                   |

### UNCLASSIFIED
**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 83

**P-1 Line Item Number / Title:**
W60001 / Air Vigilance (AV)

**Item Number / Title [DODIC]:**
W60001 / Air Vigilance (AV)

**Date:** February 2015

---

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>Production Rates (Each / Year)</th>
<th>Procurement Leadtime (Months)</th>
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<td>MSR For 2016</td>
<td>1-8-5 For 2016</td>
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<td>2</td>
<td>Classified - Classified</td>
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<td>12</td>
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</table>

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics / E 83: Elect Equip - Electronic Warfare (EW)

**P-1 Line Item Number / Title:** VA8000 / CREW

**Date:** February 2015

**UNCLASSIFIED**

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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td></td>
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<td>-</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>1,490.561</td>
<td></td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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<td></td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>1,490.561</td>
<td></td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | -       | -       | -       | -           | -           | -             | -       | -       | -       | -       |             |       |
| Flyaway Unit Cost ($ in Thousands) | -       | -       | -       | -           | -           | -             | -       | -       | -       | -       |             |       |
| Gross/Weapon System Unit Cost ($ in Thousands) | -       | -       | -       | -           | -           | -             | -       | -       | -       | -       |             |       |

**Description:**

The Counter Radio Controlled Improvised Explosive Devices (RCIED) Electronics Warfare (CREW) family of Electronic Counter Measure (ECM) systems are essential to provide force protection for fixed site facilities, vehicle platforms, mounted and dismounted variants for 24/7 operations. CREW Dismounted capabilities are designed to protect Soldiers while conducting dismounted operations.

This program is a new start in FY2016 for Dismounted CREW. FY2013 and prior funding supported the procurement of CREW-2 Duke systems.

**Justification:**

FY2016 Base procurement dollars in the amount of $2.960 million supports the activities required to obtain full materiel releases for CREW Dismounted Capabilities.

Description:

Persistent Surveillance Systems - Tethered (PSS-T) is a program comprised of Persistent Threat Detection System (PTDS) and Persistent Ground Surveillance System (PGSS). PSS-T has been assigned to Army Program Executive Office for Intelligence, Electronic Warfare and Sensors (PEO IEW&S). PTDS and PGSS are critical Quick Reaction Capability (QRC) programs consisting of tethered aerostats equipped with high resolution Electro-Optical/Infrared (EO/IR) camera systems and wide-area assessment sensors. Video collected by PSS-T is distributed to the Forward Operating Base and division commander information center as well as to quick reaction forces via personal digital assistant (PDA) displays, providing tactical commanders enhanced battlefield situational awareness.

PTDS - The baseline configuration includes the US Army Research Lab’s Unattended Transient Acoustic Measurement and Signature INTelligence (MASINT) System (UTAMS) which operationally cues the PTDS MX-20 EO/IR sensor to slew onto a target. The UTAMS is an acoustic sensor design consisting of sensor stations linked via radio to a base station. Each sensor station includes microphone arrays, signal processor, and display. The baseline PTDS also includes the Joint Synchronization Information Transmitter (JSIT) Mini-Tactical Common Data Link transmitter that transmits MX-20 video stream to ground forces equipped with One System Remote Video Terminal. Expendable-Unattended Ground Sensor (E-UGS) enhances the PTDS ability to detect enemy vehicle and footstep traffic and provides improved situational awareness and facilitate tactical response. PTDS continues to meet other urgent theater needs through system upgrades: adding High Antennas for Radio Communications (HARC) radio, the PRC-117G wide band radio, Tactical Targeting Network Technology (TTNT), Highband Networking Radio (HNR) as part of the aerial layer network extension architecture; transmitting weather data directly to Air Force Weather Agency (AFWA) via weather relay kits; added dual sensor capability; additional ground moving target indicator STARLite and wide area motion imagery Kestrel sensors, Persistent Surveillance Systems (PSS) Slew to Cue and Survivability enhancements.

The PGSS has been a highly successful example of quickly delivering urgently needed capabilities to the Warfighter at remote forward operating bases (FOBs). PGSS continues to meet other urgent theater needs through system upgrades: adding HARC radio, the PRC-117G wide band radio, Quint Networking Technology (QNT), and micro-Enhanced Position Location Reporting System (EPLRS) as part of the aerial layer network extension architecture; transmitting weather data directly to AFWA via PGSS Weather Web, added dual sensor capability; additional Vista, Kestrel, and wireless identification sensing platforms (WISP) sensors, PSS Slew to Cue, Precision Fires, and Survivability enhancements. Additionally, Expendable-Unattended Ground Sensor (E-UGS) enhances the PGSS ability to detect enemy vehicle and footstep traffic and provides improved situational awareness and facilitate tactical response.
<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quantity</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority</td>
<td>15.300</td>
<td>32.083</td>
</tr>
<tr>
<td>Total: Secondary Distribution</td>
<td>Quantity</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority</td>
<td>15.300</td>
<td>32.083</td>
</tr>
</tbody>
</table>
### Justification:

FY 2016 Base procurement dollars in the amount of $1.722 million supports the program management office.

FY 2016 OCO procurement dollars in the amount of $14.847 million supports procurement of replacement parts and critical site spares.

All funds support the Active Component.
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**Exhibit P-5, Cost Analysis: PB 2016 Army**

<table>
<thead>
<tr>
<th>Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 83</th>
<th>P-1 Line Item Number / Title: BL5287 / Family Of Persistent Surveillance Capabilities</th>
<th>Item Number / Title [DODIC]: BL5287 / Family Of Persistent Surveillance Capabilities</th>
</tr>
</thead>
</table>

**ID Code** (A=Service Ready, B=Not Service Ready):

**MDAP/MAIS Code:**

**Resource Summary**

<table>
<thead>
<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>132.000</td>
<td>15.300</td>
<td>32.083</td>
<td>1.722</td>
<td>14.847</td>
<td>16.569</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>132.000</td>
<td>15.300</td>
<td>32.083</td>
<td>1.722</td>
<td>14.847</td>
<td>16.569</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gross/Weapon System Unit Cost</td>
<td>132.000</td>
<td>15.300</td>
<td>32.083</td>
<td>1.722</td>
<td>14.847</td>
<td>16.569</td>
</tr>
</tbody>
</table>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

**Initial Spares ($ in Millions)**

**Gross/Weapon System Unit Cost ($ in Thousands)**

**Prior Years**

**FY 2014**

**FY 2015**

**FY 2016 Base**

**FY 2016 OCO**

**FY 2016 Total**

**Cost Elements**

| Flyaway Cost | Unit Cost ($K) | Qty (Each) | Total Cost ($M) | Unit Cost ($K) | Qty (Each) | Total Cost ($M) | Unit Cost ($K) | Qty (Each) | Total Cost ($M) | Unit Cost ($K) | Qty (Each) | Total Cost ($M) | Unit Cost ($K) | Qty (Each) | Total Cost ($M) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Network Accreditation/ Payload Int | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Baseline Avionics Conversion Kits (†) | - | - | 10.272 | - | - | - | - | - | - | - | - | - | - | - | - |
| Tactical Common Data Link (†) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (MAPS) Frame Assembly (†) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ISR Turret (MX-15) (†) | - | - | 4.250 | - | - | 900.000 | 2 | 1.800 | 900.000 | 2 | 1.800 | - | - | - | - |
| Tether-up replacement (†) | - | - | 6.480 | - | - | 600.400 | 5 | 3.002 | 600.400 | 5 | 3.002 | - | - | - | - |
| Envelope replacements (†) | - | - | 2.150 | - | - | 433.000 | 3 | 1.299 | 433.000 | 3 | 1.299 | - | - | - | - |
| WISP WAS sensors (†) | - | - | 53.000 | - | - | 933.000 | 3 | 2.799 | 933.000 | 3 | 2.799 | - | - | - | - |
| Common Systems/ Interoperability Int | - | - | 40.116 | - | - | - | - | - | - | - | - | - | - | - | - |
| Program Management Office Support | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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LI BL5287 - Family Of Persistent Surveillance Capabilities

**Date:** February 2015

**Page 4 of 8**

**P-1 Line #68**

**320**
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**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 83

**P-1 Line Item Number / Title:**
BL5287 / Family Of Persistent Surveillance Capabilities

**Item Number / Title [DODIC]:**
BL5287 / Family Of Persistent Surveillance Capabilities

**ID Code** (A=Service Ready, B=Not Service Ready):  

**MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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<thead>
<tr>
<th>Cost Elements</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
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<td>Qty (Each)</td>
<td>Total Cost ($ M)</td>
<td>Unit Cost ($ K)</td>
<td>Qty (Each)</td>
<td>Total Cost ($ M)</td>
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<table>
<thead>
<tr>
<th>Secondary Distribution</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td>Army</td>
<td>Quantity</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority</td>
<td>15.300</td>
<td>32.083</td>
<td>1.722</td>
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<td>16.569</td>
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<tr>
<td>Total: Secondary Distribution</td>
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<td>-</td>
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</tr>
<tr>
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<td>1.722</td>
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(†) indicates the presence of a P-5a
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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
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<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<td>Jul 2016</td>
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<td>L-3 Wescam / Burlington, ON</td>
<td>SS / FFP</td>
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<td>Jul 2015</td>
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<tr>
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<td>Jul 2015</td>
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<td>SS / FFP</td>
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<td>Jul 2015</td>
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<tr>
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<td>MIT Lincoln Laboratory / Lexington, MA</td>
<td>C / FFP</td>
<td>NAVAIR: Lakehurst NJ</td>
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<td>Jul 2015</td>
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<td>C / FFP</td>
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(*) indicates the presence of a P-21
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<th>Calendar Year 2015</th>
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<th>Calendar Year 2016</th>
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<tr>
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**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 83

**P-1 Line Item Number / Title:**
BL5287 / Family Of Persistent Surveillance Capabilities

**Item Number / Title [DODIC]:**
BL5287 / Family Of Persistent Surveillance Capabilities

**Date:** February 2015

### Production Rates (Each / Month)

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
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</tr>
<tr>
<td>6</td>
<td>L-3 Wescam - Burlington, ON</td>
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<td>50</td>
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<tr>
<td>7</td>
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<tr>
<td>8</td>
<td>TCOM - Elizabeth City, NC</td>
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<td>20</td>
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</tr>
<tr>
<td>9</td>
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### Procurement Leadtime (Months)

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<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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<td>L-3 Wescam - Burlington, ON</td>
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<td>TCOM - Elizabeth City, NC</td>
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<td>TCOM - Elizabeth City, NC</td>
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<td>MIT Lincoln Laboratory - Lexington, MA</td>
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</table>

*“A” in the Delivery Schedule indicates the Contract Award Date.*

*Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).*
### Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020 To Complete</th>
<th>Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>1,994.622</td>
<td>1.237</td>
<td>48.820</td>
<td>0.447</td>
<td>19.535</td>
<td>19.982</td>
<td>0.459</td>
<td>0.472</td>
<td>0.487</td>
<td>0.501 Continuing</td>
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<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>1,994.622</td>
<td>1.237</td>
<td>48.820</td>
<td>0.447</td>
<td>19.535</td>
<td>19.982</td>
<td>0.459</td>
<td>0.472</td>
<td>0.487</td>
<td>0.501 Continuing</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>1,994.622</td>
<td>1.237</td>
<td>48.820</td>
<td>0.447</td>
<td>19.535</td>
<td>19.982</td>
<td>0.459</td>
<td>0.472</td>
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<td>0.501 Continuing</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

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<tr>
<th>FY 2014</th>
<th>FY 2015</th>
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### Flyaway Unit Cost ($ in Thousands)

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<th>FY 2015</th>
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<th>FY 2016 Total</th>
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<tbody>
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### Gross/Weapon System Unit Cost ($ in Thousands)

<table>
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<th>FY 2015</th>
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<th>FY 2016 Total</th>
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</thead>
<tbody>
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</tbody>
</table>

### Description:

PROGRAM DESCRIPTION INFORMATION IDENTIFIED IN VOL II OF THE MILITARY INTELLIGENCE PROGRAM CONGRESSIONAL JUSTIFICATION BOOK.

### Justification:

FY 2016 Base funding in the amount of $0.447 million and FY16 Overseas Contingency Operations funding in the amount of $19.535 million are IDENTIFIED IN VOL II OF THE MILITARY INTELLIGENCE PROGRAM CONGRESSIONAL JUSTIFICATION BOOK.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

P-1 Line Item Number / Title:
BL5285 / CI Modernization

Date: February 2015

Program Elements for Code B Items:

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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>0.228</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
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<td>0.121</td>
<td>0.121</td>
<td>0.121</td>
<td>Continuing</td>
<td>Continuing</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - |

Description:
The Counterintelligence (CI) Modernization effort provides resources for the sustainment of the CI information technology infrastructure used by the CI components of the Army. This architecture and infrastructure includes shared databases, workstations, global communications, and adequate connectivity for CI agents and specialists.

Justification:
FY16 funding in the amount of $0.228 million will procure lifecycle Automated Data Processing (ADP) Capital Equipment Replacement Program support and communications equipment for worldwide Army CI operations conducted by over 1200 personnel.
**Resource Summary**

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>To Complete</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
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<td>43.285</td>
<td>46.979</td>
<td>38.727</td>
<td>41.484</td>
<td>42.484</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>27.983</td>
<td>44.305</td>
<td>43.285</td>
<td>-</td>
<td>43.285</td>
<td>46.979</td>
<td>38.727</td>
<td>41.484</td>
<td>42.484</td>
<td>30.374</td>
</tr>
<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>306.247</td>
<td>27.983</td>
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<td>43.285</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>43.285</td>
<td>-</td>
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<td>38.727</td>
<td>41.484</td>
<td>42.484</td>
<td>30.374</td>
</tr>
</tbody>
</table>

(Initial Spares ($ in Millions))

- - - - - - - - - - - -

(Flyaway Unit Cost ($ in Thousands))

- - - - - - - - - - - -

(Gross/Weapon System Unit Cost ($ in Thousands))

- - - 733.644 - 733.644 - - - - - 32,729.895

**Description:**

The Sentinel system is used with the Forward Area Air Defense Command and Control (FAAD C2) element and is a supporting program to the Integrated Air and Missile Defense architecture via the Integrated Air and Missile Defense Battle Command System (IBCS) to provide critical air surveillance of the forward areas.

Sentinel [AN/MPQ-64A1] consists of a radar-based sensor with its prime mover/power, Identification Friend or Foe (IFF), and Forward Area Air Defense (FAAD) Command, Control and Intelligence (C2I) interfaces. The radar is deployed in both an air defense role and a sense and warn role for Counter-Rocket, Artillery, and Mortar (C-RAM) missions. The sensor is an advanced three-dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 75 km. Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols and enemy countermeasures. It provides 360-degree azimuth coverage for acquisition tracking. Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying and reporting targets [cruise missiles, unmanned aerial systems, rotary wing and fixed wing aircraft]. Improved Sentinel acquires targets sufficiently forward of the battle area to allow weapons reaction time and allow engagement at optimum ranges. Sentinel's integrated IFF reduces the potential for fratricide of US and Coalition aircraft.

**Secondary Distribution**

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### Justification:

FY 2016 Base procurement dollars in the amount of $43.285 million dollars procures 59 Common Platform Upgrade modification kits for the fleet. These quantities do not reflect the actual number of radars modified.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

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<th>FY 2016 Base</th>
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<td>Quantity / Total Cost (Each) / ($ M)</td>
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<td>WK5057 / Sentinel Mods (Operational)</td>
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<td>- / 43.285</td>
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<th>FY 2019</th>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
**Resource Summary**

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<td>41.484</td>
<td>42.484</td>
<td>30.374</td>
<td>621.868</td>
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</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)***

| Initial Spares ($ in Millions) | -           | -       | -       | -            | -           | -            | -       | -       | -       | -       | -           | -     |
| Gross/Weapon System Unit Cost ($ in Thousands) | -           | -       | -       | 733.644      | -           | 733.644      | -       | -       | -       | -       | -           | -     |

**Description:**

Improved Sentinel Modifications include waveform upgrades for the Receiver/Exciter and Target Classification and upgrades/replace of the current Sentinel transmitter with Power Amplifier Modules [PAM]. The Exciter upgrades will provide low level Radio Frequency [RF] signals sufficient to support the acquisition and tracking of cruise missile targets and the generation of target classification waveforms. Receiver upgrades accomplish receipt and signal conditioning of low level RF signals prior to Analog/Digital [A/D] conversion sufficient to support the acquisition and tracking of cruise missile targets and target classification. Variable rotation rate provides capability to slow the antenna rotation, increasing time on target to acquire and track small cruise missile targets and to provide flexible antenna positioning capability for target classification waveforms. Target classification efforts include software implementation of target classification capability to support beyond visual range engagements.

The TPX-57 Mode 5 Identification Friend or Foe [IFF] modification kit replaces the current TPX-56 IFF. It also consists of a new router, enhanced Radar Control Terminal (eRCT), Signal Data Processor (SDP) box, and multiple circuit card assemblies. These modifications convert existing A1 radars to the A3 configuration. Mode 5 provides improvements over Mode 4 in crypto sensitivity, range performance, probability of identification, expanded reply data including position reports, elimination of garbled returns from closely spaced aircraft, friend from foe identification capability, lethal interrogation capability, reduced interference with Civil Air Traffic Control systems, and selective interrogation capability. Incorporation of Mode 5 into the Sentinel system is critical to retaining the cooperative target identification capability and Sentinel effectiveness on the current/future battlefield, allowing Sentinel to remain operationally effective in Air Defense operations and Homeland Defense missions. The addition of the eRCT, SDP cards and corresponding SDP box funds the mitigation of obsolescence issues; reliability, availability, and maintainability issues; and operational and hardware issues identified with fielded Sentinel radars. The eRCT enables remote operations and includes a tactical data recorder needed for Sentinel to support Counter-Rocket, Artillery, and Mortar [C-RAM] requirements. The addition of an ethernet router is required to meet Information Assurance requirements for the eRCT and to add Command and Control connectivity to the Sentinel system.

The Common Platform Upgrade will upgrade the current Sentinel prime mover to a common Army platform to meet Brigade Combat Team [BCT] force protection, as well as meet Integrated Air and Missile Defense Battle Command System [IBCS] requirements. Transition to a common Army platform is in compliance with Acquisition Decision Memorandum dated August 2011. The current Sentinel platform does not meet the force protection requirements as defined by the BCT maneuver mission and IBCS operational requirements.

The Cross Domain Solution [CDS] Network Interface will enhance Information Assurance and add a National Security Agency [NSA] certified CDS to the fleet, enabling the Sentinel radar to operate on Unclassified and Coalition networks.

The Electronic Attack/Electronic Protect [EA/EP] addresses the electronic countermeasures [ECM] gap. This effort converts Sentinel from analog to digital in order to address more extensive EA/EP signatures from evolving threats.

The Signal Data Processor [SDP] Upgrade is a redesign of the SDP backplane to provide higher data throughput to remove current limitations and an upgraded set of SDP cards to remove obsolescence. The North Finding Module [NFM] Upgrade will enhance the system's emplacement accuracy, resulting in improved fire control support and replacement of the obsolete NFM.
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<td>Jan 2018</td>
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**Models of Systems Affected:** Sentinel [AN/MPQ-64]  
**Modification Type:** Operational  
**Related RDT&E PEs:**

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## UNCLASSIFIED

### Exhibit P-3a, Individual Modification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86

P-1 Line Item Number / Title: WK5057 / Sentinel Mods

Modification Number / Title: WK5057 / Sentinel Mods

Models of Systems Affected: Sentinel [AN/MPQ-64]

Modification Type: Operational

### Related RDT&E PEs:

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<th>FY 2017 Qty (Each)</th>
<th>FY 2017 Total Cost ($M)</th>
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<th>Total Qty (Each)</th>
<th>Total Cost ($M)</th>
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Exhibit P-3a, Individual Modification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86

P-1 Line Item Number / Title: WK5057 / Sentinel Mods

Modification Number / Title: WK5057 / Sentinel Mods

Models of Systems Affected: Sentinel [AN/MPQ-64]

Modification Type: Operational

Related RDT&E PEs:

Financial Plan

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Date: February 2015
### Manufacture Information

Manufacturer Name: Thales Raytheon Systems  
Manufacturer Location: Fullerton, CA

Administrative Leadtime (in Months): 7  
Production Leadtime (in Months): 21

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### Installation Information

Method of Implementation: Contractor Facility

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### Installation Schedule

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**Modification Item 2 of 6: TPX-57 (Mode 5 IFF)**

**Manufacturer Information**
- **Manufacturer Name:** Thales Raytheon Systems
- **Manufacturer Location:** Fullerton, CA

**Administrative Leadtime (in Months):** 6

**Production Leadtime (in Months):** 12

**Installation Information**

**Method of Implementation:** Contractor Field Team

**Installation Schedule**

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**UNCLASSIFIED**

Exhibit P-3a, Individual Modification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86

P-1 Line Item Number / Title: WK5057 / Sentinel Mods

Modification Number / Title: WK5057 / Sentinel Mods

**Method of Implementation:** Contractor Field Team

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### Installation Schedule

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**Total**: 147
**UNCLASSIFIED**

**Exhibit P-3a, Individual Modification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** WLK5057 / Sentinel Mods

**Modification Number / Title:** WLK5057 / Sentinel Mods

**Modification Item 4 of 6:** Electronic Attack/Electronic Protect

**Manufacturer Information**

- **Manufacturer Name:** Thales Raytheon Systems
- **Manufacturer Location:** Fullerton, CA

**Administrative Leadtime (in Months):** 3

**Production Leadtime (in Months):** 15

### Method of Implementation

- **Contractor Field Team**

### Installation Information

**Dates**

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**LI WK5057 - Sentinel Mods**

**UNCLASSIFIED**

Page 12 of 13

P-1 Line #71
Exhibit P-3a, Individual Modification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 86

P-1 Line Item Number / Title:
WK5057 / Sentinel Mods

Modification Item 6 of 6: Cross Domain Solution Network Interface

Manufacturer Information
Manufacturer Name: Thales Raytheon Systems
Manufacturer Location: Fullerton, CA

Administrative Leadtime (in Months): 3
Production Leadtime (in Months): 15

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### Description:

Night Vision Devices (KA3500) is a summary budget line including the following programs:

1. **K36400** - The AN/PSQ-20 Enhanced Night Vision Goggle (ENVG) is a lightweight, helmet mounted device that expands a Soldier's Situational Awareness (SA) and lethality by fusing image intensification and long wave infrared into a single, integrated image. Adversaries currently have access to image intensified night vision goggle technology, but not a fused system. The ENVG enables superior combat overmatch capability. The ENVG provides dismounted Brigade Combat Team Warfighters the capability to observe and maneuver in all weather conditions, through obscurants, during limited visibility, and under all lighting conditions including total darkness while enabling rapid detection and engagement with rifle-mounted aiming lasers. The AN/PVS-14 Monocular Night Vision Device (MVND) is a head or helmet mounted image intensification device that provides Soldiers with the ability to perform night operations. The AN/PSQ-20 and AN/PVS-14 support the tactical level of war; enabling the individual Soldier to see, understand, and act first; permitting superior tactical mobility and decisive engagement during limited visibility conditions.

2. **K35000** - The Multi-Function Aiming Light (MFAL) is a family of multifunctional infrared and visible laser devices used by Soldiers for accurate weapon aiming or to point out targets and other items of interest. In FY 2018 and beyond, funding in this program procures Pre-shot Threat Detection (PTD) systems. The PTD is designed to detect and locate optical scopes used by snipers or optronic sight systems on the battlefield or urban zones.

3. **B53800** - This program provides funding to procure Commercial Off the Shelf (COTS) Laser Target Locators (LTL). There are two generations of LTLS. Generation I systems are the Laser Target Locator Systems (LTLS). Generation II systems are the Laser Target Locator Modules (LTLM) and are currently being procured and fielded. The LTLM is a lightweight, handheld, laser target locator with day and thermal sight capability as well as an internal Global Positioning System (GPS) receiver. LTLM provides the dismounted observer or Scout a fully digital, handheld system to accurately determine target location and the ability of call for fire during all weather and lighting conditions. LTLM improves speed, accuracy, and safety of use over Generation I systems.

4. **K41500** - The Clip-on Sniper Night Sight (SNS), AN/PVS-30 for the M110 Semi-Automatic Sniper System (SASS) and XM2010 Enhanced Sniper Rifle (ESR) utilizes passive third generation image intensification technology for night operations. The Clip-on SNS supports the tactical level of war enabling the individual Sniper to see, understand, and act first. The Clip-on SNS provides the Sniper with the capability to acquire and engage targets at extended ranges and eliminate threat Snipers, materiel, and thin skinned armored vehicle targets under low light and night conditions, thus increasing the Sniper's survivability and lethality. Funding beginning in FY 2019 supports the procurement of the Family of Weapon Sights-Sniper (FWS-S) variant, which utilize advances in thermal and image intensification technology to provide a sniper weapon sight operable in line with a day optic sight or in a stand-alone mode. The FWS-S includes fused multi-band imagery and rapid target acquisition with ballistic equations providing the Sniper with improved capabilities during day and night operations.

5. **K50400** - The TS-3895A provides performance testing for AN/AVS-6, AN/PVS-5 series and AN/PVS-7 series night goggles on a go/no go basis. It is intended for use at intermediate maintenance levels combined with an attachment kit commodes of a collimation attachment and a dioptric scope, it can also be used for adjustment of NVGs during disassembly and repair. It allows the individual Warfighter to perform a wide variety of tasks at night; these tasks include flight operations on various platforms, walking, operating vehicles, surveillance, map reading, maintenance, first aid operation, and engaging enemy targets with direct rifle fire.

### Resource Summary

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(Flyaway Unit Cost ($ in Thousands) - - - - - - - - - - -)

(Gross/Weapon System Unit Cost ($ in Thousands) - - - 18.886 - 18.886 - - - - - Continuing Continuing)
### K31300 - The Driver’s Vision Enhancer (DVE) is an uncooled thermal imaging system developed for use on combat and tactical wheeled vehicles. The DVE allows for tactical movement of combat vehicles in support of their operational missions in all environmental conditions (day/night and all weather). DVE facilitates mobility providing enhanced driving capability during limited visibility conditions (darkness, smoke, dust, and fog).

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</tbody>
</table>
### Exhibit P-40, Budget Line Item Justification: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Number / Title:**
KA3500 / Night Vision Devices

**ID Code (A=Service Ready, B=Not Service Ready):**

#### Program Elements for Code B Items:

<table>
<thead>
<tr>
<th>ID</th>
<th>Title*</th>
<th>Exhibits</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
</tr>
<tr>
<td>K31300 / DRIVER VISION ENHANCER (DVE)</td>
<td>P-40a, A</td>
<td>- / 199.351</td>
<td>- / 1.634</td>
<td>- / -</td>
<td>- / -</td>
<td>- / -</td>
<td>- / -</td>
<td>- / -</td>
</tr>
<tr>
<td>K50400 / TEST SET AVIATORS NIGHT VISION IMAGING TS-3895/UV</td>
<td>P-40a</td>
<td>- / -</td>
<td>- / 1.633</td>
<td>- / -</td>
<td>- / -</td>
<td>- / -</td>
<td>- / -</td>
<td>- / -</td>
</tr>
</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

**Justification:**
FY 2016 Base procurement dollars in the amount of $124.216 million supports the purchase of 6,002 Enhanced Night Vision Goggles, 524 Laser Target Location Modules, and associated fielding costs.

The FY 2016 funding request was reduced by $29.345 million to account for the availability of prior year execution balances.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. 

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
### Employing EXHIBIT P-5, COST ANALYSIS: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86  
**P-1 Line Item Number / Title:** KA3500 / Night Vision Devices  
**Item Number / Title [DODIC]:** B53800 / Laser Target Locator Systems

**ID Code (A=Service Ready, B=Not Service Ready):**

**MDAP/MAIS Code:**

<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>839.557</td>
<td>41.178</td>
<td>4.236</td>
<td>26.248</td>
<td>-</td>
<td>26.248</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

- **Initial Spares ($ in Millions):** -
- **Gross/Weapon System Unit Cost ($ in Thousands):** - 45.649 - 45.649

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware Cost</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Recurring Cost</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Laser Target Locator**</td>
<td>34.880</td>
<td>23,280</td>
<td>811.997</td>
<td>34.294</td>
<td>633</td>
<td>21,708</td>
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<td>Tripods</td>
<td>-</td>
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<td>6.006</td>
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<td>Project Management</td>
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<td>11.740</td>
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<td>-</td>
<td>9.175</td>
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<td>Systems Engineering Support</td>
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<td>Engineering Change Proposal</td>
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<td>-</td>
<td>7.030</td>
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<td>Fielding</td>
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<td>3.411</td>
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<td>Laser Equipment</td>
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<td>-</td>
<td>41.178</td>
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<tr>
<td>Subtotal: Hardware Cost</td>
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<td>-</td>
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<td>-</td>
<td>41.178</td>
</tr>
<tr>
<td>Gross/Weapon System Cost</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>41.178</td>
</tr>
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</table>

**Army**

- **Military Distribution**
  - Quantity: 41.178
  - Total Obligation Authority: 41.178

- **ANG**
  - Quantity: -
  - Total Obligation Authority: 8,343

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P-1 Line #72

LI KA3500 - Night Vision Devices

343
<table>
<thead>
<tr>
<th>Secondary Distribution</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>AR</td>
<td>Quantity</td>
<td>-</td>
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</tr>
<tr>
<td></td>
<td>Total Obligation Authority</td>
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<td>0.966</td>
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<tr>
<td>Total:</td>
<td>Quantity</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
</tbody>
</table>

(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** KA3500 / Night Vision Devices

**Item Number / Title [DODIC]:** B53800 / Laser Target Locator Systems

#### Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>O C O</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser Target Locator (†)</td>
<td>2014</td>
<td>TBS / TBD</td>
<td>C / IDIQ</td>
<td>ACC APG</td>
<td>Nov 2015</td>
<td>Nov 2016</td>
<td>633</td>
<td>34.294</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laser Target Locator (†)</td>
<td>2016</td>
<td>TBS / TBD</td>
<td>C / IDIQ</td>
<td>ACC APG</td>
<td>May 2016</td>
<td>Jan 2017</td>
<td>524</td>
<td>42.508</td>
<td>N</td>
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</tbody>
</table>

(†) indicates the presence of a P-21

#### Remarks:

Each delivery order made under these contracts is competed among the 2 manufacturers on the basis of best cost, available schedule, and performance. Therefore, a determination of the quantity per manufacturer to be awarded to each is made after reviewing this information at the time of each delivery order. (Unit Costs are weighted averages).

A new contract will be awarded in FY16 to continue procurement of a smaller, lighter, and lower-cost LTLM. However, the initial start-up costs (qualification, etc) will result in an increase in unit cost for the first year.
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
KA3500 / Night Vision Devices

**Item Number / Title [DODIC]:**
B53800 / Laser Target Locator Systems

<table>
<thead>
<tr>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
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</thead>
<tbody>
<tr>
<td><strong>Cost Elements</strong></td>
<td><strong>Accept Prior to 1 Oct 2015</strong></td>
<td><strong>Balance Due As Of 1 Oct 2015</strong></td>
</tr>
<tr>
<td><strong>M/C Foot Service</strong></td>
<td><strong>PROD QTY</strong></td>
<td><strong>OC## FY</strong></td>
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<tr>
<td>Laser Target Locator</td>
<td>Prior Years Deliveries: 23280</td>
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<tr>
<td>1 2014 ARMY (1)</td>
<td>633 -</td>
<td>633</td>
</tr>
<tr>
<td>1 2016 ARMY (2)</td>
<td>524 -</td>
<td>524</td>
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</table>

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LI KA3500 - Night Vision Devices

Army
### Cost Elements

**Units in Each**

<table>
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<tr>
<th>FY</th>
<th>SERVICE</th>
<th>PROC QTY</th>
<th>BAL DUE AS OF 1 OCT</th>
<th>ACCEPT PRIOR TO 1 OCT</th>
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</thead>
<tbody>
<tr>
<td></td>
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<tr>
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</table>

**Fiscal Year 2018**

<table>
<thead>
<tr>
<th>O</th>
<th>M</th>
<th>C</th>
<th>CR</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC QTY</th>
<th>BAL DUE AS OF 1 OCT</th>
<th>ACCEPT PRIOR TO 1 OCT</th>
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</tbody>
</table>

**Calendar Year 2018**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**Fiscal Year 2019**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**Calendar Year 2019**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**Prior Years Deliveries:** 23280

<table>
<thead>
<tr>
<th>Year</th>
<th>Agency</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>ARMY</td>
<td>524</td>
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</table>

**Total:** 347

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**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** KA3500 / Night Vision Devices

**Item Number / Title [DODIC]:** B53800 / Laser Target Locator Systems

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**Date:** February 2015

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**Army**

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**P-1 Line #72**

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**LI KA3500 - Night Vision Devices**

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**347**
Exhibit P-21, Production Schedule: PB 2016 Army

P-1 Line Item Number / Title: KA3500 / Night Vision Devices

Production Rates (Each / Month)

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 TBS - TBD</td>
<td>35</td>
<td>40</td>
<td>200</td>
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</table>

Initial

<table>
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<tr>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4</td>
<td>12</td>
<td>16</td>
<td>2</td>
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<td>8</td>
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</table>

Procurement Leadtime (Months)

<table>
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<th>Total After Oct 1</th>
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<tr>
<td></td>
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</tbody>
</table>

Reorder

<table>
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<th>Total After Oct 1</th>
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<tbody>
<tr>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

Service/Agency Suffixes:

(V) BASE

(VI) BASE

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
### Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86  
**P-1 Line Item Number / Title:** KA3500 / Night Vision Devices  
**Aggregated Items Title:** Various

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.

<table>
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<tr>
<th>Item Number / Title [DODIC]</th>
<th>ID CD</th>
<th>M&amp;AP/MAIS Code</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($K)</th>
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<th>Total Cost ($M)</th>
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</thead>
<tbody>
<tr>
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<td>K31300 / DRIVER VISION ENHANCER (DVE)</td>
<td>A</td>
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<td>199.351</td>
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</tr>
<tr>
<td>Secondary Distribution</td>
<td>Army</td>
<td>-</td>
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</tr>
<tr>
<td>K50400 / TEST SET AVIATORS NIGHT VISION IMAGING TS-3850/UV</td>
<td>-</td>
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<td>-</td>
<td>1.633</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Subtotal: DRIVER VISION ENHANCER (DVE)</td>
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<td>199.351</td>
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<tr>
<td>Total</td>
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<td>199.351</td>
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## UNCLASSIFIED

**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** KA3500 / Night Vision Devices

**Item Number / Title [DODIC]:** K36400 / Helmet Mounted Enhanced Vision Devices

### ID Code (A=Service Ready, B=Not Service Ready):

#### MDAP/MAIS Code:

<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>336.959</td>
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<td>134.365</td>
<td>97.968</td>
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<td>97.968</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>336.959</td>
<td>109.548</td>
<td>134.365</td>
<td>97.968</td>
<td>-</td>
<td>97.968</td>
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</tbody>
</table>

*Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.*

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### Cost Elements

**Flyaway Cost**

<table>
<thead>
<tr>
<th>AN/PSQ-20 (ENVG II)</th>
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<th>21.891</th>
<th>286.073</th>
<th>12.020</th>
<th>921</th>
<th>11.070</th>
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<th>2.439</th>
<th>29.317</th>
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</thead>
<tbody>
<tr>
<td>AN/PSQ-20 (ENVG III)</td>
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**Date:** February 2015
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
KA3500 / Night Vision Devices

**Item Number / Title [DODIC]:**
K36400 / Helmet Mounted Enhanced Vision Devices

**Date:** February 2015

#### ID Code (A=Service Ready, B=Not Service Ready):

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(†) indicates the presence of a P-5a
| Cost Elements                      | FY  | Contractor and Location          | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($K) | Spec Avail Now? | Date Revision Available | RFP Issue Date |
|-----------------------------------|-----|---------------------------------|--------------------------------|-----------------|------------|------------------------|------------|----------------|-----------------|-------------------------|----------------|                     |
| AN/PSQ-20 (ENVG II)†             | 2014| TBS (AN/PSQ-20) ENVG II / TBD   | C / IDIQ                       | ACC-APG         | Feb 2015   | Sep 2015               | 921        | 12.020         | N               |                         |                |
| AN/PSQ-20 (ENVG II)†             | 2015| TBS (AN/PSQ-20) ENVG II / TBD   | C / IDIQ                       | ACC-APG         | Feb 2015   | Sep 2015               | 2,439      | 12.020         | N               |                         |                |
| AN/PSQ-20 (ENVG III) Qual Systems†| 2014| DRS RSTA, Inc / Dallas, TX      | C / IDIQ                       | ACC-APG         | May 2014   | Oct 2015               | 710        | -              | N               |                         |                |
| AN/PSQ-20 (ENVG III) Qual Systems†| 2014| BAE Systems / Nashua, NH        | C / IDIQ                       | ACC-APG         | May 2014   | Oct 2015               | 710        | -              | N               |                         |                |

† indicates the presence of a P-21

Remarks:
The May 2014 ENVG III contracts, awarded to BAE Systems and DRS, RSTA, Inc. were protested. A subsequent reconvened Source Selection upheld the original awards in December 2014. A protest was again levied by Raytheon and a stop work order was issued, on both contracts, until resolution. On 13 January 2015, the stay was lifted on the DRS contract.

Unit cost is an average hardware based on quantity of systems procured. FY 2014 procurement includes 1420 next generation ENVG III qualification systems that will allow wireless imagery connectivity to the Family of Weapons Sight Individual (FWS-I) variant. This capability will provide Rapid Target Acquisition (RTA).

The ENVG III hardware unit cost in FY 2014 and FY 2015 is benefited by the combined quantity buy of 9,720 systems on the FY 2015 delivery order.
### Fiscal Year 2014

| M   | FR # | FY    | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2013 | BAL DUE AS OF 1 OCT 2013 | O   | N   | D   | J   | F   | M   | A   | M   | J   | U   | U   | E   | S   | O   | N   | D   | J   | F   | M   | A   | M   | J   | U   | U   | E   | A   | A   | S   | B   | L   |
|-----|------|-------|---------|----------|-----------------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1   | 2014 | ARMY (VII) | 921    | -       | 921                         | A                         | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | 77  | 844 |
| 1   | 2015 | ARMY (VIII) | 2,439  | -       | 2,439                       | A                         | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | 203 | 2,236 |

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**Exhibit P-21, Production Schedule:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
KA3500 / Night Vision Devices

**Item Number / Title [DODIC]:**
K36400 / Helmet Mounted Enhanced Vision Devices

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**UNCLASSIFIED**
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
KA3500 / Night Vision Devices

**Item Number / Title [DODIC]:**
K36400 / Helmet Mounted Enhanced Vision Devices

#### Production Rates (Each / Month)

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**Remarks:**
The May 2014 ENVG III contracts, awarded to BAE Systems and DRS, RSTA, Inc, were protested. A subsequent reconvened Source Selection upheld the original awards in December 2014. A protest was again levied by Raytheon and a stop work order was issued, on both contracts, until resolution. On 13 January 2015, the stay was lifted on the DRS contract.

*A* in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**
- (VII) BASE
- (VIII) BASE
- (IX) BASE
- (X) BASE
- (XI) BASE
- (XII) BASE
- (XIII) BASE

LI KA3500 - Night Vision Devices

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Army

Page 16 of 16

P-1 Line #72
Description:
The Long Range Advanced Scout Surveillance System (LRAS3) is a long range reconnaissance and surveillance system which operates in both a stationary vehicle mounted configuration and in an autonomous dismounted configuration. The LRAS3 is a multi-function, line-of-sight target acquisition common sensor suite which provides real-time target detection, recognition, and identification capability 24 hours a day in all weather conditions. LRAS3 also automatically determines Far Target Location (FTL) coordinates for any target ranged to by the operator. LRAS3 enables information superiority by interfacing with Force XXI Battle Command, Brigade-and-Below (FBCB2) to provide target acquisition and FTL information. LRAS3 utilizes the Horizontal Technology Integration (HTI) Second Generation Forward Looking Infrared (SGF) thermal sensor, enabling 24 hour a day operation in adverse weather and penetration of battlefield obscurants. LRAS3 significantly increases the survivability of forces through its standoff capability, allowing them to continue their mission as the eyes of the maneuver commander on the battlefield. The LRAS3 is a key enabling technology and has been a critical combat overmatch capability for the Army units in combat in Afghanistan. The LRAS3 continues to support requirements from Operation Enduring Freedom; for example, the Mine Resistant Ambush Protected (MRAP) All Terrain Vehicle (M-ATV) and developing a networked-enabled (netted sensors) technology insertion capability. The current LRAS3 Army Acquisition Objective (AAO) is 2,894 systems.
### Justification:
FY 2016 Base procurement - There is no funding in FY 2016.
### Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

- Initial Spares ($ in Millions)
  - Prior Years
  - FY 2014
  - FY 2015
  - FY 2016 Base
  - FY 2016 OCO
  - FY 2016 Total

- Gross/Weapon System Unit Cost ($ in Thousands)
  - FY 2014
  - FY 2015
  - FY 2016 Base
  - FY 2016 OCO
  - FY 2016 Total

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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Total Obligation Authority 5.183
## UNCLASSIFIED

**Exhibit P-5, Cost Analysis: PB 2016 Army**

### Date: February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K38300 / Long Range Advanced Scout Surveillance System

**Item Number / Title [DODIC]:**
K38300 / Long Range Advanced Scout Surveillance System

### ID Code (A=Service Ready, B=Not Service Ready):

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**MDAP/MAIS Code:**

**Date:**
February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

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**Date:**
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**Date:**
February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K38300 / Long Range Advanced Scout Surveillance System

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**Date:**
February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
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**Description:**

The AN/PSQ-23 Small Tactical Optical Rifle Mounted (STORM) Micro-Laser Range Finder (MLRF) is a weapon-mounted multi-function laser system. It provides an eye safe laser range finder, digital compass, Infrared (IR) and visible aiming lights, and an IR illuminator for far target location with continuous range, accuracy, weight and power performance enhanced capabilities. When connected to a Precision Lightweight Global Receiver/Defense Advanced GPS Receiver (PLGR/DAGR), the AN/PSQ-23 provides range and direction information to develop accurate and timely far target locations. The STORM addresses the lack of depth perception for night applications through use of its IR illuminator and rangefinder. The STORM system provides a stand-alone capability for small unit leaders and Snipers. In FY15, a production Engineering Change Proposal (ECP) reduced size, weight, power consumption, and cost; designated as STORM AN/PSQ-23C.

The current Army Acquisition Objective (AAO) for this program is 24,163.

### Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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### Flyaway Unit Cost ($ in Thousands)

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### Gross/Weapon System Unit Cost ($ in Thousands)

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## Justification:

FY 2016 Base procurement dollars in the amount of $23.216 million procures 2,526 AN/PSQ-23C systems for fielding to small unit leaders and Snipers.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

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| Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | 9.191 | 9.191 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

#### Hardware Cost

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Recurring Cost</td>
<td>-</td>
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</tr>
</tbody>
</table>

- **STORM - AN/PSQ-23 Hardware**
  - Unit Cost ($ K) | 18.042
  - Qty (Each) | 4,194
  - Total Cost ($ M) | 75.668
  - FY 2014 Total: $75.668

- **STORM - AN/PSQ-23C Hardware**
  - Unit Cost ($ K) | -
  - Qty (Each) | -
  - Total Cost ($ M) | -
  - FY 2014 Total: $0

- **Program Management**
  - Unit Cost ($ K) | -
  - Qty (Each) | -
  - Total Cost ($ M) | -
  - FY 2014 Total: $0

- **Systems Engineering Support**
  - Unit Cost ($ K) | -
  - Qty (Each) | -
  - Total Cost ($ M) | -
  - FY 2014 Total: $0

- **Engineering Change Orders**
  - Unit Cost ($ K) | -
  - Qty (Each) | -
  - Total Cost ($ M) | -
  - FY 2014 Total: $0

- **Fielding**
  - Unit Cost ($ K) | -
  - Qty (Each) | -
  - Total Cost ($ M) | -
  - FY 2014 Total: $0

- **Subtotal: Recurring Cost**
  - Unit Cost ($ K) | -
  - Qty (Each) | -
  - Total Cost ($ M) | -
  - FY 2014 Total: $0

- **Subtotal: Hardware Cost**
  - Unit Cost ($ K) | -
  - Qty (Each) | -
  - Total Cost ($ M) | -
  - FY 2014 Total: $0

| Gross/Weapon System Cost | - | - | - | - | - | - |

| Hardware Cost | Total Cost ($ M) | - | - | - | - | - |

**Secondary Distribution**

<table>
<thead>
<tr>
<th>Secondary Distribution</th>
<th>FY 2014</th>
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<th>FY 2016 Base</th>
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<th>FY 2016 Total</th>
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**P-1 Line #74**

LI K35110 - Small Tactical Optical Rifle Mounted MLR...
<table>
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(*) indicates the presence of a P-5a
**Exhibit P-5a, Procurement History and Planning:** PB 2016 Army

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**

2035A / 02 / 86

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tr>
<td>STORM - AN/PSQ-23 Hardware(†)</td>
<td>2014</td>
<td>L3 Insight / Londonderry, NH</td>
<td>C / IDIQ</td>
<td>ACC APG</td>
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<td>TBD / TBS</td>
<td>C / IDIQ</td>
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<td>Oct 2016</td>
<td>2,526</td>
<td>8.100</td>
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(†) indicates the presence of a P-21

**Remarks:**

June 2011 award to L3 Communications was a 5 year IDIQ contract. New contract expected 3rd quarter FY16.
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K35110 / Small Tactical Optical Rifle Mounted MLRF

**Item Number / Title [DODIC]:**
K35110 / Small Tactical Optical Rifle Mounted MLRF

**Date:** February 2015

#### Cost Elements

<table>
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<th>Cost Elements</th>
<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<td><strong>Calendar Year 2014</strong></td>
<td><strong>Fiscal Year 2015</strong></td>
<td><strong>Calendar Year 2015</strong></td>
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<td><strong>PROC</strong></td>
<td><strong>QTY</strong></td>
<td><strong>ACCEPT PRIOR TO 1 OCT 2013</strong></td>
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<td><strong>FY</strong></td>
<td><strong>SERVICE</strong></td>
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<td><strong>FY</strong></td>
<td><strong>SERVICE</strong></td>
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**STORM - AN/PSQ-23 Hardware**

Prior Years Deliveries: 4194

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<th>Year</th>
<th>Service</th>
<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
<th>Fiscal Year 2015</th>
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<tr>
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**STORM - AN/PSQ-23C Hardware**

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<th>Calendar Year 2014</th>
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<th>Calendar Year 2015</th>
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UNCLASSIFIED
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K35110 / Small Tactical Optical Rifle Mounted MLRF

**Item Number / Title [DODIC]:**
K35110 / Small Tactical Optical Rifle Mounted MLRF

### Exhibit P-21, Production Schedule:

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
PB 2016 Army

**P-1 Line Item Number / Title:**
K35110 / Small Tactical Optical Rifle Mounted MLRF

**Item Number / Title [DODIC]:**
K35110 / Small Tactical Optical Rifle Mounted MLRF

**Exhibit P-21, Production Schedule:**

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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<tr>
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**STORM - AN/PSQ-23 Hardware**

Prior Years Deliveries: 4194

<table>
<thead>
<tr>
<th>Year</th>
<th>Service</th>
<th>Fiscal Year 2016</th>
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<th>Calendar Year 2017</th>
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<td>2015</td>
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**STORM - AN/PSQ-23C Hardware**

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<th>Service</th>
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<th>Calendar Year 2016</th>
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<th>Calendar Year 2017</th>
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<td>125</td>
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</table>

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LI K35110 - Small Tactical Optical Rifle Mounted MLRF...
### Exhibit P-21, Production Schedule

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K35110 / Small Tactical Optical Rifle Mounted MLRF

**Item Number / Title [DODIC]:**
K35110 / Small Tactical Optical Rifle Mounted MLRF

**Date:** February 2015

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
<th>Initial</th>
<th>Procurement Leadtime (Months)</th>
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<tr>
<td>1</td>
<td>L3 Insight - Londonderry, NH</td>
<td>50</td>
<td>200</td>
<td>450</td>
<td>2</td>
<td>2 After Oct 1 4 Mfg PLT 6 Total After Oct 1 1 ALT After Oct 1 2 Mfg PLT 6 Total After Oct 1</td>
</tr>
<tr>
<td>2</td>
<td>TBD - TBS</td>
<td>50</td>
<td>200</td>
<td>450</td>
<td>2</td>
<td>7 After Oct 1 5 Mfg PLT 12 Total After Oct 1 1 ALT After Oct 1 2 Mfg PLT 6 Total After Oct 1</td>
</tr>
</tbody>
</table>

**Remarks:**
June 2011 award to L3 Communication was a 5 year IDIQ contract. New contract for the STORM AN/PSQ-23C is expected in 3rd quarter 2016. Break in production is necessary to take advantage of this smaller, lighter and cheaper STORM variant.

"A" in the Delivery Schedule indicates the Contract Award Date.

*Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million)."
**Green Laser Interdiction System (GLIS)**

The Green Laser Interdiction System (GLIS) is a rifle-mounted (M4/Modular Weapon System (MWS) carbine or M16A4) laser system that allows the Soldier to interdict non-combatants through non-lethal effects up to 300 meters. It is also designed to divert, disrupt, or delay potential enemies before they can engage friendly forces. GLIS fosters an effective non-lethal means to alert civilians they are approaching military operations with visible effects. GLIS is interchangeable between host weapon platforms.

**Description:**
The Army Acquisition Objective for the GLIS program is 24,846.

No FY16 Funding.

### Resource Summary

<table>
<thead>
<tr>
<th>Description</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>To Complete</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>26.369</td>
<td>0.516</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>26.885</td>
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<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>26.369</td>
<td>0.516</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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### Justification:

The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.

### Initial Spares ($ in Millions)

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<th>FY 2016 OCO</th>
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<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>To Complete</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
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<td>-</td>
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<td>-</td>
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### Final Spares

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<th>FY 2019</th>
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<th>To Complete</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Quantity</td>
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### Flyaway Unit Cost ($ in Thousands)

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<th>To Complete</th>
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<tbody>
<tr>
<td>Quantity</td>
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<tr>
<td>Total Obligation Authority</td>
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</tbody>
</table>

### Conclusion:

The Green Laser Interdiction System (GLIS) is a critical tool for non-lethal interdiction at a range of up to 300 meters. Its design to divert, disrupt, or delay potential enemies before they can engage friendly forces makes it an effective non-lethal means to alert civilians they are approaching military operations. The Army's Acquisition Objective for the GLIS program is 24,846 units, and no funding was allocated for FY16.

UNCLASSIFIED
There is no FY 2016 Base funding request for this program.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act P.L. 110-181, this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.
Resource Summary

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<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>27.345</td>
<td>55.354</td>
<td>68.296</td>
<td>60.679</td>
<td>-</td>
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<td>60.679</td>
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<td>4.370</td>
<td>-</td>
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</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | -           | -       | -       | -           | -           | -             | -       | -       | -       | -       | -           | -     |
Flyaway Unit Cost ($ in Thousands) | -          | -       | -       | -           | -           | -             | -       | -       | -       | -       | -           | -     |
Gross/Weapon System Unit Cost ($ in Thousands) | -          | -       | -       | -           | -           | -             | -       | -       | -       | -       | -           | 14,492.632 |

**Description:**

The Rocket, Artillery, Mortar (RAM) Warn program evolved from the Counter-Rocket, Artillery, Mortar (C-RAM) program and is a horizontal technology insertion, using current C-RAM warning capability to provide early, localized warning of indirect fire (IDF) threats to all Maneuver Brigade Combat Teams (BCT). It employs the Air Defense Airspace Management (ADAM) Cell already resident in the BCT Headquarters as the command and control (C2) element; uses the existing radars in the Target Acquisition Platoon of the Fires Battalion as the Sense element; and adds enhanced C2, warning devices, controllers, and dedicated communications devices between the existing radars, ADAM Cell, and warning devices. Integration of this equipment provides a Warn capability to the BCTs for detection of threat IDF rounds and transmission of the detection data to the C2 element for correlation and determination of a predicted point of impact (POI). Based on the POI, the C2 then determines which warning nodes should send "Incoming" warning alarms and transmits this information to the appropriate warning nodes. In addition to the representative RAM Warn capability fielded to each BCT, Army Pre-positioned Stocks (APS) equipment sets are being procured to supplement the fielded capability based on mission needs. Timely warning will enable those BCT personnel in the hazard area of an inbound IDF threat to seek cover or a prone position prior to impact, thus reducing casualties. The Capability Production Document (CPD) was approved in August 2010, and an update was approved in May 2012, to reflect the name change to RAM Warn. An initial operational test (IOT) was conducted during November 2012 as part of Network Integration Evaluation (NIE) 13.1, and the RAM Warn Milestone C Low Rate Initial Production (LRIP) decision occurred on 19 December 2012. In April 2014, RAM Warn was approved for entry into the Full Rate Production (FRP) acquisition phase based on successful completion of LRIP exit criteria, including Full Materiel Release.

Near-term directed enhancements to the C-RAM system-of-systems (SoS) capability include use of Army tactical communications rather than commercial systems and integration of Warn functionality into the command and control (C2) workstation to reduce complexity and footprint.

The Counter-Rocket, Artillery, Mortar (C-RAM) Intercept program provides a counter-RAM capability to the Indirect Fire Protection Capability (IFPC)/Avenger battalions, 5-5 and 2-44 Air Defense Artillery (ADA), to defend against and defeat the enduring indirect fire threat. This capability is provided by fielding existing Land-based Phalanx Weapon System (LPWS) guns previously deployed as a part of the C-RAM quick reaction capability; the guns undergo reset prior to fielding. C-RAM Intercept transitioned to an acquisition program with the approval of the C-RAM Intercept Capability Production Document (CPD) on 22 Aug 2013 and the Army Acquisition Executive's approval of an Acquisition Decision Memorandum (ADM) on 23 Aug 2013, authorizing the program's entry into the acquisition management system as a post-Milestone C, Acquisition Category (ACAT) III program under the management of the Program Executive Officer, Missiles and Space. Initial issue of LPWS assets to the IFPC/Avenger battalions is ongoing, with Materiel Release projected for 1QFY16.
### Exhibit P-40, Budget Line Item Justification: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Number / Title:**
BZ0501 / Indirect Fire Protection Family Of Systems

**Date:** February 2015

<table>
<thead>
<tr>
<th>ID Code</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements: 0604741A</th>
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<td>51.791</td>
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**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics  
Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Number / Title:**  
BZ0501 / Indirect Fire Protection Family Of Systems

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<td>ID Code (A=Service Ready, B=Not Service Ready):</td>
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| Program Elements for Code B Items: | | |
|-----------------------------------|-------------------------------|----------------------------------------------------------|---------------------|

**Exhibits Schedule**

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<tr>
<th>Exhibits</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>H30503 / Rocket, Artillery, Mortar (RAM) Warn</td>
<td>P-5, P-5a</td>
<td>16 / 27.345</td>
<td>55 / 11.929</td>
<td>184 / 27.652</td>
<td>312 / 42.458</td>
<td>312 / 42.458</td>
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<tr>
<td>H30504 / C-RAM Enhancements</td>
<td>P-5</td>
<td>- / -</td>
<td>- / 43.425</td>
<td>- / 40.644</td>
<td>- / 18.221</td>
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<tr>
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<td>- / 68.296</td>
<td>- / 60.679</td>
<td>- / -</td>
<td>- / 60.679</td>
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</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**
FY 2016 Base procurement dollars in the amount of $60.679 million provide for the procurement and fielding of the RAM Warn capability to 21 BCTs and 9 Army Pre-positioned Stocks (APS) equipment sets, C-RAM Intercept fielding to 5-5 and 2-44 ADA, and sustainment support for C-RAM Intercept at 5-5 ADA.
## Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** PB 2016 Army

**Item Number / Title [DODIC]:** BZ0501 / Indirect Fire Protection Family Of Systems

**MDAP/MAIS Code:** H30503 / Rocket, Artillery, Mortar (RAM) Warn

### Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>55</td>
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<td>312</td>
<td>312</td>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>11.929</td>
<td>27.652</td>
<td>42.458</td>
<td>42.458</td>
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<tr>
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<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>27.345</td>
<td>11.929</td>
<td>27.652</td>
<td>42.458</td>
<td>42.458</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>27.345</td>
<td>11.929</td>
<td>27.652</td>
<td>42.458</td>
<td>42.458</td>
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</table>

### Initial Spares ($ in Millions)

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Gross/Weapon System Unit Cost ($ in Thousands)</td>
<td>1,709.063</td>
<td>216.891</td>
<td>150.283</td>
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<td>136.083</td>
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</table>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

**Flyaway Cost**

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
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<td>1.902</td>
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<td>-</td>
<td>27.345</td>
<td>-</td>
<td>11.929</td>
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<tr>
<td>Gross/Weapon System Cost</td>
<td>1,709.063</td>
<td>55</td>
<td>27.345</td>
<td>216.891</td>
<td>150.283</td>
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</table>

### Secondary Distribution

<table>
<thead>
<tr>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
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<td>11.929</td>
<td>27.652</td>
<td>42.458</td>
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</table>
**Exhibit P-5, Cost Analysis:** PB 2016 Army

**Date:** February 2015

<table>
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<tr>
<th>Appropriation / Budget Activity / Budget Sub Activity:</th>
<th>P-1 Line Item Number / Title:</th>
<th>Item Number / Title [DODIC]:</th>
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<tbody>
<tr>
<td>2035A / 02 / 86</td>
<td>BZ0501 / Indirect Fire Protection Family Of Systems</td>
<td>H30503 / Rocket, Artillery, Mortar (RAM)</td>
</tr>
</tbody>
</table>

**ID Code** (A=Service Ready, B=Not Service Ready):

(†) indicates the presence of a P-5a

**Warn**

**MDAP/MAIS Code:**
Exhibit P-5a, Procurement History and Planning: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86

P-1 Line Item Number / Title: BZ0501 / Indirect Fire Protection Family Of Systems

Item Number / Title [DODIC]: H30503 / Rocket, Artillery, Mortar (RAM) Warn

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<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty</th>
<th>Unit Cost ($ K)</th>
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<tr>
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<td>184</td>
<td>123.054</td>
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Remarks:
RAM Warn is a hardware integration effort employing COTS and existing GOTS hardware.

Note: Procurement quantities for prior years are based on numbers of BCTs and APS sets as opposed to Line Item Numbers (LIN).

Date: February 2015
## Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86  

**P-1 Line Item Number / Title:** BZ0501 / Indirect Fire Protection Family Of Systems  

**Item Number / Title [DODIC]:** H30504 / C-RAM Enhancements

### ID Code (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code:

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>Less FY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

| Initial Spares ($ in Millions) | - | - | - | - | - | - |

### Gross/Weapon System Unit Cost ($ in Thousands)

| Gross/Weapon System Unit Cost | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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### Secondary Distribution

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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>18.221</td>
<td>-</td>
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<tr>
<th>Total Secondary Distribution</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
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<tr>
<td>Total Obligation Authority</td>
<td>43.425</td>
<td>40.644</td>
<td>18.221</td>
</tr>
</tbody>
</table>

(376)
### Description:

Family of Weapons Sights (FWS) consist of Individual (I), Crew-Served (CS), Sniper (S) variants, and the Thermal Weapon Sight (TWS). The AAO for the TWS was completed with the FY12 procurement. The FWS variant family will increase lethality and improve situational awareness by extending the range a Warfighter can recognize potential targets. The FWS-I (Milestone C is FY16) reduces target engagement time in both day and night conditions through Rapid Target Acquisition (RTA). The FWS-CS (Milestone C is FY18) will enable a crew served weapon gunner to more accurately engage targets in less time by utilizing a Head Mounted Display and disturbed reticle that adjusts the aim point. The FWS-S (Milestone C is FY18) will provide greater detection, recognition and aiding in identification at greater ranges during periods of darkness and limited visibility.

### Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<th>FY 2020</th>
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<tr>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

- - - - - - - - - - - -

### Flyaway Unit Cost ($ in Thousands)

- - - - - - - - - - - -

### Gross/Weapon System Unit Cost ($ in Thousands)

- - - 10.066 - 10.066 - - - - - -

### Secondary Distribution

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</table>
### Justification:

FY 2016 Base procurement dollars, in the amount of $53.453 million, procures 5,310 FWS-I systems for Production Qualification Testing (PQT) and Low Rate Initial Production (LRIP).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### UNCLASSIFIED

**Exhibit P-5, Cost Analysis:** PB 2016 Army  
**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86  
**P-1 Line Item Number / Title:** K22001 / FAMILY OF WEAPON SIGHTS (FWS)  
**Item Number / Title [DODIC]:** K22002 / FWS-INDIVIDUAL  
**Date:** February 2015

#### ID Code (A=Service Ready, B=Not Service Ready)

<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
<td>1,053</td>
<td>5,310</td>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>-</td>
<td>53.453</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>-</td>
<td>31.205</td>
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<td>-</td>
<td>53.453</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>53.453</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | 29,634 | 10,066 | - | 10,066 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

#### Cost Elements

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<tr>
<th>Prior Years</th>
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<tr>
<td>FWS - I Hardware (Test Assets)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>FWS - I Hardware (LRIP Assets)</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 86

#### P-1 Line Item Number / Title:
K22001 / FAMILY OF WEAPON SIGHTS (FWS)

#### Item Number / Title [DODIC]:
K22002 / FWS-INDIVIDUAL

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<th>Unit Cost (K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
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(†) indicates the presence of a P-21

**Remarks:**

The May 2014 FWS-I Engineering and Manufacturing Development/ Low Rate Initial Production contracts, awarded to BAE Systems and DRS, RSTA, Inc, were protested by Raytheon. A subsequent reconvened Source Selection upheld the original awards in December 2014. A protest was again levied by Raytheon and a stop work order was issued, on both contracts, until resolution. On 13 January 2015, the stop work order was lifted on the DRS contract.
### Exhibit P-21, Production Schedule: PB 2016 Army

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**Item Number / Title [DODIC]:**
- K22002 / FWS-INDIVIDUAL

**Date:** February 2015

**Exhibit P-21, Production Schedule:**

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<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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<td></td>
<td>O</td>
<td>M</td>
<td>F</td>
<td>C</td>
</tr>
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<td>FWS - I Hardware (Test Assets)</td>
<td>O</td>
<td>M</td>
<td>F</td>
<td>C</td>
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</table>

**Notes:**
- ARMy [XIV]: 208
- ARMy [XV]: 5,102

**UNCLASSIFIED**

LI K22001 - FAMILY OF WEAPON SIGHTS (FWS)

Army

Page 6 of 9

P-1 Line #77
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K22001 / FAMILY OF WEAPON SIGHTS (FWS)

**Item Number / Title [DODIC]:**
K22002 / FWS-INDIVIDUAL

**Date:** February 2015

<table>
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<th>Cost Elements</th>
<th>Fiscal Year 2018</th>
<th>Calendar Year 2018</th>
<th>Fiscal Year 2019</th>
<th>Calendar Year 2019</th>
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<td>M</td>
<td>C</td>
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<td>QTY</td>
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**UNCLASSIFIED**

LI K22001 - FAMILY OF WEAPON SIGHTS (FWS)  

[Army](#)  

Page 7 of 9  
P-1 Line #77
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K22001 / FAMILY OF WEAPON SIGHTS (FWS)

**Item Number / Title [DODIC]:**
K22002 / FWS-INDIVIDUAL

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<th>MFR Name - Location</th>
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<th>MAX For 2016</th>
<th>Initial</th>
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<td>2 TBD - TBD</td>
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<td>580</td>
<td>1,000</td>
<td>2</td>
<td>11</td>
<td>4</td>
<td>15</td>
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</tbody>
</table>

**Remarks:**
The May 2014 FWS-I Engineering and Manufacturing Development/ Low Rate Initial Production contracts, awarded to BAE Systems and DRS, RSTA, Inc, were protested by Raytheon. A subsequent reconvened Source Selection upheld the original awards in December 2014. A protest was again levied by Raytheon and a stop work order was issued, on both contracts, until resolution. On 13 January 2015, the stop work order was lifted on the DRS contract.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

**Service/Agency Suffixes:**

- (XIV) BASE
- (XV) BASE
### UNCLASSIFIED

**Exhibit P-5, Cost Analysis:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** K22001 / FAMILY OF WEAPON SIGHTS (FWS)

**Item Number / Title [DODIC]:** K22900 / Night Vision, Thermal Wpn Sight

**ID Code (A=Service Ready, B=Not Service Ready):**

**MDAP/MAIS Code:**

**Resource Summary**

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<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>329.118</td>
<td>10.074</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>10.074</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>329.118</td>
<td>10.074</td>
<td>-</td>
<td>-</td>
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</tr>
</tbody>
</table>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

**Initial Spares ($ in Millions)**

**Gross/Weapon System Unit Cost ($ in Thousands)**

---

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

**Cost Elements**

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>Flyaway Cost</td>
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**Secondary Distribution**

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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**Total:**

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<th>FY 2016 Total</th>
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<tr>
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**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

---

**Date:** February 2015
## Exhibit P-40, Budget Line Item Justification: PB 2016 Army

### Appropriation / Budget Activity / Budget Sub Activity:
- 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

### P-1 Line Item Number / Title:
- AD3200 / Artillery Accuracy Equip

---

### Resource Summary

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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>4.896</td>
<td>3.338</td>
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<tr>
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<td>4.896</td>
<td>3.338</td>
<td>-</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)
- - - - - - - - - - - -

### Flyaway Unit Cost ($ in Thousands)
- - - - - - - - - - - -

### Gross/Weapon System Unit Cost ($ in Thousands)
- - - - - - - - - - - -

---

### Description:

The Improved Position and Azimuth Determining System (IPADS) provided common inertial survey control for all U.S. Army and Marine Corps Field Artillery, Mortar, Artillery Meteorological and Radar systems. The IPADS, enhanced with the Global Positioning System (GPS) (IPADS-G), will address deficiencies of the fire support community by providing the ability to maintain the current accuracy of the IPADS without stopping for zero velocity updates, therefore increasing artillery timeliness, availability of fires, lethality, survivability, and force protection on extended convoys or artillery missions. The IPADS-G may be aided by an internal GPS receiver; however, it must also be capable of operating in an inertial fashion independent of GPS aiding.

---

### Secondary Distribution

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<tr>
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Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
AD3200 / Artillery Accuracy Equip

Program Elements for Code B Items:

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<th>ID Code</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
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<tr>
<td>A</td>
<td>M75700 / POSITION AZIMUTH DETERMINING SYS (PADS)</td>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td></td>
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<td>(Each) ($ M)</td>
<td>(Each) ($ M)</td>
<td>(Each) ($ M)</td>
<td>(Each) ($ M)</td>
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</tbody>
</table>

Justification:
FY2016 Base Appropriation in the amount of $3.366 million supports the completion of the IPADS-G model conversion ($1.152 million) and the acquisition of a Control and Display Unit replacement ($2.214 million) to address obsolescence. The Army previously contracted for the engineering change proposal to provide the GPS upgrade to the 278 IPADS in the inventory, making them the IPADS-G model. The requested funding supports the continued fielding of the IPADS-G, including essential fielding costs including engineering support, publications, software updates, and new equipment training.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."
## Exhibit P-40a, Budget Item Justification For Aggregated Items

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
AD3200 / Artillery Accuracy Equip

**Aggregated Items Title:**
Various

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**Note:** Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.

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<td>2.634</td>
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<td>4.896</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>241.114</td>
<td></td>
<td>2.634</td>
<td></td>
<td>4.896</td>
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</table>
The Profiler program provides meteorological (MET) wind speed, wind direction, temperature, barometric pressure, and humidity information required for use in the Advance Field Artillery Tactical Data System (AFATDS). All of these are required for precise targeting and terminal guidance. The Profiler program uses a numerical mesoscale weather model to build a four-dimensional MET model (height, width, depth, and time) that includes terrain effects. By providing more accurate MET messages, the Profiler program will enable the artillery to have a greater probability of a first round hit with indirect fire systems. This capability increases the lethality of field artillery systems such as the Multiple Launch Rocket System (MLRS), Paladin, self-propelled or towed howitzers, and mortars.

The Profiler program began with Profiler Block I which used a ground tactical meteorological (TACMET) sensor and MET data from the Air Force Weather Agency (AFWA) broadcast over communications satellites with the weather model to provide highly accurate MET data. Profiler Block III replaces the Profiler Block I and provides a networked laptop configuration that enhances system efficiencies and reduces the system's operational and logistics footprint with the elimination of support vehicles, trailers, and external sensors. The Profiler Block III configuration consists of one computer with a common operating system co-located within the tactical Command Post (CP) with a direct interface to the CP local area network (LAN). The Profiler Virtual Module system is a product improvement to Profiler Block III that can function in a manual or automatic mode allowing for an operator to manually create MET messages or for MET to be automatically generated in response to requests from any connected AFATDS computer. A significant Operations and Support cost avoidance is realized through this improved configuration. The Profiler Virtual Module will address emerging requirements and system long-term software sustainment challenges.

The Profiler Virtual Module concept includes the following updates: update of the weather model; update of software architecture removing legacy Profiler Block I code and creating a modular framework; development in conjunction with the AFATDS program, including AFATDS version II, to provide increased interoperability and usability; and to enable operation of the Profiler system in a virtual machine for use in the Common Operating Environment (COE) versions 2, 3, 4 and 5. This concept is a flexible approach that supports use of existing Profiler Block III hardware, increased accuracy during technical refresh of hardware with higher performance computers, and virtualization on the Command Post Computing Environment (CP CE) server.

The Army Acquisition Objective (AAO) for Profiler Block I is 108.

The Army Acquisition Objective (AAO) for Profiler Block III is 136.

The Profiler Virtual Module product improvement is aligned to the current Army Force Structure and requires the refresh of Profiler Virtual Modules.
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Number / Title:** K27900 / Profiler

<table>
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<tr>
<td>Total Obligation Authority</td>
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<tr>
<td>Total: Secondary Distribution</td>
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<td>Quantity</td>
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<tr>
<td>Total Obligation Authority</td>
<td>3.027</td>
<td>3.115</td>
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</table>
Justification:
FY 2016 Base procurement dollars in the amount of $4.057 million supports the fielding of Profiler Virtual Module Tech refresh systems.

The FY 2016 funding request was reduced by $0.184 million to account for the availability of prior year balances.

“In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.”

<table>
<thead>
<tr>
<th>Exhibits Schedule</th>
<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
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<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
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Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>3.115</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

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**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K27900 / Profiler

**Item Number / Title [DODIC]:**
K27900 / Profiler

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Number / Title:**
BZ7325 / Mod Of In-Svc Equip (Firefinder Radars)

**Date:** February 2015

**Description:**
MOD OF IN-SERVICE EQUIPMENT (Firefinder Radars) funds the modifications to the AN/TPQ-36 Mortar Locating Radar and the AN/TPQ-37 Artillery Locating Radar. The Firefinder Radars use a combination of radar techniques and computer controlled signal processing to detect and locate enemy Rockets, Artillery and Mortar (RAM) with sufficient accuracy, and transmit the target data to appropriate counter fire elements in near real time. The AN/TPQ-36 is phased-array radar which automatically locates mortar and short range rocket launchers. The system is configured on three (3) High Mobility Multi-purpose Wheeled Vehicles (HMMWVs) making it highly mobile and transportable. The AN/TPQ-37 is a phased-array radar with a longer target acquisition range allowing it to locate RAM. The system is configured on a M1048A1 6-ton trailer which is towed by a 5-ton prime mover. The system has a spare 5-ton cargo truck and the Operations Central (OC) is mounted on a M1113 HMMWV truck.

Operationally-required software enhancements and technology insertions for parts obsolescence are necessary to maintain both radars' ability to locate current and emerging threats such as rockets normally used for direct fire. Both systems will receive a ruggedized laptop computer refresh in order to stay up to date and ensure interoperability. The new ruggedized laptop computer will be interchangeable between the AN/TPQ-36 and AN/TPQ-37.

**Army Acquisition Objective (AAO):**
AN/TPQ-36 - 116 (1 per Brigade Combat Team (BCT); Armored, Stryker & Light)  
AN/TPQ-37 - 70 (1 per Armored and Stryker BCT; 2 per Active Component (AC) Field Artillery Brigade; 1 per AC Division Artillery; 1 per National Guard (NG) Fires Brigade)
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Number / Title:** BZ7325 / Mod Of In-Svc Equip (Firefinder Radars)

**ID Code (A=Service Ready, B=Not Service Ready):**

**Program Elements for Code B Items:**

**Other Related Program Elements:**

**Justification:**
There is no FY 2016 Base procurement funding request.
**Description:**

The Joint Battle Command - Platform (JBC-P) program is the cornerstone of joint forces Command and Control (C2) Situational Awareness (SA) and communications. JBC-P provides secure Blue Force Tracking capability in Platforms and Command Posts, providing soldiers and commanders a map-based Common Operating Picture of the battlefield, and as a result, reducing fratricide.

The JBC-P program field hardware (vehicle platform computer systems, satellite transceivers, encryption devices, and ancillary equipment), software capabilities, and will leverage the Army's previous equipment investments by installing the new JBC-P software on new hardware as well as existing Force XXI Battle Command Brigade and Below (FBCB2) computer systems.

JBC-P serves a primary role as the basis of the Mounted Computing Environment (MCE), one of six (6) environments within the Common Operating Environment (COE) framework. The COE is an approved set of computing technologies and standards that enable secure and interoperable applications to be rapidly developed and executed across a variety of computing environments. Future development of the MCE will leverage JBC-P hardware and software to consolidate and integrate multiple warfighting systems in the Platform (Mounted) environment. This integrated MCE, with its open standards, enhanced interoperability, and simplified end-user interface, will speed delivery of the new Mission Command applications to the warfighter while improving the effectiveness and value of current systems.
<table>
<thead>
<tr>
<th>ID Code</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>A=Service Ready, B=Not Service Ready</td>
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<tr>
<td>A=Service Ready, B=Not Service Ready</td>
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</table>

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Total:</td>
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<td></td>
</tr>
</tbody>
</table>

| Total:                 | Quantity |         |              |             |              |         |         |         |         |
| Total:                 | 65.379   | 87.892  | 133.339      | -           | 133.339      | 136.537 | 131.990 | 134.955 | 144.360 |
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Number / Title:**
W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

**ID Code** (A=Service Ready, B=Not Service Ready):

**Program Elements for Code B Items:**

<table>
<thead>
<tr>
<th>ID Code</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>0203759A, 0604805A</td>
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</table>

**Exhibits Schedule**

<table>
<thead>
<tr>
<th>Title*</th>
<th>Exhibits</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

**Note:** Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**
Fiscal Year 2016 Base Procurement dollars in the amount of $133.339 million supports the procurement of 2,988 vehicle platform computer systems, 300 Command Post systems, satellite transceivers, encryption devices, ancillary equipment, program management support, training, fielding, publications, support equipment, and Post Deployment Software and Support (PDSS).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)  
**Item Number / Title [DODIC]:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

**ID Code (A=Service Ready, B=Not Service Ready):**

**MDAP/MAIS Code:**

**Resource Summary**

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<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>287.763</td>
<td>65.379</td>
<td>87.892</td>
<td>133.339</td>
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</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>287.763</td>
<td>65.379</td>
<td>87.892</td>
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<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>287.763</td>
<td>65.379</td>
<td>87.892</td>
<td>133.339</td>
<td>-</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions):**

- 555.527

**Gross/Weapon System Unit Cost ($ in Thousands):**

- 555.527

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

**Cost Elements**

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Cost (K)</td>
<td>Qty (Each)</td>
<td>Total Cost (M)</td>
<td>Unit Cost (K)</td>
<td>Qty (Each)</td>
<td>Total Cost (M)</td>
</tr>
</tbody>
</table>

**Flyaway Cost**

<p>| JBC-P Veh Computer; LIN C05036(†) | - | - | 3.927 | 7.582 | 498 |
| JBC-P Cmd Post; LIN C05037(†) | - | - | 13.425 | 200 | 2.685 |
| JBC-P Log Mobile; LIN Z05189(†) | - | - | 19.997 | 75 | 1.500 |
| JBC-P Log Cmd Post; LIN Z05197(†) | - | - | 2.199 | - | 2.722 |
| Ancillary HW / IKs | - | - | 10.782 | - | 1.500 |
| System Engineering | - | - | 0.500 | - | 0.500 |
| Engineering Changes | - | - | 0.500 | - | 0.500 |
| Subtotal: Recurring Cost | - | - | 21.709 | - | 5.975 |
| Non-Recurring Cost | - | - | 12.177 | - | - |
| Subtotal: Non Recurring Cost | - | - | 21.709 | - | 18.152 |
| Subtotal: Flyaway Cost | - | - | 21.709 | - | 18.152 |
| Support Cost | - | - | - | - | - |</p>
<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unit Cost  ($ K)</td>
<td>Qty (Each)</td>
<td>Total Cost ($ M)</td>
<td>Unit Cost  ($ K)</td>
<td>Qty (Each)</td>
<td>Total Cost ($ M)</td>
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<td>3.318</td>
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<td>System Test and Eval</td>
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<td>Depot Support (RRAD, TYAD)</td>
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<td>KG-72 Encryption Device</td>
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<td>Common Computing Hardware Systems</td>
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<td>TGR - Tactical Ground Reporting Systems</td>
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<td>DFX Disc Duplicator and Purger</td>
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**Secondary Distribution**

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<th>Army</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Quantity</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Quantity</td>
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<td>Total Obligation Authority</td>
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<td>23.960</td>
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<tr>
<td>Quantity</td>
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<tr>
<td>Total Obligation Authority</td>
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<td>10.768</td>
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<td>Secondary Distribution</td>
<td>FY 2014</td>
<td>FY 2015</td>
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<td>FY 2016 OCO</td>
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<tr>
<td></td>
<td>65.379</td>
<td>87.892</td>
<td>133.339</td>
<td>-</td>
<td>133.339</td>
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(†) indicates the presence of a P-5a
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<thead>
<tr>
<th>Cost Elements</th>
<th>O C O</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>JBC-P Veh Computer; LIN C05036</td>
<td></td>
<td>2014</td>
<td>DRS Tactical / Melbourne, FL</td>
<td>C / FFP</td>
<td>Army Contracting Cmd, APG, MD</td>
<td>Nov 2013</td>
<td>Dec 2013</td>
<td>498</td>
<td>7.582</td>
<td>Y</td>
<td></td>
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<tr>
<td>JBC-P Veh Computer; LIN C05036(†)</td>
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<td>2015</td>
<td>DRS Tactical / Melbourne, FL</td>
<td>C / FFP</td>
<td>Army Contracting Cmd, APG, MD</td>
<td>Nov 2014</td>
<td>May 2015</td>
<td>2,422</td>
<td>7.582</td>
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<td>JBC-P Veh Computer; LIN C05036(†)</td>
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<td>JBC-P Cmd Post; LIN C05037(†)</td>
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<td>JBC-P Log Mobile; LIN Z05189(†)</td>
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<td>JBC-P Log Cmd Post; LIN Z05197(†)</td>
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<th>Calendar Year 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<tr>
<td>JBC-P Veh Computer; LIN C05036</td>
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<tr>
<td>1 2015 ARMY 2,422</td>
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<td>1 2016 ARMY 2,241</td>
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<td>2,241</td>
<td>A</td>
</tr>
<tr>
<td>JBC-P Cmd Post; LIN C05037</td>
<td></td>
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</tr>
<tr>
<td>2 2015 ARMY 200</td>
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<td>A</td>
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<tr>
<td>2 2016 ARMY 225</td>
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<td>-</td>
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<td>A</td>
</tr>
<tr>
<td>JBC-P Log Mobile; LIN Z05199</td>
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<td>3 2016 ARMY 747</td>
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<td>747</td>
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<tr>
<td>JBC-P Log Cmd Post; LIN Z05197</td>
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<td>4 2016 ARMY 75</td>
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### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

**Item Number / Title [DODIC]:**
W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

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### Cost Elements (Units in Each)

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<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
<td>Fiscal Year 2016</td>
<td>Calendar Year 2016</td>
<td>Fiscal Year 2017</td>
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<td></td>
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<td>Calendar Year 2016</td>
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</table>

**JBC-P Veh Computer; LIN C05036**

<table>
<thead>
<tr>
<th>Year</th>
<th>Service</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
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**JBC-P Cmd Post; LIN C05037**

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**JBC-P Log Mobile; LIN Z05198**

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**JBC-P Log Cmd Post; LIN Z05197**

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**LI W61990 - JOINT BATTLE COMMAND - PLATFORM (JBC-P)**
Exhibit P-21, Production Schedule: PB 2016 Army  
Date: February 2015

**Exhibit P-21 Production Schedule**

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A / 02 / 86

**P-1 Line Item Number / Title:**
- W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

**Item Number / Title [DODIC]:**
- W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P)

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<th>MAX For 2016</th>
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<th>Mfg PLT</th>
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<tbody>
<tr>
<td>1</td>
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<td>150</td>
<td>220</td>
<td>1,200</td>
<td>1</td>
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<td>5</td>
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<td>2</td>
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<tr>
<td>3</td>
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</table>

**Production Rates (Each / Month)**

**Procurement Leadtime (Months)**

**Remarks:**
- Fluctuations in quantities are based on associated support item requirements in outyears. The support item procurement may reduce end item procurement. TBD
- "A" in the Delivery Schedule indicates the Contract Award Date.
- Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
Description:
The Joint Effects Targeting Systems (JETS) Target Locator/Designator System (TLDS) provides the dismounted observer and the joint terminal attack controller an integrated, lightweight, modular capability to detect, identify, accurately locate in three dimensions, mark, and designate targets and provide accurate target location coordinates to a forward entry device. The JETS TLDS is an Army program with joint interest (Air Force and Marine Corps).

JETS will support the Army Fires Center of Excellence two sensor strategy to reduce the number of Fires optical targeting systems to two configurations. JETS will satisfy the requirement for the dismounted precision targeting sensor for the individual observer.

This program is a new start in FY 2016.

The draft Approved Acquisition Objective for this program is 3,287.

### Resource Summary

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>47.212</td>
<td>-</td>
<td>47.212</td>
<td>51.110</td>
<td>48.857</td>
<td>43.493</td>
<td>73.587</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<td>-</td>
<td>47.212</td>
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<td>48.857</td>
<td>43.493</td>
<td>73.587</td>
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<td>Continuing</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>47.212</td>
<td>-</td>
<td>47.212</td>
<td>51.110</td>
<td>48.857</td>
<td>43.493</td>
<td>73.587</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Secondary Distribution

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LI K32101 - JOINT EFFECTS TARGETING SYSTEM (JETS)
## Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

## P-1 Line Item Number / Title:
K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

### ID Code (A=Service Ready, B=Not Service Ready):

<table>
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<th>ID Code</th>
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<th>Other Related Program Elements:</th>
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**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics  
Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Number / Title:**  
K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

---

### Exhibits Schedule

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<tr>
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<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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<tr>
<td>Exhbits Schedule</td>
<td>Prior Years</td>
<td>FY 2014</td>
</tr>
<tr>
<td>K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)</td>
<td>P-5, P-5a, P-21</td>
<td>*<em>Title</em></td>
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<td></td>
<td></td>
<td><strong>P-5</strong></td>
</tr>
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<td></td>
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<td>- / -</td>
</tr>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.*

**Note:** Totals in this Exhibit P-40 set may not be exact or add due to rounding.

---

**Justification:**

FY 2016 Base procurement dollars in the amount of $47.212 million procures 71 JETS and initial production tooling and test equipment (non-recurring).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
**Exhibit P-5, Cost Analysis:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

**Item Number / Title [DODIC]:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

**UNCLASSIFIED**

**Date:** February 2015

**Resource Summary**

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<th>FY 2015</th>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>47.212</td>
<td>-</td>
<td>47.212</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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<td>Project Management</td>
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<td>Systems Engineering Support</td>
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<td>System Test and Evaluation</td>
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<td>Training</td>
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<tr>
<td>Subtotal: Recurring Cost</td>
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- **Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

- **Initial Spares ($ in Millions):**
  - FY 2014: -
  - FY 2015: -
  - FY 2016 Base: -
  - FY 2016 OCO: -
  - FY 2016 Total: -

- **Gross/Weapon System Unit Cost ($ in Thousands):**
  - FY 2014: -
  - FY 2015: -
  - FY 2016 Base: 664.958
  - FY 2016 OCO: -
  - FY 2016 Total: 664.958

- **Procurement Quantity (Units in Each):**
  - FY 2014: -
  - FY 2015: -
  - FY 2016 Base: -
  - FY 2016 OCO: -
  - FY 2016 Total: -

- **Gross/Weapon System Cost ($ in Millions):**
  - FY 2014: -
  - FY 2015: -
  - FY 2016 Base: 47.212
  - FY 2016 OCO: -
  - FY 2016 Total: 47.212

- **Subtotal: Recurring Cost ($ in Millions):**
  - FY 2014: -
  - FY 2015: -
  - FY 2016 Base: 32.257
  - FY 2016 OCO: -
  - FY 2016 Total: 32.257

- **Non Recurring Cost ($ in Millions):**
  - FY 2014: -
  - FY 2015: -
  - FY 2016 Base: -
  - FY 2016 OCO: -
  - FY 2016 Total: -

LI K32101 - JOINT EFFECTS TARGETING SYSTEM (JETS)

Army

Page 4 of 9

P-1 Line #82
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

**Item Number / Title [DODIC]:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</tbody>
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(*) indicates the presence of a P-5a
Exhibit P-5a, Procurement History and Planning: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86

P-1 Line Item Number / Title: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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</table>

(*) indicates the presence of a P-21

Remarks:
JETS is currently in the Engineering and Manufacturing Development (EMD) phase of the acquisition lifecycle, scheduled to achieve Milestone C (Low Rate Initial Production (LRIP)) in Feb 2016.
### Joint Effects Targeting System

**Exhibit P-21, Production Schedule:**

<table>
<thead>
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<th>Date: February 2015</th>
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**Appropriation / Budget Activity / Budget Sub Activity:**

2035A / 02 / 86

**P-1 Line Item Number / Title:**

K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

**Item Number / Title [DODIC]:**

K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

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<td>A</td>
</tr>
<tr>
<td>T</td>
<td>V</td>
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Joint Effects Targeting System

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## Joint Effects Targeting System

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<td>A</td>
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<tr>
<td>T</td>
<td>V</td>
<td>C</td>
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Joint Effects Targeting System
### Production Schedule

**Exhibit P-21, Production Schedule:** PB 2016 Army  
**Date:** February 2015

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 86

#### P-1 Line Item Number / Title:
K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

#### Item Number / Title [DODIC]:
K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS)

<table>
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<th>MFR Name - Location</th>
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<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
<th>Production Rates (Each / Month)</th>
<th>Procurement Leadtime (Months)</th>
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**Remarks:**
Vendor have not been selected. Program is still in development. Single vendor will be selected after MS C.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999, all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000, all quantities are shown in billions (rounded to the nearest million).
UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Number / Title:
KA3100 / Mod Of In-Svc Equip (LLDR)

Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | 378.203 | - | 378.203 | - | - | - | - |

Description:

MOD OF IN-SERVICE EQUIPMENT (LLDR) funds the retrofit of the Lightweight Laser Designator Rangefinder (LLDR, AN/PED-1 and AN/PED-1A) to incorporate target location improvements. The upgraded LLDR system is type classified as an AN/PED-1B(2H). The LLDR is a modular system designed for crew-served, man-portable day/night all-weather use for determining the precise location of threat targets, and for designating threat targets for engagement by Global Position System (GPS) guided and laser guided precision munitions for a variety of Army and Joint weapons systems. The Target Location Module uses a thermal night vision sensor, day camera, laser rangefinder, and digital compass, GPS, and system controller with digital data and video outputs. The Laser Designator Module provides the capability to guide laser-guided munitions and the capability to mark targets for targeting hand-off to aircraft. This effort also replaces earlier Laser Designator Modules with new diode-pumped Laser Designator Modules, reducing weight and power requirements, resulting in lower sustainment costs. The target location improvement retrofit adds a precision azimuth measurement sensor to supplement the digital compass and brings LLDR systems to a common configuration. Target location improvements enable precision target location and engagement with current and future precision munitions by dismounted fire support teams.

The LLDR with target location improvements will support the Army Fires Center of Excellence two-sensor strategy to reduce the number of Fires optical targeting systems to two configurations. LLDR will continue to fill its role as a crew-served, dismounted precision targeting system and will in the future integrate with Fire Support vehicle mission equipment packages to also serve as the mounted Fires targeting system.

Funding in this program supports upgrade of LLDR for increased target location accuracy to facilitate employment of currently fielded GPS guided Precision Munitions by dismounted fire support teams. The Army Acquisition Objective (AAO) for this program is 2,700. Only 200 of the AAO were built in the 2H configuration, the remaining 2,500 require retrofit.

Secondary Distribution

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LI KA3100 - Mod Of In-Svc Equip (LLDR)

UNCLASSIFIED

Page 1 of 6

P-1 Line #83
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Number / Title:**
KA3100 / Mod Of In-Svc Equip (LLDR)

**Date:** February 2015

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<thead>
<tr>
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<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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### Justification:

FY 2016 Base procurement dollars in the amount of $22.314 million supports the retrofit of 59 existing LLDR systems with target location improvement.
Exhibit P-3a, Individual Modification: PB 2016 Army

Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions)

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Description:
MOD OF IN-SERVICE EQUIPMENT (LLDR) funds the retrofit of the Lightweight Laser Designator Rangefinder (LLDR, AN/PED-1 and AN/PED-1A) to incorporate target location improvements. The LLDR is a modular system designed for crew-served, man-portable day/night all-weather use for determining the precise location of threat targets, and for designating threat targets for engagement by Global Position System (GPS) precision and laser guided munitions for a variety of Army and Joint weapons systems. The Target Location Module uses a thermal night vision sensor, day camera, laser rangefinder, and digital compass, GPS, and system controller with digital data and video outputs. The Laser Designator Module provides the capability to guide laser-guided munitions and the capability to mark targets for targeting hand-off to aircraft. This effort also replaces earlier Laser Designator Modules with new diode-pumped Laser Designator Modules, reducing weight and power requirements, resulting in lower sustainment costs. The target location improvement retrofit adds a precision azimuth measurement sensor to supplement the digital compass and brings LLDR systems to a common configuration. Target location improvements enable precision target location and engagement with current and future precision munitions by dismounted fire support teams.
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**UNCLASSIFIED**

**Exhibit P-3a, Individual Modification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** KA3100 / Mod Of In-Svc Equip (LLDR)

**Modification Number / Title:** KA3100 / LLDR Target Location Improvement

**Modification Item 1 of 1:** LLDR Target Location Improvement

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**Method of Implementation:** Retrofit

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**Total Cost**

- Prior Years: $0.000
- FY 2014: $0.000
- FY 2015: $0.000
- FY 2016: $0.000
- FY 2017: $0.000
- FY 2018: $0.000
- FY 2019: $0.000
- FY 2020: $0.000

**P-1 Line #83**
**Description:**

The M32A1 and M32A2 Lightweight Handheld Mortar Ballistic Computer (LHMBCC) calculates ballistic solutions that give the mortar user data to aim mortar weapon, set the charge, and serve as the Fire Direction Center for all mortar platforms. The M32A1 LHMBCC communicates digitally on the Single Channel Ground and Airborne Radio System (SINCGARS). The M32A2 communicates digitally on the newly fielded Soldier Radio Waveform (SRW) Fire Support Network. Both the M32A1 and M32A2 LHMBCC versions provide firing computations for all calibers of mortars as well as digital messaging capability. The M32A2 LHMBCC will utilize Nett Warrior (NW) Mobile/Handheld (M/HH) platform and will be compatible with Common Operating Environment (COE) 2.0 compliance. The M32A2 LHMBCC will comply with ASA(ALT) COE directive for M/HH platform. The M32A1 Lightweight Handheld Mortar Ballistic Computer (LHMBCC) will utilize the Ruggedized Tactical Handheld Device (RTHD) platform and will be compatible with COE 1.0 compliance.

This program is a new start in FY 2016.

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(Initial Spares ($ in Millions) - - - - - - - - - - - - Flyaway Unit Cost ($ in Thousands) - - - - - - - - - - - - Gross/Weapon System Unit Cost ($ in Thousands) - - - 133.927 - 133.927 - - - - - 7,734.789)

**Secondary Distribution**

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**Other Related Program Elements:**

**Description:**

The M32A1 and M32A2 Lightweight Handheld Mortar Ballistic Computer (LHMBCC) calculates ballistic solutions that give the mortar user data to aim mortar weapon, set the charge, and serve as the Fire Direction Center for all mortar platforms. The M32A1 LHMBCC communicates digitally on the Single Channel Ground and Airborne Radio System (SINCGARS). The M32A2 communicates digitally on the newly fielded Soldier Radio Waveform (SRW) Fire Support Network. Both the M32A1 and M32A2 LHMBCC versions provide firing computations for all calibers of mortars as well as digital messaging capability. The M32A2 LHMBCC will utilize Nett Warrior (NW) Mobile/Handheld (M/HH) platform and will be compatible with Common Operating Environment (COE) 2.0 compliance. The M32A2 LHMBCC will comply with ASA(ALT) COE directive for M/HH platform. The M32A1 Lightweight Handheld Mortar Ballistic Computer (LHMBCC) will utilize the Ruggedized Tactical Handheld Device (RTHD) platform and will be compatible with COE 1.0 compliance.

This program is a new start in FY 2016.
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**Date:** February 2015

<table>
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<th>ID Code</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>K99200 / Computer Ballistics: LHMBC XM32</td>
<td>P-1 Line Item Number / Title:</td>
<td></td>
</tr>
</tbody>
</table>

### Exhibits Schedule

<table>
<thead>
<tr>
<th>Title*</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>K99200 / Computer Ballistics: LHMBC XM32</td>
<td>P-5, P-5a, P-21</td>
<td>-</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>107.912</td>
<td>- / -</td>
<td>- / 12.131</td>
<td>- / 2.601</td>
<td>- / 14.732</td>
</tr>
</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

FY 2016 Base procurement dollars in the amount of $12.131M supports LHMBC software integration of COE 2.0 onto NW platform and procurement of 653ea M32A2 LHMBC NW computers. The M32A2 LHMBC NW with the latest software are urgently needed to replace the obsolete M32 Ruggedized Personal Digital Assistance (RPDA) computers in the field. LHMBC eliminates the need of paper firing table, improves the accuracy of mortar ballistic calculation, and increases survivability of mortar crews by digitally connecting to Fire Support network to receive fire missions and Fire Support Coordination Measures to conduct fratricide check.

FY 2016 OCO procurement dollars in the amount of $2.601M supports replacement of 110ea M32 LHMBC RPDA with M32A1 LHMBC RTHD due to combat losses and washouts from combat operations (Unserviceable Condition Code F (unrepairable), G (incomplete), and H (condemned) systems in Theater Provided Equipment (TPE) stock. The M32A1 RTHD computer will served as an interim computer to fulfill; US Army and US Army National Guard Infantry Brigade Combat Team shortages during Army reorganization until the M32A2 LHMBC NW integration is complete.
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** K99200 / Computer Ballistics: LHMBC XM32

**Item Number / Title [DODIC]:** K99200 / Computer Ballistics: LHMBC XM32

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>MDAP/MAIS Code:</th>
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</thead>
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<tr>
<td></td>
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</table>

**Resource Summary**

<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>107.912</td>
<td>-</td>
<td>-</td>
<td>12.131</td>
<td>2.601</td>
<td>14.732</td>
</tr>
</tbody>
</table>

(For the following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions):**

| Initial Spares ($ in Millions) | - | - | - | - | - | - |

**Gross/Weapon System Unit Cost ($ in Thousands):**

| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | 133.927 | - | 133.927 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Flyaway Cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LHMBC M32A2††</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>LHMBC M32A1††</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<td>Production Engineering</td>
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<td>- 107.912</td>
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<td>Fielding, Installation &amp; New Equip Train</td>
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<td>-</td>
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<td>-</td>
<td>0.336</td>
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<tr>
<td>M32A2 COE SW</td>
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<td>5.400</td>
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<td>Subtotal: Recurring Cost</td>
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<tr>
<td>Subtotal: Flyaway Cost</td>
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<td>12.131</td>
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<tr>
<td>Gross/Weapon System Cost</td>
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<td>133.927</td>
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<thead>
<tr>
<th>Secondary Distribution</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Army</td>
<td>-</td>
<td>-</td>
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<td>Total: Secondary Distribution</td>
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<td>-</td>
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<td>12.131</td>
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**Secondary Distribution**

**Army**

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<th>Quantity</th>
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<th>FY 2015</th>
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<td></td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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</tbody>
</table>

Total Obligation Authority

<p>| Total Obligation Authority | - | - | 12.131 | 2.601 | 14.732 |</p>
<table>
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<th>Date: February 2015</th>
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<td>Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86</td>
<td>P-1 Line Item Number / Title: K99200 / Computer Ballistics: LHMBC XM32</td>
</tr>
<tr>
<td>Item Number / Title [DODIC]: K99200 / Computer Ballistics: LHMBC XM32</td>
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<td>ID Code (A=Service Ready, B=Not Service Ready): (†)</td>
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(†) indicates the presence of a P-5a
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<tr>
<th>Cost Elements</th>
<th>O C O</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost (K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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</table>

(†) indicates the presence of a P-21
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K99200 / Computer Ballistics: LHMBC XM32

**Item Number / Title [DODIC]:**
K99200 / Computer Ballistics: LHMBC XM32

**Date:** February 2015

#### Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements (Units in Each)</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCF # FY SERVICE PROC QTY</td>
<td>ACCEPT PRIOR TO 1 OCT 2015</td>
<td>BAL DUE AS OF 1 OCT 2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LHMBC M32A2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 2016 ARMY</td>
<td>653</td>
<td>-</td>
<td>653</td>
<td>-</td>
</tr>
<tr>
<td>LHMBC M32A1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓ 2 2016 ARMY</td>
<td>110</td>
<td>-</td>
<td>110</td>
<td>-</td>
</tr>
</tbody>
</table>

| LHMBC M32A2 | | | | |
| | | | | |
| LHMBC M32A1 | | | | |
| ✓ 2 2016 ARMY | 110 | - | 110 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | 20 | 20 | 50 |

LI K99200 - Computer Ballistics: LHMBC XM32

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P-1 Line #84
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K99200 / Computer Ballistics: LHMBC XM32

**Item Number / Title [DODIC]:**
K99200 / Computer Ballistics: LHMBC XM32

**Date:**
February 2015

<table>
<thead>
<tr>
<th>Cost Elements (Units in Each)</th>
<th>Fiscal Year 2018</th>
<th>Calendar Year 2018</th>
<th>Fiscal Year 2019</th>
<th>Calendar Year 2019</th>
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<tbody>
<tr>
<td>MFC O# FY SERVICE PROC QTY ACCEPT PRIOR TO 1 OCT 2017 BAL DUE AS OF 1 OCT</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LHMBC M32A2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 2016 ARMY</td>
<td>653</td>
<td>180</td>
<td>473</td>
<td>60</td>
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<tr>
<td>LHMBC M32A1</td>
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</tr>
<tr>
<td>✓ 2 2016 ARMY</td>
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<td>60</td>
<td>50</td>
<td>20</td>
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LI K99200 - Computer Ballistics: LHMBC XM32
## Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K99200 / Computer Ballistics: LHMBC XM32

**Item Number / Title [DODIC]:**
K99200 / Computer Ballistics: LHMBC XM32

**Date:** February 2015

### Production Rates (Each / Month)

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>MSR For 2016</th>
<th>1-8-5 For 2016</th>
<th>MAX For 2016</th>
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<tbody>
<tr>
<td>1</td>
<td>TBS - TBD</td>
<td>30</td>
<td>60</td>
<td>80</td>
</tr>
<tr>
<td>2</td>
<td>TBS - TBD</td>
<td>30</td>
<td>60</td>
<td>80</td>
</tr>
</tbody>
</table>

### Procurement Leadtime (Months)

<table>
<thead>
<tr>
<th>MFR Ref #</th>
<th>MFR Name - Location</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TBS - TBD</td>
<td>3</td>
<td>7</td>
<td>14</td>
<td>21</td>
<td>3</td>
<td>7</td>
<td>12</td>
<td>19</td>
</tr>
<tr>
<td>2</td>
<td>TBS - TBD</td>
<td>3</td>
<td>7</td>
<td>14</td>
<td>21</td>
<td>3</td>
<td>7</td>
<td>12</td>
<td>19</td>
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</tbody>
</table>

*"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999, all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000, all quantities are shown in billions (rounded to the nearest million).
Resource Summary

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Procurement Quantity</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Less PY Advance Procurement</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Plus CY Advance Procurement</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

(continued)

Description:
The Mortar Fire Control System (MFCS) accurately determines weapon position and orientation, navigates, calculates ballistics, and communicates digitally on the Single Channel Ground and Airborne Radio System (SINCGARS) and the newly fielded Soldier Radio Waveform (SRW) fire support net. The MFCS consists of the M95/M96 version that is used on mounted 120mm mortars in Armor and Stryker Brigade Combat Teams, and the M150/M151 version that is used on the M120A1 120mm Towed Mortar that is fielded throughout all Infantry Brigade Combat Teams (IBCT). The M95 is used on the M1064A2/M1064A3 Mortar Carriers with the M121 Battalion Mortar System and the M1129A1 Stryker 120mm Mortar Carrier with the 120mm Recoiling Mortar System. The M96 is used on M577 Mortar Fire Direction Center (FDC) vehicle. The M150 is used on the M120A1 120mm Towed Mortar that is mounted on the M1101 Trailer. The M151 is used on the M1097 HWMMV that serves as the IBCT Mortar FDC. Both the M95 and M150 consist of five main components: 1) The Commander's Interface (CI) or Fire Control Computer (FCC) (M150) links the MFCS components together, communicates, and calculates the ballistic solutions. 2) The Tactical Advanced Land Inertial Navigator (TALIN) is the pointing device and position system that provides the weapon's position, pointing azimuth and elevation. 3) The Gunner's Display (GD) shows the gunner where to point the tube, shows weapon's azimuth and elevation, and the ballistic firing solution. 4) The Driver's Display (DD) (M95 only) provides a "steer-to" display to aid in navigation and emplacement of the vehicle, and 5) The Power Distribution Assembly/Enhanced Power Distribution Assembly filters vehicle power and acts as a circuit breaker isolating MFCS line replaceable units from power fluctuations and surges. The M96 and M151 each consist primarily of the CI (M96) or FCC (M151), installed in the FDC vehicle.
## Exhibit P-40, Budget Line Item Justification

PB 2016 Army

### Date
February 2015

#### Appropriation / Budget Activity / Budget Sub Activity
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

#### P-1 Line Item Number / Title
K99300 / Mortar Fire Control System

### ID Code
(A=Service Ready, B=Not Service Ready) : B

#### Program Elements for Code B Items

|------------------------|---------|--------------|-------------|---------------|---------|---------|---------|---------|

### Other Related Program Elements
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Number / Title:**
K99300 / Mortar Fire Control System

**ID Code** (A=Service Ready, B=Not Service Ready) : B

<table>
<thead>
<tr>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Exhibits Schedule</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title*</td>
<td>Exids CD</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
</tr>
<tr>
<td>K99300 / Mortar Fire Control System</td>
<td>P-5, P-5a, P-21</td>
<td>B</td>
<td>- / 346.496</td>
<td>- / 23.100</td>
<td>- / 29.040</td>
<td>- / 10.075</td>
</tr>
</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**
FY 2016 Base procurement dollars in the amount of $10.075 million supports the procurement of (92) SRW Hardware Upgrade kit and (144) M95 Stryker FCCs. Systems are urgently required for fielding to eight US Army and Army National guard Infantry Brigade Combat Teams in accordance with HQDA Army Force Generation (ARFORGEN) fielding schedules. These systems improve the accuracy of the M120 towed mortar system from 138 meters Circular Error Probable (CEP) to 75 meters CEP, allowing for first round fire for effect. The systems also increase survivability of mortar crews by eliminating soldier dismount, and adds digital connectivity to the Fire Support network and connectivity to SINCGARS and Force XXI Battle Command Brigade and Below (FBCB2) situational awareness blue data.

Army Acquisition Objective for M150 totals 700
Army Acquisition Objective for TALIN totals 700
Army Acquisition Objective for M151 totals 138

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

---

**LI K99300 - Mortar Fire Control System**

**UNCLASSIFIED**

**Army**

**Page 3 of 9**
**Resource Summary**

<table>
<thead>
<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>346.496</td>
<td>23.100</td>
<td>29.040</td>
<td>10.075</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<td>Net Procurement (P1) ($ in Millions)</td>
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<td>23.100</td>
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<td>10.075</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>346.496</td>
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<td>10.075</td>
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<td>10.075</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Table: Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements</th>
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<th>Qty (Each)</th>
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## Exhibit P-5, Cost Analysis: PB 2016 Army

### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 86

### P-1 Line Item Number / Title:
K99300 / Mortar Fire Control System

### Item Number / Title [DODIC]:
K99300 / Mortar Fire Control System

### ID Code
(A=Service Ready, B=Not Service Ready): B

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(*) indicates the presence of a P-5a
## Cost Elements

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<th>Location of PCO</th>
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<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now</th>
<th>Date Revision Available</th>
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(†) indicates the presence of a P-21
### Exhibit P-21, Production Schedule: PB 2016 Army

#### Appropiation / Budget Activity / Budget Sub Activity:
2035A / 02 / 86

#### P-1 Line Item Number / Title:
K99300 / Mortar Fire Control System

#### Item Number / Title [DODIC]:
K99300 / Mortar Fire Control System

**Date:** February 2015

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<th>Calendar Year 2015</th>
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**UNCLASSIFIED**

LI K99300 - Mortar Fire Control System

**UNCLASSIFIED**

Army

Page 7 of 9

P-1 Line #85

435
Exhibit P-21, Production Schedule: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86
P-1 Line Item Number / Title: K99300 / Mortar Fire Control System

Item Number / Title [DODIC]: K99300 / Mortar Fire Control System

Cost Elements (Units in Each)

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TALIN - Dependant of M150

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| 3 2015 ARMY | 118 | - | 118 | - | - | 30 | 30 | 30 | 28 | - |

MFC (M150)- SRW Radio Hardware Upgrade

| 4 2016 ARMY | 92 | - | 92 | A | - | - | - | - | - | - | - | - | 30 | 30 | 32 | - |

M95 Stryker FCC

| 5 2015 ARMY | 36 | - | 36 | - | - | - | - | - | - | - | - | 36 | - |
| 5 2016 ARMY | 144 | - | 144 | - | - | - | - | - | - | - | - | 35 | 35 | 33 | 41 |
## Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
K99300 / Mortar Fire Control System

**Item Number / Title [DODIC]:**
K99300 / Mortar Fire Control System

**Date:** February 2015

### Production Rates (Each / Month)

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### Initial Procurement Leadtime (Months)

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<td>9</td>
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*A* in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999, all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).
Description:
The AN/TPQ-53 (formerly known as the Enhanced AN/TPQ-36) Counterfire Target Acquisition Radar System Capability Production Document (CPD) was approved on 29 September 2010. The AN/TPQ-53 System is a highly mobile radar set that automatically detects, classifies, tracks, and locates the point of origin of projectiles fired from rocket, artillery and mortar (RAM) systems with sufficient accuracy for first round fire for effect. It mitigates close combat radar coverage gaps and will replace the current AN/TPQ-36 and AN/TPQ-37 Firefinder Radars, modernizing brigade combat teams (BCTs) and fires brigades. The AN/TPQ-53 System interoperates with battle command systems (BCSs) to provide the maneuver commander increased counterfire radar flexibility. The AN/TPQ-53 system is capable of being deployed as part of the Indirect Fire Protection Capability (IFPC) system of systems (SoS) to provide a sense and warn capability for fixed and semi-fixed sites. The AN/TPQ-53 System provides a system with increased range and accuracy throughout a 90 degree search sector (stare mode) as well as 360 degree coverage (rotating) for locating mortar, artillery and rocket firing positions.

Army Acquisition Objective (AAO): 174
### Justification:

The Fiscal Year (FY) 2016 procurement dollars in the amount of $217.379 million supports the procurement of fifteen (15) AN/TPQ-53 radars.

The FY 2016 funding request was reduced by $69.097 million to account for the availability of prior year execution balances.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Army

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<th>MDAP/MAIS Code:</th>
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Appropriation / Budget Activity / Budget Sub Activity:

2035A / 02 / 86

P-1 Line Item Number / Title:
BA5500 / Counterfire Radars

Item Number / Title [DODIC]:
B05310 / ENHANCED AN/TPQ 36

### Resource Summary

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Gross/Weapon System Cost ($ in Millions)

1,452.265 348.557 159.050 217.379 - 217.379

Less PY Advance Procurement ($ in Millions)

- - - - - -

Net Procurement (P1) ($ in Millions)

1,452.265 348.557 159.050 217.379 - 217.379

Plus CY Advance Procurement ($ in Millions)

- - - - - -

Total Obligation Authority ($ in Millions)

1,452.265 348.557 159.050 217.379 - 217.379

The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.

Initial Spares ($ in Millions)

- - - - - -

Gross/Weapon System Unit Cost ($ in Thousands)

17,288.869 17,427.850 17,672.222 14,491.933 - 14,491.933

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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<th>FY 2016 Base</th>
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### Cost Elements

#### Flyaway Cost

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<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
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<td>-</td>
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<td>224.440</td>
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<td>99.666</td>
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<td>Subtotal: Recurring Cost</td>
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<td>Subtotal: Flyaway Cost</td>
<td>-</td>
<td>1,452.265</td>
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</table>

#### Gross/Weapon System Cost

17,288.869 20 1,452.265 17,427.850 1,452.265 17,672.222 9 159.050 14,491.933 15 217.379 - 217.379

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

---

LI BA5500 - Counterfire Radars

Unclassified

Page 3 of 9

P-1 Line #86
## Exhibit P-5, Cost Analysis: PB 2016 Army

### P-1 Line Item Number / Title:
- BA5500 / Counterfire Radars

### Appropriation / Budget Activity / Budget Sub Activity:
- 2035A / 02 / 86

### Item Number / Title [DODIC]:
- B05310 / ENHANCED AN/TPQ 36

### ID Code (A=Service Ready, B=Not Service Ready):
- MDAP/MAIS Code:
  - B05310 / ENHANCED AN/TPQ 36

### Secondary Distribution

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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Date:** February 2015

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<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
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<td>SS / FP</td>
<td>CECOM</td>
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*(†) indicates the presence of a P-21*
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86  
**P-1 Line Item Number / Title:** BA5500 / Counterfire Radars  
**Item Number / Title [DODIC]:** B05310 / ENHANCED AN/TPQ 36  

**Date:** February 2015

#### Cost Elements (Units in Each)

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<th>FY</th>
<th>SERVICE</th>
<th>PROC QTY</th>
<th>ACCEPT PRIOR TO 1 OCT 2013</th>
<th>BAL DUE AS OF 1 OCT 2013</th>
<th>Fiscal Year 2014</th>
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<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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Hardware (AN/TPQ-53)

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## Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** BA5500 / Counterfire Radars

**Item Number / Title [DODIC]:** B05310 / ENHANCED AN/TPQ 36

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**Cost Elements**

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<th>Cost Elements</th>
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<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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**Hardware (AN/TPQ-53)**

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<th>SERVICE</th>
<th>PROC QTY</th>
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**LI BA5500 - Counterfire Radars**

**UNCLASSIFIED**

**Army**

**Page 7 of 9**

**P-1 Line #86**
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
BA5500 / Counterfire Radars

**Item Number / Title [DODIC]:**
B05310 / ENHANCED AN/TPQ 36

---

#### Cost Elements (Units in Each)

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<th>PROC QTY</th>
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<th>Calendar Year 2018</th>
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<th>Calendar Year 2019</th>
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**LI BA5500 - Counterfire Radars**

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P-1 Line #86
### Exhibit P-21, Production Schedule: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 86

**P-1 Line Item Number / Title:**
BA5500 / Counterfire Radars

**Item Number / Title [DODIC]:**
B05310 / ENHANCED AN/TPQ 36

**Date:** February 2015

### Production Rates (Each / Month)

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### Procurement Leadtime (Months)

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<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
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</tr>
<tr>
<td>4</td>
<td>Lockheed Martin - Syracuse, NY</td>
<td>12</td>
<td>24</td>
<td>60</td>
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</table>

### Remarks:
- * Pending a successful Initial Operational Test and Evaluation (IOT&E) and Full Rate Production (FRP) decision.

*A* in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

### Service/Agency Suffixes:
- **(XVI)** LRIP Lot 4
- **(XVII)** FRP Lot 1

LI BA5500 - Counterfire Radars

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Page 9 of 9
P-1 Line Item Number / Title: B28501 / Fire Support C2 Family

Approval / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

Resource Summary

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020 To Complete</th>
<th>Total</th>
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Procurement Quantity (Units in Each)

- Gross/Weapon System Cost ($ in Millions)
  896.389
  38.828
  13.823
  1.190
  0.048
  1.238
  3.890
  3.856
  3.381
  1.112 Continuing

- Less PY Advance Procurement ($ in Millions)
  896.389
  38.828
  13.823
  1.190
  0.048
  1.238
  3.890
  3.856
  3.381
  1.112 Continuing

- Net Procurement (P1) ($ in Millions)
  896.389
  38.828
  13.823
  1.190
  0.048
  1.238
  3.890
  3.856
  3.381
  1.112 Continuing

- Plus CY Advance Procurement ($ in Millions)
  -
  -
  -
  -
  -
  -
  -
  -
  -

- Total Obligation Authority ($ in Millions)
  896.389
  38.828
  13.823
  1.190
  0.048
  1.238
  3.890
  3.856
  3.381
  1.112 Continuing

Description:

Fire Support Command and Control (FSC2) systems automate the planning and execution of fire support operations so that a suitable weapon or group of weapons adequately covers targets. Fire support is the effects of lethal and non-lethal weapons (fires) that directly support land, maritime, amphibious and special operation forces to engage enemy forces, combat formations, and facilities in pursuit of tactical and operational objectives. FSC2 family consists of Gun Display Unit -Replacement (GDU-R), Ruggedized Handheld Computer (RHC), Advanced Field Artillery Tactical Data System (AFATDS), Light Weight Technical Fire Direction System (LWTFDS), and Pocket-sized Forward Entry Device (PFED).

The Gun Display Unit-Replacement (GDU-R) system allows non-digitized howitzer firing sections to receive and display firing data and firing commands transmitted by the Advanced Field Artillery Tactical Data System (AFATDS) at the platoon Fire Direction Center, and transmit the status of the gun to the AFATDS as the fire mission progresses. The GDU-R is fully fielded and will be retired when the last M119A2 towed howitzer is digitized.

The Ruggedized Handheld Computer (RHC) is hardware used to host the Forward Observer System (FOS) software, combined are known as the Lightweight Forward Entry Device (LFED). The LFED is a handheld device used by mounted forward observers and fire support officers to plan, control and execute fire support operations at maneuver platoon, company, battalion, and brigade levels. The Approved Acquisition Objective for RHC is 2,587.

The Light Weight Technical Direction System (LWTFDS) currently consists of one product, Centaur. Centaur is a handheld system which provides technical fire control for the cannon Fire Direction Centers (FDCs). Centaur replaced the 1980's era Back-up Computer System (BUCS) which is no longer in service. Centaur serves as a backup technical fire direction capability in case the primary capability, Advanced Field Artillery Tactical Data System (AFATDS) is unavailable and serves as a secondary calculation check for AFATDS. In addition, Centaur provides early entry forces with the capability to compute automated
The Pocket-sized Forward Entry Device (PFED) (Inc 1) is a handheld hardware device that enables rapid precision Sensor-to-Shooter and Surveillance capabilities. PFED is fully interoperable with Advanced Field Artillery Tactical Data System (AFATDS) and current fire support systems. The Approved Acquisition Objective for PFED Inc 1 is 2,761. PFED Increment 2 is a software application that operates on the Nett Warrior (NW) End User Device (EUD). It will provide the dismounted Forward Observer (FO) and Fire Support Teams (FISTs) the capability to accurately and rapidly locate ground targets and enable the Nett Warrior ensemble to digitally process a Call For Fire. PFED Inc 2 aligns with the Army's Fires and Effects Concept of Operation and contributes to Networked Fires as part of the combined arms teams in Army, Special Operations Forces (SOF), and Joint operations. PFED Inc 2 supports the Mobile Handheld Computing Environment requirement that all handheld applications reside on the Nett Warrior EUD. PFED Inc 1 will remain fielded and sustained until units receive PFED Inc 2-capable Nett Warrior End User Devices (EUDs). PFED Inc 2 software will be deployed by Nett Warrior IAW the NW fielding schedule.

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<tr>
<td>Total Obligation Authority</td>
<td>21.702</td>
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<td>1.190</td>
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<td>1.238</td>
<td>3.890</td>
<td>3.856</td>
<td>3.381</td>
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**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

**P-1 Line Item Number / Title:**
B28501 / Fire Support C2 Family

**ID Code (A=Service Ready, B=Not Service Ready):**

<table>
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<th>Other Related Program Elements: 0203726A, 0203728A</th>
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<td></td>
<td>ID</td>
<td>Quantity / Total Cost (Each) $/ M</td>
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<tr>
<td>B28502 / Gun Display Unit - Replacement (GDU-R)</td>
<td>P-5</td>
<td>- / 23.016</td>
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<tr>
<td>B28620 / MOD OF IN-SVC EQUIP, AFATDS</td>
<td>P-5, P-5a</td>
<td>955 / 182.081</td>
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<tr>
<td>B78400 / Light Weight Technical Fire Direction Sys (LWTFDS)</td>
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<td>B29851 / POCKET FORWARD ENTRY DEVICE (PFED)</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

**Justification:**
FY 2016 Base procurement dollars in the amount of $1.190 million supports Pocket-sized Forward Entry Device (PFED) Inc 1 and Inc 2 logistics/engineering support, PFED Inc 2 ancillary items purchase, program management, PFED Inc 1 fielding and New Equipment Training (NET).

FY 2016 OCO dollars in the amount of $.048 million supports retrograde operations in Afghanistan that have yielded an austere environment where rapid in-theatre systems replacement is infeasible. The large retrograde effort depleted the availability of theatre-provided equipment. In addition, available systems are outdated or have been affected by dust, and power fluctuations that have shortened equipment lifecycles. Further, near term circumstances in the operational environment demand quick action to source equipment to cover emerging mission sets without degrading existing capability.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P. L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
<table>
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<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<td>Gross/Weapon System Cost</td>
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<td>23.016</td>
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</table>

Secondary Distribution

| FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
|---------|---------|--------------|------------|--------------|------------|
| Army    | Quantity | -           | -          | -            | -          | -          |
| Total: Secondary Distribution | 0.414 | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89
P-1 Line Item Number / Title: B28501 / Fire Support C2 Family
Item Number / Title [DODIC]: B28503 / Ruggedized Handheld Computer (RHC)

Resource Summary

<table>
<thead>
<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>700</td>
<td>385</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Gross/Weapon System Cost ($ in Millions)
- FY 2014: 59.321
- FY 2015: 13.101
- FY 2016 Base: 3.371
- FY 2016 OCO: -
- FY 2016 Total: -

Less PY Advance Procurement ($ in Millions)
- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

Net Procurement (P1) ($ in Millions)
- FY 2014: 59.321
- FY 2015: 13.101
- FY 2016 Base: 3.371
- FY 2016 OCO: -
- FY 2016 Total: -

Plus CY Advance Procurement ($ in Millions)
- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

Total Obligation Authority ($ in Millions)
- FY 2014: 59.321
- FY 2015: 13.101
- FY 2016 Base: 3.371
- FY 2016 OCO: -
- FY 2016 Total: -

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements

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<th>Flyaway Cost</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
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<td>-</td>
<td>13.101</td>
<td>-</td>
<td>-</td>
<td>3.371</td>
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<td>-</td>
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</tr>
<tr>
<td>Subtotal: Flyaway Cost</td>
<td>-</td>
<td>-</td>
<td>59.321</td>
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<td>13.101</td>
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<td>-</td>
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<td>-</td>
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Secondary Distribution

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</tr>
<tr>
<td>A=Service Ready, B=Not Service Ready</td>
<td>B28503 / Ruggedized Handheld Computer (RHC)</td>
<td>Secondary Distribution</td>
<td>Total Obligation Authority</td>
<td>13.101</td>
<td>3.371</td>
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(†) indicates the presence of a P-5a
**Exhibit P-5a, Procurement History and Planning:** PB 2016 Army

**P-1 Line Item Number / Title:** B28501 / Fire Support C2 Family

**Item Number / Title [DODIC]:** B28503 / Ruggedized Handheld Computer (RHC)

**Cost Elements** | **O C O** | **FY** | **Contractor and Location** | **Method/Type or Funding Vehicle** | **Location of PCO** | **Award Date** | **Date of First Delivery** | **Qty** | **Unit Cost ($ K)** | **Specs Avail Now?** | **Date Revision Available** | **RFP Issue Date**
---|---|---|---|---|---|---|---|---|---|---|---|---
Hardware | 2014 | General Dynamics / Taunton, MA | C / FFP | CECOM LCMC, APG, MD | Mar 2014 | Feb 2015 | 385 | 27.330 | N | | |

**Remarks:**
Commercial Off The Shelf (COTS) purchases.

Due to a change in Army priorities, the program office did not purchase hardware in FY14 (Qty 385). $5.395 million under the Fires Support C2 Family RHC SSN B28503A to the AFATDS, MOD OF IN-SVC SSN B28620A.
### Resource Summary

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<th>FY 2016 Total</th>
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<td>14.701</td>
<td>8.163</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>8.163</td>
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<td>0.048</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

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<tr>
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### Gross/Weapon System Unit Cost ($ in Thousands)

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<td>190.661</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

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### Secondary Distribution

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<tbody>
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<tr>
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<td>FY 2015</td>
<td>FY 2016 Base</td>
<td>FY 2016 OCO</td>
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<td>Quantity</td>
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</tr>
<tr>
<td>Primary Distribution</td>
<td>14.701</td>
<td>8.163</td>
<td>-</td>
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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Date:** February 2015

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>OC O</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
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<td>Hardware - AFATDS &amp; MC Workstations</td>
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<td>C / FFP</td>
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<td>Hardware - AFATDS &amp; MC Workstations</td>
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<td>2016</td>
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<td>Jul 2016</td>
<td>2</td>
<td>24.000</td>
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**Remarks:**
Items are Commercial Off The Shelf (COTS).
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 89

**P-1 Line Item Number / Title:**
B28501 / Fire Support C2 Family

**Item Number / Title [DODIC]:**
B78400 / Light Weight Technical Fire Direction Sys (LWTFDS)

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready):</th>
<th>MDAP/MAIS Code:</th>
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</thead>
<tbody>
<tr>
<td>Resource Summary</td>
<td>Prior Years</td>
</tr>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>332.505</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>332.505</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td>Flyaway Cost</td>
<td></td>
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</tr>
<tr>
<td>Recurring Cost</td>
<td></td>
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<tr>
<td>Gross/Weapon System Cost</td>
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<td>-</td>
<td>1.567</td>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
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<td>ANG</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
<table>
<thead>
<tr>
<th>Secondary Distribution</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Total Obligation Authority</td>
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### Resource Summary

<table>
<thead>
<tr>
<th>ID Code</th>
<th>MDAP/MAIS Code:</th>
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<tr>
<td>B28501</td>
<td>Fire Support C2 Family</td>
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**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A / 02 / 89

**P-1 Line Item Number / Title:**
- B28501 / Fire Support C2 Family

**Item Number / Title [DODIC]:**
- BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

**Date:**
- February 2015

**Exhibit P-5, Cost Analysis:**
- PB 2016 Army

**Procurement Quantity (Units in Each):**
- 386

**Gross/Weapon System Cost ($ in Millions):**
- FY 2014: 299.466
- FY 2015: 9.045
- FY 2016 Base: 2.289
- FY 2016 OCO: 1.190
- FY 2016 Total: 1.190

**Less PY Advance Procurement ($ in Millions):**
- FY 2016 OCO: 1.190

**Net Procurement (P1) ($ in Millions):**
- FY 2016 Total: 1.190

**Total Obligation Authority ($ in Millions):**
- FY 2016 Total: 1.190

### Initial Spares ($ in Millions)
- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

### Gross/Weapon System Unit Cost ($ in Thousands)
- FY 2014: 23.433
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

#### Flyaway Cost

<table>
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<table>
<thead>
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<td>3,700</td>
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<table>
<thead>
<tr>
<th>Hardware (Mobile/Handheld Computing Envy)(1)</th>
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<tr>
<td>12,415</td>
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<table>
<thead>
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<th>Software Modification</th>
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<table>
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<thead>
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<td>54,605</td>
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<thead>
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<tr>
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<table>
<thead>
<tr>
<th>Subtotal: Recurring Cost</th>
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<tbody>
<tr>
<td>299,466</td>
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<table>
<thead>
<tr>
<th>Subtotal: Flyaway Cost</th>
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<tr>
<td>299,466</td>
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<table>
<thead>
<tr>
<th>Gross/Weapon System Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>299,466</td>
</tr>
</tbody>
</table>

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89  
**P-1 Line Item Number / Title:** B28501 / Fire Support C2 Family  
**Item Number / Title [DODIC]:** BZ9851 / POCKET FORWARD ENTRY DEVICE (PFED)

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#### MDAP/MAIS Code:

**Secondary Distribution**

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Army</strong></td>
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<td></td>
<td></td>
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<tr>
<td>Quantity</td>
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<td>1.190</td>
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<tr>
<td><strong>ANG</strong></td>
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<tr>
<td>Quantity</td>
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<tr>
<td>Quantity</td>
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<td>2.289</td>
<td>1.190</td>
<td>-</td>
<td>1.190</td>
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(†) indicates the presence of a P-5a
Exhibit P-5a, Procurement History and Planning: PB 2016 Army

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<tr>
<th>Cost Elements</th>
<th>OCO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>Hardware (Mobile/Handheld Computing Env)</td>
<td>2014</td>
<td>General Dynamics / Taunton, MA</td>
<td>C / FFP</td>
<td>CECOM LCMC, APG, MD</td>
<td>Apr 2014</td>
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<td>386</td>
<td>12.415</td>
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</table>

Remarks:
Commercial Off The Shelf (COTS) purchases.

Due to a change in Army priorities, the program office did not purchase hardware in FY14. $5.334 million under the Fires Support C2 Family PFED SSN BZ9851A to the AFATDS, MOD OF IN-SVC SSN B28620A.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army  
Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:  
2035A: Other Procurement, Army / BA 02: Communications and Electronics / Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:  
W34600 / Battle Command Sustainment Support System

Program Elements for Code B Items:

<table>
<thead>
<tr>
<th>ID Code</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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<tr>
<td></td>
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<td>0216300A</td>
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Resource Summary:

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<th>FY 2015</th>
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<th>FY 2016 OCO</th>
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<th>FY 2017</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
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<td>431.434</td>
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<td>-</td>
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<td>-</td>
<td>431.434</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
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<td>3.000</td>
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<td>431.434</td>
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</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
Flyway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | 133.178 | - | - | - | - | - | - | - | - | - | 134.111 |

Description:
The Battle Command Sustainment Support System (BCS3) is the logistics Command and Control solution for U.S. land forces. BCS3 provides commanders the capability to execute end-to-end distribution and deployment management and brings better situational awareness, resulting in better decision-making capability to warfighters. It enables warfighters and commanders to target, access, scale and tailor critical logistics information in near-real time. BCS3 provides more effective means to gather and integrate asset and in-transit information to manage distribution and deployment missions. BCS3 combines distribution management to include commodity and convoy tracking, and deployment management into a logistics Common Operating Picture (COP) for one mission-focused visual display. BCS3 has been adopted and integrated into Joint and strategic logistics C2 processes. BCS3 is the only near-term end-to-end logistics COP solution for the Joint commander. BCS3 will maintain its core capabilities and continue to advance in development while integrating into the Joint command and control architecture. This continued development will enable decision superiority via advanced collaborative information sharing achieved through interoperability. BCS3 has immediate, high pay-off benefit to warfighters. BCS3 is a force multiplier, a precision tool for logistics planning and execution that provides warfighters with the necessary tools to succeed.

Justification:
Program does not have a FY2016 Base request.
<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>0216300A</td>
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<td>0216300A</td>
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</table>
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics

Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:
AD5050 / FAAD C2

Date: February 2015

Description:
The Forward Area Air Defense Command and Control (FAAD C2) system collects, digitally processes, and disseminates real-time target cueing and tracking information; the common tactical 3-dimensional air picture; command, control, and intelligence information to all Air and Missile Defense (AMD) weapon systems (Avenger and Man-Portable Air Defense System (MANPADS), joint and combined arms systems. The FAAD C2 system provides alerting data to air defense gunners, airspace battle management, and up-linking of mission operations, thereby enhancing force protection against air and missile attack. Situational awareness and targeting data is provided on threat aircraft, cruise missiles, and unmanned aerial systems (UAS). The FAAD C2 system provides this mission capability by integrating dynamic FAAD C2 engagement operations software with the Multifunctional Information Distribution System (MIDS), Joint Tactical Terminal (JTT), Single Channel Ground and Airborne Radio System (SINCGARS), Enhanced Position Location Reporting System (EPLRS), Global Positioning System (GPS), Airborne Warning and Control Systems (AWACS), Sentinel Radar, and the Mission Command (MC) architecture. In addition, FAAD C2 provides interoperability with Joint systems and horizontal integration with PATRIOT, and Terminal High-Altitude Area Defense (THAAD) by fusing sensor data to create a scalable and filterable Single Integrated Air Picture (SIAP) and common tactical picture. The system software is a key component of the Air Defense and Airspace Management (ADAM) Cell that is being fielded to Brigade Combat Teams (BCTs), Multi-Functional Support Brigades and Division Headquarters as part of the Army's modularity concept. System software is able to provide target data and engagement commands/status to AMD (Air and Missile Defense) Battalions. FAAD C2 is also a principal air defense system within the Homeland Defense Program. Soldiers from activated Army National Guard (ARNG) AMD battalions operate the FAAD C2 systems in the National Capital Region and other locations.
### Exhibit P-40, Budget Line Item Justification: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

**P-1 Line Item Number / Title:**
AD5050 / FAAD C2

**Date:** February 2015

**ID Code** *(A=Service Ready, B=Not Service Ready):*  

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army

### Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 89: Elect Equip - Tactical C2 Systems

**P-1 Line Item Number / Title:**
AD5050 / FAAD C2

**ID Code (A=Service Ready, B=Not Service Ready):**

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<th>Other Related Program Elements:</th>
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<tbody>
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<td>0604741A</td>
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**Exhibit Schedule**

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<th>Title*</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td></td>
<td>AD5050 / FAAD C2</td>
<td>P-5</td>
<td>- / 765.608</td>
<td>- / 4.607</td>
<td>- / -</td>
<td>- / -</td>
<td>- / -</td>
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</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**
No FY16 funding.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

| ID Code | MDAP/MAIS Code: AD5050 / FAAD C2 |

<table>
<thead>
<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<tr>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

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<th>Qty (Each)</th>
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### Secondary Distribution

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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
**Description:**
The Air and Missile Defense Planning and Control System (AMDPCS) is an Army Objective Force System that provides integration of Air and Missile Defense (AMD) operations at all echelons. AMDPCS systems are deployed with Air Defense Artillery (ADA) brigades (Bdes), Army Air Missile Defense Commands (AAMDCs), and Air Defense and Airspace Management (ADAM) Cells at the Brigade Combat Teams (BCTs), Multi-Functional Support Brigades, Corps and Divisions. AMDPCS systems also provide air defense capabilities to Homeland Defense systems. The fielding of ADAM Cells is essential in fulfilling the Army's Campaign Plan requirement. ADAM Cells provide the Commander at BCTs, Bdes and Divisions with air defense situational awareness and airspace management capabilities. They also provide the interoperability link with Joint, multinational and coalition forces. AMDPCS components are vital in the transformation of ADA units. AMDPCS provides these organizations with shelters, automated data processing equipment, tactical communications, standard vehicles and tactical power, and the two major software systems used in air defense force operations/engagement operations: The Air and Missile Defense Workstation (AMDWS) and the Air Defense System Integrator (ADSI). The AMDWS is a staff planning and battlespace situational awareness tool that provides commanders at all echelons with a common tactical and operational air picture. The AMDWS is being fielded to all AMDPCS units, including the ADA Bdes, the AAMDCs and the ADAM Cells, as well as to the Maneuver Air and Missile Defense Battalions and Batteries. AMDWS provides the Mission Command (MC) capabilities imbedded within the Warfighter Mission area. AMDWS is the Net-centric interface to MC for all components of the AMD force. AMDPCS also provides the ADA Brigades, AAMDCs and ADAM Cells with the ADSI, which is a communications data link processor and an additional display system. AMDWS and ADSIs are vital components of the ADAM Cells that are deployed in Afghanistan. AMDWS is a critical component in the integration and fielding of the Counter-Rocket, Artillery and Mortar (C-RAM) capability to Operating Bases in Afghanistan.

Approved Acquisition Objective (AAO) for AMDPCS shelter systems is 225.

---

**Resource Summary**

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**Secondary Distribution**

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**Other Related Program Elements:**

- Equipment / BSA 89: Elect Equip - Tactical C2 Systems
  - BA 02: Communications and Electronics
  - PB 2016 Army
  - UNCLASSIFIED

- FY 2014: 25.896
- FY 2015: 13.261
- FY 2016: 6.074
- FY 2017: 13.366
- FY 2018: 6.794
- FY 2019: 2.720
- FY 2020: 10.646
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**P-1 Line Item Number / Title:** AD5070 / AIR & MSL Defense Planning & Control Sys  
**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics  
Equipment / BSA 89: Elect Equip - Tactical C2 Systems  
**Date:** February 2015

<table>
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<tr>
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<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements: 0604741A</th>
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**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

**P-1 Line Item Number / Title:** AD5070 / AIR & MSL Defense Planning & Control Sys

**ID Code** (A=Service Ready, B=Not Service Ready):

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<th>ID Code</th>
<th>Program Elements for Code B Items:</th>
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<tbody>
<tr>
<td>A</td>
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**ID Code (A=Service Ready, B=Not Service Ready):**

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<tr>
<td></td>
<td>Title*</td>
<td>Exhibits</td>
<td>ID</td>
<td>Quantity / Total Cost</td>
<td>Quantity / Total Cost</td>
<td>Quantity / Total Cost</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

**Note:** Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**
FY 2016 Base procurement dollars in the amount of $28.176 million procures 5 ADAM Cells for AMD Combat Aviation Commands, AMD Theater Aviation Brigades, and Maneuver Enhancement Brigades which will provide a 3-dimensional air picture for situational awareness, the capability to coordinate airspace command and control, and warning of rocket artillery and mortar attacks. FY 2016 also procures 1 AMDPCS for one Terminal High Altitude Air Defense (THAAD) Battery.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing the military support to civil authorities.
### Exhibit P-5, Cost Analysis: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 89

#### P-1 Line Item Number / Title:
AD5070 / AIR & MSL Defense Planning & Control Sys

#### Item Number / Title [DODIC]:
AD5070 / AIR & MSL Defense Planning & Control Sys

<table>
<thead>
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<th>ID Code (A=Service Ready, B=Not Service Ready) :</th>
<th>MDAP/MAIS Code:</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
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<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>28.176</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | 4,696,000 | - | 4,696,000 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

#### Cost Elements

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<tr>
<th>Cost Elements</th>
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<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Flyaway Cost</td>
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Secondary Distribution

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| ANG Quantity | - | - | - | - |
| Total Obligation Authority | 8,134 | 15,988 | 13,261 | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 89

**P-1 Line Item Number / Title:**
AD5070 / AIR & MSL Defense Planning & Control Sys

**Item Number / Title [DODIC]:**
AD5070 / AIR & MSL Defense Planning & Control Sys

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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

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<th>Location of PCO</th>
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<th>Date of First Delivery</th>
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<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
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**Remarks:**
AMDPCS is a COTS program. COTS and Government Furnished Equipment (GFE) are integrated by the Army Depot.
The Army Integrated Air and Missile Defense (AIAMD) Program is a direct response to the U.S. Army AMD Concept and Operational and Organizational (O&O) Plan for the Future Force, the Army Integrated Air and Missile Defense System of Systems (SoS) Capabilities Development Document (CDD) and the new Air and Missile Defense Task Force Concept of Operations (CONOPS). The AIAMD Program is uniquely structured to enable the development of an overarching system of systems (SoS) capability with all participating Air Defense Artillery (ADA) components functioning interdependently to provide total operational capabilities not achievable by the individual element systems. The AIAMD program achieves this objective by establishing the AIAMD architecture and developing (1) the IAMD Battle Command Systems (IBCS) Engagement Operations Center (EOC) that provides the common Mission Command capability, (2) the Integrated Fire Control Network (IFCN) capability for fire control connectivity and distributed operations, and (3) the common Plug and Fight (P&F) Kits that network enable multiple sensor components, weapon components, and the IBCS EOC.

The AIAMD Program will provide advanced capabilities to the Army and the soldier by allowing transformation to a network-centric system-of-systems capability (also referred to as "Plug and Fight") that integrates Army Air and Missile Defense (AMD) sensors and weapons with the IBCS EOC. The AIAMD SoS architecture will enable extended range and non-line-of-sight engagements, to include joint kill chain engagements across the full spectrum of aerial threats. Providing fire control quality data to the most appropriate weapon to complete the mission successfully. Further, it will mitigate the coverage gaps and the single points of failure that have plagued AMD defense design in the past. The AIAMD Program will provide the user with the ability to train on a single C2 system that will result in overall training savings. The AIAMD program will also provide the Army with the ability to procure components that will build to established interfaces allowing them to "connect" to the IFC network alleviating the cost of procuring total system single points of failure that have plagued AMD defense design in the past. The AIAMD Program will provide the user with the ability to train on a single C2 system that will result in overall training savings. The AIAMD program will also provide the Army with the ability to procure components that will build to established interfaces allowing them to "connect" to the IFC network alleviating the cost of procuring total system single points of failure that have plagued AMD defense design in the past.

The FY18 Initial Operational Capability is delivered through the fielding of the IBCS EOC-based AIAMD architecture including the IBCS EOC, Sentinel and Patriot components connected via an IFCN, working in an integrated manner. Additional capabilities include the incorporation of IBCS functionality into Air Defense Airspace Management (ADAM) Cells, ADA Brigade Headquarters and Army Air and Missile Defense Command (AAMDC) battalions. Future additional capabilities include incorporation of Terminal High Altitude Air Defense (THAAD) batteries and composite Indirect Fire Protection Capability (IFPC)/Avenger battalions into the AIAMD architecture.

AIAMD is a designated Major Defense Acquisition Program (MDAP).

This program is a new start in FY2016.

FY16 funding goes to the Active Component. Army National Guard funding starts in FY2020.
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

**P-1 Line Item Number / Title:**
BZ5075 / IAMD Battle Command System

**Date:** February 2015

**ID Code (A=Service Ready, B=Not Service Ready):**

**Program Elements for Code B Items:**

**Other Related Program Elements:** 0603327A, 0605457A

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**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

**P-1 Line Item Number / Title:** BZ5075 / IAMD Battle Command System

**UNCLASSIFIED**

**Date:** February 2015

**Program Elements for Code B Items:**

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**Exhibits Schedule**

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**Justification:**

FY 2016 Base procurement dollars in the amount of $12.920 million funds the initial hard tooling and labor associated with the IBCS production line set up to support low-rate initial production. Funding includes the cost of fabrication, assembly and installation of tools, inspection equipment and test equipment to support the manufacture of IBCS components. Funding includes the cost for the modification and rework of the required developmental tools for production purposes as well as duplicate sets of tools.

FY 2016 Base procurement dollars in the amount of $7.997 million is required for Long Lead-time Items (LLI) IBCS components required to protect the production schedule and to maintain critical manufacturing skills for both the prime and sub-contractors. The Long Lead items consist of Tactical Mounted Trailers with a long lead time of 14 months and S-280 shelters with a long lead time of 15 months.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."
### Resource Summary

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<th>FY 2016 Base</th>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**

- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

**Gross/Weapon System Unit Cost ($ in Thousands)**

- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

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### Secondary Distribution

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### Note

Secondary Distribution

- Army: Quantity
- Total Obligation Authority

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**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89

P-1 Line Item Number / Title: BZ5075 / IAMD Battle Command System

Item Number / Title [DODIC]: BZ5075 / IAMD Battle Command System

MDAP/MAIS Code: BZ5075 / IAMD Battle Command System

ID Code (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code:
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title: BD3955 / Life Cycle Software Support (LCSS)

UNCLASSIFIED

Date: February 2015

Description:
Life Cycle Software Engineering (LCSE) support, by the Software Engineering Center (SEC), provides the essential equipment needed to maintain Communications-Electronics Life Cycle Management Command (C-E LCMC) managed fielded Battlefield Automated Systems (BAS) in a state of operational readiness. Approximately 100 BASs in Post Production Software Support (PPSS) directly depend on LCSE support to maintain a posture of mission critical readiness. LCSE system support and services are essential to maintain BASs in the state of operational readiness. Policy for Post Production Software Support (PPSS) requires that system managers provide initial host capabilities for new systems and that the Life Cycle Software Engineering Centers (LCSEC) provide upgrades and replacement of obsolete equipment. Significant portions of host and network equipment are no longer economically repairable and/or are reaching obsolescence. There is a requirement to respond to emergency requests from the field for Software Engineering support, in order to maintain operational readiness of deployed BASs. With host computers and peripherals having a life span of approximately five years and SEC performing its mission over a continuous period of time beyond five years, equipment must be replaced and/or upgraded regularly to deal with obsolescence and take advantage of the continual improvements in technology that are indigenous to high-technology based weapon systems and their support environment. SEC must purchase these items to meet systems mission requirements.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title: BD3955 / Life Cycle Software Support (LCSS)

Date: February 2015

FY 2016 Base Procurement dollars in the amount of $5.850 million procures the following Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) lab equipments:

1) Computer Equipment: (1) E-J Band RF channel with 5-port Direction-of-Arrival (DoA) capability, (1) K-L Band RF channel (mmW) with 5-port Direction-of-Arrival (DoA) capability. RF Simulator Spare Parts Package (a. AC-to-DC Power Supplies, b. Various circuit card assemblies (CCAs); i.e. FiberOptic Interface, Digital Pulse Generation Modules, Digital-to-RF Interface, etc., c. Various RF discrete components; i.e. Frequency Locked Oscillators (FLO) C thru L bands, RF Amplifiers (C thru L bands), RF Attenuators (C thru L bands) and a 5-port Direction-of-Arrival (DoA) Modules (C thru L bands), Quad-Phase Modulators (C thru L bands), RF Pulse Modulation Switch (C thru L bands), etc).

Requirement Description: The RF simulator will be supporting the increase of Radio Frequency (RF) simulation requirements due to the complexity of threats to Force Protection systems such as Counter Radio-Controlled Improvised Explosive Device (RCIED) Electronic Warfare (CREW) Duke, Radar Warning receivers APR-39A(V)1, APR-39B(V)2, and APR-48 Radio Frequency Interferometer (RFIS) and future systems. Failure to provide effective support for threat simulation using the most effective simulator covering all threat Radio Frequency (RF) bands can cause unreliable mission software for CREW and all Aircraft Survivability Equipment (ASE) systems supported by SEC. In addition, the current RF simulators being used are well beyond their expected Operational Life Cycle, and are likely to become inoperable within the next 6-18 months.

2) Computer Equipment: NetApp F2240A-4-24X2TB-CL-10G-R5 (FAS2240-4,CL,HA,24x2TB,10GbE,Dual CTL), (2) Dell Blade computer (8 blades - 6 1/10gb switches ), (2) Dell EqualLogic storage for blade computer (24 TB), (45) Surrogate computers - HP Compaq 6300 Microtower (Core i5, 250GB HDD, 4GB RAM, 1 DVD RW), 18 ServSwitch Octet Basic User Station(KV1711A-R2), 20 ServSwitch Octet KVM Switch, 4 Users x 16 Servers (KV1703A0, 50 Updated monitors for Surrogate computers - 22" and 144 ServSwitch Octet Server Access Module (SAMs) for USB.

Requirement Description: The majority of existing Force XXI Battle Command, Brigade and Below (FBCB2) software integration and test hardware is 8-10 years old and is no longer supported by the vendor. In the case of the Blue Force Tracking Network Operations Center (BGN), the test bed hardware is not a representative of the deployed equipment and thus limits SEC's ability to truly replicate, troubleshoot, and assess performance and operational behavior on the fielded target hardware. The BFT/NOC hardware is 2 generations of hardware behind the deployed configuration. In addition, test bed network equipment, such as switching equipment, requires replacement due to obsolescence and lack of vendor support. Failure to fund the hardware upgrade and allow the test bed become partially and/or completely inoperable due to equipment obsolescence and vendor support, this will render SEC incapable of performing the FBCB2 PPSS mission.

3) Computer Equipment: Qty 5 Dell PowerEdge R910 - 4-2.4Ghz 10C processor, 1 TB memory, Esxi 5 OS, 8-300 15K SAS drives, 2 Intel X520Da 10GB Dual port SFP+, Integrated Nexuss 5548P Layer 3 License with daughter card, Vmware View 5 Premier Add on for Lab consolidation

Requirement Description: The Ft. Sill server farm for the Fires programs under sustainment are reaching their end of life. These machines serve up compilers and provide a data repository for all source code, and documentation at Ft. Sill. Today we have roughly 20 machines that are about 3-5 years old. This purchase would replace them with 5 more powerful machines utilizing VMWare to virtualize the environment reducing the needed for as many machines. The new machines will increase the server reliability and assist in consolidation. Loss of one machine will begin to impact the Compilation schedules for all Fires program under sustainment at Ft. Sill. Loss of more will increase that effect. These machines are roughly 3-5 years old on average and are approaching end of life, which will soon render them unserviceable.
### Description:
The Network Management Initialization and Services (NMIS) program supports the Army's objectives of an integrated Network Operations capability. There are two components to the program:

Network Management System (NMS) funds the NetOps Trail Boss systems engineering support to converge NetOps capabilities across ASA(ALT) in order to enable improved network security and delivery of network operations services to the Generating Forces and Operating Forces of the Army. Integrated NetOps capabilities support distributed operational NetOps responsibilities across the tactical and strategic components of the LANDWARNET, simplify the network management environment for the tactical commander and the G6/S6 staff, and eliminate both functional and material redundancies in order to achieve efficiencies in fielding.

Data Products provide the necessary initialization data required for Battle Command Systems, like Joint Battle Command-Platform (JBC-P) and the Army Battle Command Systems (ABCS), to interoperate over the tactical network. Data Products are essential for Blue Force Tracker (BFT) Situational Awareness data, for tactical digital messaging (e.g., Improvised Explosive Device (IED) awareness, Medical Evacuation (MEDEVAC), Call for Fire, etc.) and automated Command and Control (C2) to function.

### Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title: BA9301 / Network Management Initialization and Services

Date: February 2015

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army  
Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:  
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:  
BA9301 / Network Management Initialization and Services

ID Code (A=Service Ready, B=Not Service Ready):  
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Other Related Program Elements:

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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY 2016 Base procurement dollars in the amount of $5.014 million supports Network Management System duties as an integration/interoperability/convergence manager for the Army's NetOps portfolio. Duties include assessments of Cyber and NetOps capability gaps, developing NetOps capability roadmaps across key Army stakeholders, developing interoperability specifications, and maintaining the Army NetOps Capability Configuration Management.

FY 2016 Base procurement dollars in the amount of $7.724 million supports procurement of Data Product Networking Initializations; databases that support the Army Forces Generation (ARFORGEN) model for deployment, training and reset; the fielding and support of the Initialization Tool Suite (Warfighter Initialization Tool- Platform(WIT-P), Warfighter Initialization Tool- Server(WIT-S), and Warfighter Initialization Tool- Manager(WIT-M)) and utilization of the Automated Initialization Manager(AIM). Static data products are also being evolved to include initialization being managed at the unit level.

The FY 2016 funding request was reduced by $0.141 million to account for the availability of prior year balances.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 89

**P-1 Line Item Number / Title:**
BA9301 / Network Management Initialization and Services

**Item Number / Title [DODIC]:**
BA9312 / NETWORK MANAGEMENT SYSTEM

**ID Code** (A=Service Ready, B=Not Service Ready)

**MDAP/MAIS Code:**

<table>
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<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

**Cost Elements**

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<th>FY 2016 Base</th>
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<td>Unit Cost ($ K)</td>
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**Secondary Distribution**

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**Army**

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
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(These following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

### Gross/Weapon System Unit Cost ($ in Thousands)

- FY 2014: -
- FY 2015: -
- FY 2016 Base: -
- FY 2016 OCO: -
- FY 2016 Total: -

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

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#### FY 2016 Base

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### Exhibit P-5, Cost Analysis: PB 2016 Army

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89

**P-1 Line Item Number / Title:** BA9301 / Network Management Initialization and Services

**Item Number / Title [DODIC]:** BA9315 / DATA PRODUCTS

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### Maneuver Control System (MCS)

Maneuver Control System (MCS) is also named Tactical Mission Command (TMC). TMC is a suite of products and services that provide commanders and their staff executive decision making capability in a collaborative environment. The suite of products currently in development consist of Command Web (CW), Tactical Applications (TacApps), and an Army Voice Communication System (WAVE). TMC satisfies requirements and capabilities identified in the MCS 6.4 Capability Production Document and the Battle Command Sustainment Support System (BCS3) Capability Production Document. The overarching capability includes a user-defined Common Operating Picture (COP) with integrated Command and Control (C2) and Situational Awareness (SA), map-centric collaboration, Army Mission Command Systems (and others) enabling system interoperability, data management, and enterprise services. TMC contributes to Mission Command Convergence/Common Operating Environment (COE) development for commanders and staff to effectively conduct collaborative mission planning and execution across a range of operations and spectrum of conflict. Legacy products supported by this Budget Item include Command Post of the Future (CPOF), Battle Command Common Services (BCCS), Logistics Widgets, and Common Tactical Vision (CTV).

TMC procures the hardware infrastructure that powers the Command Post Computing Environment (CP CE) software. Hardware infrastructure includes clients for applications that have not fully transitioned to the CP CE environment like Command Post of the Future (CPOF) and Battle Command Sustainment Support System (BCS3). Additionally, TMC procures the hardware for the Battle Command Common Services (BCCS) stacks which provide a hosting environment for all virtualized applications and back end services, such as the Distributed Data Service (DDS) critical for interoperability amongst all systems within the CP CE. CP CE will use the foundational architectures from TMC's product line to provide a common look and feel for the Warfighter from Army Service Combatant Command (ASCC) to Battalion.

TMC is a designated Major Automation Information System (MAIS) program.

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### Resource Summary

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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>1,492.141</td>
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<td>145.657</td>
<td>172.458</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Secondary Distribution

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<td>0.252</td>
<td>145.657</td>
<td>172.458</td>
<td>172.943</td>
<td>104.706</td>
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</tbody>
</table>
**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

**P-1 Line Item Number / Title:**
BA9320 / Maneuver Control System (MCS)

**ID Code** (A=Service Ready, B=Not Service Ready) : B

**Program Elements for Code B Items:** 0203740A

**Other Related Program Elements:**

<table>
<thead>
<tr>
<th>Exhibits</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td><strong>Title</strong></td>
<td><strong>Exhibits</strong></td>
<td><strong>ID CD</strong></td>
<td><strong>Quantity / Total Cost (Each) / ($ M)</strong></td>
<td><strong>Quantity / Total Cost (Each) / ($ M)</strong></td>
<td><strong>Quantity / Total Cost (Each) / ($ M)</strong></td>
<td><strong>Quantity / Total Cost (Each) / ($ M)</strong></td>
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<td>P-5, P-5a</td>
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<tr>
<td>Total Gross/Weapon System Cost</td>
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<td></td>
<td>- / 1,492.141</td>
<td>- / 18.179</td>
<td>- / 95.455</td>
<td>- / 145.405</td>
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</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

FY 2016 Base procurement in the amount of $145.405 million supports purchase of 5,637 TMC Clients, hardware (BCCS servers, Server Management Consoles, and Gateways), and associated fielding support.

FY 2016 OCO procurement in the amount of $0.252 million supports the purchase of 24 TMC Clients, hardware, and associated fielding support; used by United States Forces - Afghanistan (USFOR-A) to support counter-insurgency and counter-terrorism operations in theater.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### UNCLASSIFIED

**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89

**P-1 Line Item Number / Title:** BA9320 / Maneuver Control System (MCS)

**MDAP/MAIS Code:**

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Resource Summary

<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>1,492.141</td>
<td>18.179</td>
<td>95.455</td>
<td>145.405</td>
<td>0.252</td>
<td>145.657</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>1,492.141</td>
<td>18.179</td>
<td>95.455</td>
<td>145.405</td>
<td>0.252</td>
<td>145.657</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>1,492.141</td>
<td>18.179</td>
<td>95.455</td>
<td>145.405</td>
<td>0.252</td>
<td>145.657</td>
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</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

| Initial Spares ($ in Millions) | - | - | - | - | - | - |

### Gross/Weapon System Unit Cost ($ in Thousands)

| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | 6,069.042 | - | 6,069.042 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
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<tr>
<td>Recurring Cost</td>
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**UNCLASSIFIED**

**LI BA9320 - Maneuver Control System (MCS)**

**UNCLASSIFIED**

**Date:** February 2015

**Item Number / Title [DODIC]:** BA9320 / Maneuver Control System (MCS)

**ID Code** (A=Service Ready, B=Not Service Ready) : B

**Page 4 of 6**
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 89

**P-1 Line Item Number / Title:**
BA9320 / Maneuver Control System (MCS)

**Item Number / Title [DODIC]:**
BA9320 / Maneuver Control System (MCS)

**ID Code** (A=Service Ready, B=Not Service Ready): B

**MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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<th>Cost Elements</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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**Secondary Distribution**

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(†) indicates the presence of a P-5a
UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89

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<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<td>Jul 2015</td>
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<tr>
<td>Workstation (Initial Procurement)</td>
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<td>CHS / Taunton, MA</td>
<td>C / IDIQ</td>
<td>Aberdeen Proving Ground</td>
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<tr>
<td>Workstation (Tech Refresh)</td>
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<td>C / IDIQ</td>
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<td>3,946</td>
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Remarks:
Items are COTS/GOTS.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

P-1 Line Item Number / Title: W30001 / Global Combat Support System-Army (GCSS-A)

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

Date: February 2015

Program Elements for Code B Items:

Resource Summary

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<tbody>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>71.936</td>
<td>118.600</td>
<td>162.654</td>
<td>-</td>
<td>162.654</td>
<td>137.544</td>
<td>40.832</td>
<td>10.756</td>
<td>34.565</td>
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<td>Continuing</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>1,468.898</td>
<td>71.936</td>
<td>118.600</td>
<td>162.654</td>
<td>-</td>
<td>162.654</td>
<td>137.544</td>
<td>40.832</td>
<td>10.756</td>
<td>34.565</td>
<td>Continuing</td>
<td>Continuing</td>
</tr>
</tbody>
</table>

The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

Description:

Global Combat Support System-Army (GCSS-A) consists of two funding subcomponents; Standard Army Management Information Systems (STAMIS) Tactical Computers (STACOMP) and Army Enterprise Systems Integration Program (AESIP).

GCSS-Army will modernize tactical logistics by implementing a web based and commercial best business practices system to streamline supply and maintenance, property accountability, and logistics management and integration procedures in all tactical units of the Army. GCSS-Army will provide a comprehensive solution for meeting the day-to-day needs of tactical level logistics, logistics finance operations and statutory auditability requirements. GCSS-Army will enable Commanders to obtain an integrated, interoperable view of the sustainment situation in the battle-space in sufficient time to support decisions that will affect the outcome of combat operations, combat power and planning for future operations.

The Army Enterprise Systems Integration Program (AESIP), mission is to integrate Army business processes by providing a single source for enterprise hub services, centralized master data management, and business intelligence and analytics. AESIP will support the Army’s federated approach and enable the integration of end-to-end logistical and financial processes. The AESIP solution establishes a framework for a fully integrated ERP centric environment that will ultimately provide Commanders Total Asset Visibility from Factory to Battlefield thereby ensuring delivery of the right equipment to the right unit at the right time, while reducing backlogs of material on the battlefield.

GCSS-A is a designated Major Automation Information System (MAIS) program.

Secondary Distribution

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Army</td>
<td>Quantity</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
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### Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:
W30001 / Global Combat Support System-Army (GCSS-A)

**Date:** February 2015

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Obligation Authority</td>
<td>17.538</td>
<td>27.726</td>
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**AR**
- Quantity  
- Total Obligation Authority  
- Total: 
  - Quantity  
  - Total Obligation Authority

<table>
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<tr>
<th></th>
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### Justification:

FY 2016 Base procurement dollars in the amount of $162.654 million supports GCSS-Army and AESIP. These funds procure software licenses, fielding, and training support of the systems to the Army. The AESIP funding procures software required for the implementation of an enterprise business intelligence solution, SAP High-Performance Analytic Appliance (HANA), Database Management System and hardware refresh for the end of life equipment supporting mobile training of software deployment.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89

P-1 Line Item Number / Title: W30001 / Global Combat Support System-Army (GCSS-A)

Item Number / Title [DODIC]: W00800 / GCSS-A Increment 1

ID Code (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code:

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<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>1,418.764</td>
<td>71.236</td>
<td>117.524</td>
<td>159.262</td>
<td>-</td>
<td>159.262</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>1,418.764</td>
<td>71.236</td>
<td>117.524</td>
<td>159.262</td>
<td>-</td>
<td>159.262</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>1,418.764</td>
<td>71.236</td>
<td>117.524</td>
<td>159.262</td>
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<td>159.262</td>
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</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<tbody>
<tr>
<td>Flyaway Cost</td>
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<tr>
<td>Gross/Weapon System Cost</td>
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<th>Secondary Distribution</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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UNCLASSIFIED
LI W30001 - Global Combat Support System-Army (GCSS-A)
<table>
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<th>ID Code</th>
<th>MDAP/MAIS Code</th>
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<tr>
<td>B</td>
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### Secondary Distribution

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
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<td>117,524</td>
<td>159,262</td>
<td>-</td>
<td>159,262</td>
</tr>
</tbody>
</table>

(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 89

#### P-1 Line Item Number / Title:
W30001 / Global Combat Support System-Army (GCSS-A)

#### Item Number / Title [DODIC]:
W00800 / GCSS-A Increment 1

#### Date: February 2015

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<tr>
<th>Cost Elements</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tr>
<td>System Integrator Fielding/Training</td>
<td>2014</td>
<td>Northrop Grumman / Midlothian, VA</td>
<td>C / CPFF</td>
<td>ACCRI, Rock Island Arsenal, IL</td>
<td>Oct 2013</td>
<td>Oct 2013</td>
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<td>-</td>
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<td>-</td>
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<tr>
<td>System Integrator Fielding/Training</td>
<td>2015</td>
<td>Northrop Grumman / Midlothian, VA</td>
<td>C / CPFF</td>
<td>ACCRI, Rock Island Arsenal, IL</td>
<td>Oct 2014</td>
<td>Oct 2014</td>
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<td>System Integrator Fielding/Training</td>
<td>2016</td>
<td>Northrop Grumman / Midlothian, VA</td>
<td>C / CPFF</td>
<td>ACCRI, Rock Island Arsenal, IL</td>
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</table>

**Remarks:**

All COTS items. FY16 OPA funding will be used for the following contracting actions: Fielding and training effort to be completed by the Program's Lead Systems Integrator (LSI) Northrop Grumman, the procurement of SAP software licenses for the user community, additional fielding and training support to supplement the LSI's fielding team will be awarded to a contractor in FY16, and other requirements that are currently being refined. FY16 will incur other noncontract related costs such as matrix support for fielding/training activities.

Matrix support functions include but is not limited to the following.

- Systems Engineering, Architecture and Standards Compliance
- Systems Integration Management
- Systems Test Support
- Technical Fielding Support
- Configuration Management
- Systems Sustainment
- Software Support
- Information Assurance
Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89
P-1 Line Item Number / Title: W30001 / Global Combat Support System-Army (GCSS-A)

Item Number / Title [DODIC]: W11001 / AESIP Increment 1

ID Code: (A=Service Ready, B=Not Service Ready) : 

MDAP/MAIS Code: 

Resource Summary

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<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>48.479</td>
<td>0.700</td>
<td>1.076</td>
<td>3.392</td>
<td>-</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>48.479</td>
<td>0.700</td>
<td>1.076</td>
<td>3.392</td>
<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>48.479</td>
<td>0.700</td>
<td>1.076</td>
<td>3.392</td>
<td>3.392</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
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<tbody>
<tr>
<td>Unit Cost ($ K)</td>
<td>Unit Cost ($ K)</td>
<td>Unit Cost ($ K)</td>
<td>Unit Cost ($ K)</td>
<td>Unit Cost ($ K)</td>
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<td>Qty (Each)</td>
<td>Qty (Each)</td>
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<tr>
<td>Total Cost ($ M)</td>
<td>Total Cost ($ M)</td>
<td>Total Cost ($ M)</td>
<td>Total Cost ($ M)</td>
<td>Total Cost ($ M)</td>
<td>Total Cost ($ M)</td>
</tr>
</tbody>
</table>

Flyaway Cost

AESP Hardware & Software

24,240.000 | 2 | 48.479 | - | - | 0.700 | 1,076.000 | 1 | 1.076 | 3,392.000 | 1 | 3.392 | - | - | - | 3,392.000 | 1 | 3.392 |

Subtotal: Recurring Cost | - | - | 48.480 | - | - | 0.700 | - | - | 1.076 | - | - | 3.392 | - | - | - | - | - | 3.392 |

Subtotal: Flyway Cost | - | - | 48.480 | - | - | 0.700 | - | - | 1.076 | - | - | 3.392 | - | - | - | - | - | 3.392 |

Gross/Weapon System Cost | - | - | 48.479 | - | - | 0.700 | - | - | 1.076 | - | - | 3.392 | - | - | - | - | - | 3.392 |

Secondary Distribution

<table>
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<tr>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
</table>

Army

| Quantity | - | - | - | - | - |
|---------|---------|--------------|-------------|---------------|

Total Obligation Authority | 0.700 | 1.076 | 3.392 | - | 3.392 |

Secondary Distribution

| Quantity | - | - | - | - | - |
|---------|---------|--------------|-------------|---------------|

Total Obligation Authority | 0.700 | 1.076 | 3.392 | - | 3.392 |

(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 89

**P-1 Line Item Number / Title:**
W30001 / Global Combat Support System-Army (GCSS-A)

**Item Number / Title [DODIC]:**
W11001 / AESIP Increment 1

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<th>COTS</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tr>
<td>AESIP Hardware &amp; Software</td>
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<td>AESIP Hardware &amp; Software</td>
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</tbody>
</table>

**Remarks:**
All COTS items. FY16 OPA funding will be used for the following contracting actions: PMO Hardware refresh, Software licenses, support of the ERP enclave, and other requirements that are currently being defined.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:
B66701 / Integrated Personnel and Pay System-Army (IPPS-A)

ID Code (A=Service Ready, B=Not Service Ready): Program Elements for Code B Items:

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</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |

Description:
The IPPS-A provides the Army with an integrated, multi-component, military personnel and pay system which streamlines Army Human Resources (HR), enhances the efficiency and accuracy of Army personnel and pay procedures, and supports Soldiers and their families. The IPPS-A will subsume approximately 50 Army legacy systems across the Army, Army Reserve, and National Guard, into an integrated system. The IPPS-A is a web-based tool, available 24 hours a day, accessible to HR professionals, combatant commanders, personnel and pay managers, and other authorized users throughout the Army. IPPS-A addresses major deficiencies in the delivery of military personnel and pay services and also provides internal controls and audit procedures that prevent erroneous payments and loss of funds.

IPPS-A Increment II will deliver full integrated personnel and pay services for all Army Components, building on the trusted database delivered by the IPPS-A Increment I program. Increment II will be able to link the personnel and pay functions for all Army personnel, eliminating duplicate data entry, reducing complex system maintenance, and minimizing pay discrepancies. IPPS-A Increment II will account for status changes between Active, Reserve, and National Guard components to ensure accurate service time minimizing impact on individual pay, credit for service, and other benefits as well as enable disciplined human resource management.

IPPS-A Increment I and Increment II are both designated Major Automation Information System (MAIS) programs.
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A: Other Procurement, Army
- BA 02: Communications and Electronics
- Equipment / BSA 89: Elect Equip - Tactical C2 Systems

**P-1 Line Item Number / Title:**
- B66701 / Integrated Personnel and Pay System-Army (IPPS-A)

**Date:** February 2015

**Program Elements for Code B Items:**

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<th>Program Elements for Code B Items</th>
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</table>

**Exhibits Schedule**

<table>
<thead>
<tr>
<th>Title*</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Prior Years Quantity / Total Cost (Each) / ($ M)</th>
<th>FY 2014 Quantity / Total Cost (Each) / ($ M)</th>
<th>FY 2015 Quantity / Total Cost (Each) / ($ M)</th>
<th>FY 2016 Base Quantity / Total Cost (Each) / ($ M)</th>
<th>FY 2016 OCO Quantity / Total Cost (Each) / ($ M)</th>
<th>FY 2016 Total Quantity / Total Cost (Each) / ($ M)</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

FY 2016 procurement dollars in the amount of $4.446 million support IPPS-A Increment II initial system software and hardware procurement to build out the Data Center infrastructure.
**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89

**P-1 Line Item Number / Title:** B66701 / Integrated Personnel and Pay System-Army (IPPS-A)

**Item Number / Title [DODIC]:** B66706 / IPPS-A INC 2

**MDAP/MAIS Code:**

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready):</th>
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<tbody>
<tr>
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<table>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<tbody>
<tr>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

**Initial Spares ($ in Millions):**

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<tbody>
<tr>
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(For information purposes only. The corresponding budget requests are documented elsewhere.)

**Cost Elements**

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**Secondary Distribution**

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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89

**P-1 Line Item Number / Title:** B66701 / Integrated Personnel and Pay System-Army (IPPS-A)

**Item Number / Title [DODIC]:** B66706 / IPPS-A INC 2

**MDAP/MAIS Code:**

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**Initial Spares ($ in Millions):**

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(For information purposes only. The corresponding budget requests are documented elsewhere.)

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<th>Army</th>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
## Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 89

**P-1 Line Item Number / Title:**
B66701 / Integrated Personnel and Pay System-Army (IPPS-A)

**Item Number / Title [DODIC]:**
B66706 / IPPS-A INC 2

**ID Code** (A=Service Ready, B=Not Service Ready):

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<td>4.446</td>
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</tbody>
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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Date:** February 2015

##### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 89

##### P-1 Line Item Number / Title:
B66701 / Integrated Personnel and Pay System-Army (IPPS-A)

##### Item Number / Title [DODIC]:
B66706 / IPPS-A INC 2

**Remarks:**
All hardware procurements are COTS items.

<table>
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<th>Cost Elements</th>
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<th>Contractor and Location</th>
<th>Method/Type of Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
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Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title: W60002 / Logistics Automation

Date: February 2015

ID Code (A=Service Ready, B=Not Service Ready): 

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<td>Gross/Weapon System Cost ($ in Millions)</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |

Description:
Logistics Automation is comprised of the current logistics automation systems that support Army logistical operations throughout the world during both peace and wartime missions. Logistics Automation has the funding subcomponents of the current Standard Army Management Information Systems (STAMIS) which include Standard Army Maintenance System - Enhanced (SAMS-E), Standard Army Retail Supply System (SARS), Unit Level Logistics Systems - Aviation Enhanced (ULLS-AE), Property Book Unit Supply Enhanced (PBUSE), and Standard Army Ammunition System - Modernized (SAAS-MOD). Logistics Automation is not directly related to Global Combat Support System - Army (GCSS-A), SSN W30001.

Secondary Distribution

<table>
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**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics

**Equipment / BSA 89: Elect Equip - Tactical C2 Systems**

**P-1 Line Item Number / Title:**
W60002 / Logistics Automation

**Date:** February 2015

**ID Code (A=Service Ready, B=Not Service Ready):**

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<tr>
<th>Title*</th>
<th>Exhibits Schedule</th>
<th>Prior Years</th>
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<td>- / 2.738</td>
<td>- / -</td>
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**Note:** Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**
This program does not have an FY 2016 procurement funding request.
## Exhibit P-5, Cost Analysis: PB 2016 Army

### ID Code (A=Service Ready, B=Not Service Ready):

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<tbody>
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<td>Procurement Quantity (Units in Each)</td>
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<tr>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
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<td>2.738</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

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<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Flyaway Cost</td>
<td></td>
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<tr>
<td>Gross/Weapon System Cost</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Secondary Distribution

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<th>FY 2016 Base</th>
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(*) indicates the presence of a P-5a

(†) indicates the presence of a P-5a
### Cost Elements

<table>
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<tr>
<th>Cost Elements</th>
<th>OCO FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tr>
<td>Hardware Integration Support</td>
<td>2014</td>
<td>GSA / Chester, VA</td>
<td>C / FFP</td>
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<td>Hardware</td>
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**Remarks:**
Items are COTS/GOTS.
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### Resource Summary

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>80.351</td>
<td>12.738</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>12.738</td>
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</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

#### Prior Years

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<th>Cost Elements</th>
<th>Unit Cost ($ K)</th>
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<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
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</thead>
<tbody>
<tr>
<td>Flyaway Cost</td>
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<td>Subtotal: Flyaway Cost</td>
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<tr>
<td>Gross/Weapon System Cost</td>
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#### Secondary Distribution

<table>
<thead>
<tr>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Army</td>
<td>Quantity</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Total Obligation Authority</td>
<td>12.738</td>
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<td>-</td>
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<tr>
<td>Total: Secondary Distribution</td>
<td>Quantity</td>
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<td>Total Obligation Authority</td>
<td>12.738</td>
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</tbody>
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(†) indicates the presence of a P-5a
Exhibit P-5a, Procurement History and Planning: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89

P-1 Line Item Number / Title: W60002 / Logistics Automation

Item Number / Title [DODIC]: W11006 / PROPERTY BOOK USER SYSTEM ENHANCED (PBUSE)

<table>
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<tr>
<th>Cost Elements</th>
<th>OCO FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($k)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware Replacement</td>
<td>2014</td>
<td>CHESS / N/A</td>
<td>C / IDIQ</td>
<td>CECOM, Ft Monmouth, NJ</td>
<td>Mar 2014</td>
<td>Jun 2014</td>
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<td>GSA / Chester, VA</td>
<td>C / FFP</td>
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<td>856.000</td>
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</table>

Remarks:
Items are COTS/GOTS.

Date: February 2015
Description:
The Instrument Set, Reconnaissance and Surveying (commonly known as ENFIRE) is a tactical engineering tool set designed to modernize the collection and dissemination of engineer related information while minimizing exposure to enemy observation. ENFIRE incorporates the ability to automatically populate field data on digital forms used for road, bridge, hasty minefield, and Improvised Explosive Device (IED) reconnaissance/reporting with relevant information from peripheral devices included in the ENFIRE set. ENFIRE sets are used at the company, platoon, and squad levels as a means to facilitate rapid collection and dissemination of information to commanders in the field. Information may be disseminated via the Battle Command Common Services to other ENFIRE sets and to other Mission Command (MC) systems. ENFIRE also has broad area application as a common computing platform for the engineer platoon; with plans to incorporate the Engineer Rapid Airfield Construction Capability Type 1 software solution.

The long distance laser range finder allows soldiers to quickly and accurately determine a target's bearing and distance from the users' location at a significant standoff range. Used in conjunction with the Defense Advanced Global Positioning System Receiver and ArcMap software, ENFIRE users are able to create overlays of bridges, roads, hasty minefields, and IEDs on digital maps as they collect information related to these targets. Using the video camcorder and digital scanner, ENFIRE users can also collect picture and scanned image files that can be associated with bridge, road, hasty minefield and IED information for reporting purposes. Reports can be generated in hard or soft copy for quick dissemination enabling the "Every Soldier as a Sensor" concept.

ENFIRE also offers agile and adaptive tools to help construction and facilities engineers effectively plan and efficiently undertake projects. ENFIRE's construction site-planning software supports structure design, cut and fills requirements, material needs, and personnel and time requirement calculations. ENFIRE's project management tools can create Gantt charts to track project progress and milestones. ENFIRE provides a bar code scanning capability which makes inventory management faster and more accurate.

ENFIRE Army Acquisition Objective (AAO) = 2748

ENFIRE Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army  

Appropriation / Budget Activity / Budget Sub Activity:  
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems  
P-1 Line Item Number / Title:  
BZ9966 / Reconnaissance and Surveying Instrument Set  

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
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<tbody>
<tr>
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<tr>
<td>Quantity</td>
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<td>ANG</td>
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<td>Total Obligation Authority</td>
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Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:
BZ9966 / Reconnaissance and Surveying Instrument Set

ID Code (A=Service Ready, B=Not Service Ready):

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<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
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<td>BZ9966 / Reconnaissance and Surveying Instrument Set</td>
<td>P-5, P-5a</td>
<td>- / 60.766</td>
<td>- / 19.341</td>
<td>- / 10.113</td>
<td>- / 16.218</td>
<td>- / -</td>
<td>- / 16.218</td>
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</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY 2016 Base procurement dollars in the amount of $16.218 million supports procurement of 190 ENFIRE systems for Active Duty, National Guard and Army Reserve Engineer units and includes support for the second year of ENFIRE Technology Refreshment.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Exhibit P-5, Cost Analysis: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 89

#### P-1 Line Item Number / Title:
BZ9966 / Reconnaissance and Surveying Instrument Set

#### Item Number / Title [DODIC]:
BZ9966 / Reconnaissance and Surveying Instrument Set

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#### Resource Summary

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>19.341</td>
<td>10.113</td>
<td>16.218</td>
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<td>16.218</td>
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<tr>
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<tr>
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<td>60.766</td>
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<td>10.113</td>
<td>16.218</td>
<td>-</td>
<td>16.218</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>60.766</td>
<td>19.341</td>
<td>10.113</td>
<td>16.218</td>
<td>-</td>
<td>16.218</td>
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</tbody>
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*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

#### Initial Spares ($ in Millions)

<table>
<thead>
<tr>
<th></th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Gross/Weapon System Unit Cost ($ in Thousands)</td>
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<td>85.358</td>
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#### Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

#### Flyaway Cost

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<tr>
<th></th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
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LI BZ9966 - Reconnaissance and Surveying Instrument ...
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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning

**PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89

**P-1 Line Item Number / Title:** BZ9966 / Reconnaissance and Surveying Instrument Set

**Item Number / Title [DODIC]:** BZ9966 / Reconnaissance and Surveying Instrument Set

**Date:** February 2015

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**Remarks:**
ENFIRE Hardware and Software are 100% COTS/GOTS procurements.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems

P-1 Line Item Number / Title:
B99901 / MOD of In-Svc Equipment (ENFIRE)

Appropriation / Budget Activity / Budget Sub Activity:
Date: February 2015

Description:
Mod of In-Svc Equipment Instrument Set, Reconnaissance and Surveying (commonly known as ENFIRE) supports tech refresh of fielded systems. Tech Refresh of ENFIRE is on a five year cycle and is the replacement of the laptop and selected peripherals.

ENFIRE is a tactical engineering tool set designed to modernize the collection and dissemination of engineer related information while minimizing exposure to enemy observation. ENFIRE incorporates the ability to automatically populate field data on digital forms used for road, bridge, hasty minefield, and Improvised Explosive Device (IED) reconnaissance/reporting with relevant information from peripheral devices included in the ENFIRE set. ENFIRE sets are used at the company, platoon, and squad levels as a means to facilitate rapid collection and dissemination of information to commanders in the field. Information may be disseminated via the Battle Command Common Services (BCCS) to other ENFIRE sets and to other Mission Command (MC) systems. ENFIRE also has broad area application as a common computing platform for the engineer platoon; with plans to incorporate the Engineer Rapid Airfield Construction Capability (ERACC) Type 1 software solution.

The long distance laser range finder allows soldiers to quickly and accurately determine a target's bearing and distance from the users' location at a significant standoff range. Used in conjunction with the Defense Advanced GPS Receiver (DAGR) and ArcMap software, ENFIRE users are able to create overlays of bridges, roads, hasty minefields, and IEDs on digital maps as they collect information related to these targets. Using the video camcorder and digital scanner, ENFIRE users can also collect picture and scanned image files that can be associated with bridge, road, hasty minefield and IED information for reporting purposes. Reports can be generated in hard or soft copy for quick dissemination enabling the "Every Soldier as a Sensor" concept.

ENFIRE also offers agile and adaptive tools to help construction and facilities engineers effectively plan and efficiently undertake projects. ENFIRE’s construction site-planning software supports structure design, cut and fills requirements, material needs, and personnel and time requirement calculations. ENFIRE’s project management tools can create Gantt charts to track project progress and milestones. ENFIRE provides a bar code scanning capability which makes inventory management faster and more accurate.

ENFIRE Army Acquisition Objective (AAO) = 2748 (Department of the Army AAO increase based on a revised Army Force structure of 450,000) ENFIRE Hardware and Software are 100% Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

This program is a new start in FY 2016.
### Exhibit P-40, Budget Line Item Justification: PB 2016 Army

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 89: Elect Equip - Tactical C2 Systems

**P-1 Line Item Number / Title:**
B99901 / MOD of In-Svc Equipment (ENFIRE)

**ID Code** (A=Service Ready, B=Not Service Ready):

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<td>1.577</td>
<td>1.137</td>
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</table>
Justification:
FY 2016 Base procurement dollars in the amount of $1.138 million supports tech refresh of 153 ENFIRE systems.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Army

**Date:** February 2015

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**Secondary Distribution**

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**Subtotal: Mod of Reconnaissance and Survey Set**

| - | - | - | - | - | - | - | 1.138 | - | - | - | 1.138 |

**Total**

| - | - | - | - | - | - | - | 1.138 | - | - | - | 1.138 |
**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics  
**Equipment / BSA 92: Elect Equip - Automation**  

### Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

- **Initial Spares ($ in Millions)**: - - - - - - - - - - - - -
- **Flyway Unit Cost ($ in Thousands)**: - - - - - - - - - - - - -
- **Gross/Weapon System Unit Cost ($ in Thousands)**: - - - - - - - - - - - - -

### Description:

Army Training Modernization (ATM) includes three related efforts to acquire Digital Training Facilities (DTF). DTFs allow rapid delivery of high quality instruction to Army personnel. Infrastructure acquired is based on industry standards and complies with the Joint Technical Architecture (JTA) and Defense Information Infrastructure Common Operating Environment (DII COE), where applicable. This assures compatibility with other military services and that commercial, state, and other resources can be leveraged to achieve cost effective solutions to support all Army components.

Specific initiatives include Distributive Training Technology Project (DTTP), Other Training Modernization, and the Distributed Learning System (DLS). DTTP and DLS will provide approximately 549 modern distance learning (DL) enabled DTFs and associated supporting infrastructure to augment training at existing resident Army schools. Moreover, DLS has fielded 31 Deployed Digital Training Campus (DDTC) to allow training while units are deployed. This allows Army to both increase the number of Army personnel receiving required training and the amount of training that can be provided to each individual. ATM provides a cost effective solution for training Army personnel. Supported training enhancements will help reduce the current backlog of Military Operational Specialty (MOS) training. Army can significantly increase levels of MOS qualification, hence readiness, with standardized Army courseware delivered through Distributed Learning (DL) technology. Implementation of these technology enablers reduce resident training requirements and Soldiers spend less time in the training base and more time in units, thereby increasing readiness. ATM delivers standardized training to Active Component (AC) and Reserve Component (RC) Soldiers and Department of the Army Civilians (DAC). The DTTP/DLS provide infrastructure for Soldiers to train at or near their assigned station in lieu of resident training at Army schools.

Other Training Modernization supports the National Technical Nuclear Forensics need for a recurring equipment requirement associated with a radiation sensor capability, including the need to upgrade evolving commercial off the shelf detection assets and supporting equipment. This equipment is required at the institution in order to meet an evolving training requirement associated with the National Technical Nuclear Forensics-Ground Sampling Mission (NTNF-GSM). The NTNF-GSM is a supporting mission to the strategic national task 9.1.7 (Support Chemical, Biological, Radiological, and Nuclear (CBRN) Forensics and Attribution). The NTNF-GSM requires the Army to support an interagency incident investigation; in support of the FBI or lead federal agency (LFA), by performing ground sampling of radiological and nuclear material as directed. Additionally, this supports the Army Career Tracker (ACT). ACT is a leader development tool which provides Army personnel the ability to manage their professional development and to monitor progress toward training, education, and career goals. ACT supports the following Strategic Alignments: The Army Leader Development Strategy; Army Learning Model; The Army Transition Program; The Army Sponsorship Program; Annex O, Army Campaign Plan: Civilian Workforce Transformation; and HQDA EXORD 054-12 ISO Army Transition mandates that leaders utilize roles in ACT to promote life-long learning and development opportunities throughout the Soldier’s lifecycle of service (hire to retire).
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Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics / BSA 92: Elect Equip - Automation

P-1 Line Item Number / Title: BE4169 / Army Training Modernization

**Exhibit Schedule**

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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

FY16 Base procurement dollars in the amount of $9.597 million funds the DLS Enterprise Technology Refreshment (Tech Refresh) program in support of all increments (DTF, EMC, ALMS, and DDTC). Tech Refresh extends the service life by staying ahead of the obsolescence curve with cost-effective planned technology upgrades, refreshers, and insertions, based on market research and system performance requirements (current and projected). With the advance of information technology, it is critical that Tech Refresh be maintained to assure continued supportability of the DLS Enterprise and to avoid disruption of Army Training.

FY 2016 Base procurement dollars in the amount of $2.454 million supports system integration and technical refresh for 18 of the Program's 334 DL Classrooms. Many of the DL Classrooms have workstations, audio/video equipment, and printers that are well past their end of life and need technical refresh to comply with heightened Cybersecurity standards and new network infrastructure to ensure their continued availability and capability to meet current and emerging training and readiness requirements for the ARNG's State and Federal missions.

FY 2016 Base procurement dollars in the amount of 0.038 million supports specialized radiation detection equipment, required by personnel operating complex systems in a safe manner. Without this equipment, training cannot be accomplished. Annex IV to National Security Planning Directive (NSPD)-17/Homeland Security Planning Directive (HSPD)-4, National Strategy to Combat Weapons of Mass Destruction-National Technical Nuclear Forensics (U-title), dated 14 September 2002, directed the Department of Defense and other US Government Departments to support NTNF-GSM. Department of Defense Directive (DoD) S-2060.04 DoD Support to the National Technical Nuclear Forensics Program (U-title), 1 April 2009, further tasks Department of the Army to support NTNF-GSM. The US Army Training and Doctrine Command (TRADOC) as the US Army proponent for training, doctrine, and force development further delegated those matters concerning NTNF-GSM to the Maneuver Support Center of Excellence (MSCoE) and the US Army Chemical Biological Radiological Nuclear School (USACBRNS) National Technical Nuclear Forensics-Ground Sampling Mission. This is a military-unique capability that can be provided by the Department of Defense to support civil authorities in an incident of national significance.

All funding goes to the active component.
Exhibit P-40a, Budget Item Justification For Aggregated Items:  
PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 92

P-1 Line Item Number / Title:
BE4169 / Army Training Modernization

Aggregated Items Title:
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.

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Exhibit P-5, Cost Analysis: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92

P-1 Line Item Number / Title: BE4169 / Army Training Modernization

Item Number / Title [DODIC]: BE4173 / Distributed Learning System (DLS)

UNCLASSIFIED

Resource Summary

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<td>-</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>167.383</td>
<td>7.262</td>
<td>5.369</td>
<td>9.597</td>
<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>167.383</td>
<td>7.262</td>
<td>5.369</td>
<td>9.597</td>
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Gross/Weapon System Unit Cost ($ in Thousands)

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<tr>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($ K)</th>
<th>Qty (Each)</th>
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<tr>
<td>Flyaway Cost</td>
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<td></td>
<td></td>
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<tr>
<td>System Fielding &amp; Implementation(1)</td>
<td>13,709.000</td>
<td>3</td>
<td>41.127</td>
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<td>91.950</td>
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<td>1</td>
<td>3,021.500</td>
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<td>3,242.000</td>
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<tr>
<td>Subtotal: Recurring Cost</td>
<td>-</td>
<td>-</td>
<td>167.383</td>
<td>-</td>
<td>-</td>
<td>7.262</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Subtotal: Flyaway Cost</td>
<td>-</td>
<td>-</td>
<td>167.383</td>
<td>-</td>
<td>-</td>
<td>7.262</td>
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Secondary Distribution

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<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>Army</td>
<td>-</td>
<td>7.262</td>
<td>5.369</td>
<td>9.597</td>
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<tr>
<td>Total: Secondary Distribution</td>
<td>-</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

(1) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

#### Date: February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 92

**P-1 Line Item Number / Title:**
BE4169 / Army Training Modernization

**Item Number / Title [DODIC]:**
BE4173 / Distributed Learning System (DLS)

<table>
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<th>Cost Elements</th>
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<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tr>
<td>Enterprise Technology Refreshment</td>
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<td>Various Vendors ** / Various Locations</td>
<td>C / FFP</td>
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<td>Apr 2016</td>
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<td>3,242,000</td>
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<td></td>
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</tbody>
</table>

**Remarks:**
Various Vendors: vendors servicing aspects of the Army Learning Management Systems (ALMS) enhancements and the DLS Enterprise Technology Refreshment are GTSI Corp, Chantilly, VA; CDW Government, Inc., Vernon Hills, IL; Sprint, Reston, VA; and Spiritech, Inc., Warren, MI, Betis Group, Arlington, VA. The Distributive Learning System (DLS) Enterprise Technology Refreshment addresses replacement or upgrading of critical information technology components throughout the DLS enterprise system. It is anticipated that this continuing requirement will be serviced by a variety of contractor entities in the future. Items are COTS/GOTS.
UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics

Program Elements for Code B Items:

![Resource Summary Table]

Program Elements for Code B Items:

Other Related Program Elements:

Description:

This budget line does not procure weapons systems or produce end items for weapons systems. All information technology (IT) procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site.

The Automated Data Processing Equipment (ADPE) program supports the Army's sustaining base automation systems. The Army's primary sustaining base Information Management (IM) goal is to provide information services for the sustainment and readiness of the forces at minimum cost. A stable modernization program is essential to maintain efficiency, increase productivity, and reduce operation and maintenance costs through technological advancement. The Army's modernization strategy to support its warfighting forces in the 21st Century leverages and aligns the use of automation technology to consolidate, streamline, and modernize its management information systems to support Command, Control, Communications, Computers (C4) for the Warfighter, power projection strategies, battle space awareness, Army Transformation, home station and modularity capabilities, focused logistics, and downsized force structures. Modernization plans flow from strategic planning (mission needs) and ensure standardization, interoperability, and systemic replacement of equipment that is obsolete due to technology changes, reliability, and serviceability. The ADPE program provides combat service support to the Warfighter in the areas of command and control, logistics, personnel, and other sustaining base functions.

ARMY DATA CENTER CONSOLIDATION PROGRAM:

ARMY DATA CENTER CONSOLIDATION PROGRAM (ADCCP): The ADCCP executes the Presidential, Office of Management and Budget Federal Data Center Consolidation Initiative, DoD directives, and the Army Execute Order for data center consolidation. The ADCCP will decrease the Army's information technology infrastructure and application inventory to gain fiscal efficiencies, reduce exposure to cyber exploitation, streamline information operations, and achieve centralized hosting services while migrating to a discrete number of Operating Environments. The ADCCP implements the Common Operating Environments for fixed-site Core Data Centers that allow for standardized Network Operations (NetOps) and functional commands' virtualization and migration of applications to support such initiatives as the Joint Information Environment (JIE). This establishes the Data Center Computing Environment, standardized local NetOps environments, and associated server environments necessary for the phased closure of 534 geographically dispersed data centers and migration of myriad Army applications to Defense Information Systems Agency Core Data Centers.

OPTICAL DIGITAL EQUIPMENT:

ARMY RECORDS INFORMATION MANAGEMENT SYSTEM (ARIMS): The ARIMS is the Department of the Army's enterprise record keeping system. It is used to identify, collect, preserve, and retrieve electronic record information and index hard copy records with retention periods ranging from 7 to 150 years in 130 Army-owned Records Holding Areas and 16 Federal Records Centers. With over 54,000 users, ARIMS provides the central capability for sharing information that documents the conduct of the Army's business, contingency and war-time operations, and ensures economy and efficiency in documenting Army policies, decisions, and operations. The ARIMS web-based tools reduce the administrative burden of the Warfighter, ensure that the Army's official and historical records are preserved, improve and sustain legitimate access to Army records, and promote compliance with governing statutes. The ARIMS supports Army-wide record management activities, including those addressing Department
of Army responsibilities under the Freedom of Information Act (FOIA), the Privacy Act, Executive Order 13526 Declassification requirements, and the Army's combat records research role as the Department of Defense Executive Agent for Post Traumatic Stress Disorder (PTSD) and other health related claims filed by Veterans. Specialized record collections include Gulf War Declassification, Operation Enduring Freedom, Operation Iraqi Freedom, Operation New Dawn, and other contingency operations. Technology refresh ensures the Army's records comply with statutory and regulatory requirements, preserves individual record integrity, mitigates the risk of historical information loss, and ensures official Army records are available for Congressional, Government Accountability Office, Executive Branch, and FOIA requirements. Under the Army Data Center Consolidation Plan (ADCCP) initiative, ARIMS is identified as an Army application pending data center 'hosting' disposition.

INTERACTIVE PERSONNEL ELECTRONIC RECORDS MANAGEMENT SYSTEM (iPERMS): The iPERMS supports the Army's military personnel management mission on a 24 hours a day/7 days a week basis as required by Titles 10 and 44 US Code and DoD Directive 5015.2. The iPERMS is the Records Management Application (RMA) for the Army Military Human Resource Record (AMHRR), also known as the Official Military Personnel File (OMPF). It is used by Army Human Resource Managers and Soldiers throughout the world as the authoritative source for Army personnel documents and is also the repository for Soldier pay-substantiating documents. The documents in iPERMS are critical to the Army's Promotion, Command, and School Selection Board processes for both Enlisted and Officer Soldiers, and Army Audit Readiness. Over 160 million AMHRR/OMPF documents in iPERMS support the Army Reserve, Army Reserve, and Army National Guard personnel functions at all command levels and are available to the individual Soldier via web access. Currently, 4 million personnel files are supported by iPERMS and the number of files increases each year; the system also supports other activities such as the Department of Veteran Affairs, Department of Labor, and Federal, State, and local Law Enforcement agencies. The iPERMS will interface directly with, but not be subsumed by, the Integrated Personnel and Pay System-Army (IPPS-A). This program is linked to RDTE Program Element 0605013A, Project Number T05, Project Title Army Business System Modernization Initiatives.

STRATEGIC LOGISTICS PROGRAM:
LOGISTICS TECHNOLOGY ASSESSMENT (LTA) (FORMERLY EMERGING LOGISTICS TECHNOLOGIES (ELT)): LTA invests in innovative information technology solutions that improve Army logistics processes by reducing demand and/or creating logistics efficiencies. Funding is required to procure GOTS/COTS products and integrate them in a field-based system of systems environment maintained at Joint Base McGuire-Dix-Lakehurst, NJ, for use and implementation planning. Solutions to be procured and integrated include mobile application to automate the capture and processing of fuel and ammunition consumption and delivery, mobile and head-worn devices to automate maintenance operations, and Condition Based Maintenance (CBM) solutions that wirelessly transmit health and usage data off of Army platforms. LTA will ensure that targeted tactical solutions interoperate with the logistics applications maintained at Army Data Centers, such as the Army's Enterprise Resources Planning (ERP) environment, and that they communicate over standard Army Networks maintained at Joint Base McGuire-Dix-Lakehurst. This program directly supports Army Operating Concept requirements to create logistics efficiencies and reduce demand, thus enabling the Army to maintain equipment readiness with reduced logistics footprint and costs.

HQ MANAGEMENT INFORMATION SYSTEMS: HEADQUARTERS, DEPARTMENT OF THE ARMY AUTOMATED DATA PROCESSING EQUIPMENT (HQDA ADPE): The HQDA ADPE provides the Headquarters Enterprise Network (HEN) end user computing, application, and Video Teleconferencing environments. The HEN supports more than 14,000 users in over 80 Army directorates and agencies in the Pentagon and National Capital Region including both classified and unclassified end user device support. Systems provide the back-end server and data storage to support the virtualized desktop as a service infrastructure. This converged and virtualized platform enables Army to avoid costly maintenance of individual desktops by deploying a reduced number of disparate user images directly from the server for better management of security patching, improved software license and version control, and ability of HQDA staff to work from remote locations. The HEN also supports Internet Protocol(IP)-based Video Teleconferencing (VTC) systems, which offer a significant improvement in reliability and availability for remote collaboration. The robust IP-based VTC environment helps eliminate costly dedicated Integrated Services Digital Network (ISDN) lines and unreliable ISDN-based systems, and also enables a significant reduction in local and temporary duty travel costs.

PENTAGON INFORMATION TECHNOLOGY INFRASTRUCTURE (PITI): The PITI provides network transport for all Services and Agencies in the Pentagon at all security classification levels. This program includes comprehensive network security, computer network defense, and intrusion detection at the DoD Information Networks Pentagon edge. It also provides the Pentagon Installation Processing Node (IPN) with full spectrum computing and data centers, data storage, replication, recovery, and back-up. The PITI also provides the organizational messaging node for DoD and replaces existing firewalls with the joint computer network defense architecture for the Pentagon node. Life Cycle Replacement of the Pentagon's computer network infrastructure is critical; it replaces aging equipment from the Pentagon infrastructure renovation 6 to 10 years ago and will minimize the risk for increased occurrences/durations of widespread network outages and higher maintenance costs. The program also provides the capacity needed to meet the Joint Information Environment bandwidth requirements based on the virtualization and continuing alignment of Enterprise services at DoD Core Data Centers.

STRATEGIC COMMAND CENTERS (SCC): The SCC provides core Command, Control, Communications, and Computers (C4) infrastructure for Joint, Coalition and Interagency C4 capabilities at Army and Army supported command centers. These include European Command (EUCOM), US Africa Command (AFRICOM), US Forces Korea (USFK), Joint Special Operations Command (JSOC), Southern Command (SOUTHCOM), HQDA Army Operations Center (AOC), and the Alternate National Military Command Center (ANMCC)-Site R. Specifically, SCC provides resources for Army supported Combatant Commander
UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics / BSA 92: Elect Equip - Automation

P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip

Date: February 2015

UNCLASSIFIED

ID Code (A=Service Ready, B=Not Service Ready): [A] (COCOM) C4 infrastructure in support of other IT programs of record (POR) such as the Global Command and Control System (GCCS) Family of Systems (FoS). The SCC provides core C4 infrastructure for Joint and COCOM sites to include system and technical facilities, Protected Distribution Systems, and site preparation for other support equipment such as Video Teleconference (VTC), data, voice, displays, audio-visual equipment, cabling, and lighting. This infrastructure supports COCOM requirements for Command and Control (C2) operations and worldwide Information Assurance and Security Assistance. These sites are designated as key National military Command System (NMCS) Command Centers and are required to operate 24 hours a day/7 days a week.

LEGAL AUTOMATION ARMY-WIDE SYSTEM (LAWXS): The LAWXS is the Army Judge Advocate General's Corps (JAGC) Knowledge Management System that provides critical strategic communications, legal resources, and mission support for garrison and deployed legal operations, Active and Reserve legal personnel, and mission planning and execution. The LAWXS consists of web-enabled legal databases and applications accessible worldwide on JAGCNet (the Army JAGC web portal). It also provides legal resources and research capabilities for the full range of functional areas (international law, military justice, claims, administrative law, and litigation) for off-line and stand-alone legal support requirements. The Judge Advocate Warfighting System (JAWS) provides remote access to JAGCNet. LAWXS/JAWS is the single system that provides critical legal resources to deployed Army JAGC personnel when advising commanders and activities on statutory and regulatory requirements. Sensitive information resides in LAWXS including Health Insurance Portability and Accountability Act (HIPAA) information concerning medical care recovery and other tort/claims actions; personally identifiable information (PII); For Official Use Only (FOUO); and Law Enforcement Sensitive information. Operational support provided by LAWXS/JAWS includes lawful targeting, compliance with the Law of War, negotiation and preparation of international agreements and treaties, conduct of legal tribunals, claims processing, and preparation of soldier documents such as wills and powers of attorney.

MACOM AUTOMATION SYSTEMS:

ARMY COMPUTING INFRASTRUCTURE (ACI): The ACI resources equipment that provides for Joint Information Environment (JIE)-defined Army Installation Service or Processing Nodes based on required capacity at Army installations in Continental United States and Outside Continental United States. The infrastructure that ACI procures is comprised of the Common Operating Environment, Network Operations tools, and the ancillary equipment and software vital to standardizing, managing, maintaining, and securing local installation nodes and networks. This program supports the ongoing Army Data Center Consolidation Program (ADCCP), which is an approved data center information technology inventory reduction and standardization program sanctioned by Army governance bodies and in accordance with Federal and DoD CIO guidelines.

BATTLE LAB COLLABORATIVE SIMULATION ENVIRONMENT (BLCSE): The BLCSE is a deliberate program for developing and evaluating new warfighting concepts and capabilities prior to committing resources. The principal method used by BLCSE is experimentation placing Soldiers and Leaders in situations representing complex future operational environments. The BLCSE is the key modeling and simulation technical architecture. The BLCSE is a secure data network and a federation of proven constructive and virtual simulations that provide a persistent, coherent, and integrated synthetic experimentation environment. The BLCSE uses approved scenarios, authoritative performance data, and validated simulations to ensure quantifiable, efficient analyses to help validate concepts and to support Army decisions. The BLCSE provides collaborative and distributed capability and network connectivity to Army and Training and Doctrine Command (TRADOC) Battle Labs and the TRADOC Analysis Center. The BLCSE provides substantial cost avoidance by providing an enterprise solution that consolidates network capabilities while reducing travel, shipping, equipment, and facility costs required to support the Army Experimentation Program. The BLCSE network will be a key enabler as part of the Army Experimentation of Force 2025 Maneuvers in developing the concepts that will ultimately lead to the determination and fielding of the required capabilities to deliver Force 2025 and Beyond.

US ARMY TRAINING AND DOCTRINE COMMAND (TRADOC) INSTITUTIONAL ARMY BATTLE COMMAND SYSTEM (ABCS) TRAINING BASE (TIABCSTB): The Army approved Mission Command Training Strategy (MCTS) is focused at the Doctrine, Organization, Training, Material, Leadership and Education, Personnel, and Facilities (DOTMLPF) implication of the Army Battle Command Systems (ABCS) which are the principal digital Command and Control (C2) system for battlefield commanders from battalion to corps. The ABCS consists of the Global Command and Control System Army (GCCS-A), Advanced Field Artillery Tactical Data System (AFATDS), All Source Analysis System (ASAS), Battle Command Sustainment Support System (BCS3), Army Missile Defense Warning System (AMDWS), Maneuver Control System (MCS), Force XXI Battle Command Brigade and Below (FBCB2), and Tactical Airspace Information System (TAIS). This program enables commanders, battle staff, and Soldiers to exploit new digital command and control capabilities on the battlefield. The institutional Battle Command Training and Distributed System (BCT&DS) is integral to the MCTS while supporting the operational forces Active Army, National Guard, and Army Reserve digital training requirements in real time within a networked Army Battle Command (ABC) learning environment. It is designed, developed, and engineered to support institutional operational adaptation. It enables the TRADOC institutional training domain to accomplish 24 hours a day/7 days a week training in support of the Army Campaign Plan. This infrastructure can demonstrate and exercise digital battle command and staff functions, integrating live, virtual, constructive multi-media educational assets, and conduct robust individual and collective training events exercises. The BCT&DS is a subset of the institutional Mission Command Art & Sciences Program (MCASP) and supports the Army Mission Command Training Strategy. This BCT&DS capability is provided at specified TRADOC schools.
ARMY TRAINING INFORMATION ARCHITECTURE (ATIA) (FORMERLY ARMY TRAINING INFORMATION SYSTEM (ATIS)): The ATIA infrastructure provides the operational environment supporting the Army’s learning management systems, the Central Army Registry (CAR) Training Development Capability (TDC), and system interfaces to the Army Training Requirements and Resources System (ATRRS). These systems are the official repository of Army training products and services in accordance with Army Regulation 25-30 and TRADOC Regulation 350-70. The ATIA facilitates mission information critical to all Army training development and management. The ATIA is used by over 480,000 Active, Guard, and Reserve Soldiers and trainers in residence and is available to deployed Soldiers via distance learning.

ACADEMIC NETWORK VIRTUALIZATION (ANV): The Defense Language Institute Foreign Language Center (DLIFLC) academic network provides high-speed access to authentic language materials accelerating language acquisition for DoD linguists. The network provides virtualized desktop capability on mobile computing platforms to improve efficiency and security. The academic network leverages mobile computing technology to improve time on task for the DLIFLC student population. The DLIFLC has directly correlated both the speed of language acquisition and proficiency levels reached by students to the amount of exposure students have to authentic language content. The intent is to recapitalize the investment to ensure the continued functionality of the current mobile technology fleet by delivering virtual desktop capability through the student mobile devices. This will be accomplished through the replacement of end-of-life equipment to provide better virtual learning opportunities to the total force through immersive training events delivered via the web and mobile applications as well as language training detachments.

STANDARD PROCUREMENT SYSTEM (SPS) PAPERLESS CONTRACTING: The SPS is the DoD electronic contract writing system that provides a standard contracting capability consistent with the Army and DoD architectures. The SPS supports procurement and contracting business systems that capture contracting data and reports information from procurement and contracting activities to Congress, DoD, and Army leadership. Army base installation, weapon systems, medical services, intelligence, construction, inventory control, expeditionary and contingency contracting offices use SPS to support the Army’s global contracting operations worldwide. The DoD and Army transformation plans mandate reduction and consolidation of servers for camps, posts, and stations by 30-50%. The SPS is scheduled to be retired in September 2018 and replaced by the Army Contract Writing System (ACWS) within an Enterprise Resource Planning (ERP) environment.

ACQUISITION, LOGISTICS, AND TECHNOLOGY ENTERPRISE SYSTEMS AND SERVICES (ALTESS): ALTESS provides enterprise-class, core data center services including hosting and support for approved Army and DoD systems. In addition to hosting, ALTESS provides information management, technology, and assurance to Army and DoD Joint Services organizations. ALTESS performs full life cycle support and services for enterprise solutions and hosting services in secure environments; it is a cornerstone of the Army's Data Center Computing Environment (DCCE). The ALTESS facility is equipped to host state-of-the-art, high density computing environments. Technical refresh of core infrastructure components are completed annually on different parts of the hosting infrastructure to maintain current support as required by Information Assurance regulations. Strategic investments in the ALTESS highly efficient and manageable infrastructure will provide the baseline capability required to satisfy the mission of the DCCE initiatives.

U.S. AFRICA COMMAND (AFRICOM) HEADQUARTERS (HQ) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE) (FORMERLY JOINT INFORMATION ENVIRONMENT-EUROPE): The AFRICOM HQ ADPE provides the end user computing and application environments for AFRICOM. It supports users at Kelly Barracks, Germany, and Molesworth, United Kingdom, with both classified and unclassified computing capabilities. Systems and services include information assurance and security to further automate infrastructure scanning and patching to identify security vulnerabilities, take corrective actions, and investigate security incidents. It provides unified communications servers integrating voice, teleconferencing, video teleconferencing, collaboration, and messaging services to improve the ability to accomplish work at distributed locations. The video infrastructure supports increasing requirements for high definition video. Centralized management and control of servers and virtual servers will improve capabilities and reduce the physical footprint of the computing infrastructure to include Directory, File, Print, and Web server processing; storage and switching; data replication for Continuity of Operations Planning (COOP), data recovery, and improved capacity for basic store and retrieve capabilities.

ARMY ONE SOURCE (AOS): The AOS portal, located at www.myarmyonesource.com, compiles important, credible, up-to-date information in a single location for Army Soldiers and Family members to access at any time of day, regardless of component or physical location. It is the public face of the HQDA Family Programs Directorate and serves as the official portal to Army Families worldwide. It organizes articles, videos and resources in the following major categories: Family Programs and Services; Healthcare; Soldier and Family Housing; Child, Youth and School Services; Education, Careers and Libraries; Recreation, Travel, and Better Opportunity for Single Soldiers (BOSS); and Communities and Marketplace. It’s also a tool that is used by Army Community Service staff members for recordkeeping as well as a commanders tool to communicate in a virtual Family Readiness Group.

ARMY CONTRACT WRITING SYSTEM (ACWS): The ACWS is the Army's strategy for a single enterprise-wide contract writing and management solution that will meet the Army's current critical functional contract writing requirements and expand to meet future functional needs. The Army's goal is to streamline Acquisition, Technology and Logistics (AT&L) end-to-end business processes; reduce operating, maintenance, and support costs; minimize the number interfaces; support financial auditability; and promote and improve efficiencies when integrating with existing Enterprise Resource Planning (ERPs).
solutions. This program supports the 2011 Under Secretary of Defense (USD) AT&L memorandum that directed the Services to develop a new contract writing system. Accordingly, the DoD Deputy Chief
Management Officer (DCMO) validated the Army's problem statement and the Army Acquisition Executive approved the ACWS Materiel Development Decision (MDD) in 2014. The procurement program will
support all requisite activities to concurrently develop pre-Milestone A documentation and perform pre-solicitation/source selection activities expected of an ACAT III program in order to comply with the USD
AT&L directive. This program is linked to RDTE Program Element 0605013A, Project Number T05, Project Title Army Business System Modernization Initiatives.

THE JUDGE ADVOCATE GENERAL'S LEGAL CENTER AND SCHOOL (TJAGLCS) INFRASTRUCTURE: Over 6000 students are trained annually at The Judge Advocate General's Legal Center & School
(TJAGLCS). The existing IT infrastructure is outdated and does not support wireless networking and Voice over Internet Protocol (VoIP) communications. Coursework utilizes online content for structure and
methodology for teaching critical skills to Judge Advocates, Legal Administrators, and Paralegals for career development and mandatory continuing legal education. The wireless network will implement all
Information Assurance Best Practices to enable the maximum number of simultaneous users in a secure wireless environment. The VoIP capability will replace an aging telephone and voice mail system that is
failing and no longer economically sound to maintain or find parts to repair. Additional upgrades will be implemented as required to ensure that TJAGLCS infrastructure provides maximum network availability to
ensure quality legal support Army-wide.

COMBINED OPERATIONS AND INTELLIGENCE CENTER (COIC) WALL ENGINE REPLACEMENT. The COIC wall supports Operation Freedom Sentinel (OFS) at the ARCENT Operations Center, Camp
Ariifjan. The COIC wall provides 24 hours a day/7 days a week situational awareness of theater assets to include ARCENT, subordinate Army/land force units in the ARCENT Area of Responsibility, Special
Operations Forces, and air assets supporting or supplementing air operations. It monitors feeds from Top Secret/Sensitive Compartmented Information down to coalition secure information feeds (secure
networks). Information is displayed graphically, including a Common Operating Picture, and can support live video/secure video teleconference feeds.

PERSONNEL AUTOMATION SYSTEMS:
PERSONNEL ENTERPRISE SUPPORT-AUTOMATION (PES-A): The PES-A is an Information Technology (IT) Enterprise infrastructure acquisition program that provides integrated support to the Army Human
Resources (HR) community. This program is critical to the execution of the day-to-day operations for the Active Army and its components in terms of strength accounting, personnel movement, assignment
actions, career management, training, recruiting, reenlistment, and mobilization. The PES-A provides the hardware, network, and connectivity capabilities that serve as the technical foundation for core Army
HR systems, applications, and services supporting the Warfighter. These systems include the Enlisted, Officer, and General Officer Selection Boards, the Soldier's Management System (SMS), the Wounded
Warrior System, and the Defense Casualty Information Processing System (DCIPS). The PES-A supports the readiness and well-being of Army personnel enabling efficient and effective management of Soldiers
world-wide. This integrated infrastructure serves as the backbone for applications to ensure that crucial data and information is available at all times to Soldiers, Army Leaders, the Department of Defense, and
ultimately, Congress.

UNITED STATES MILITARY ENTRANCE PROCESSING COMMAND (USMEPCOM) INTEGRATED RESOURCE SYSTEM (USMIRS): The USMIRS provides the automation and communications capabilities for
MEPCOM to meet its peacetime, mobilization and wartime military manpower accession mission for the Department of Defense (DoD). The USMIRS is used at 65 Military Entrance Processing Stations (MEPS)
and approximately 365 Military Entrance Test (MET) sites throughout the US and its territories. The USMIRS is the only official DoD joint accession resource system that processes applicants for enlistment into all
Services. It collects, stores, edits, processes, and reports applicant and enlistment data on every US Military applicant to determine their aptitude, medical, and past conduct qualifications for service. The
USMIRS interfaces with the Social Security Administration, the United States Citizen and Immigration Service, the Federal Bureau of Investigation through the Office of Personnel Management, commercial and
DoD drug laboratories, the recruiting services, the Defense Manpower Data Center, and many other DoD systems. The USMIRS processes approximately 926.8 thousand individual records annually through its
Data Services. This program is linked to RDTE Program Element 0605013A, Project Number T04, Project Title USMEPCOM Transformation – IT Modernization.

ARMY CENTRALIZED CIVILIAN HUMAN RESOURCES (ACCHR): The ACCHR supports Army-unique interfaces with the Defense Civilian Personnel Database System (DCPDS), which is the Human
Resources (HR) system of record for the entire DoD civilian workforce. The DCPDS provides civilian employees access to the My Biz/My Workplace applications, HR professionals and supervisors worldwide
secure access to Army Civilian Personnel information, and trains/deploy civilian employees in theater in support of the Warfighter. The Army Component instance of DCPDS migrated to the Defense Information
Systems Agency Defense Enterprise Computing Center in Denver, Colorado, in 2014, but the requirement for lifecycle replacement of workstations and printers to access the DCPDS data from Army Civilian
Personnel Advisory Centers (CPACs) and Civilian Human Resources (CHRA) regions will remain with the Army. Other enduring Army-unique requirements include life cycle replacement of scanners for
input of Civilian Official Personnel File documents into Office of Personnel Management (OPM) Electronic Official Personnel Folder (eOPF) system and automation of the Extract, Transform and Load
(ETL) process used to manage the flow of data obtained from DCPDS to Army-unique Civilian HR (CHR) applications such as the Civilian Personnel Online (CPOL) portal and the Fully Automated System for
Classification (FASCLASS).
ARMY ACCESSIONING-INTEGRATED AUTOMATION ARCHITECTURE (AA-IAA): The AA-IAA encompasses the entire automation support for the Army recruiting, accessioning, and Reserve Officers’ Training Corps commissioning missions, which satisfy Army manning and force strength requirements supporting the Warfighter. The AA-IAA serves as an enabler for Total Army recruiting (Active, Reserve, and Army National Guard (ARNG)), in the public, educational, and commercial sectors, where the accessioning force and future force reside while exchanging data with Army and Department of Defense (DoD) automated personnel systems. The AA-IAA provides essential automation capabilities to field recruiters, special mission recruiters, and guidance counselors for the Regular Army, Reserves, and ARNG. It reduces administrative tasks while providing essential data on applicants and newly enlisted Soldiers to leadership. The AA-IAA facilitates responses to changes from Office of the Secretary of Defense and Department of the Army concerning accessioning business processes. Operationally it captures applicant information and supports electronic projection of that data and supporting documents. It also provides Continuity of Operations and disaster recovery for Primary Mission Essential Function applications and databases. It maintains historical production data, produces management reports, supports the presentation of Army opportunities, and is the sole information source for delivering leads to recruiters. The AA-IAA also provides the overarching support structure for cyber recruiting and applicant self-processing.

KEYSTONE: KEYSTONE is an interactive, on-line automated personnel system which supports all components (Active, Reserve, and National Guard) of the Army. It provides critical support to accession, training, re-enlistment and assignment processes in peace and war. It supports over 20,000 users worldwide, tracks over 300,000 training seats and maintains military occupational specialty (MOS) skill qualifications, enlistment programs, and assignment/enlistment guarantees. It maintains historical production data, produces management reports, supports the presentation of Army opportunities, is a source for delivering leads to recruiters, and is the sole information source of reclassification for career counselors. KEYSTONE also provides Continuity of Operations and disaster recovery for Primary Mission Essential Function applications and databases. KEYSTONE systems have a direct and visible impact on the Total Army's Personnel End Strength. This program is linked to RDTE Program Element 0605013A, Project Number T05, Project Title Army Business System Modernization Initiatives.

PERSONNEL AUTOMATION SYSTEMS-WEST POINT:
US MILITARY ACADEMY (USMA) INFORMATION TECHNOLOGY (IT): The USMA is an accredited institution of higher learning graduating approximately 1,100 Second Lieutenants to support the Army each year. The USMA IT sustains the mission of the Academy as it maintains pace with Army transformation, remains a competitive Tier 1 university, and supports 4,400 Cadets in accordance with Title 10 USC 4342. Many non-DoD affiliations affect USMA IT mission requirements, specifically, the Accreditation Board of Engineering and Technology (ABET), Middle States Accreditation Board, and Computer Science Accreditation Board (CSAB). These accreditation efforts look at future plans for IT. To maintain its accreditation standards and to instruct and prepare future Army leaders to operate in the sophisticated high-tech warfare of Joint and Army Visions for 2020 and beyond, USMA must employ technology unique to the cadet education and development mission in spaces where cadets, staff, and faculty congregate and collaborate to include cadet barracks, administrative buildings, academic classrooms, and laboratories. The USMA IT is essential to every aspect of education, training, and Command and Control (C2) of the USMA and West Point Garrison. The USMA IT procurement directly supports the Army's core competency to train and equip Soldiers and to grow and develop our future leaders.
### UNCLASSIFIED

**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation

**P-1 Line Item Number / Title:**
BD3000 / Automated Data Processing Equip

**ID Code** *(A=Service Ready, Br=Not Service Ready):*

**Program Elements for Code B Items:**

<table>
<thead>
<tr>
<th>ID Code</th>
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<tbody>
<tr>
<td>BD3000</td>
<td>Automated Data Processing Equip</td>
</tr>
<tr>
<td>BD3956</td>
<td>Automated Data Processing Equip</td>
</tr>
<tr>
<td>B33010</td>
<td>Automated Data Processing Equip</td>
</tr>
<tr>
<td>BD7000</td>
<td>Automated Data Processing Equip</td>
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<tr>
<td>BE4161</td>
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<tr>
<td>BE4175</td>
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**Title* / P-1 Line Item Number / Title:

<table>
<thead>
<tr>
<th>Title* / P-1 Line Item Number / Title</th>
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<tbody>
<tr>
<td>Personnel Automation Systems - West Point</td>
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<tr>
<td>HQ Management Information Systems</td>
</tr>
<tr>
<td>Strategic Logistics Systems</td>
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<tr>
<td>Optica Digital Equipment</td>
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**Exhibits Schedule**

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<thead>
<tr>
<th>Exhibits</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
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<td>- / 1,780</td>
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<td>BE4162</td>
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<td>- / 150</td>
<td>- / 312</td>
<td>- / 312</td>
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</tbody>
</table>

**Total Gross/Weapon System Cost**


**Justification:**

**ARMY DATA CENTER CONSOLIDATION PROGRAM:**
FY 2016 ADCCP has no Base or OCO procurement request. Funds have been realigned from Standard Study Number B33010 to the Army Computing Infrastructure program in Standard Study Number BE4162, for more efficient, effective program management.

**OPTICAL DIGITAL EQUIPMENT:**
FY 2016 Base procurement dollars in the amount of $0.991 million support ARIMS infrastructure components to include servers, storage, routers, firewalls, and telecommunications equipment. These components are required to maintain ARIMS baseline and increase records storage capability, which is necessary for the capture of large volumes of Contingency Operations and official Army records. Technology refreshment will significantly improve research and response time in support of Veterans’ PTSD claims and FOIA inquiries, reduce the data center foot print, and reduce overall maintenance costs.

FY 2016 Base procurement dollars in the amount of $0.770 million support initial iPERMS Enterprise Application Migration and life cycle replacement of hardware to include Network Area Storage, optical storage libraries, servers, system components, and related peripherals. Storage requirements grow with each year due to Army personnel records and the DoD/NARA requirement to maintain all personnel records for 62 years after separation of the individual service member. These procurements will enhance system stability, support expansion requirements, and ensure reliable customer support at all levels.

**STRATEGIC LOGISTICS PROGRAM:**
FY 2016 Base procurement dollars in the amount of $0.978 million support LTA investments in COTS/GOTS solutions that can be leveraged to create logistics efficiencies and reduce demand. These assets will be deployed to the Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Ground Activity located at Joint Base McGuire-Dix-Lakehurst in New Jersey to automate logistics supply, maintenance and distribution processes. Investments entail: GOTS mobile devices and applications for fuel and ammunition distribution tracking; software to integrate automated feeds of fuel, ammunition and Class IX consumption/status supply into a common logistics portal; mechanics aids such as wearable technology (e.g. gogglers) and augmented reality applications; and wireless communication devices to transmit the health/usage of assets to the network maintained at the C4ISR Ground Activity. Investment is needed in FY16 to meet the objectives of the Deputy Chief of Staff G-4 and Assistant Secretary of the Army of Acquisition, Logistics and Technology [ASA(ALT)], including a Military Department (MILDEP) sponsored Logistics Integration Capstone initiative to establish an enduring "sense and respond" logistics environment to identify opportunities, reduce Soldier touch points and decrease logistics demand through the integration of existing technologies.

**HQ MANAGEMENT INFORMATION SYSTEMS:**
FY 2016 Base procurement dollars in the amount of $2.660 million support HQDA ADPE replacement of aged Video Teleconferencing (VTC) systems in three senior leader conference rooms. The VTC systems include high definition monitors, cameras, integrated microphones, and Internet Protocol-based connectivity. The HQDA ADPE also provides for increased capacity for the HQDA virtual desktop environment with scalar devices that consolidate the server and storage into a single, integrated appliance rather than separate infrastructures for computing (servers) and data storage.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

<table>
<thead>
<tr>
<th>Appropriation / Budget Activity / Budget Sub Activity:</th>
<th>P-1 Line Item Number / Title:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2035A: Other Procurement, Army / BA 02: Communications and Electronics</td>
<td>BD3000 / Automated Data Processing Equip</td>
</tr>
</tbody>
</table>

**Equipment / BSA 92: Elect Equip - Automation**

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2016 Base procurement dollars in the amount of $34.391 million support PITI storage management and performance management devices to ensure data storage and replication processes are operating correctly to minimize risk of data loss. The PITI program procures replacements and additional capacity for Storage Area Network devices as they are modernized and integrated with virtualized storage infrastructure. It replaces switches and routers in the distribution portion of the Pentagon network in order to ensure aging devices in the various Pentagon wedges are replaced before hardware failure; this includes virtual routing and forwarding devices to support the Communities of Interest within the Pentagon. The PITI also replaces legacy computing devices with servers that can provide virtual workloads for all local applications and user processing for the Pentagon. It replaces firewalls and security management systems at each external Network Access Point for the Pentagon in order to provide standard network security architecture.</td>
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<tr>
<td>FY 2016 Base procurement dollars in the amount of $7.826 million support global SCC requirements for systems engineering and installation of Command, Control, Communication, Computers (C4) infrastructure, hardware (hubs, servers, protected cable distribution systems, secure video teleconferencing systems, integration and monitoring equipment), software, and program management costs associated with the upgrades and modernization of integrated C4 capabilities and applications.</td>
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<tr>
<td>MACOM AUTOMATION SYSTEMS:</td>
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<tr>
<td>FY 2016 Base procurement dollars in the amount of $12.961 million support ACI to procure information storage and switching equipment along with the computing systems, servers, management tools, and racks to integrate and deploy DoD Information Network (DODIN) and Defensive Cyber Operations (DCO) capabilities while providing network operations (NetOps) management of the LandWarNet, infrastructure, data, and system/applications.</td>
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<tr>
<td>FY 2016 Base procurement dollars in the amount of $1.426 million support the BLCSE with routers, switches and video teleconferencing IT equipment.</td>
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<tr>
<td>FY 2016 Base procurement dollars in the amount of $1.125 million support TIABCSTB infrastructure and control tools including servers, virtualization hardware, switches, and blade server kits.</td>
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</tr>
<tr>
<td>FY 2016 Base procurement dollars in the amount of $0.597 million support ATIA infrastructure to include Virtual Storage Area Network storage, virtual servers, and associated software for life cycle support of the existing infrastructure.</td>
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<tr>
<td>FY 2016 Base procurement dollars in the amount of $1.528 million support ANV with network equipment including servers, routers, switches, firewalls, Storage Area Network (SAN), and fiber optic cable.</td>
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<tr>
<td>FY 2016 SPS Paperless Contracting has no Base or OCO procurement request.</td>
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<tr>
<td>FY 2016 ALTESS has no Base or OCO procurement request.</td>
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<tr>
<td>FY 2016 Base procurement dollars in the amount of $4.402 million support AFRICOM HQ ADPE servers, routers, switches storage, and unified communications equipment.</td>
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<tr>
<td>FY 2016 Base procurement dollars in the amount of $0.337 million support AOS hardware procurements.</td>
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<tr>
<td>FY 2016 ACWS has no Base or OCO procurement request.</td>
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<tr>
<td>FY 2016 Base procurement dollars in the amount of $1.091 million support TJAGLCS Infrastructure with wireless controllers, access points, switches, firewalls, cabling, battery backups, training, labeling, in-place infrastructure, cross connects, and other required wireless features. It also procures telecommunications equipment for up to 250 user stations with phone sets, battery backups, training, headsets, labeling, in-place infrastructure, cross connects, and other required features.</td>
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<tr>
<td>FY 2016 OCO procurement dollars in the amount of $0.652 million support COIC requirement to replace existing lamp-based projection engines with new LED-based projection engines.</td>
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</tbody>
</table>
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 92: Elect Equip - Automation
BD3000 / Automated Data Processing Equip

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

Other Related Program Elements:

PERSONNEL AUTOMATION SYSTEMS:
FY 2016 Base procurement dollars in the amount of 10.194 million support PES-A initial start-up costs for Enterprise Application Migration and local application lifecycle replacement of the Human Resources Center of Excellence (HRCoE) Datacenter Information Technology (IT) infrastructure, to include: mainframe, server, network, backup/recovery, storage, telephony, and disaster recovery equipment.

FY 2016 Base procurement dollars in the amount of $6.721 million support USMIRS lifecycle of applicant testing workstations, network, backup/recovery, storage, telephony equipment and other system components to maintain security and operational support for USMIRS and administrative systems. Items identified for replacement will have exceeded manufacturer or third-party support, product life, or are unable to meet mandated security and/or certification requirements.

FY 2016 Base procurement dollars in the amount of $4.143 million support ACCHR lifecycle replacement (LCR) of workstations and printers to access DCPDS data. These enduring requirements will reduce data processing errors, speed up data refresh cycles, and reduce the number of contracted support personnel to gain further efficiencies.

FY 2016 Base procurement dollars in the amount of $7.882 million support AA-IAA initial start-up costs for Enterprise Application Migration, lifecycle replacement of hardware for local applications, Information Assurance compliance, and data center/architecture consolidation requirements. Hardware includes web and blade servers, Storage Area Network (SAN), routers, switches, and load balance appliances; the replaced equipment will be leveraged and integrated into a single architecture supporting the Accessioning Missions from the Human Resources Center of Excellence (HRCoE) Datacenter Fort Knox, KY.

FY 2016 Base procurement dollars in the amount of $2.433 million support initial KEYSTONE Request Enterprise Application and lifecycle replacement of infrastructure, to include server, network, backup/recovery, storage, and disaster recovery equipment. KEYSTONE provides essential automation capabilities to field recruiters, special mission recruiters, career counselors, and guidance counselors for the Regular Army, Reserves, and ARNG. Program follows a five year lifecycle replacement schedule. Sustainment of KEYSTONE Request in its current environment is required through FY21 based on IPPS-A release schedule.

FY16 USMA IT funds have been realigned from Standard Study Number BE4164, Personnel Automation Systems, to BE4175, Personnel Automation Systems-West Point, for more efficient, effective program management.

PERSONNEL AUTOMATION SYSTEMS-WEST POINT:
FY 2016 Base procurement dollars in the amount of $3.319 million support USMA IT academic audio/visual equipment and computing capabilities for academic facilities and computer lab infrastructure; modernization to DA standards of the Academy Management System (Enterprise Resource Planning (ERP) for grades and class scheduling); Internet Content Filtering/Management System; Continuity of Operations Planning (COOP) services and storage; Defense Research and Engineering Network (DREN) network infrastructure; and the Distributed Antenna System (DAS).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>MDAP/MAIS Code:</th>
</tr>
</thead>
<tbody>
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</table>

#### Prior Years

- **Procurement Quantity (Units in Each)**
- **Gross/Weapon System Cost ($ in Millions)**: 4.173
- **Less FY Advance Procurement ($ in Millions)**
- **Net Procurement (P1) ($ in Millions)**: 4.173
- **Plus CY Advance Procurement ($ in Millions)**

#### FY 2014

- **Total Obligation Authority ($ in Millions)**: 4.173

#### FY 2015

- **Total Obligation Authority ($ in Millions)**: 15.056

#### FY 2016

- **Total Obligation Authority ($ in Millions)**: -

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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### Secondary Distribution

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<tr>
<td>Total:</td>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
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<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Secondary Distribution</td>
<td>Total Obligation Authority</td>
<td>-</td>
<td>15,056</td>
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<td>-</td>
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(†) indicates the presence of a P-5a
## Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92

**P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip

**Date:** February 2015

**Item Number / Title [DODIC]:** B33010 / ARMY DATA CENTER CONSOLIDATION PROGRAM (ADCCP)

### Cost Elements

<table>
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<tr>
<th>Cost Elements</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>Network Operations Tools HW</td>
<td>2015</td>
<td>TBS / TBS</td>
<td>C / FP</td>
<td>TBS</td>
<td>Jul 2015</td>
<td>Sep 2015</td>
<td>1</td>
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### Remarks:

All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site.
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92

**P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip

**Item Number / Title [DODIC]:** BD3956 / OPTICAL DIGITAL EQUIP

<table>
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<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
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<th>FY 2015</th>
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<th>FY 2016 OCO</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>92.754</td>
<td>2.975</td>
<td>2.998</td>
<td>1.761</td>
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<td>1.761</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>92.754</td>
<td>2.975</td>
<td>2.998</td>
<td>1.761</td>
<td>-</td>
<td>1.761</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>2.998</td>
<td>1.761</td>
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<td>1.761</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - |

Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - |

**Cost Elements**

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
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<td>5.379</td>
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Secondary Distribution

<table>
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<tr>
<td>Army</td>
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<td>Total: Secondary Distribution</td>
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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 92

**P-1 Line Item Number / Title:**
BD3000 / Automated Data Processing Equip

**Item Number / Title [DODIC]:**
BD3956 / OPTICAL DIGITAL EQUIP

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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
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<tbody>
<tr>
<td>(ARIMS)</td>
<td>2014</td>
<td></td>
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<td>Sep 2014</td>
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<tr>
<td>(ARIMS)</td>
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<td>C / FFP</td>
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<td>Aug 2015</td>
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<tr>
<td>(ARIMS)</td>
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<td>C / FFP</td>
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<td>Aug 2016</td>
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<tr>
<td>(iPERMS)</td>
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<td>Sep 2014</td>
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</table>

**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. MICC - Mission and Installation Contracting Command; NAVAIR - U.S. Navy Naval Air Systems Command.
## Exhibit P-5, Cost Analysis: PB 2016 Army

### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 92

### P-1 Line Item Number / Title:
BD3000 / Automated Data Processing Equip

### ID Code (A=Service Ready, B=Not Service Ready):

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<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>380.263</td>
<td>1.163</td>
<td>1.427</td>
<td>0.978</td>
<td>-</td>
<td>0.978</td>
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<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>380.263</td>
<td>1.163</td>
<td>1.427</td>
<td>0.978</td>
<td>-</td>
<td>0.978</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>1.163</td>
<td>1.427</td>
<td>0.978</td>
<td>-</td>
<td>0.978</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

- **Initial Spares ($ in Millions)**: -
- **Gross/Weapon System Unit Cost ($ in Thousands)**: -

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<tr>
<td><strong>Hardware Cost</strong></td>
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<tr>
<td>Non Recurring Cost</td>
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<td></td>
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<tr>
<td>Subtotal: Non Recurring Cost</td>
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<td><strong>Software Cost</strong></td>
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<tr>
<td>Non Recurring Cost</td>
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<td>82.249</td>
<td>1,163,000</td>
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<tr>
<td>Subtotal: Non Recurring Cost</td>
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<td>-</td>
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<tr>
<td>Subtotal: Software Cost</td>
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<td>380.263</td>
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### Secondary Distribution

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Army</td>
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<td>Secondary Distribution</td>
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<td>FY 2015</td>
<td>FY 2016 Base</td>
<td>FY 2016 OCO</td>
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<td>Total Secondary Distribution</td>
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<td>1.163</td>
<td>1.427</td>
<td>0.978</td>
<td>-</td>
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</tbody>
</table>

(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** PB 2016 Army

**P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip

**Item Number / Title [DODIC]:** BD7000 / STRATEGIC LOGISTICS PROGRAM (SLP)

<table>
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<tr>
<th>Cost Elements</th>
<th>O CO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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</thead>
<tbody>
<tr>
<td>Logistics Technology Assessment (LTA) HW</td>
<td>2015</td>
<td>TBS / TBS</td>
<td>C / FP</td>
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<td>Logistics Technology Assessment (LTA) HW</td>
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**Remarks:**

All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. AMCOM EC - Aviation & Missile Command Express Contracting; DCMA - Defense Contract Management Agency.
### Exhibit P-5, Cost Analysis: PB 2016 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 92

#### P-1 Line Item Number / Title:
BD3000 / Automated Data Processing Equip

#### MDAP/MAIS Code:

#### ID Code (A=Service Ready, B=Not Service Ready):

#### Resource Summary

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<th>Prior Years</th>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
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<td>-</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<td>61.200</td>
<td>55.278</td>
<td>44.877</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>61.200</td>
<td>55.278</td>
<td>44.877</td>
<td>-</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - |
| Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

#### Cost Elements

**Hardware**

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<th>16.552</th>
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<td>-</td>
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<td>-</td>
<td>-</td>
<td>55.344</td>
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<td>-</td>
<td>55.344</td>
<td>-</td>
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<td>45.415</td>
<td>-</td>
<td>-</td>
<td>43.489</td>
<td>-</td>
<td>-</td>
<td>43.489</td>
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</table>

**Software**

| Non Recurring Cost | (HQDA ADPE) Software(1) | 1.838 | 0.000 | 1.838 | 496.000| 1 | 0.496 | 1.700 | 0.000 | 1.700 | - | - | - | - | - | - | - |
|                   | (PITI) Software(1)       | 2.941 | 0.000 | 2.941 | 5.360 | 1 | 5.360 | 6.041 | 0.000 | 6.041 | - | - | - | - | - | - | - |
|                   | (LAAWS) Software(1)      | - | - | - | - | - | - | 761.000| 0.000 | 761.000| 0.761| - | - | - | - | - | - |
|                   | Subtotal: Non Recurring Cost | - | - | 4.779| - | - | 5.856| - | - | 8.502| - | - | - | - | - | - | - |
|                   | Subtotal: Software Cost | - | - | 4.779| - | - | 5.856| - | - | 8.502| - | - | - | - | - | - | - |

**Support Cost**

---

**Resource Summary**

- Gross/Weapon System Unit Cost: $734.043 million
- Net Procurement: $61.200 million
- FY 2016 Total: $44.877 million

**Cost Elements**

- Hardware:
  - HQDA ADPE Hardware
  - PITI Hardware
  - SCC Hardware
  - LAAWS Hardware
  - Subtotal: Non Recurring Cost
  - Subtotal: Hardware Cost
- Software:
  - HQDA ADPE Software
  - PITI Software
  - LAAWS Software
  - Subtotal: Non Recurring Cost
  - Subtotal: Software Cost
- Support Cost

**MDAP/MAIS Code:**

UNCLASSIFIED

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**UNCLASSIFIED**

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LI BD3000 - Automated Data Processing Equip

**UNCLASSIFIED**

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**Page 18 of 32**

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P-1 Line #101

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544
## Exhibit P-5, Cost Analysis: PB 2016 Army

### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 92

### P-1 Line Item Number / Title:
BD3000 / Automated Data Processing Equip

### Item Number / Title [DODIC]:
BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS

### ID Code (A=Service Ready, B=Not Service Ready):

### MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Prior Years vs. FY 2014

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<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
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### FY 2016 Base

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### FY 2016 Total

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<tr>
<td>Gross/Weapon System Cost</td>
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### Secondary Distribution

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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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### Secondary Distribution

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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 92

**P-1 Line Item Number / Title:**
BD3000 / Automated Data Processing Equip

**Item Number / Title [DODIC]:**
BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS

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<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<td>C / FFP</td>
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**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. ACC-RI - Army Contracting Command-Rock Island; USAESC-H - US Army Engineering Support Center-Huntsville; PM 13C2 - Product Manager, Installation Information Infrastructure-Communications and Capabilities; PEO EIS - Program Executive Office, Enterprise Information Systems.
### Resource Summary

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<th>Procurement Quantity (Units in Each)</th>
<th>Gross/Weapon System Cost ($ in Millions)</th>
<th>Less FY Advance Procurement ($ in Millions)</th>
<th>Net Procurement (P1) ($ in Millions)</th>
<th>Plus CY Advance Procurement ($ in Millions)</th>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

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### Gross/Weapon System Unit Cost ($ in Thousands)

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### Note:
Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

#### Prior Years

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### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 92

**P-1 Line Item Number / Title:**
BD3000 / Automated Data Processing Equip

**Item Number / Title [DODIC]:**
BE4162 / MACOM AUTOMATION SYSTEMS

**ID Code** (A=Service Ready, B=Not Service Ready):

**MDAP/MAIS Code:**

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

#### Cost Elements

<table>
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<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>Qty (Each)</td>
<td>Total Cost ($ M)</td>
<td>Unit Cost  ($ K)</td>
<td>Qty (Each)</td>
<td>Total Cost ($ M)</td>
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**Software Cost**

**Recurring Cost**

| (ACI) Army-wide Software | 736.301.000 | 1 | 736.301 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Army Computing Infrastructure | 77.053.000 | 1 | 77.053 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Subtotal: Recurring Cost** | - | - | 813.354 | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Non Recurring Cost**

| (ACI) Army-wide Software | 42.374.000 | 1 | 42.374 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (BLSCE) Software | 523.000 | 1 | 0.523 | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Total**

| (TIBACSTB) Software(5) | - | - | - | - | - | - | 451.000 | 1 | 0.451 | - | - | - | - | - | - | - |
| (ATIA) Software(6) | 119.000 | 1 | 0.119 | 48.000 | 1 | 0.048 | 155.000 | 1 | 0.155 | 151.000 | 1 | 0.151 | - | - | - | - |
| (SPS) Software | 804.000 | 1 | 0.804 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (AcqBld) Software | 710.000 | 1 | 0.710 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (ISM) Software | 835.000 | 1 | 0.835 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (KT) Software | 17,049.000 | 1 | 17,049 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (TJAGLCS Infrastructure) Software(7) | - | - | - | - | - | - | 350.000 | 1 | 0.350 | - | - | - | 350.000 | 1 | 0.350 |
| **Subtotal: Non Recurring Cost** | - | - | 62.414 | - | - | - | 0.048 | - | - | 0.606 | - | - | 0.501 | - | - | 0.501 |
| **Subtotal: Software Cost** | - | - | 875.768 | - | - | - | 0.048 | - | - | 0.606 | - | - | 0.501 | - | - | 0.501 |

**Support Cost**

Date: February 2015

LI BD3000 - Automated Data Processing Equip
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<td>Total Cost ($M)</td>
<td>Unit Cost ($K)</td>
<td>Qty (Each)</td>
<td>Total Cost ($M)</td>
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(†) indicates the presence of a P-5a
**Exhibit P-5a, Procurement History and Planning:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 92

**P-1 Line Item Number / Title:**
BD3000 / Automated Data Processing Equip

**Item Number / Title [DODIC]:**
BE4162 / MACOM AUTOMATION SYSTEMS

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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
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<th>Unit Cost ($K)</th>
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<th>Date Revision Available</th>
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### Exhibit P-5a, Procurement History and Planning

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 92

**P-1 Line Item Number / Title:**
BD3000 / Automated Data Processing Equip

**Item Number / Title [DODIC]:**
BE4162 / MACOM AUTOMATION SYSTEMS

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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty</th>
<th>Unit Cost (in K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. MICC - Mission Installation Contracting Center; DOI - Department of Interior; ACC - Army Contracting Command; APG - Aberdeen Proving Ground; DISA DITCO - Defense Information Systems Agency Defense Information Technology Contracting Organization; PM I3C2 - Product Manager Installation Information Infrastructure-Communications and Capabilities; PEO EIS - Program Executive Office, Enterprise Information Systems.
### Resource Summary

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<tr>
<th>Cost Elements</th>
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<th>FY 2015</th>
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<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>Unit Cost</td>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td></td>
<td>31.230</td>
<td>31.569</td>
<td>31.373</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td><strong>Total Obligation Authority</strong> ($ in Millions)</td>
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<td>31.373</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

#### Initial Spares ($ in Millions)

- FY 2014: 2,011
- FY 2015: 31.230
- FY 2016: 31.569
- FY 2016 OCO: 31.373
- FY 2016 Total: 31.373

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

#### Hardware Cost

- **(ACCHR) Recurring Hardware**
  - FY 2014: 675,601
  - FY 2015: 11,306
  - FY 2016: 11,101
  - FY 2016 OCO: 10,194
  - FY 2016 Total: 10,194

- **(USMA) Hardware**
  - FY 2014: 8,756
  - FY 2015: 4,120
  - FY 2016: 3,179
  - FY 2016 OCO: 1,872
  - FY 2016 Total: 1,872

- **(AA-IAR) Hardware**
  - FY 2014: 18,040
  - FY 2015: 7,764
  - FY 2016: 9,708
  - FY 2016 OCO: 7,882
  - FY 2016 Total: 7,882

- **Subtotal: Recurring Cost**
  - FY 2014: 26,796
  - FY 2015: 11,884
  - FY 2016: 12,887
  - FY 2016 OCO: 12,025
  - FY 2016 Total: 12,025

#### Non Recurring Cost

- **(PES-A) Hardware**
  - FY 2014: 675,601
  - FY 2015: 11,306
  - FY 2016: 11,101
  - FY 2016 OCO: 10,194
  - FY 2016 Total: 10,194

- **(MIRS) Hardware**
  - FY 2014: 23,228
  - FY 2015: 4,843
  - FY 2016: 5,443
  - FY 2016 OCO: 6,721
  - FY 2016 Total: 6,721

- **(ACCHR) Non Recurring Hardware**
  - FY 2014: 6,331
  - FY 2015: 2,767
  - FY 2016: 1,000
  - FY 2016 OCO: 2,433
  - FY 2016 Total: 2,433

- **(Keystone Hardware)**
  - FY 2014: 705,160
  - FY 2015: 18,916
  - FY 2016: 17,544
  - FY 2016 OCO: 19,348
  - FY 2016 Total: 19,348

- **Subtotal: Non Recurring Cost**
  - FY 2014: 731,956
  - FY 2015: 30,800
  - FY 2016: 31,373
  - FY 2016 OCO: 31,373
  - FY 2016 Total: 31,373

#### Software Cost

- **(ACCHR) Software**
  - FY 2014: 2,011
  - FY 2015: 430
  - FY 2016: 1,138
  - FY 2016 OCO: 1,138
  - FY 2016 Total: 1,138
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 92

**P-1 Line Item Number / Title:**
BD3000 / Automated Data Processing Equip

**Item Number / Title [DODIC]:**
BE4164 / PERSONNEL AUTOMATION SYSTEMS

**ID Code** (A=Service Ready, B=Not Service Ready): MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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**Secondary Distribution**

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*(†) indicates the presence of a P-5a
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<th>Location of PCO</th>
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Exhibit P-5a, Procurement History and Planning: PB 2016 Army

Date: February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92

P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip

Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS

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<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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Remarks:
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. MICC - Mission and Installation Contracting Command.
### Exhibit P-5, Cost Analysis: PB 2016 Army

<table>
<thead>
<tr>
<th>Appropriation / Budget Activity / Budget Sub Activity:</th>
<th>P-1 Line Item Number / Title:</th>
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<tr>
<td>2035A / 02 / 92</td>
<td>BD3000 / Automated Data Processing Equip</td>
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<table>
<thead>
<tr>
<th>Item Number / Title [DODIC]:</th>
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<tr>
<td>BE4175 / Personnel Automation Systems - West Point</td>
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<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready):</th>
<th>MDAP/MAIS Code:</th>
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#### Resource Summary

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<td>3.319</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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#### Cost Elements

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<td>Subtotal: Hardware Cost</td>
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<tr>
<td>Gross/Weapon System Cost</td>
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#### Secondary Distribution

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(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

#### Date: February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 92

**P-1 Line Item Number / Title:**
BD3000 / Automated Data Processing Equip

**Item Number / Title [DODIC]:**
BE4175 / Personnel Automation Systems - West Point

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<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tr>
<td>U. S. Military Academy (USMA) Hardware</td>
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<td>C / FP</td>
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**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. MICC - Mission and Installation Contracting Command.
The General Fund Enterprise Business System (GFEBS) is a Major Automated Information System (MAIS)/(ACAT-1AC) project that replaces 30+ year-old financial systems including the Standard Finance Systems (STANFINS), Standard Operations and Maintenance, and Army R&D System (SOMARDS). GFEBS is the Dept of the Army's core financial and asset management system for administering its general fund, improving performance, standardizing processes and ensuring future needs are met. GFEBS is a commercial off-the-shelf (COTS) Enterprise Resource Planning (ERP) System certified by the Chief Financial Officers Council (CFOC). GFEBS is fielded to more than 37,000 trained users at over 227 installations worldwide and is the Army's solution to the current capability gap in accounting and financial management. GFEBS provides improved functionality in general fund core financial functions including: general ledger management; financial reporting; real property, plant, and equipment accountability; reimbursables, revenue, and accounts receivable; cost management; funds control and budgetary accounting; accounts payable; and audit trails and system controls and meets legislative mandates to develop an auditable financial system. The primary objectives for the GFEBS financial management system are to improve performance, standardize business processes, ensure capability exists to meet future needs, and provide Army's decision makers with relevant, reliable, and timely information.

GFEBS-Sensitive Activities (SA) provides a classified version of the GFEBS program developed to process data in a secure environment to protect and manage classified data. GFEBS-SA will integrate seamlessly with GFEBS and provide a secure, web-based, financial asset and accounting management system to Army classified, intelligence, and special access programs.

### Resource Summary

<table>
<thead>
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<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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<td>Procurement Quantity (Units in Each)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | -                    | -       | -            | -            | -            | -       | -       | -       | -                        |
| Flyaway Unit Cost ($ in Thousands) | -                    | -       | -            | -            | -            | -       | -       | -       | -                        |
| Gross/Weapon System Unit Cost ($ in Thousands) | -                    | -       | -            | -            | -            | -       | -       | -       | -                        |

**Description:**

GFEBS-Sensitive Activities (SA) provides a classified version of the GFEBS program developed to process data in a secure environment to protect and manage classified data. GFEBS-SA will integrate seamlessly with GFEBS and provide a secure, web-based, financial asset and accounting management system to Army classified, intelligence, and special access programs.
### Exhibit P-40, Budget Line Item Justification: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics

**Program Elements for Code B Items:**

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<th>Other Related Program Elements</th>
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**ID Code (A=Service Ready, B=Not Service Ready):**
- **2035A:** Other Procurement, Army / BA 02: Communications and Electronics / BSA 92: Elect Equip - Automation

**P-1 Line Item Number / Title:**
- B55500 / General Fund Enterprise Business Systems Fam

**Exhibit P-40, Budget Line Item Justification:**

**Title**

- **B55511 / GFEBS SENSITIVE ACTIVITIES**
- **BE4168 / General Fund Enterprise Business System**

**Exhibits Schedule**

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<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
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<td>- / -</td>
<td>- / 13.728</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

**Note:** Totals in this Exhibit P-40 set may not be exact or add due to rounding.

### Justification:

FY 2016 Base procurement dollars in the amount of $13.540 million supports software and hardware infrastructure upgrades, to bring GFEBS reporting and analytics in line with processing performance thresholds established in the GFEBS Capabilities Production Document (CPD); migration of GFEBS Production, Development, Test, Staging, and Continuity of Operations (COOP) data center environments to the Defense Information Systems Agency (DISA)*; implementation of configuration changes to meet Common Operating Environment (COE) and Core Data Center Technical configuration standards.

FY 2016 Base procurement dollars in the amount of $5.455 million supports GFEBS-SA system fielding; training, data cleansing, and initial on-site support.

*Reference: Memorandum, Department of Defense Chief Information Officer, 11 July 2013, Department of Defense Joint Information Environment: Continental United States Core Data Centers and Application and System Migration.
**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92

**P-1 Line Item Number / Title:** B55500 / General Fund Enterprise Business Systems Fam

**Item Number / Title [DODIC]:** B55511 / GFEBS SENSITIVE ACTIVITIES

**MDAP/MAIS Code:**

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<tr>
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<td>Total Obligation Authority ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>13,728</td>
<td>5,455</td>
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<td>-</td>
<td>5,455</td>
</tr>
</tbody>
</table>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

- **Initial Spares ($ in Millions):**
  - **Unit Cost** ($K): -
  - **Qty (Each):** -
  - **Total Cost ($M):** -

- **Gross/Weapon System Unit Cost ($ in Thousands):**
  - **Unit Cost** ($K): -
  - **Qty (Each):** -
  - **Total Cost ($M):** -

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

**Cost Elements**

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flyaway Cost</td>
<td></td>
<td></td>
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<tr>
<td>GFEBS SA Fielding</td>
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<tr>
<td>Subtotal: Flyaway Cost</td>
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<td>Gross/Weapon System Cost</td>
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**Secondary Distribution**

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<tr>
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<tbody>
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**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92  
**P-1 Line Item Number / Title:** B55500 / General Fund Enterprise Business Systems Fam  
**Item Number / Title [DODIC]:** BE4168 / General Fund Enterprise Business System

#### Resource Summary

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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</thead>
<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>231,327</td>
<td>7,614</td>
<td>2,853</td>
<td>13,540</td>
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<td>13,540</td>
</tr>
<tr>
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<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>231,327</td>
<td>7,614</td>
<td>2,853</td>
<td>13,540</td>
<td>-</td>
<td>13,540</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
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<tr>
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<td>7,614</td>
<td>2,853</td>
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<td>13,540</td>
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</tbody>
</table>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

**Initial Spares ($ in Millions)**  
**Gross/Weapon System Unit Cost ($ in Thousands)**

*Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.*

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tbody>
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<td>Hardware NonRecurring</td>
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**Second Secondary Distribution**

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</table>

*LI B55500 - General Fund Enterprise Business Systems... UNCLASSIFIED Page 4 of 4 P-1 Line #102*
**Description:**

The Department of Defense (DoD) High Performance Computing (HPC) Modernization Program, managed by the Army, supports the needs of all services for technological superiority and military dominance on the battlefield by providing advanced computational services to U.S. weapons system scientists and engineers. By exploiting continuous advances in high performance computing technology, the defense research, development, test and evaluation (RDT&E) community is able to resolve critical scientific and engineering problems quickly and with more precision. The results of these efforts feed directly into the acquisition process by improving weapons system designs through an increased fundamental understanding of materials, aerodynamics, chemistry, fuels, acoustics, signal image recognition, electromagnetics, and other areas of basic and applied research as well as enabling advanced test and evaluation environments that allow synthetic scene generation, automatic control systems and virtual test environments. As such, HPC has been identified as a key enabling technology essential to achieving the objectives of the DoD's science and technology (S&T) and test and evaluation (T&E) programs. The program deploys supercomputers to provide world-class HPC capability to a nation-wide user community.

The HPC Modernization program provides focused modernization efforts crafted to ensure DoD's science and technology and test and evaluation communities are supported with current generation supercomputing capabilities. The HPC modernization program resulted from congressional language that recognized supercomputing as a national strategic asset and directed the DoD to focus on supercomputing modernization at laboratories and test centers to keep its forces and military systems on the leading technological edge.
## Justification:

**FY 2016 Base procurement dollars in the amount of $60.000 million support two large supercomputers for two Army locations, USACE/ERDC DSRC Vicksburg, MS and Army Research Lab (ARL DSRC) Aberdeen, MD.**

**FY 2016 Base procurement dollars in the amount of $2.319M will support DoD HPC Project Investments for Army, Navy, and Air Force initiatives requiring unique specifications or computing classification above SECRET.**

<table>
<thead>
<tr>
<th>Title*</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Prior Years</th>
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</thead>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
**Exhibit P-5, Cost Analysis: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92

**P-1 Line Item Number / Title:** B66501 / High Perf Computing Mod Pgm (HPCMP)

**Item Number / Title [DODIC]:** B66501 / High Perf Computing Mod Pgm (HPCMP)

**UNCLASSIFIED**

**Date:** February 2015

**Resource Summary**

<table>
<thead>
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<th>Resource Summary</th>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<tbody>
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<td>65.252</td>
<td>62.319</td>
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<td>62.319</td>
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<tr>
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</tr>
<tr>
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<td>62.683</td>
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<td>62.319</td>
<td>-</td>
<td>62.319</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<td>65.252</td>
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</tbody>
</table>

**(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)**

**Secondary Distribution**

<table>
<thead>
<tr>
<th>Secondary Distribution</th>
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<tr>
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<td>65.252</td>
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<td>62.319</td>
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</table>

**Note:** Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

**(†) indicates the presence of a P-5a**
### Exhibit P-5a, Procurement History and Planning:

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92

**P-1 Line Item Number / Title:** B66501 / High Perf Computing Mod Pgm (HPCMP)

**Item Number / Title [DODIC]:** B66501 / High Perf Computing Mod Pgm (HPCMP)

**Date:** February 2015

#### Cost Elements

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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
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<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<td>C / BOA</td>
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<td>SS / FFP</td>
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<td>Jan 2015</td>
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<td>TBD</td>
<td>TBD</td>
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<td>Jun 2015</td>
<td>-</td>
<td>2,000.000</td>
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<td>Defense Supercomputing Resource Centers</td>
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</tbody>
</table>

**Remarks:**
The HPCMP has a five year BOA arrangement through USACE-HNC. This arrangement will increase speed to award/acceptance as opposed to methods previously used by the Program. All procurements are COTS/GOTS.
Description:

The Reserve Component Automation System (RCAS) is an automated information system that provides the capability to administer, manage, and mobilize the Army's Reserve Component (RC) forces more effectively. Specifically, RCAS supports the mobilization planning and unit administration functions of the Army National Guard and Army Reserve by integrating commercial off-the-shelf (COTS) hardware and office automation software, Government off-the-shelf (GOTS) software, and developed functional software applications into a common operating environment, personal computer based architecture. Since completion of the infrastructure and functional capabilities, system acquisition has been focused on the effective and efficient sustainment of the fielded system and software applications.

RCAS ensures RC soldiers maintain their warfighting systems and proficiencies on the systems by using the system as a "Docking Station" while they are at home station instead of relying on costly satellite usage time. The program supports the Army and DoD objectives of network convergence to Unified Capabilities and is aligned with the Joint Information Environment initiative by providing the transport infrastructure.

RCAS is the Army's system of choice and record for all RC Commands mobilizing their citizen soldiers for disaster response, homeland security tasking, and overseas deployment. Established in response to a Government Accountability Office report on the Army Reserve Component's inability to provide timely and accurate mobilization data, the system now dramatically improves the Army's and the states' ability to organize, train, and equip their citizen soldiers, mobilize forces in half the historical time required, and provides resource visibility to state and federal agencies of all forces at home and abroad. RCAS has been successfully utilized in response to 9/11, Homeland Security missions, National Training exercises, Disaster Relief, and Operation Iraqi Freedom, New Dawn and Enduring Freedom.

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>34.951</td>
<td>17.631</td>
<td>17.894</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>17.894</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>1,804.767</td>
<td>34.951</td>
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<td>17.894</td>
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(Continued...)

**Exhibit P-40, Budget Line Item Justification:** PB 2016 Army  
**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics / BSA 92: Elect Equip - Automation

**P-1 Line Item Number / Title:** BE4167 / Reserve Component Automation Sys (RCAS)

<table>
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<td>Total:</td>
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**Quantity**

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<tr>
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<td>Total:</td>
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</tbody>
</table>
### Justification:

FY 2016 Base procurement dollars in the amount of $17.894 million will support refreshment of approximately 11 percent of the RCAS hardware infrastructure, placing the information technology infrastructure refresh on a 9 year cycle. The program will support hardware and software refresh to Army National Guard and U.S. Army Reserve commands and units based on priorities established by the respective Components. The program will satisfy agency information technology mandates with respect to information assurance, net worthiness, server consolidation, and a common operating environment.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

<table>
<thead>
<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Gross/Weapon System Cost ($ in Millions)</th>
<th>Less PY Advance Procurement ($ in Millions)</th>
<th>Net Procurement (P1) ($ in Millions)</th>
<th>Plus CY Advance Procurement ($ in Millions)</th>
<th>Total Obligation Authority ($ in Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2014</td>
<td>FY 2015</td>
<td>FY 2016 Base</td>
<td>FY 2016 OCO</td>
<td>FY 2016 Total</td>
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<td>1,804.767</td>
<td>34.951</td>
<td>17.894</td>
<td>-</td>
<td>17.894</td>
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</table>

### Initial Spares ($ in Millions)

<table>
<thead>
<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Gross/Weapon System Cost ($ in Millions)</th>
<th>Less PY Advance Procurement ($ in Millions)</th>
<th>Net Procurement (P1) ($ in Millions)</th>
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<th>Total Obligation Authority ($ in Millions)</th>
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<tr>
<td>FY 2014</td>
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### Gross/Weapon System Unit Cost ($ in Thousands)

<table>
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<th>Procurement Quantity (Units in Each)</th>
<th>Gross/Weapon System Cost ($ in Millions)</th>
<th>Less PY Advance Procurement ($ in Millions)</th>
<th>Net Procurement (P1) ($ in Millions)</th>
<th>Plus CY Advance Procurement ($ in Millions)</th>
<th>Total Obligation Authority ($ in Millions)</th>
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<tr>
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<td>FY 2016 OCO</td>
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### Note:
Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

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**Hardware Cost**

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<tr>
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<th>Plus CY Advance Procurement ($ in Millions)</th>
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**Secondary Distribution**

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<th>Total Obligation Authority ($ in Millions)</th>
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**Total:**

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<th>Less PY Advance Procurement ($ in Millions)</th>
<th>Net Procurement (P1) ($ in Millions)</th>
<th>Plus CY Advance Procurement ($ in Millions)</th>
<th>Total Obligation Authority ($ in Millions)</th>
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<tr>
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Exhibit P-5, Cost Analysis: PB 2016 Army

<table>
<thead>
<tr>
<th>Appropriation / Budget Activity / Budget Sub Activity:</th>
<th>P-1 Line Item Number / Title:</th>
<th>Item Number / Title [DODIC]:</th>
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<tr>
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<td>BE4167 / Reserve Component Automation Sys (RCAS)</td>
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<table>
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</thead>
<tbody>
<tr>
<td>(†) indicates the presence of a P-5a</td>
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### Exhibit P-5a, Procurement History and Planning: PB 2016 Army

**Date:** February 2015

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A / 02 / 92

#### P-1 Line Item Number / Title:
BE4167 / Reserve Component Automation Sys (RCAS)

#### Item Number / Title [DODIC]:
BE4167 / Reserve Component Automation Sys (RCAS)

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<tr>
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<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty</th>
<th>Unit Cost ($) K</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
</tr>
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<tbody>
<tr>
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<td>Apr 2016</td>
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</table>

**Remarks:**
L3 National Security Services is the prime contractor for PD RCAS. All items are COTS/GOTS solutions.
**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)

**P-1 Line Item Number / Title:**
BK5289 / Items Less Than $5.0M (A/V)

**Date:** February 2015

### Resource Summary

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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>204.573</td>
<td>0.324</td>
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</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>0.324</td>
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<td>204.897</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td><strong>Total Obligation Authority ($ in Millions)</strong></td>
<td>204.573</td>
<td>0.324</td>
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<td>-</td>
<td>204.897</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Description:**

MULTIMEDIA/VISUAL INFORMATION SYSTEMS PROGRAM (M/VISP): The M/VISP allows centralization and streamlining delivery of Multimedia/Visual Information (M/VI) products and services to reduce overall operating expenses while expanding M/VI services. This program provides equipment and systems for recording, producing, reproducing, processing, broadcasting, editing, distributing, exhibiting, and storing M/VI products and services to support official requirements (i.e. official photos for promotions, graphic charts, large format prints, audiovisual presentation support, television production, and documentation services essential to recording the history of the Army). Requirements include command and control, training, education, logistics, medical, personnel, special operations, engineering, public affairs, and intelligence to convey accurate information to the Soldier, decision-maker, and supporting organizations. The M/VISP established the Visual Information Ordering Site (VIOS) program as the enterprise solution for common user IT M/VI services. The VIOS program provides the capability for M/VI managers to monitor, assign, and perform quality control on M/VI services and products which support national strategic communications objectives, commander decision making, and training for all regions, missions and functions of the Army, OSD, JCS and HQDA. The VIOS is the authoritative database to manage the installation M/VI program and is used to generate M/VI work orders and collect M/VI IT metrics in support of the Army's IT Metric Program and the Installation Status Report (ISR).

### Secondary Distribution

<table>
<thead>
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### Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)

### P-1 Line Item Number / Title:
BK5289 / Items Less Than $5.0M (A/V)

#### ID Code (A=Service Ready, B=Not Service Ready):

<table>
<thead>
<tr>
<th>ID Code</th>
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<th>ID Code</th>
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<tbody>
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#### Exhibits Schedule:

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<tr>
<th>Title*</th>
<th>Exhibits</th>
<th>ID CD</th>
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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
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<td>Quantity / Total Cost (Each) / ($ M)</td>
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<td>Quantity / Total Cost (Each) / ($ M)</td>
<td>Quantity / Total Cost (Each) / ($ M)</td>
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| *Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding. |

### Justification:

There is no FY 2016 Base procurement funding request.
Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 95

**P-1 Line Item Number / Title:** BK5289 / Items Less Than $5.0M (A/V)

**Item Number / Title [DODIC]:** BK5289 / Items Less Than $5.0M (A/V)

**ID Code** (A=Service Ready, B=Not Service Ready) :

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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>Net Procurement (P1) ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

<table>
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<tr>
<th>Cost Elements</th>
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Secondary Distribution

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<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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(*) indicates the presence of a P-5a
Multimedia/Visual Information Systems

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<th>Cost Elements</th>
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<th>FY</th>
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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty</th>
<th>Unit Cost ($K)</th>
<th>Specs Available Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>World Wide Technology, Inc. / Maryland Heights, MO</td>
<td>2014</td>
<td></td>
<td>World Wide Technology, Inc. / Maryland Heights, MO</td>
<td>C / FFP</td>
<td>ACC-NJ, Fort Dix, NJ</td>
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</table>

Remarks:
IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. ACC-NJ - Army Contracting Command-New Jersey
**Description:**

This budget line supports the procurement and upgrade of the Automated Integrated Survey Instrument (AISI). Digital Levels and Global Positioning System - Survey (GPS-S). This equipment supports the survey mission of both the Topographic and Construction Engineer. Capabilities provided by this equipment enable engineers to establish the geodetic control necessary to support Artillery (e.g., placement of weapons platforms), Aviation (e.g., aircraft registration, safety surveys) and Topographic support. GPS-S integrates Selective Availability, Anti-Spoofing Module (SAASM) and Precise Positioning System GPS software upgrades into a Commercial Off the Shelf (COTS) GPS for military survey applications. Additionally, this equipment supports Construction Engineering surveys (e.g., roads, buildings, logistics sites, staging areas, airfield construction). Software functionality, included as part of this procurement, allows the user to accomplish the design work necessary for site design and construction (e.g., materiel calculations, labor, resources).

GPS-S Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.
### Exhibit P-40, Budget Line Item Justification

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items</th>
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<tr>
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**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)

**P-1 Line Item Number / Title:**
- BL5300 / Items Less Than $5M (Surveying Equipment)

**Date:** February 2015

**Appropriation / Budget Activity / Budget Sub Activity:**

- 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)

**P-1 Line Item Number / Title:**
- BL5300 / Items Less Than $5M (Surveying Equipment)

**Date:** February 2015
### Exhibit P-40, Budget Line Item Justification: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V)

**P-1 Line Item Number / Title:**
BL5300 / Items Less Than $5M (Surveying Equipment)

**Justification:**
FY 2016 Base procurement dollars in the amount of $4.242 million supports the procurement of up to 33 Global Positioning System - Survey (GPS-S) for Active Duty, National Guard and Army Reserve units to meet Army Force Generation (ARFORGEN) requirements.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
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<td>P-5, P-5a</td>
<td>Title*</td>
<td>Exhibits</td>
</tr>
<tr>
<td>- / 52,007</td>
<td>- / 1.615</td>
<td>- / 5.437</td>
</tr>
</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
### Exhibit P-5, Cost Analysis: PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 95

**P-1 Line Item Number / Title:** BL5300 / Items Less Than $5M (Surveying Equipment)

**Item Number / Title [DODIC]:** BL5300 / Items Less Than $5M (Surveying Equipment)

**ID Code** (A=Service Ready, B=Not Service Ready):

<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>52.007</td>
<td>1.615</td>
<td>5.437</td>
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<td>4.242</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>52.007</td>
<td>1.615</td>
<td>5.437</td>
<td>4.242</td>
<td>-</td>
<td>4.242</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>52.007</td>
<td>1.615</td>
<td>5.437</td>
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(Warning: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.)

**Cost Elements**

<table>
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<th>Cost Elements</th>
<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
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<td>Flyaway Cost</td>
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<tr>
<td>Reimbursement</td>
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**Secondary Distribution**

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<tr>
<td>Quantity</td>
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<tr>
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<tr>
<td>Total Obligation Authority</td>
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<td>5.437</td>
<td>4.242</td>
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(†) indicates the presence of a P-5a
**Exhibit P-5a, Procurement History and Planning:** PB 2016 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 95

**P-1 Line Item Number / Title:** BL5300 / Items Less Than $5M (Surveying Equipment)

**Item Number / Title [DODIC]:** BL5300 / Items Less Than $5M (Surveying Equipment)

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>OCO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>GPS-S Systems</td>
<td>2014</td>
<td>TAG Inc / Sterling, VA</td>
<td>C / FFP</td>
<td>AGC, Alexandria VA</td>
<td>Jun 2014</td>
<td>Jun 2015</td>
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<tr>
<td>GPS-S Systems</td>
<td>2015</td>
<td>TAG Inc / Sterling, VA</td>
<td>C / FFP</td>
<td>AGC, Alexandria VA</td>
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<td>GPS-S Systems</td>
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<td>TAG Inc / Sterling, VA</td>
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<td>AGC, Alexandria VA</td>
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<td>76.000</td>
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</table>

**Remarks:**
GPS-S Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

GPS-S is Selected Availability Anti-Spoofing Module enabled to support military operations.
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 98: Elect Equip - Support

P-1 Line Item Number / Title: BF5400 / Production Base Support (C-E)

ID Code (A=Service Ready, B=Not Service Ready) :

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>113.777</td>
<td>0.554</td>
<td>0.426</td>
<td>0.425</td>
<td>-</td>
<td>0.425</td>
<td>0.432</td>
<td>0.500</td>
<td>0.512</td>
<td>0.522</td>
<td>-</td>
<td>117.148</td>
</tr>
<tr>
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<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>0.554</td>
<td>0.426</td>
<td>0.425</td>
<td>-</td>
<td>0.425</td>
<td>0.432</td>
<td>0.500</td>
<td>0.512</td>
<td>0.522</td>
<td>-</td>
<td>117.148</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
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<td>0.554</td>
<td>0.426</td>
<td>0.425</td>
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<td>0.425</td>
<td>0.432</td>
<td>0.500</td>
<td>0.512</td>
<td>0.522</td>
<td>-</td>
<td>117.148</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

Description:
This program provides funding to the Army Test and Evaluation Command (ATEC) to establish, modernize, expand or replace test facilities used in production testing of Communications and Electronic equipment. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at the Electronic Proving Ground (EPG), Fort Huachuca, AZ.
#### Justification:

FY 2016 Base procurement dollars in the amount of $0.425 million supports the ongoing modernization of EPG's Global Positioning System (GPS) testing lab to the new military signal standards. It will purchase two differential GPS receivers for ground truth, upgrade GPS transmitter system and upgrade GPS data collection software to collect and analyze new coded data blocks. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded its economic life. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Exhibit P-40a, Budget Item Justification For Aggregated Items

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A / 02 / 98

**P-1 Line Item Number / Title:**
BF5400 / Production Base Support (C-E)

**Aggregated Items Title:**
Various

**Date:** February 2015

**Note:** Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.

<table>
<thead>
<tr>
<th>Item Number / Title [DODIC]</th>
<th>ID CD</th>
<th>Prior Years</th>
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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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<tr>
<td></td>
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<td>Unit Cost ($ K)</td>
<td>Qty (Each)</td>
<td>Unit Cost ($ M)</td>
<td>Qty (Each)</td>
<td>Unit Cost ($ K)</td>
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<td><strong>PROVISION OF INDUSTRIAL FACILITIES</strong></td>
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<td>BA5000 / PROVISION OF INDUSTRIAL FACILITIES</td>
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LI BF5400 - Production Base Support (C-E)
Exhibit P-40, Budget Line Item Justification: PB 2016 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics

Date: February 2015

UNCLASSIFIED

Program Elements for Code B Items:

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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<td>Net Procurement (P1) ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
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<td>7.438</td>
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<td>7.587</td>
<td>7.664</td>
<td>7.741</td>
<td>37.940</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - |

Description:

Brigade Combat Team (BCT) Emerging Technologies provides funding for the procurement of Network Integration Evaluation (NIE) evaluated and Army approved commodities (hardware and software) and installation of these network enhancements onto Brigade Combat Team (BCT) vehicle platforms. These funds provide for the procurement and installation of hardware/software products/components, which are not a part of a current Program of Record (POR) and have been evaluated and approved through the Army's Agile NIE process for inclusion into the Army's Capability Sets (CS) Synchronized Fielding plan. Hardware/software products/components include the tested and approved system, vehicle mounting hardware (A-Kits), and ancillary equipment such as power amplifiers/splitters, GPS units, loudspeakers, routers, and battery isolators, filters, cables, connectors, AC inverters, utility outlets, environmental control units (ECU), fans, thermal & power switches, diplexers, and antennas.

This program is a new start in FY 2016.

Secondary Distribution

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<tr>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>Army</td>
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**Exhibit P-40, Budget Line Item Justification: PB 2016 Army**

**P-1 Line Item Number / Title:**
B88801 / BCT Emerging Technologies

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support

**Date:** February 2015

### Exhibits Schedule

<table>
<thead>
<tr>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
</tr>
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</table>

#### ID Code (A=Service Ready, B=Not Service Ready):

<table>
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<tr>
<th>ID Code</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
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<tbody>
<tr>
<td></td>
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<tr>
<td></td>
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<td>Quantity / Total Cost (Each)</td>
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<td>($ M)</td>
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</tbody>
</table>

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

### Justification:

FY 2016 Base procurement dollars in the amount of $7.438 million procures Network hardware/software products/components and associated vehicle mounting equipment (A-Kits) to meet Army emerging requirements for the Synchronized Integrated Fielding process in support of CS 16 and 17 fieldings depending on the length of the final Non-Reoccurring Engineering (NRE) and production timeline. These Network Improvements are designed to close Army gaps in support of the Army's Force 2025 Network Goals.

These hardware/software products will be acquired either through existing Army contracts and/or production options that are established as part of the NIE DP3 approval process. A-Kits and installation services will be acquired through established contracts with the vehicle manufacturers or integrators.

The exact procurement requirements are defined upon completion of each NIE, when all hardware/software products have gone through the evaluation and approval process. CS 16 and 17 request is based upon the results of planning for and executing CS 13 and 14; ASA(ALT) fielded four (4) IBCTs in CS 13 and will field six (6) IBCTs, two (2) SBCTs and one (1) Division HQ in CS 14.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity</td>
<td>-</td>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>-</td>
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<td>-</td>
<td>7.438</td>
<td>-</td>
<td>7.438</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>7.438</td>
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<td>7.438</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>7.438</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - |

Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

### Cost Elements

<table>
<thead>
<tr>
<th>Unit Cost (K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost (K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost (K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost (K)</th>
<th>Qty (Each)</th>
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<tbody>
<tr>
<td>Flyaway Cost</td>
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<td>CS 16 &amp;17 Request</td>
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<tr>
<td>Subtotal: Recurring Cost</td>
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<td>7,438</td>
</tr>
<tr>
<td>Subtotal: Flyaway Cost</td>
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<td>-</td>
<td>-</td>
<td>7,438</td>
<td>-</td>
<td>-</td>
<td>7,438</td>
</tr>
<tr>
<td>Gross/Weapon System Cost</td>
<td></td>
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<td>-</td>
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### Secondary Distribution

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<th>FY 2015</th>
<th>FY 2016 Base</th>
<th>FY 2016 OCO</th>
<th>FY 2016 Total</th>
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Army

Quantity

Total Obligation Authority

Total Secondary Distribution

Quantity

Total Obligation Authority

7.438
## Exhibit P-40, Budget Line Item Justification: PB 2016 Army

### Appropriation / Budget Activity / Budget Sub Activity:
- 2035A: Other Procurement, Army / BA 02: Communications and Electronics

### P-1 Line Item Number / Title:
- BD3910 / Classified

### Equipment / BSA 36: Comm - Intelligence Comm

#### ID Code (A=Service Ready, B=Not Service Ready):

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
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<td>-</td>
<td>0.001</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

### Description:

INFORMATION IDENTIFIED IN VOL II OF THE JOINT MILITARY INTELLIGENCE PROGRAM CONGRESSIONAL JUSTIFICATION BOOK.