

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL</i>
---	---

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	177.122	278.018	272.384	-	272.384	325.584	97.886	71.000	21.699	Continuing	Continuing
367: <i>Win-T Increment 2 -Initial Networking</i>	-	9.821	2.786	1.100	-	1.100	0.000	21.508	0.000	0.000	Continuing	Continuing
372: <i>WIN-T Increment 3 - Full Networking</i>	-	167.301	275.232	271.284	-	271.284	325.584	76.378	71.000	21.699	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Note

FY 2014

Inc 2 PB 2013 \$5.999

Inc 2 PB 2014 \$1.100

Funding for Inc 2 in FY 2014 was reduced because of changes in the test schedule.

Inc 3 PB 2013 \$76.252

Inc 3 PB 2014 \$271.284

Delta \$195.032

Funding for Inc 3 in FY 2014 increased to support the updated schedule of the Development Test (DT), New Equipment Training (NET) and Limited User Test (LUT). Inc 3 will provide production representative hardware for the DT/NET/LUT for the Inc 3 configuration items to include JC4ISR radio, antenna and WIN-T Communications Payload (WCP) for the air tier.

A. Mission Description and Budget Item Justification

The Defense Acquisition Executive (DAE), through the Nunn-McCurdy certification process, certified a restructured WIN-T program on June 5, 2007. The certification Acquisition Decision Memorandum (ADM) stated that the Army will restructure the WIN-T Major Defense Acquisition Program (MDAP) to absorb the former Joint Network Node (JNN) Network program. It further stated that the restructured program will consist of four Increments: Inc 1, Inc 2, Inc 3, and Inc 4.

WIN-T is key to the Army's Network Modernization program. The WIN-T program's focus is to design, develop, produce and field the Future Modular Force transport network, while leveraging mature technologies that can enhance the Current Modular Force to operate in an emerging noncontiguous environment.

Inc 2 (PE 643782/367) FY 2014 funds will support the Follow-on Production Award.

Inc 3 (PE 643782/372) FY 2014 funds will continue the Engineering Manufacturing Development (EMD) phase.

PE 0603782A: *WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL*
Army

UNCLASSIFIED

Page 1 of 17

R-1 Line #64

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army	DATE: April 2013
---	-------------------------

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL</i>
---	---

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	185.819	278.018	82.251	-	82.251
Current President's Budget	177.122	278.018	272.384	-	272.384
Total Adjustments	-8.697	0.000	190.133	-	190.133
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments 1	-8.697	-	-4.899	-	-4.899
• Other Adjustments 2	-	-	195.032	-	195.032

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603782A: WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL				PROJECT 367: Win-T Increment 2 -Initial Networking			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
367: Win-T Increment 2 -Initial Networking	-	9.821	2.786	1.100	-	1.100	0.000	21.508	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
Warfighter Information Network Tactical (WIN-T) Increment 2 provides the Army with initial On-The-Move (OTM) networking capability. The Increment 2 network retains capabilities delivered by WIN-T Increment 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 Increment 2 extends the network in maneuver Brigade Combat Teams (BCTs) to Company level for the first time. Using equipment mounted on combat platforms, WIN-T Increment 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 Increment 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 Increment 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 Increment 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 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 Increment 1b network which enables information sharing between Increment 1b and Increment 2.												
The WIN-T Increment 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 provides satellite communication only. The Point of Presence and the Tactical Communications Node are deployed at Division, Brigade and Battalion echelons. The Soldier Network Extension serves as the S3 vehicle at Battalion level and is also deployed down to Company level.												
WIN-T Increment 3 mature technologies will be inserted into Increment 2 units.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Test and Evaluation									9.083	2.583	1.033	

PE 0603782A: *WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL*
Army

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER</i> <i>INFORMATION NETWORK-TACTICAL - DEM/VAL</i>	PROJECT 367: <i>Win-T Increment 2 -Initial Networking</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Articles: Description: Testing and Evaluation FY 2012 Accomplishments: WIN-T Increment 2 provided government test support for New Equipment Training, Cold Region Test, Force Development Test and Experimentation (FDT&E), Initial Operational Test (IOT) as well as the support required for the Full Rate Production Decision Review. FY 2013 Plans: WIN-T Increment 2 will support First Unit Equipped and Follow-On Test and Evaluation (FOT&E), Initial Operational Capability (IOC) and Full Rate Production Decision Review. FY 2014 Plans: WIN-T Increment 2 will support follow-on production award.		0	0	
Title: Product Development Description: Increment 2 continues the development of Inc 2 system hardware and software development. FY 2014 Plans: Support for the Follow-on Production Award.		0.000	0.000	0.067
Title: Management Services Description: System Engineering and Program Management Support FY 2012 Accomplishments: Program Management support. FY 2013 Plans: Program Management support.		0.738 0	0.203 0	0.000
Accomplishments/Planned Programs Subtotals		9.821	2.786	1.100

PE 0603782A: *WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL*
 Army

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>					R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER</i> <i>INFORMATION NETWORK-TACTICAL -</i> <i>DEM/VAL</i>			PROJECT 367: <i>Win-T Increment 2 -Initial Networking</i>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2014</u>	<u>FY 2014</u>	<u>FY 2014</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Complete</u>	<u>Total Cost</u>
• WIN-T Inc 2: <i>Procurement</i>	761.105	731.068	680.438		680.438	598.230	548.960	154.606	200.959	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
The Defense Acquisition Executive (DAE), through the Nunn-McCurdy certification process, certified a restructured WIN-T program on June 5, 2007. The certification Acquisition Decision Memorandum (ADM) stated that the Army will restructure the WIN-T Major Defense Acquisition Program (MDAP) to absorb the former Joint Network Node (JNN) Network program. It further stated that the restructured program will consist of four Increments: Incs 1, 2, 3, and 4. Inc 2 fields new capabilities to the current force. Inc 2 accomplishes this with planned early fieldings of mature technologies from Inc 3. Inc 2 will be upgraded with technology from Inc 3 in the form of technology inserts. A Follow-on Test and Evaluation (FOTE) will be conducted in FY2013 followed by a Full Rate Production (FRP) decision review. There is no plan to rebuy and replace Inc 2 with Inc 3. These technical inserts will upgrade the Inc 2 architecture to include the following elements: Joint Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (JC4ISR) radio, Highband Radio Frequency Unit Multiband Terrestrial antenna (HRFU-MT) (Dual band C/Ku), and Network Operations (NetOps) Build 3.0. The JC4ISR radio and antenna upgrades will be placed in the Tactical Communication Node (TCN) v1, Point of Presence (PoP) v1, and Tactical Relay Tower(TR-T) v1 and will upgrade those configuration items to TCN v1A, PoP v1A, and TR-T v1A. The Inc 3 production program will also provide retrofits to Inc 2 fielded units. Inc 3 will tech-insert the Modular Communications Node Advanced Enclave (MCN-AE) to all the Inc 2 units. Inc 3 will also provide the JC4ISR radio and antenna retrofits for the Inc 2 units procured before FY2016 and for TR-T inserts to ensure interoperability. Increment 3 introduces the air tier through the use of Unmanned Aerial Systems (UAS) and a Top Secret Sensitive Compartmented Information (SCI) Local Area Network (LAN) with a port for National Security Agency intranet (NSAnet).											
E. Performance Metrics											
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)						R-1 ITEM NOMENCLATURE PE 0603782A: WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL				PROJECT 367: Win-T Increment 2 -Initial Networking					
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	Various	Various:Various	25.878	0.738		0.203		-		-		-	Continuing	Continuing	Continuing
Subtotal			25.878	0.738		0.203		0.000		0.000		0.000			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Platform Integration	Various	Various:Various	19.641	-		-		-		-		-	Continuing	Continuing	Continuing
WIN-T EMD Contract	Various	General Dynamics C4 Systems Inc:Taunton, MA	138.598	-		-		0.067		-		0.067	Continuing	Continuing	Continuing
Subtotal			158.239	0.000		0.000		0.067		0.000		0.067			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Engineering Services adn Research Studies	Various	General Dynamics C4 Systems Inc:Taunton, MA	7.086	-		-		-		-		-	Continuing	Continuing	0.000
Subtotal			7.086	0.000		0.000		0.000		0.000		0.000			0.000
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Modeling & Simulation	Various	Various:Various	51.709	9.083		2.583		1.033		-		1.033	Continuing	Continuing	Continuing
Subtotal			51.709	9.083		2.583		1.033		0.000		1.033			

PE 0603782A: WARFIGHTER INFORMATION NETWORK-TACTICAL -
DEM/VAL
Army

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>					R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER</i> <i>INFORMATION NETWORK-TACTICAL -</i> <i>DEM/VAL</i>					PROJECT 367: <i>Win-T Increment 2 -Initial Networking</i>	
		All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		242.912	9.821	2.786	1.100	0.000	1.100				
Remarks											

PE 0603782A: *WARFIGHTER INFORMATION NETWORK-TACTICAL -*
DEM/VAL
 Army

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER</i> <i>INFORMATION NETWORK-TACTICAL - DEM/VAL</i>		PROJECT 367: <i>Win-T Increment 2 -Initial Networking</i>	

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Increment 2 NET																												
Cold Region Test																												
Force Development Test and Experimentation																												
Initial Operational Test																												
Delivery Order Award																												
First Unit Equipped																												
Follow-On Test and Evaluation																												
Initial Operating Capability																												
FRP Decision Review																												
Full Rate Production																												
Delivery Order 2 Award																												
Follow-on Production Contract Award																												
Delivery Order 3 Award																												
Delivery Order 4 Award																												
Army Decision Review																												
Production Qualification Test - Contractor																												
Follow-on Operational Test																												
Army Integrated Program Review																												
Full Operational Capability																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER</i> <i>INFORMATION NETWORK-TACTICAL -</i> <i>DEM/VAL</i>	PROJECT 367: <i>Win-T Increment 2 -Initial Networking</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Increment 2 NET	2	2012	2	2012
Cold Region Test	2	2012	2	2012
Force Development Test and Experimentation	3	2012	3	2012
Initial Operational Test	3	2012	3	2012
Delivery Order Award	4	2012	4	2012
First Unit Equipped	1	2013	1	2013
Follow-On Test and Evaluation	3	2013	3	2013
Initial Operating Capability	4	2013	4	2013
FRP Decision Review	4	2013	4	2013
Full Rate Production	4	2013	4	2018
Delivery Order 2 Award	4	2013	4	2013
Follow-on Production Contract Award	2	2014	2	2014
Delivery Order 3 Award	1	2015	1	2015
Delivery Order 4 Award	3	2016	3	2016
Army Decision Review	3	2016	3	2016
Production Qualification Test - Contractor	3	2017	3	2017
Follow-on Operational Test	1	2018	1	2018
Army Integrated Program Review	3	2018	3	2018
Full Operational Capability	4	2018	4	2018

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603782A: WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL				PROJECT 372: WIN-T Increment 3 - Full Networking			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
372: WIN-T Increment 3 - Full Networking	-	167.301	275.232	271.284	-	271.284	325.584	76.378	71.000	21.699	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
Warfighter Information Network Tactical (WIN-T) Increment 3 (Inc 3) provides full network mobility and introduces an additional Line-of-Sight link using an airborne platform, building on the capabilities of previous WIN-T Increments. WIN-T Inc 3 connects all users to each other from theater down to the maneuver company level, to Joint and multinational elements, and to the Defense Information System Network (DISN). WIN-T Inc 3 is key to the Army's Network Modernization program. It provides a leap forward in network capacity with improved system reliability and robustness, made possible by the new Highband Networking Waveform (HNW) version 3.0 embedded on the Joint Command, Control, Communications, Computers, Intelligence, Surveillance (JC4ISR) radios. The technology advances in the combination of the JC4ISR radios and HNW will provide a throughput capability four times greater than currently fielded networking radios. The Air Tier implementation of the JC4ISR radios and HNW 3.0 will offload significant amounts of traffic from satellites with reduced operating cost to the Army, freeing satellite bandwidth and providing the Commander the ability to allocate bandwidth resources at the critical point on the battlefield. WIN-T Inc 3 Network Operations (NetOps) software provides the on the move capability to meet the Global Information Grid (GIG) NetCentric Vision including Information Assurance and Network Centric Enterprise Services with mature planning, monitoring, and controlling capabilities; additionally implementation of the WIN-T Inc 3 NetOps solution supports the Army's NetOps convergence goals. WIN-T Inc 3 mature technologies will be inserted into WIN-T Inc 2 units.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Title: Product Development										149.531	245.171	234.494
Articles:										0	0	
Description: Increment 3 Engineering Manufacturing Development (EMD) continues development of Inc 3 system, hardware and software development, prototype manufacturing of test assets for the Inc 3 system.												
FY 2012 Accomplishments: Increment 3 continued the detailed design, prototype development and conducted Engineering Manufacturing and Development (EMD) testing of Air Tier using WIN-T Communications Payload.												
FY 2013 Plans:												

PE 0603782A: *WARFIGHTER INFORMATION NETWORK-TACTICAL -*
DEM/VAL
 Army

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603782A: WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL	PROJECT 372: WIN-T Increment 3 - Full Networking		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Increment 3 completes detailed design of network architecture, waveform, radio, Aerial Tier Payload and continues software coding of waveform and Network Operations. Conducts Critical Design Review (CDR) and continues integration of aerial tier payload with Grey Eagle Unmanned Aerial System and purchases long lead items for Limited User Test (LUT) prototypes. FY 2014 Plans: Increment 3 begins integration of LUT prototypes. Completes software code for Network Operations, completes software integration and testing of waveform, completes integration and testing of aerial tier payload on Grey Eagle Unmanned Aerial System which provides Air Worthiness Certification. Inc 3 begins platform integration and development of training materials and technical manuals.				
Title: Support Cost Description: Technical Engineering Services and Research Studies FY 2012 Accomplishments: Technical Engineering Services and Research Studies FY 2013 Plans: Technical Engineering Services and Research Studies FY 2014 Plans: Technical Engineering Services, Research Studies and NIE testing support.		Articles: 4.714 0	4.799 0	5.878
Title: Test and Evaluation Description: Testing and Evaluation FY 2012 Accomplishments: Increment 3 completed Aerial Tier payload testing on surrogate aircraft. FY 2013 Plans: Increment 3 continues analysis of multi node network. Conducts component level development tests and continues testing of Network Operations Build and Modular Communications Node Advanced Enclave (MCN-AE) for insertion of mature technology. FY 2014 Plans:		Articles: 0.718 0	11.119 0	11.079

PE 0603782A: *WARFIGHTER INFORMATION NETWORK-TACTICAL -*
DEM/VAL
Army

UNCLASSIFIED

Page 11 of 17

R-1 Line #64

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER</i> <i>INFORMATION NETWORK-TACTICAL -</i> <i>DEM/VAL</i>	PROJECT 372: <i>WIN-T Increment 3 - Full Networking</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Increment 3 continues planning for LUT. Design and develop test plans in support of LUT. The Government will conduct Air Worthiness Testing of Aerial Tier payload on Grey Eagle Unmanned Aerial System. Continue annual testing of the Network Operations Builds. Conduct HNW 3.0 parameter analysis using simulator and develops multi-node emulator to support future scalability simulation work.			
Title: Management Services Description: Provides System Engineering and Program Management Support. FY 2012 Accomplishments: Continued System Engineering and Program Management Support. FY 2013 Plans: Continues System Engineering and Program Management Support. FY 2014 Plans: Continues Program Management Support.	Articles: 12.338 0	14.143 0	19.833
Accomplishments/Planned Programs Subtotals	167.301	275.232	271.284

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• Inc 3: <i>Procurement</i>						236.510	412.946	740.768	1,851.317	Continuing	Continuing
Remarks											

D. Acquisition Strategy

The Defense Acquisition Executive (DAE), through the Nunn-McCurdy certification process, certified a restructured WIN-T program on June 5, 2007. The certification Acquisition Decision Memorandum (ADM) stated that the Army will restructure the WIN-T Major Defense Acquisition Program (MDAP) to absorb the former Joint Network Node (JNN) Network program. It further stated that the restructured program will consist of four Increments: Incs 1, 2, 3, and 4.

An evolutionary acquisition strategy is being utilized to provide for the timely insertion of new technologies into Army communication systems by adhering to the basic principles of the DoD Modular Open Systems Approach (MOSA). This allows the Army to keep pace with changing commercial technology and maintain required interoperability with other joint, strategic and commercial standards-based networks. Building on previous increments, Inc 3 provides better connectivity and greater network access via JC4ISR radio and antenna, Network Centric Waveform (NCW), Highband Networking Waveform (HNW) version 3.0, and integrated Network

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER</i> <i>INFORMATION NETWORK-TACTICAL -</i> <i>DEM/VAL</i>	PROJECT 372: <i>WIN-T Increment 3 - Full Networking</i>
Operations. It manages, prioritizes, and protects information through NetOps while reducing organizational and operational support. It ensures communications interoperability with Joint, Allied, Coalition, Current Force, and Commercial voice and data networks. Inc 3 shall be interoperable with the other WIN-T increments while maintaining interoperability with the Army currently fielded transport systems. The technologies in Inc 3 have matured to a level that provide significant capability enhancement over the current network. Inc 3 technology is being tested and released over time and, once proven; Inc 3 technology will be available for insertion into WIN-T Increment 1 and Increment 2. The ADM of May 18, 2009 approved an initial Acquisition Program Baseline (APB) for Inc 3. A follow-on Increment 3 ADM on July 31, 2009 permitted the obligation of remaining FY2009 Research, Development, Test and Evaluation (RDT&E) funds to resource EMD efforts including development of the Joint Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance radio (JC4ISR) to support the air-tier capability. A revised ADM was approved on October 22, 2010. Inc 3 received approval for program restructure at the October 31, 2011 Army Configuration Steering Board (CSB). Efforts in accordance with the restructured program are performed under the current Engineering Manufacturing Development (EMD) contract. A Follow-on EMD contract is anticipated to be awarded in 3QFY13 followed by a Critical Design Review (CDR) in 4QFY13. A Production Readiness Review (PRR) is scheduled for 2QFY16 leading to a Milestone C decision in 3QFY16. <u>E. Performance Metrics</u> Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)						R-1 ITEM NOMENCLATURE PE 0603782A: WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL						PROJECT 372: WIN-T Increment 3 - Full Networking			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	Various	Various:Various	73.532	12.338		14.143		19.833		-		19.833	Continuing	Continuing	Continuing
Subtotal			73.532	12.338		14.143		19.833		0.000		19.833			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Increment 3 Engineering Manufacturing and Development	Various	General Dynamics C4 Systems Inc:Taunton, MA	659.050	138.189		212.782		234.494		-		234.494	Continuing	Continuing	Continuing
Inc 3 Data Rights	Various	Harris GCSD:Melbourne, FL	0.000	4.417		-		-		-		-	0.000	4.417	0.000
Platform Integration	Various	Various:Various	5.800	6.925		32.389		-		-		-	Continuing	Continuing	Continuing
Subtotal			664.850	149.531		245.171		234.494		0.000		234.494			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Engineering Services and Research Studies	Various	General Dynamics C4 Systems Inc:Taunton, MA	18.249	4.714		4.799		5.878		-		5.878	Continuing	Continuing	Continuing
Subtotal			18.249	4.714		4.799		5.878		0.000		5.878			

PE 0603782A: WARFIGHTER INFORMATION NETWORK-TACTICAL -
DEM/VAL
Army

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>						R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER</i> <i>INFORMATION NETWORK-TACTICAL - DEM/VAL</i>				PROJECT 372: <i>WIN-T Increment 3 - Full Networking</i>				

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Testing and Modeling & Simulation	Various	Various:Various	3.108	0.718		11.119		11.079		-		11.079	Continuing	Continuing	Continuing
Subtotal			3.108	0.718		11.119		11.079		0.000		11.079			

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	759.739	167.301	275.232	271.284	0.000	271.284			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER</i> <i>INFORMATION NETWORK-TACTICAL - DEM/VAL</i>	PROJECT 372: <i>WIN-T Increment 3 - Full Networking</i>

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Follow-on EMD Contract Award																												
Critical Design Review																												
Development Test/New Equipment Training/ Limited User Test																												
Production Readiness Review																												
Milestone C																												
Contract Award																												
Delivery Order 1																												
Delivery Order 2																												
Production Qualification Test - Contractor																												
Production Qualification Test - Government																												
Logistics Demonstration																												
New Equipment Training																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603782A: <i>WARFIGHTER</i> <i>INFORMATION NETWORK-TACTICAL - DEM/VAL</i>	PROJECT 372: <i>WIN-T Increment 3 - Full Networking</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Follow-on EMD Contract Award	3	2013	3	2013
Critical Design Review	4	2013	4	2013
Development Test/New Equipment Training/Limited User Test	3	2015	1	2016
Production Readiness Review	1	2016	2	2016
Milestone C	3	2016	3	2016
Contract Award	3	2016	3	2016
Delivery Order 1	1	2017	1	2017
Delivery Order 2	1	2018	1	2018
Production Qualification Test - Contractor	1	2018	3	2018
Production Qualification Test - Government	3	2018	3	2018
Logistics Demonstration	4	2018	4	2018
New Equipment Training	4	2018	4	2018