

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2008

BUDGET ACTIVITY		PE NUMBER AND TITLE							
4 - Advanced Component Development and Prototypes		0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL							
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	119288	320068	414357	373347	347534	294013	68279	Continuing	Continuing
355 WIN-TACTICAL - DEM/VAL	119288	320068							439356
367 WIN-T INCREMENT 2 -INITIAL NETWORKING-ON-THE-MOVE			83919	19362	10773				114054
372 WIN-T INCREMENT 3 - FULL NETWORKING ON THE MOVE			330438	353985	336761	294013	68279	Continuing	Continuing

A. Mission Description and Budget Item Justification: The WIN-T program 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. 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:

Increment 1: Networking at-the-Halt

Increment 1a: Extended Networking at-the-Halt; The former JNN program with Ka military satellite communications capability

Increment 1b: Enhanced Networking at-the-Halt; The former JNN Program with Net Centric Waveform and Colorless Core Capability

Increment 2: Initial Networking on-the-Move

Research, Development, Test & Engineering (RDT&E) for Soldier Network Extensions (SNEs) and High-capacity Network Radios (HNRs), Tactical Communications Nodes (TCNs), Points of Presence (PoPs) and other associated Configuration Items (CI); Procurement of limited numbers of SNEs, HNRs, TCNs, PoPs and other associated CIs

Increment 3: Full Networking on-the-Move; Full mobility to include Future Combat Systems (FCS) support

Increment 4: Protected Satellite Communications (SATCOM) on-the-Move Enhanced capability for protected SATCOM through tech insertions from High Capacity Communication Capability (HC3)

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2008

BUDGET ACTIVITY

4 - Advanced Component Development and Prototypes

PE NUMBER AND TITLE

0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL

B. Program Change Summary

	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2008/2009)	121798	222296	278893
Current BES/President's Budget (FY 2009)	119288	320068	414357
Total Adjustments	-2510	97772	135464
Congressional Program Reductions		-2228	
Congressional Rescissions			
Congressional Increases		100000	
Reprogrammings	894		
SBIR/STTR Transfer	-3404		
Adjustments to Budget Years			135464

Change Summary Explanation: Funding - FY2009 budget increase of \$135.464 million is to continue development of WIN-T Increment 2 and Increment 3. Increment 2 funds in FY 2009 support continued System Development and Demonstration, Development Test, New Equipment Test, Limited User Test, Milestone C preparation/documentation, Request for Proposal process and Low Rate Initial Production Contract Award. Increment 3 funds in FY2009 continue System Development and Demonstration effort to include conduct of Critical Design Review, hardware/software development engineering builds and manufacture of prototypes.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes	PE NUMBER AND TITLE 0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL						PROJECT 355		
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
355 WIN-TACTICAL - DEM/VAL	119288	320068							439356

A. Mission Description and Budget Item Justification: The WIN-T program 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. WIN-T will be developed and fielded in Increments that will successively build upon one another.

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. This Program Element (PE) addresses two of the Increments:

Increment 2 capability supports limited collaboration, mission planning and on-the-move. It enables distribution of information via voice, data, and real-time video from ground-to-ground and ground-to-satellite communications.

Increment 3 will provide the Commander/user within the tactical area of responsibility a mobile infrastructure that passes relevant information effectively and efficiently for combined arms capabilities in all required terrain and environmental conditions. Increment 3 implements the Global Information Grid (GIG) NetCentric vision to include Information Assurance and Network Centric Enterprise Services, provides dynamic bandwidth, enables On-the-Move (OTM) capability and is a key enabler for Future Combat Systems (FCS).

All future funding for Increments 2 and 3 RDT&E efforts have been transferred to PE # 0603782A, Project 367 for Increment 2 and PE # 0603782A, Project 372 for Increment 3.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Prepare technical assessment and research studies.	865	884	
Prepare/coordinate contractual and milestone documentation, perform program support and management efforts, and conduct Preliminary Design Review (PDR) and Critical Design Review (CDR) and test support for Engineering Development Test and Limited User Test.	5570	7753	
Continues System Development and Demonstration (SDD). The Prime Contractor and major subcontractors provide final architecture, Modeling and Simulation (M&S), preliminary design and critical design, and prototypes to support tests and milestone efforts.	98355	268675	
Conducted Inc 2 Field Test. Provide Test Support to include M&S and preparation for Inc 2 DT/LUT and Inc 3 DT.	4046	13636	
Provide STT+ as Government Furnished Equipment to Prime Contractor for Inc 2 LUT.		2849	
Provide system engineering, technical support and platform integration support for Inc 2 and Inc 3 programs.	10452	17404	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes	PE NUMBER AND TITLE 0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL	PROJECT 355
Small Business Innovative Research/Small Business Technology Transfer Programs		8867
Total	119288	320068

B. Other Program Funding Summary Not applicable for this item.

C. Acquisition Strategy The Milestone Decision Authority (MDA) approved entrance as a Milestone (MS) B Program and the initial WIN-T Acquisition Strategy on July 28, 2003. Since MS B, the structure of the Army changed requiring the WIN-T architecture to change as well. Consequently, the FY07 President's Budget resulted in near term Procurement funding being removed from FY06 thru FY09 and Research Development Test & Evaluation (RDT&E) funding was increased to levels that exceeded the Acquisition Program Baseline (APB) threshold. Concurrently, the Army Training and Doctrine Command (TRADOC) received direction to initiate a Capability Development Document (CDD) versus a Capability Production Document (CPD). These factors combined led PM WIN-T to initiate and submit a Program Deviation Report (PDR) on October 7, 2005. The PDR identified a breach to two key milestones, the Critical Design Review (CDR) and the Milestone C Decision Review, as well as a potential RDT&E cost threshold breach due to a schedule extension and additional form, fit, and function requirements directed from FCS requirements allocation.

A change in the law, Title 10 United States Code 2433, required the program to refer back to the original APB to determine the cost growth for Program Acquisition Unit Cost (PAUC) and the Average Procurement Unit Cost (APUC). A Defense Acquisition Board in Process Review (DAB IPR) was held on September 21, 2006. On January 23, 2007 a second Program Deviation Report (PDR) was submitted to announce the breaches to PAUC and APUC.

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.

The Government attained approval on a Class Justification & Approval (J&A) based on one responsible source and issued a Sole Source Request for Proposal (RFP) for five years continuation of the RDT&E portion of the Phase 3 SDD contract on March 19, 2007. The Phase 3 SDD contract was awarded on June 29, 2007 to a combined contract team with General Dynamics as the prime contractor and Lockheed Martin the major subcontractor. Increment 2 SDD was implemented as a within scope change to the Phase 3 contract and incorporated by modification on 14 August 2007.

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes			PE NUMBER AND TITLE 0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL								PROJECT 355	
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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Phase 1 Pre Milestone B	CPFF/T&M	Lockheed Martin Integrated Systems & Solutions, Gaithersburg, MD	21185								21185	
Phase 1 Pre Milestone B	CPFF/T&M	General Dynamics C4 Systems, Taunton, MA	13306								13306	
Phase 2 SDD	CPFF/T&M	Lockheed Martin Integrated Systems & Solutions, Gaithersburg, MD	40770								40770	
Phase 2 SDD	CPFF/CPAF/T&M	General Dynamics C4 Systems Inc, Taunton, MA	192613	74171	1-4Q						266784	
Phase 3 SDD	CPAF/T&M	General Dynamics C4 Systems Inc, Taunton, MA		24184	4Q	268675	1-4Q				292859	
Subtotal:			267874	98355		268675					634904	

Remarks: All future funding transferred to PE # 0603782A, Project 367 for Increment 2 and PE # 0603782A, Project 372 for Increment 3

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
WIN-T Technical Assessment and Research Studies	Various		2359	865	1-4Q	884	1-4Q				4108	
Systems Engineering and Technical Support	Various		31133	10452	1-4Q	17404	1-4Q				58989	
Subtotal:			33492	11317		18288					63097	

Remarks: All future funding transferred to PE # 0603782A, Project 367 for Increment 2 and PE # 0603782A, Project 372 for Increment 3

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes	PE NUMBER AND TITLE 0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL	PROJECT 355
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III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Conducted Inc 2 Field Test. Provide Test Support to include M&S prep for Inc 2 DT/LUT & Inc 3 DT.	Various		17129	4046	1-4Q	13636	1-4Q				34811	
Government Furnished Equipment for Inc 2 LUT	PWD					2849	2Q				2849	
Subtotal:			17129	4046		16485					37660	

Remarks: All future funding transferred to PE # 0603782A, Project 367 for Increment 2 and PE # 0603782A, Project 372 for Increment 3

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Documentation Preparation & PM Support	Various		9239	3417	1-4Q	4853	1-4Q				17509	
Conducted Source Selection Evaluation Board and Conduct Should Cost Effort	Various		326								326	
Travel, licenses, facilities, etc.	Various		2060	1002	1-4Q	1500	1-4Q				4562	
MITRE Support	PWD		5543	1151	1-4Q	1400	1-4Q				8094	
SBIR/STTR						8867					8867	
Subtotal:			17168	5570		16620					39358	

Remarks: All future funding transferred to PE # 0603782A, Project 367 for Increment 2 and PE # 0603782A, Project 372 for Increment 3

Project Total Cost:	335663	119288		320068							775019	
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Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY
4 - Advanced Component Development and Prototypes

PE NUMBER AND TITLE
**0603782A - WARFIGHTER INFORMATION NETWORK-
 TACTICAL - DEM/VAL**

PROJECT
355

Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
Phase 2 SDD, Increment 2 Phase 3 SDD	Phase 2 SDD				Inc 2 SDD																							
(1) Inc 2 Preliminary Design Review					▲ ₁ Inc 2 PDR																							
Inc 2 Field Test					Field Test																							
(2) IPR (OIPT), (3) Increment 2 Critical Design Review					OIPT ▲ ₂ ▲ ₃ Inc 2 CDR																							
Increment 3 Phase 3 SDD					Inc 3 SDD																							
(4) Increment 3 Preliminary Design Review									▲ ₄ Inc 3 PDR																			

Schedule Detail (R4a Exhibit)

February 2008

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes		PE NUMBER AND TITLE 0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL					PROJECT 355	
<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	
Phase 2 SDD	1Q - 3Q							
Increment 2 Phase 3 SDD	4Q	1Q - 4Q						
Inc 2 Preliminary Design Review		1Q						
Inc 2 Field Test		1Q						
IPR (OIPT)		2Q						
Increment 2 Critical Design Review		2Q						
Increment 3 Phase 3 SDD	3Q - 4Q	1Q - 4Q						
Increment 3 Preliminary Design Review		4Q						

Scheduled events for FY2009 and out will be reflected on the reports for PE # 0603782A, Project 367 for Increment 2 and PE # 0603782A, Project 372 for Increment 3

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes		PE NUMBER AND TITLE 0603782A - WARFIGHTER INFORMATION NETWORK- TACTICAL - DEM/VAL						PROJECT 367	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
367 WIN-T INCREMENT 2 -INITIAL NETWORKING-ON-THE-MOVE			83919	19362	10773				114054

A. Mission Description and Budget Item Justification: Increment 2 capability supports limited collaboration, mission planning and on-the-move. It enables distribution of information via voice, data, and real-time video from ground-to-ground and ground-to satellite communications. Increment 2 capitalizes on COTS/GOTS, mature technologies and adds mobility to the Brigade Combat Team (BCT) including Battalions and Companies. Increment 2 initially enables planning, monitoring, controlling and prioritizing (PMCP) the Div Headquarters (HQs) and/or the Bde network. It will disseminate critical information in less than five seconds and time sensitive information in less than eight seconds. Mobile communications for select users are enabled at 256 kbps for speeds up to 20 mph. It provides vehicular personnel force protection. It extends wide area/GIG network connectivity to the lower tactical subnets at the company level. Network survivability is enhanced by automatically reconfiguring the network due to node(s) or link loss (es). Spectrum reuse is accomplished with the Highband Network Waveform (HNW) and Net Centric Waveform (NCW). The Quality of Service (QOS) capability enables message trafficking prioritization by level of importance to the warfighter. This Increment provides commercial and military band satellite communications to Div, Bde, Bn and Company (Co).

This program is not a new start, effort previously funded under PE# 0603782A, Project 355
 Funds in FY2009 support continued System Development and Demonstration, Development Test, New Equipment Training, Limited User Test, Milestone C preparation/documentation, Request for Proposal process and Low Rate Initial Production Contract Award.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Increment 2 System Development and Demonstration and test support/prototypes for Development Test, New Equipment Training, and Limited User Test. The contractor provides final architecture, Modeling & Simulation (M&S), and milestone efforts			22326
Platform Integration of WIN-T Configuration Items			34763
Technical Engineering Services and Research Studies			3837
Conduct of Developmental Test and Limited User Test; includes Modeling and Simulation			20802
Program Management Support			2191
Total			83919

<u>B. Other Program Funding Summary</u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
BW7115 - Increment 2 - Initial Networking OTM			179815	586611	771429	709612	616766		2864233

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

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BUDGET ACTIVITY

4 - Advanced Component Development and Prototypes

PE NUMBER AND TITLE

0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL

PROJECT

367

Comment:

C. Acquisition Strategy Warfighter Information Network-Tactical (WIN-T) is the cornerstone tactical communications system supporting the implementation of the LandWarNet strategy during the 2007 to 2025 timeframe. The WIN-T program is establishing a single integrating framework creating a network of networks for the Army, subject to commander's intent and security policy. The Increment 2 (Inc 2) capability will be provided for urgent communications needs and addresses the network technology to meet those needs within the FY2009 to FY2014 timeframe. WIN-T Increment 2 is focused on Brigade Combat Teams (BCT). This increment will provide BCT and maneuver battalion commanders and their command posts, as well as maneuver companies the ability to access and receive relevant, near-real, tactically-relevant needed information, unfettered by range, terrain, or vegetation limitations, without tethering them to traditional static locations. Additionally, this increment provides the Division G6 and BCT S6 the ability to allocate communications capacity consistent with the commander's priorities, as well as controlling, monitoring, and maintaining the network.

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT	
4 - Advanced Component Development and Prototypes			0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL								367	
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Phase 3, Increment 2 System Development and Demonstration	CPAF	General Dynamics C4 Systems Inc, Taunton, MA						22326	1-4Q	Cont.	Cont.	
Platform Integration	Various	Various						34763	1-4Q	Cont.	Cont.	
Subtotal:								57089		Cont.	Cont.	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Technical Engineering Services and Research Studies	T&M	General Dynamics C4 Systems Inc, Taunton, MA						3837	1-4Q	Cont.	Cont.	
Subtotal:								3837		Cont.	Cont.	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Test and Modeling & Simulation	Various	Various						20802	1-4Q	Cont.	Cont.	
Subtotal:								20802		Cont.	Cont.	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT	
4 - Advanced Component Development and Prototypes			0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL							367	
Program Management Support	MIPR	Various						2191	1-4Q	Cont.	Cont.
Subtotal:								2191		Cont.	Cont.
Project Total Cost:											
								83919		Cont.	Cont.

Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY
4 - Advanced Component Development and Prototypes

PE NUMBER AND TITLE
**0603782A - WARFIGHTER INFORMATION NETWORK-
 TACTICAL - DEM/VAL**

PROJECT
367

Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
Phase 3 Increment 2 SDD	Inc 2 SDD																											
(1) Increment 2 Preliminary Design Review					PDR 																							
(2) Increment 2 Critical Design Review					 CDR																							
(3) Developmental Test, (4) New Equipment Training, (5) Limited User Test					DT   LUT NET																							
(6) Milestone C, (7) Contract Award for Low Rate Initial Production					MS C  LRIP Award																							
Increment 2 Low Rate Initial Production	Inc 2 LRIP																											
(8) Initial Operational Test and Evaluation, (9) First Unit Equipped, (10) Full Rate Production Decision Review													IOT    UE FRP DR															

Schedule Detail (R4a Exhibit)

February 2008

BUDGET ACTIVITY		PE NUMBER AND TITLE					PROJECT
4 - Advanced Component Development and Prototypes		0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL					367
<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
Phase 3 Increment 2 SDD	4Q	1Q - 4Q	1Q - 2Q				
Increment 2 Preliminary Design Review		1Q					
Increment 2 Critical Design Review		2Q					
Developmental Test		4Q					
New Equipment Training			1Q				
Limited User Test			1Q				
Milestone C			2Q				
Contract Award for Low Rate Initial Production			2Q				
Increment 2 Low Rate Initial Production			2Q - 4Q	1Q - 4Q	1Q		
Initial Operational Test and Evaluation				3Q - 4Q			
First Unit Equipped				4Q			
Full Rate Production Decision Review					1Q		

Prior years for scheduling and funding can be derived from the PE# 0603782A, Project 355

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BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes		PE NUMBER AND TITLE 0603782A - WARFIGHTER INFORMATION NETWORK- TACTICAL - DEM/VAL						PROJECT 372	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
372 WIN-T INCREMENT 3 - FULL NETWORKING ON THE MOVE			330438	353985	336761	294013	68279	Continuing	Continuing

A. Mission Description and Budget Item Justification: Warfighter Information Network - Tactical (WIN-T) is the Army's communications system for reliable, secure, and seamless video, data, imagery, and voice services that enables decisive combat actions. It will be focused on moving information in a manner that supports commanders, staffs, functional units, and capabilities-based formations - all mobile, agile, lethal, sustainable, and deployable. It will be optimized for offensive and Joint operations so that the theater combatant commander will have the capability to perform multiple missions simultaneously. WIN-T Increment 3 will provide the Commander/user within the tactical area of responsibility a mobile infrastructure that passes relevant information effectively and efficiently for combined arms capabilities in all required terrain and environmental conditions. WIN-T is implementing the Global Information Grid (GIG) NetCentric Vision including Information Assurance and Network Centric Enterprise Services. In addition, WIN-T is a key component of the tactical GIG and enabler for Future Combat Systems (FCS). WIN-T provides dynamic bandwidth and enabling formations On-The-Move (OTM).

This program is not a new start, previously funded under PE # 0603782A, Project 355. Funds in FY2009 continue System Development and Demonstration effort to include conduct of Critical Design Review, hardware/software development engineering builds and manufacture of prototypes.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Increment 3 System Development and Demonstration. The contractor provides final architecture, critical design, and prototypes to support tests and milestone efforts; and Modeling and Simulation (M&S)			295670
Platform Integration of WIN-T Configuration Items			2944
Technical Engineering Services and Research Studies			4500
Support for Engineering Development Test and Limited User Test; includes M&S			5630
Program Management Support			21694
Total			330438

B. Other Program Funding Summary Not applicable for this item.

C. Acquisition Strategy The Defense Acquisition Executive (DAE), through the Nunn-McCurdy certification process, certified a restructured WIN-T program on June 5, 2007.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY

4 - Advanced Component Development and Prototypes

PE NUMBER AND TITLE

**0603782A - WARFIGHTER INFORMATION NETWORK-
TACTICAL - DEM/VAL**

PROJECT

372

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:

Increment 1: Networking at-the-Halt

Increment 1a: Extended Networking at-the-Halt; the former JNN program with Ka military satellite communications capability

Increment 1b: Enhanced Networking at-the-Halt; the former JNN Program with Net Centric Waveform and Colorless Core Capability

Increment 2: Initial Networking on-the-Move

Research, Development, Test & Engineering (RDT&E) for Soldier Network Extensions (SNEs) and High-capacity Network Radios (HNRs), Tactical Communications Nodes (TCNs), Points of Presence (PoPs) and other associated Configuration Items (CI)

Procurement of limited numbers of SNEs, HNRs, TCNs, PoPs and other associated CIs

Increment 3: Full Networking on-the-Move

Full mobility to include Future Combat Systems (FCS) support

Increment 4: Protected Satellite Communications (SATCOM) on-the-Move

Enhanced capability for protected SATCOM through tech insertions from High Capacity Communication Capability (HC3)

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT	
4 - Advanced Component Development and Prototypes			0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL								372	
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Phase 3, Increment 3 System Development and Demonstration	CPAF	General Dynamics C4 Systems Inc, Taunton, MA						295670	1-4Q	Cont.	Cont.	
Platform Integration	Various	Various						2944	1-4Q	Cont.	Cont.	
Subtotal:								298614		Cont.	Cont.	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Technical Engineering Services and Research Studies	T&M	General Dynamics C4 Systems Inc, Taunton, MA						4500	1-4Q	Cont.	Cont.	
Subtotal:								4500		Cont.	Cont.	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Testing and Modeling & Simulation	Various	Various						5630		Cont.	Cont.	
Subtotal:								5630		Cont.	Cont.	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes			PE NUMBER AND TITLE 0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL						PROJECT 372	
Program Management Support	MIPR	Various					21694	Cont.	Cont.	
Subtotal:							21694	Cont.	Cont.	
Project Total Cost:										
							330438	Cont.	Cont.	

Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY
4 - Advanced Component Development and Prototypes

PE NUMBER AND TITLE
**0603782A - WARFIGHTER INFORMATION NETWORK-
 TACTICAL - DEM/VAL**

PROJECT
372

Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
Phase 3 Increment 3 System Development & Demonstration	Inc 3 SDD																											
(1) Increment 3 Preliminary Design Review					PDR ▲ ₁																							
(2) Critical Design Review, (3) Engineering Development Test									CDR ▲ ₂								EDT ▲ ₃											
(4) New Equipment Training, (5) Limited User Test																	NET ▲ ₄				LUT ▲ ₅							
(6) Production Readiness Review																	PRR ▲ ₆											
(7) Milestone C																	MS C ▲ ₇											
Contract Award Low Rate Initial Production																					LRIP							
(8) Production Qualification Test - Contractor, (9) Logistics Demonstration																					PQT-C ▲ ₈				Log Dem ▲ ₉			
(10) Production Qualification Test - Government																									PQT-G ▲ ₁₀			

Schedule Detail (R4a Exhibit)

February 2008

BUDGET ACTIVITY		PE NUMBER AND TITLE					PROJECT	
4 - Advanced Component Development and Prototypes		0603782A - WARFIGHTER INFORMATION NETWORK-TACTICAL - DEM/VAL					372	
<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	
Phase 3 Increment 3 System Development & Demonstration	4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q		
Increment 3 Preliminary Design Review		2Q						
Critical Design Review			2Q					
Engineering Development Test					2Q			
New Equipment Training					2Q			
Limited User Test					2Q			
Production Readiness Review					3Q			
Milestone C						1Q		
Contract Award Low Rate Initial Production						1Q - 4Q	1Q - 4Q	
Production Qualification Test - Contractor						4Q	1Q - 3Q	
Logistics Demonstration							4Q	
Production Qualification Test - Government							4Q	

Prior years for scheduling and funding can be derived from the PE # 0603782A, Project 355