	ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	Exhibi	it)	Fe	bruary 2	003	
	BUDGET ACTIVITY 5 - System Development and Demonstration PE NUMBER AND TITLE 0604805A - Command, Control, Communications Systems - Eng Dev										
	COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
	Total Program Element (PE) Cost	112970	89546	219088	162970	107046	72227	32546	14430	0	868279
097	INTEROP & STANDARDS COMPLIANCE EXPERIMENT & TEST	1866	1649	2052	2240	2044	2367	943	963	0	15967
485	INFO STANDARDS INTEROP ENG/JOINT INTEROP CERT	3851	3635	4957	5142	5210	5259	2926	3205	0	38051
589	ARMY SYS ENGINEERING & WARFIGHTING TECH SUP	8159	8037	2964	3030	3178	3102	3050	3173	0	42830
591	WPN SYS TECH ARCH (WSTA)	2322	2268	590	590	588	588	589	588	0	10484
615	JTRS-GROUND DOMAIN INTEGRATION	88208	60688	206137	149510	93403	58143	25038	6501	0	715075
629	TACTICAL COMMUNICATIONS SYSTEM - ENGINEERING DEVEL	8564	13269	2388	2458	2623	2768	0	0	0	45872

A. Mission Description and Budget Item Justification: This Program Element (PE) supports efforts to develop interoperability of Army programs and products, horizontally and vertically for the digitized battlefield. Project D097 supports development of the C4I Interoperability Network. Project D485 supports Information Standards Interoperability Engineering and Joint Interoperability certification. It provides the critical elements of the Army/Joint Technical Architecture, the mandated standards and communication protocols for Army/Joint ground and air operations, and crucial certification test tools to evaluate systems' interoperability for the Warfighter in support of the Vice Chief of Staff of the Army (VCSA) and Army Acquisition Executive (AAE). It also provides Joint certification testing and certification recommendations to the Joint Chiefs of Staff (JCS) for Army systems. This Army-wide effort directly supports the management, oversight, development, maintenance, and interoperability at the Army enterprise level C4I/IT (Command, Control, Communications, Computers, and Intelligence/Information Technology) architecture efforts required to implement the Army Transformation Campaign Plan (TCP), Unit Set Fielding (USF), Software Blocking (SWB) Policy and Army Knowledge Management. Project D589 Army Systems Engineering (ASE) & Warfighter Technical Support provides essential technology expertise on all Systems Engineering and Technical Architecture (SE/TA) matters critical to gain Information Dominance and foster interoperability among all Army systems. The Weapons Systems Technical Architecture, Project D591, supports development of the Joint Technical Architecture-Army (JTA-A) which provides the 'building code' foundation for designing, building, fielding, and supporting interoperable systems in an expedient and cost-effective manner. In FY03, Project D615 supports the Army Joint Tactical Radio System (JTRS) Cluster 1 and the Near Term Digital Radio System (NTDRS). In FY04, Project D615 will support the JTRS C

## **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)**

February 2003

**BUDGET ACTIVITY** 

**5 - System Development and Demonstration** 

PE NUMBER AND TITLE

0604805A - Command, Control, Communications Systems -

**Eng Dev** 

concentrating on the assessment and evaluation of the next generation of Internet Protocol (IPv6) and its protocol dependencies affecting the Army Enterprise Architecture. The Applied Communications and Information Networking (ACIN) project provides for the evaluation and capitalization of emerging commercial communications and networking technologies by leveraging advances, influencing development efforts, influencing standards and delivering technical solutions in support of emerging architectures (JTA-A). This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

B. Program Change Summary	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	118643	82238	76918	62100
Current Budget (FY 2004/2005 PB)	112970	89546	219088	162970
Total Adjustments	-5673	7308	142170	100870
Congressional program reductions				
Congressional rescissions		-1810		
Congressional increases		12000		
Reprogrammings	-2519	-513		
SBIR/STTR Transfer	-3154	-2369		
Adjustments to Budget Years			142170	100870

Proj 097: Funding increases of \$612K in FY04 and \$799K in FY05 are for continued emerging Future Combat Systems architecture assessment.

Proj 485: The funding increases of \$1,091K in FY 2004 and \$1,176K in FY 2005 are direct results of the Command and Control Basic Organization Structure (C2 BOS) and Army Knowledge Enterprise Architecture (AKEA)General Officers Steering Committee (GOSC) budget prioritization and realignment of efforts between projects 097 and 485. Several critical unfunded requirements (UFRs), which directly impact the warfighter and the Army Transformation Campaign Plan, were funded. In addition, a new requirement was added to project D485 to perform the Software Blocking (SWB) Configuration Management (CM) function. This Army Wide function will perform the CM on SWB specific products and configuration items (CI) that include requirements, architectures, plans, test threads and procedures, and software and messaging baselines.

Proj 589: Decrement in FY04 of \$4129K and in FY05 of \$3936K due to reprioritization of tasks.

Proj 615: FY 2002 funds realigned (\$2400K) to higher priority requirements.

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit) BUDGET ACTIVITY 5 - System Development and Demonstration PE NUMBER AND TITLE 0604805A - Command, Control, Communications Systems Eng Dev

FY 2004 increase of \$111800K to Project D615 for JTRS Cluster 1 Product Development, and \$33201K for Cluster X. FY 2005 funding reflects increase of \$50600K to Project D615 in order to accelerate JTRS product development and \$52575 for continuation of Cluster X development.

Proj 629: FY02 one year Congressional add of \$6100K demonstrated specific exploitation of commercial technologies in networking and communications for rapid insertion to PM MILSATCOM, PM TRACS and SOCOM. Technologies included: broadband wideband gap amplifier, Ka band transmit antennas and technologies to enhance communications security.

Proj 629: FY04 and FY05 increases of \$1058K and \$1113K will support the steeply increased effort to develop the Army's IPv6 implementation plan as well as increased support to WIN-T and JTRS transition plans.

Proj D591: FY2004 decrease of \$1390K and FY2005 decrease of \$1359K reflected in current BES since previous budget submission.

	ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	A Exhi	bit)	Fe	bruary 2	003	
	ACTIVITY em Development and Demonstration		(	e number 0604805A Systems -	- Comma		rol, Com	municatio	ons	PROJECT <b>097</b>	
	COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
097	INTEROP & STANDARDS COMPLIANCE EXPERIMENT & TEST	1866	1649	2052	2240	2044	2367	943	963	0	15967

A. Mission Description and Budget Item Justification: Interoperability and Standards Compliance Experimentation & Testing: The increased combat power of the Objective Force, as defined by the Chief of Staff of the Army's Transformation Campaign Plan (TCP), will derive directly from the information superiority of network/ knowledge centric warfare and the ability to be fully "interoperable as a member of the joint, multinational, interagency team." In addition, attaining full interoperability will be critical to meet the Army's Division XXI, Corps XXI, Army XXI, Army 2010 and JV 2020 plans. To attain this significantly increased combat power, it is essential that interoperability issues be identified early in the life cycle of emerging C4ISRsystems, through the conduct of Army interoperability assessments and JTA standards compliance testing. This project, in accordance with the TCP, "establishes a mechanism to ensure all digitally capable material, including the Objective Force, is fully operational, compatible and interoperable" before fielding. In particular, it provides the resources for a virtual command, control, communications, computer, intelligence, electronic warfare and sensor (C4IEWS) Digital Integration Lab (DIL) which is utilized to integrate/assess the Army's programs and products, horizontally and vertically for the digitized battlefield, by replicating current and future tactical battlefield environments (including Army, Joint and Allied interoperability environments). To attain this goal, it utilizes on-site and electronically interconnected remote C4IEWS systems, labs/ test beds, field/integration sites, developers facilities, test tools and Battle Labs to enable/facilitate comprehensive evaluations of new prototypes, evolutionary system developments, new technologies, commercial products, software and systems interoperability. This program supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP) and towards the Future Combat System (FCS).

Accomplishments/Planned Program	FY 2002	FY 2003	FY 2004	FY 2005
Provide external DIL connectivity to remote battlefield digitization sites for digitization experimentation and tests.	0	350	350	350
Provide external DIL connectivity to remote battlefield digitization sites for digitization experimentation, and tests.	380	0	0	0
Upgrade, operate and support DIL Evaluation & Certification Testbed and other facilities supporting experiments/certifications needed for battlefield digitization efforts, including Joint, Allied as well as STO/ACTD/ATD experimentation and evaluations related to Objective Force development. Support interoperability testing between emerging FCS C4ISR Systems and the SDD, FCD, IBCD systems.	668	0	750	750
Upgrade, operate and support secure DIL Evaluation & Certification Testbed and other facilities supporting experiments/certifications needed for battlefield digitization for Army SDD & FDC, as well as STO/ACTD/ATD experimentation and evaluations related to Objective Force development.	0	600	0	0
Acquire/update DIL hardware and software interfacing systems, test tools, and supporting C4ISR systems for SDD, FDC, and Objective Forces.	100	0	150	150

## ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit) BUDGET ACTIVITY 5 - System Development and Demonstration PE NUMBER AND TITLE 0604805A - Command, Control, Communications Systems - Eng Dev PROJECT 097

Accomplishments/Planned Program (continued)	FY 2002		FY 2004	
Acquire/update DIL hardware and software interfacing systems, test tools, and supporting systems for SDD,FDC and Objective forces TA/SA evaluations.	0	100	0	100
Acquire DIL automated scenario drivers and test analysis tools for SDD,FDC and OF evaluations and TA/SA evaluations.	127	0	0	100
Acquire DIL automated scenario drivers and test analysis tools for SDD, FDC and Objective Force evaluations TA/SA evaluations.	0	100	112	100
Combat Net Radio (CNR) Protocol Test Tool (Monitor/Decoder) development to support Sync Mode, common PTT components.	137	114	0	0
CNR Protocol Test Tool (Conformance Tester V4) development; develop version 220D.	100	0	0	0
CNR Protocol Test Tool (Conformance Tester V5) development; develop latest approved version of CNR standard.	0	55	0	0
CNR Protocol Test Tool (Network Analyzer V3) development; supports Net troubleshooting & Net performance.	50	0	0	0
CNR Protocol Test Tool (Network Analyzer V4) development; supports Net troubleshooting & Net performance.	0	52	0	0
VMF Test Tool development and On site support	0	92	0	0
VMF Test Tool development and On-site support	94	0	0	0
Develop/Field VMF Reissue 5 VMF tool database	70	0	0	0
Develop/Field VMF Reissue 6 VMF tool database	0	70	0	0
VTT Message Generation Scripting	140	116	0	0
Provide DIL System Engineering and Integration support for conducting experiments and evaluations to support FDD, Joint Tests, and testing related to development of ATD's and STO's related to the development of the Objective Force.	0	0	220	220
Evaluate and certify IT/C4ISR systems interoperability for FDD, Objective Force, Joint experiments to assure compliance with the	0	0	360	360
Technical and System Architectures.				
Provide systems engineering, integrated support & field support for identification and resolution of systems' discrepancies and inconsistencies identified during evaluations.	0	0	110	110
Totals	1866	1649	2052	2240

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

ARMY RDT&E BUDGET ITEM J	USTIFICATION (R-2A Exhibit)	February 2003
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604805A - Command, Control, Com Systems - Eng Dev	PROJECT <b>097</b>
C. Acquisition Strategy: The efforts funded in this project are non-systobtained from existing competitive omnibus support services contract		ems. The contractual efforts/services are

BUDGET ACTIVITY 5 - System Developn	nent and D	emonstration		060	umber ani <b>4805A - C</b> n <b>g Dev</b>		l, Control	, Comm	unications	s System	PROJEC <b>s 097</b>	Т
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete		Target Value of Contract
a . Labor (internal Govt)	In House	USACECOM, Fort Monmouth, NJ	3366	897	1-4Q	400		472		Continue	5135	С
b . Travel	In House	USACECOM, Fort Monmouth, NJ	79	15	1-4Q	30		50		Continue	174	0
Subtotal:			3445	912		430		522		Continue	5309	0
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete		Value of
II. Support Cost  a . System Engineering					Award		Award		Award		Cost	Value of Contract
	Method & Type	Location  Arinc, Fort Monmouth,	PYs Cost	Cost	Award Date	Cost	Award	Cost	Award	Complete	Cost	Target Value of Contract 0
a . System Engineering	Method & Type  C/CPFF	Arinc, Fort Monmouth, NJ BAE, Fort Monmouth,	PYs Cost 3061	Cost 297	Award Date	Cost 1200	Award	Cost 1300	Award	Complete	Cost 5858	Value of Contract
a . System Engineering b . Development Support	Method & Type C/CPFF  C/CPFF	Location  Arinc, Fort Monmouth, NJ  BAE, Fort Monmouth, NJ  CSC, Fort Monmouth,	9Ys Cost 3061 80	297 0	Award Date 1-2Q	1200 0	Award	Cost 1300 0	Award	Complete  Continue  Continue	Cost 5858 Continue	Value of Contract

BUDGET ACTIVITY  5 - System Development and  II. Support Cost (continued) Contract Method & Type  f . Equipment FFP  g . Development Support C/CPFF	Performing Activity & Location	Total PYs Cost	060	FY 2003	O TITLE Command	, Control	FY 2005	nications	-		Γ
(continued) Method & Type  f . Equipment FFP	Location				FY 2004	FY 2004	FY 2005	EV 2005	G · F		
f . Equipment FFP		PYs Cost	Cost				1 1 2005	F1 2003	Cost To	Total	Targe
f. Equipment FFP	TIGA GEGOVANIA		Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Cost	Value of Contrac
g Development Support C/CPEE	USA CECOM, NJ	753	100	1-4Q	122		97		Continue	1072	(
g. Development Support	BAH, Fort Monmouth, NJ	40	40	1-4Q	0		0		Continue	Continue	(
Subtotal:		5560	737		1622		1718		Continue	Continue	(
III. Test and Evaluation Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete		Targe Value of Contrac
Subtotal:		0	0		0		0		0	0	(

BUDGET ACTIVITY <b>5 - System Developn</b>		IY RDT&E CO		PE NI <b>060</b>	UMBER AN		, Control	, Commu		ruary 200 s System	PROJEC	Т
V. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete		Targe Value o Contrac
Subtotal:			0	0		0		0		0	0	ı
Project Total Cost:			9005	1649		2052		2240		Continue	Continue	(

	ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	A Exhi	bit)	Fe	ebruary 2	003	
	ACTIVITY em Development and Demonstration		(	e number 0 <mark>604805A</mark> Systems -	- Comma		rol, Com	municatio	ons	PROJECT <b>485</b>	
	COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
485	INFO STANDARDS INTEROP ENG/JOINT INTEROP CERT	3851	3635	4957	5142	5210	5259	2926	3205	0	38051

A. Mission Description and Budget Item Justification: Evaluate systems' interoperability, in support of the Vice Chief of Staff Army (VCSA) and the Office of the Chief Information Officer (CIO/G-6), Army Enterprise Architecture (AEA) Program, as cited in the AEA Master Plan, fulfilling the Clinger-Cohen Act's mandate of developing sound integrated Information Technology (IT) architectures and the Army's Software Blocking Policy. The increased combat power of the Objective Force, as defined by the Chief of Staff of the Army (CSA) Transformation Campaign Plan (TCP), will be dependent on the information superiority of network & knowledge centric warfare and the ability of systems to be fully "interoperable as a member of the joint, multinational, interagency team as well as emerging Objective Force (OF) C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance) Systems." It identifies and reduces interoperability issues earlier in the life cycle by intra-Army/OF/Joint/combined experiments, certifications, and assessments and through the establishment & sustainment of common standards. This Army wide effort directly supports the management, oversight, development, maintenance, and interoperability of the Army enterprise level C4I/IT architecture efforts required to implement the Army Transformation Campaign Plan, Unit Set Fielding, Software Blocking and Army Knowledge Enterprise Architecture (AKEA). Specifically, this project resources the Army's messaging standards conformance authority in assessing compliance with the Joint Technical Architecture - Army (JTA-A), in meeting the war fighter information exchange requirements and in facilitating their interoperability. Also it resources, in accordance with the JTA-A, the development and maintenance of the following information standards: Variable Message Format (VMF) & Combat Net Radio (CNR) protocol, which support Army/Joint ground operations; Tactical Digital Information Links (TADILs), which support Air Defense operations; and US Message Text Format (USMTF), which support Intel and Commanders operations. It provides the Army's lead for configuration management functions of these standards and test tools at both Army and Joint levels. This project resources the Army participation in joint/allied messaging certification testing & configuration management processes. This project also resources the development and fielding of a suite of four (4) crucial tools which are used throughout the entire Army. These tools which are currently under development will provide the ideal means to: a) validate JTA-A critical messaging and protocol standards; b) improve systems interoperability; c) verify/certify correct system implementations and interpretation to JTA-A; d) sustain/support digitization and transition of fielded systems; e) support Software Blocking and interoperability testing; f) provide Legacy AEA interoperability with Future Combat System (FCS) command and control systems. These crucial tools are critical to the JTA-A Compliance, Certification Testing mission & Interoperability programs. The task also supports the Army's transformation campaign while mitigating interoperability issues resulting in reducing cost & program slippages. This project also provides the Configuration Management & Control for the Software Blocking (SWB)/USF (Unit Set Fielding). This program supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

## **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)** February 2003 PE NUMBER AND TITLE BUDGET ACTIVITY PROJECT 5 - System Development and Demonstration 0604805A - Command, Control, Communications 485 **Systems - Eng Dev Accomplishments/Planned Program** FY 2004 FY 2002 FY 2003 FY 2005 Evaluate and certify IT/C4ISR systems interoperability for DCX (Division Capstone Exercise), Joint experiments to assure compliance 332 with the Technical and System Architectures Evaluate and certify IT/C4ISR systems interoperability for FDD (First Digitized Division), Joint experiments to assure compliance with the 458 0 0 n Technical and System Architectures Provide DIL (Digital Integration Laboratory) System Engineering and Integration support for conduct of experiments and evaluations to 460 323 0 support FDD, Joint Tests, and testing related to development of ATDs (Advanced Technology Demonstrations) and STOs (Science and Technology Objectives) related to the development of the Objective Force. Provide systems engineering, integrated support & field support for identification and resolution of systems' discrepancies and 178 23 0 inconsistencies identified during evaluations Develop and publish Army wide Combat Net Radio (CNR) and Variable Message Format (VMF)/USMTF (United States Message Text 303 350 281 405 Format) application header standards and updates that support warfighting interoperability requirements during the Legacy, interim to Objective Force Transformation. Develop/Joint approved new Variable Message Format (VMF) messages to support interoperability during the Legacy, interim to Objective 325 403 480 490 Force Transformation. Joint approval of 50-200 Variable Message Format (VMF) change proposals to support warfighting interoperability during the Legacy to 332 400 508 535 Objective Force Transformation. Change proposal also includes requirements for Homeland Defense (i.e. Nuclear/Biological & Chemical, security, etc) Interoperability and Software Blocking/Unit Set Fielding. Maintain Army wide common Variable Message Format (VMF) Data Base (VID) and provide multiple versions that supports 81 77 150 199 interoperability during the system development, testing and fielding. Ensure the warfighter requirements(Army-Wide & Joint) in the VMF Integrated Database are validated. Chair the VMF Integrated database IPT. Including the development and maintenance of the VID OA consistency tool & automated 0 0 110 115 distribution mechanism. Conduct, chair & manage at multiple Army CCBs (Configuration Control Boards) and represent the Army at multiple Army/Joint CCBs to 310 310 318 323 support existing and evolving warfighter interoperability. Evaluate, process and obtain approval of 1100-1200 Air defense TADILs & ground operation USMTF change proposals incorporating 549 574 605 625 crucial Ground, Air Defense, Intel & Commander requirements. Prepare for and Conduct 10 Joint certification testings to include 30 operational systems, and develop over 500 interoperability problem 710 725 725 725 reports for analysis by Joint services Army lead in over 24 Joint Air Defense (i.e. TADILS), Ground Operations (i.e. USMTF), OSD Tactical Data Link Management plans 165 180 167 185

(TDLMP), and Joint Interface Requirements.

ARMY RDT&E BUDGET ITEM JUS	STIFICATION (R-2A Exhibit)		Februar	ry 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration	PROJECT 485						
Accomplishments/Planned Program (continued)		FY 2002	FY 2003	FY 2004	FY 2005		
Engineer, develop & publish Warfighter Information Standards (i.e. XMI-USMTF Incorporating the Army's requirements into the standards IAW Army guidance, pol		0	0	275	295		
Develop, field and provide SME (subject matter expert) support for Combat Net Radesign & implementation of the operational Sync Mode, common PTT components		0	0	150	150		
Develop, field and provide SME support for the CNR Protocol Test Tool (PTT) ma Wide requirements (i.e. Mobility, Security, Robustness, etc.) are met in accordance w		0	0	115	115		
Develop, field and provide SME support for CNR PTT (Network Analyzer) designal limited bandwidth systems to meet time sensitive information exchanges. Conduct to obtain Army wide & joint approval.	/implement net troubleshooting & net performance PTT Conformance to standard test to the CNR standards	0	0	85	100		
Develop and field the Army's VMF Test Tool (VTT) to current reissue baseline for VTT Conformance to standard test to the VMF standards to obtain Army wide & Jo		0	0	135	160		
Develop, field and support VTT Message Generation Scripting to include all Army etc) and ensure compatibility with Army mandates.	-Wide requirements (i.e. Homeland Security, SWB/USF,	0	0	130	125		
Develop, field and support the US Message Text Tool (MTT) to support XMI-USI Architectural guidance. Conduct MTT Conformance to standard test to the US MT		0	0	330	250		
Develop, publish and execute the SWB CM (Software Blocking Configuration Mar developed by the Requirements WG (Working Group), Architecture WG, Block Ex SW Blocks.		0	0	311	345		

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

C. Acquisition Strategy: The efforts funded in this project are non-system specific, interoperability experimentation, evaluation and

Totals

5142

3851

3635

4957

ARMY RDT&E BUDGET ITEM JUSTIF	TICATION (R-2A Exhibit)	February 2003
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604805A - Command, Control, Command, Systems - Eng Dev	PROJECT
certification across multiple systems. The contractual efforts/services are obtaine	d from existing competitive omnibus support servi	ce contracts.

BUDGET ACTIVITY 5 - System Developm	ent and D	emonstration		06	NUMBER ANI <b>04805A - C</b> E <b>ng Dev</b>		, Control	, Commı	ınications	s Systems	PROJEC <b>485</b>	Т
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cos		FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Labor (internal Govt)	In House	USACECOM , Fort Monmouth, NJ	7692	1623	1-4Q	1800	1-4Q	1900	1-4Q	Continue	13015	0
b . Travel	In House	USACECOM, Fort Monmouth, NJ	226	60	1-4Q	70	1-4Q	75	1-4Q	Continue	431	0
			7918	1683		1870		1975		Continue	13446	0
Subtotal:			7918	1000		1070		1975				
Subtotal:  II. Support Cost	Contract Method &	Performing Activity &	Total	FY 2003	FY 2003	FY 2004	FY 2004	FY 2005	FY 2005	Cost To	Total Cost	Target
	Contract Method & Type C/CPFF	Performing Activity & Location  Arinc, Fort Monmouth,			FY 2003 Award Date		FY 2004 Award Date		FY 2005 Award Date		Total Cost	Target Value of Contract
II. Support Cost	Method & Type	Location	Total PYs Cost	FY 2003 Cos	FY 2003 Award Date 1-4Q	FY 2004 Cost	Award	FY 2005 Cost	Award	Complete	Cost	Value of Contract
II. Support Cost  a . Development Support	Method & Type  C/CPFF	Arinc, Fort Monmouth,	Total PYs Cost 5289	FY 2003 Cos	FY 2003 Award Date 1-4Q	FY 2004 Cost	Award	FY 2005 Cost 0	Award	Complete 0	Cost 5412	Value of Contract
II. Support Cost  a . Development Support  b . Development Support	Method & Type C/CPFF C/CPAF	Arinc, Fort Monmouth, NJ Telos, Fort Monmouth, NJ CSC, Fort Monmouth,	Total PYs Cost 5289 4581 1963	FY 2003 Cos 123	FY 2003 Award Date 1-4Q 1-4Q	FY 2004 Cost 0	Award	FY 2005 Cost 0	Award	Complete 0 Continue	5412 4701	Value of Contract 0
II. Support Cost  a . Development Support  b . Development Support  c . Development Support	Method & Type  C/CPFF  C/CPAF  C/CPFF	Arinc, Fort Monmouth, NJ Telos, Fort Monmouth, NJ CSC, Fort Monmouth, NJ	Total PYs Cost 5289 4581 1963	FY 2003 Cos 123 120	FY 2003 Award Date 1-4Q 1-4Q 1-3Q 2-3Q	FY 2004 Cost 0 0	Award	FY 2005 Cost 0 0	Award	Complete 0 Continue Continue	5412 4701 2063	Value of Contract

	ARM	Y RDT&E CO	ST AN	IALY	SIS(R-3	)			Feb	ruary 200	3	
BUDGET ACTIVITY 5 - System Developm	ent and De	emonstration		06	NUMBER AN <b>04805A -</b> ( E <b>ng Dev</b>		d, Contro	l, Comm	unication	s Systems	PROJEC <b>485</b>	Т
II. Support Cost	Contract	Performing Activity &	Total	FY 200	3 FY 2003	FY 2004	FY 2004	FY 2005	FY 2005	Cost To	Total	Target
(continued)	Method &	Location	PYs Cost	Cos		Cost	Award	Cost	Award	Complete	Cost	Value of
	Туре				Date		Date		Date	_		Contract
g . Development Support	T&M	ITEL/Northrop Grumman (SEC SSES), Ft Monmouth, NJ	0	120	2Q	1280	2Q	1269	2Q	Continue	3749	0
h . Technical Support	C/CPFF	Marconi, Fort Monmouth, NJ	183	3	3 2-3Q	0		0		0	221	0
i . Equipment	In House	USACECOM, NJ	375	9	4 1Q	0		0		Continue	469	0
j . Equipment (Development Support)	FFP	GTE, Tauton, MA	106		)	0		0		0	106	0
k . Telecommunications	MIPR	USASC, Fort Huachuca, AZ	985	16	5 2Q	102	2Q	108	2Q	Continue	1360	0
			15136	195	,	3087		3167		Continue	23342	0
Subtotal:			13130	193	-	3087		3107		Commue	23342	ı

Remarks: \*Contracts/awards cited are 5 year (1 base + 4 option years). Future award dates imply future competitive award, contractor TBD.

	ARM	Y RDT&E CO	OST AN	IALYS	SIS(R-3)	)			Febi	ruary 200	3	
BUDGET ACTIVITY 5 - System Developm	ent and De	emonstration		060	iumber ani <b>)4805A - (</b> <b>ng Dev</b>		, Control	, Commı	ınications	s Systems	PROJEC <b>485</b>	Т
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost		FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
Subtotal:			0	0		0		0		0	0	
V. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Value o
IV. Management Services  Subtotal:	Method &				Award		Award		Award			Value o Contra
IV. Management Services  Subtotal:	Method &		PYs Cost	Cost	Award	Cost	Award	Cost	Award	Complete	Cost	Targe Value o Contrac

ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	A Exhi	bit)	Fe	ebruary 2	003	
BUDGET ACTIVITY 5 - System Development and Demonstration		(	e number 0 <mark>604805A</mark> Systems -	- Comma		rol, Com	municatio	ons	PROJECT <b>589</b>	
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
589 ARMY SYS ENGINEERING & WARFIGHTING TECH SUP	8159	8037	2964	3030	3178	3102	3050	3173	0	42830

A. Mission Description and Budget Item Justification: Army Systems Engineering & Warfighter Technical Support (WTS): The Army Systems Engineer (ASE) provides essential technology expertise on all Systems Engineering and Technical Architecture (SE/TA) matters critical to gain Information Dominance and foster interoperability among all Army systems. The Joint Technical Architecture-Army (JTA-A) provides the "building code" foundation for designing, building, fielding, and supporting interoperable systems in an expedient and cost-effective manner. ASE supports CIO/G6 in defining and maintaining the JTA-A and technically influences development and implementation of the JTA. ASE identifies new and emerging standards for integration of new technologies into existing Army Systems and Advanced Technology Demonstrations/Advanced Concept Technology Demonstrations (ATD/ACTDs) to support Army transformation to the Objective Force. The ASE's work efforts associated with the development and implementation of the JTA-A are critical path elements to achieve the Army's digitization mission, Army's Transformation to the Objective Force, to provide the ability to fight and win on tomorrow's battlefield, and assure compatibility with both Joint and Coalition Warfighters. WTS provides essential technical field expertise, on-site architectural/system analysis and execution planning to integrate emerging technologies and support the next generation of digitization across all 21st Century Battlefield Operating Systems. Promotes joint experiments in conjunction with Joint C4ISR Battle Center (JBC) to foster interoperability between Army Systems and those of other services both joint and coalition and including Homeland Security (HLS) Issues. WTS conducts interservice and Civil Agency coordination to identify candidate systems, provides expert analysis to define appropriate architecture, evaluates notional designs and conducts performance/cost benefit analysis to recommend viable tradeoffs. Performs technical coordination/integration ac

Accomplishments/Planned Program Conduct Major design evaluations for Joint Technical Architecture-Army (JTA-A) Interoperability. System Implementations: WIN-T, THAAD, JTRS, Future Combat Systems (FCS), ACS, BCT-IAV, Land Warrior Redesign, MOSAIC, Agile Commander.	FY 2002	FY 2003	FY 2004	FY 2005
	1350	1350	0	0
Ensure JTA-A Interop Implementation and Assess JTA-A compatibility for Army and S&T Programs.SSEBS/RFPs: WIN-T, TACSAT T4H, Joint Tactical Radio System (JTRS), Future Combat System (FCS).	1321	1321	0	0

ARMY RDT&E BUDGET ITEM JUSTII	FICATION (R-2A Exhibit)		Februar	ry 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604805A - Command, Control, Co Systems - Eng Dev	Communications PROJECT 589					
Accomplishments/Planned Program (continued) Assess JTA-A interop for Army Systems. AD Hoc Assessments.		FY 2002 800	FY 2003 800	FY 2004 0	FY 2005 0		
Technically influence the development/implementation of Joint Technical Architecture (J	ΓA). JTA Version 5.0, JTA-A Version 7.0	811	815	0	0		
Maintain existing JTA-A Information Technical Standards.		623	695	1104	1142		
Investigate information technical standards for inclusion in JTA-A/JTA. Global Information MPEG 4, IPV6)	on Grid (GIG) Technologies (XML, JPEG 2000,	640	690	736	762		
Technically influence commercial and international standards forums. MANET (TBRPF),	IPV6	375	0	0	0		
Technically influence integration of ABCS architectural components.							
Establish Army focus for Commercial product integration into the Joint Architecture (e.g.	DCTS)	830	817	361	300		
Assess C4ISR architectural performance in Joint Experimentation.		570	519	402	402		

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

Totals

C. Acquisition Strategy: The efforts funded in the project are non-system specific, therefore no acquisition strategy is provided.

8159

8037

2964

3030

BUDGET ACTIVITY  5 - System Developi		Y RDT&E CO emonstration		PE NI	umber ani <b>4805A - C</b>	O TITLE	, Control	, Commı		ruary 200 s Systems	PROJEC	T
				- Er	ng Dev							
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
a . Government Systems Engineering Support	In House	ASEO, Fort Monmouth, NJ	7895	1723	1-4Q	1646	1-4Q	1728	1-4Q	Continue	12992	ı
b . Engineering Support	MIPR	ISEC, Fort Huachuca, AZ	1357	200	1Q	0		0		Continue	Continue	
c . Contract Systems Engineering Support	C & FPI	CSC, Eatontown, NJ	7002	1397	1-3Q	114	1Q	91	1Q	0	8604	(
d . Contract Systems Engineering Support	SS & FP	MITRE, Tinton Falls, NJ	5552	2220	1Q	0		0		0	7772	(
e . Contract Systems Engineering Support	C & FP	GTE/BBN, Cambridge, MA	960	0		0		0		0	960	(
f . Contract Systems Engineering Support	C & FP	Litton, Reading, MA	245	0		0		0		0	245	1
g . Contract Systems Engineering Support	C & FP	Battelle, Alexandria, VA	354	0		0		0		0	354	(
h . Contract Systems Engineering Support	C & FP	SRI, Menlo Park, CA	0	200	1-3Q	0		0		0	200	(
i . Contract Systems Engineering Support	C & FP	SRC, Atlanta, GA	612	165	2Q	0		0		0	777	(

BUDGET ACTIVITY 5 - System Developm	ent and De	monstration		060	umber ani <b>14805A - C</b> ng <b>Dev</b>		, Control	, Commu	ınications	s Systems	PROJEC <b>589</b>	Τ
I. Product Development	Contract	Performing Activity &	Total	FY 2003	FY 2003	FY 2004	FY 2004	FY 2005	FY 2005	Cost To	Total	Targe
(continued)	Method & Type	Location	PYs Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Cost	Value of Contract
j . Contract Systems Engineering Support	C & FP	HTPi, Shrewsbury, NJ	145	0	Zute	0	Dute	0	Duce	0	145	(
k . Contract Systems Engineering Support	C & FP	Gemini, Billerica, MA	137	0		0		0		0	137	(
1. Systems Engineering and Integration	MIPR	WTS - ISIO CECOM, Fort Monmouth, NJ	2341	560	1-4Q	86	1-4Q	90	1-4Q	Continue	3077	(
m . Contract Support	C & T&M -R	C3ISGI, Tinton Falls,	2830	512	1-3Q	471	1-3Q	432	1-3Q	0	4245	(
n . Contract Support	C & T&M	BAE, Tinton Falls, NJ	139	55	1Q	60	1Q	63	1Q	0	317	(
o . Contract Support	C & T&M	SAIC, Falls Church, VA	1511	173	2Q	240	2Q	256	2Q	0	2180	(
p . Contract Support	IPA Agreement	Rutgers University, New Brunswick, NJ	378	200	2Q	165	2Q	174	2Q	0	917	(
q . Contract Support	C & T&M	Datron, Simi Valley, CA	305	0		0		0		0	305	(
r . System Development and Integration	MIPR	PEO C3S, PM TOCS, Fort Monmouth, NJ	25	0		0		0		0	25	(
s . Contract Support	C & FP	CSC, Eatontown, NJ	1746	0		0		0		0	1746	(
t . Contract Support	C & FP	TRW, Domingues Hills, CA	1281	0		0		0		0	1281	(

BUDGET ACTIVITY  5 - System Developn		Y RDT&E CO		PE N	UMBER ANI <b>4805A - (</b>	O TITLE	Control	Commi		ruary 200	PROJEC	T
5 - System Developii	ient and D	emonstration			ng Dev	ommanu	, Control	, Commi	mcation	s system	8 309	
I. Product Development	Contract	Performing Activity &	Total	FY 2003	FY 2003	FY 2004	FY 2004	FY 2005	FY 2005	Cost To	Total	Targe
(continued)	Method & Type	Location	PYs Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Cost	Value o
u . Contract Support	C & FP	Lockheed Martin, Eatontown, NJ	545	0		0		0		0	545	(
v . Travel	In House	ASEO/ISIO CECOM, Fort Monmouth, NJ	1096	200	1-4Q	106	1-4Q	116	1-4Q	Continue	1518	(
w . Overhead	In House	ASEO/ISIO CECOM, Fort Monmouth, NJ	1422	432	1-4Q	76	1-2Q	80	1-2Q	0	2010	(
Subtotal:			37878	8037		2964		3030		Continue	Continue	(
II. Support Cost	Contract Method &	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete		Targe Value o Contrac
ii. Support Cost	Type											

BUDGET ACTIVITY		Y RDT&E CO		PE N	UMBER ANI	O TITLE	G . 4 . 1	C		ruary 200	PROJEC	Т
5 - System Developn	ient and De	emonstration		•	4805A - C 1g Dev	Command	, Control	, Commi	ınıcatıons	s Systems	589	
III. Test and Evaluation	Contract Met hod & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
Subtotal:			0	0		0		0		0	0	(
IV. Management Services	Contract Method &	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
	Type											
Subtotal:	Туре		0	0		0		0		0	0	(
Subtotal:	Туре		0	0		0		0		0	0	(

Schedule Profile De	etail (R-4a	Exhibi	t)				Februa	ry 2003		
BUDGET ACTIVITY 5 - System Development and Demonstration PE NUMBER AND TITLE 0604805A - Command, Control, - Eng Dev							munications Systems PROJECT 589			
Schedule Detail	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		
TA - JTA-A 7.5			2-4Q							
TA - JTA-A 7.0		2-4Q								
TA - JTA 5.0	4Q	1-2Q								
TA - JTA 6.0		4Q	1-2Q							
SA - 2DFSA (3BDE/1CAV)		1Q								
BCT 3 - (172nd Inf Bde) S=STRYKER		2Q								
Corps Warfighter		1Q								
75 Ranger Reg		1Q								
AECP/Homeland Security Support		2Q								
Joint /HLS Architecture Development		2Q								
04 Joint/HLS Architecture Support		2Q								
Juice 03		4Q								

ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	A Exhi	bit)	Fe	ebruary 2	003	
BUDGET ACTIVITY 5 - System Development and Demonstration		(	e number . <b>)604805A</b> S <b>ystems -</b>	- Comma		rol, Comi	municatio	ons	PROJECT <b>591</b>	
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
591 WPN SYS TECH ARCH (WSTA)	2322	2268	590	590	588	588	589	588	0	10484

A. Mission Description and Budget Item Justification: Weapons Systems Technical Architecture (WSTA): The Joint Technical Architecture (JTA) and JTA-Army (JTA-A) provides the "building code" foundation for designing, building, fielding, and supporting interoperable systems in an expedient and cost-effective manner. The WSTA identifies new and emerging standards for integration of new technologies into new and existing Army Weapons Systems in support of Army transformation efforts. WSTA defines JTA and JTA-A Weapon Systems domain specific mandatory and emerging standards which are required for these embedded, real-time computing systems use of electronic data and information. It has and will continue to refine the Common Operation Environment (COE) concept insuring that the Army's hard-real-time and embedded requirements for systems are acknowledged. These endeavors enable the realization of the Transformation Campaign Plan (TCP) goals by providing the means by which all three axes of the TCP can be achieved.

Accomplishments/Planned Program	FY 2002	FY 2003	FY 2004	FY 2005
Update the WSTA Framework	233	0	0	0
Interface Standards Analysis for WS Core Operating Environment (COE)	300	0	0	0
Define DII COE to WS COE Interfaces	275	0	0	0
Develop and Test Real-Time Computing WS COE API	603	1410	0	0
Develop and Test Real-Time WS COE Mapping Services API	300	89	0	0
Modify and Test Embedded Battle Command (EBC) Software in WS COE	0	0	0	0
Develop, Test, and Certify a WSTA Security Architecture for WS COE	0	0	0	0
Support WS COE Family of API's Transistion to Industry and COTS	0	258	247	244
Develop updates to MIL-STD-2525B (Symbology)	80	89	0	0
Research, Define, and Input Unmanned WS Standards in JTA/JTA-A	214	89	0	0
Maintain and support update of WS Domain of the JTA/JTA-A	156	164	171	170
Engineering and Program Development Infrastructure	161	169	172	176
Totals	2322	2268	590	590

ARMY RDT&E BUDGET ITEM JUSTI	FICATION (R-2A Exhibit)	February 2003
BUDGET ACTIVITY  5 - System Development and Demonstration	PE NUMBER AND TITLE 0604805A - Command, Control, Com Systems - Eng Dev	PROJECT
B. Other Program Funding Summary: Not applicable for this item.		
This activity receives an intermediate level of support from participation by Pro This support significantly supplements the overall WSTA activity at an estimat		
C. Acquisition Strategy: The efforts funded in this project are non-system spec contractual efforts/services are obtained from existing competitive Omnibus supports.		d certification across multiple systems. The

	ARM	Y RDT&E CO	ST AN	IALY	SIS(R-3	)			Feb	ruary 200	3	
BUDGET ACTIVITY 5 - System Developn	5 - System Development and Demonstration					d title C <b>ommand</b>	l, Control	, Comm	unication	PROJEC <b>591</b>	Т	
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 200 Co		FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. USAISSC	MIPR	Fort Belvoir, VA	128	6	7 2Q	69	2Q	70	2Q	Continue	334	(
b. TACOM-ARDEC	MIPR	Picatinny Arsenal, NJ	1598	75	5 1-4Q	163	1-4Q	162	1-4Q	Continue	2678	(
c . TACOM-TARDEC	MIPR	Warren, MI	2754	64	6 1-4Q	144	1-4Q	143	1-4Q	Continue	3687	C
d. GSA	MIPR	Huntsville, AL	1479	8	9 1-4Q	0		0		0	1568	C
e . AMCOM-AMRDEC	MIPR	Redstone Arsenal, AL	207	52	3 1-4Q	167	1-4Q	169	1-4Q	Continue	1066	C
f . CSC (Nichols Research Corp)	C/CPFF	Huntsville, AL	171		0	0		0		0	171	C
Subtotal:			6337	208	0	543		544		Continue	9504	C

BUDGET ACTIVITY 5 - System Developm		Y RDT&E CO		PE <b>0</b>	NUMBER AN	D TITLE	l, Control	, Commu	February 2003 PROJECT nunications Systems 591			
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 200 Co		FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value of Contrac
Subtotal:			0		0	0		0		0	0	(
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 200 Co		FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value of Contrac
Subtotal:			0		0	0		0		0	0	(
IV. Management Services	Contract Method &	Performing Activity &	Total PYs Cost	FY 200		FY 2004	FY 2004	FY 2005	FY 2005	Cost To	Total Cost	Targe Value o
a . AMCOM -AMRDEC	Type In House	Location  Redstone Arsenal, AL	683	29 29	Date	Cost 57	Award Date 1-4Q	Cost 56	Award Date 1-4Q	Complete Continue	1088	Continue
a. AMCOM-AMRDEC	in House	Redstone Arsenai, AL	083		72 1-40	31	1-4Q	30	1-4Q	Continue	1000	Continue
Subtotal:			683	29	)2	57		56		Continue	1088	Continue
			7020	237	12	600		600		Continue	10592	Continue

ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	A Exhi	bit)	February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration								PROJECT <b>615</b>		
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
615 JTRS-GROUND DOMAIN INTEGRATION	88208	60688	206137	149510	93403	58143	25038	6501	0	715075

A. Mission Description and Budget Item Justification: Project D615 supports the Joint Tactical Radio System (JTRS)- Cluster 1 RDTE development effort. The Cluster 1 JTRS-Army RDTE program will enable the Army to acquire and field a family of affordable, scaleable, high capacity, interoperable radio sets based on a common JTRS Software Communications Architecture (SCA). The JTRS is a key enabler of the Army Transformation and will provide critical communications capabilities across the spectrum of operations in a Joint environment. The Cluster 1 JTRS is a Joint program encompassing the specific requirements of the JTRS Joint Program Office (JPO), US Army Ground Vehicular and Rotary Wing Aircraft, US Air Force Tactical Control Party (TACP), and US Marine Corps applications. This project supports RDT&E efforts for the JTRS Cluster 1 program while the Services provide funding for their unique requirements. The Army will initiate the development and design of an embedded, dismounted form factor to support Future Combat System and Operation Enduring Freedom requirements. This cluster is currently identified as Cluster X. These systems support the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

Accomplishments/Planned Program	FY 2002	FY 2003	FY 2004	FY 2005
JTRS Product Development (JTRS Step 2C Contract)	1813	0	0	0
JTRS Product Development (JTRS Cluster 1 Vehicular and Airborne Hardware Design and Development of Prototypes and technical	67650	34484	140009	57485
engineering support)				
JTRS Product Development (JTRS Cluster procurement of up to 10 Vehicular and up to 14 Airborne pre-engineering models for Early	0	9999	0	0
Operational Assessment testing)				
JTRS Product Development (Cluster 1 Platform Installation Kit Development)	0	0	5653	5748
JTRS Test and Evaluation (JTRS EPG Testbed and Test Planning/Test Support/Electronic and Information Warfare Test and	1303	2328	8053	19721
Evaluation/Labor)				
JTRS Management Services (JTRS Program Management Office Support)	9047	9083	15900	10568
JTRS Support Costs (Systems Engineering and Technical Support)	3854	4194	3321	3413
NTDRS Support Costs (NTDRS Testbed and Technical Support)	4541	600	0	0
Initiate the development and design of an embeddable, dismountable form factor currently identified as Cluster X	0	0	33201	0
Continue the development and design of an embeddable, dismountable form factor currently identified as Cluster X.	0	0	0	52575
Totals	88208	60688	206137	149510

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)  BUDGET ACTIVITY 5 - System Development and Demonstration  PE NUMBER AND TITLE 0604805A - Command, Control, Communications Systems - Eng Dev  PROJECT 615												
B. Other Program Funding Summary	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost		
OPA, Army, ADDS, BU1400/EPLRS/JTRS*	0	0	0	136552	119146	132272	124542	123782	Continuing	Continuing		
RDTE, JTRS, 0604280A/D162**	72742	62921	134693	91583	62826	55945	28849	27347	Continuing	Continuing		
RDTE, PEO AVN, JTRS A-Kit PE 64201/C97***	7040	30483	60650	41615	29052	23491	31348	24374	Continuing	Continuing		
APA, PEO AVN, JTRS A-Kit Procurement AA0702***	0	1906	22674	46498	62121	60544	66014	Continuing	Continuing			

Note: \*The BU1400 SSN is a shared program line. Above reflects JTRS Cluster 1 portion of funding only. \*\* Funding represents all Clusters. \*\*\*Other Army Program funding is JTRS Cluster 1 only.

C. Acquisition Strategy: Joint Tactical Radio System (JTRS): Project D615 supports JTRS Cluster 1 Army Software Development and Demonstration efforts and JTRS Step 2C. In FY03, development and testing efforts for the Step 2C program will be completed upon final delivery of 40 JTRS Step 2C Engineering Development Models. The JTRS Cluster 1 supports an evolutionary acquisition strategy. The JTRS Joint Program Office (JPO) is responsible for common core activities including developing, maintaining, and evolving the JTRS open standards architecture, providing re-coded versions of legacy waveforms to operate on JTRS architecture compliant hardware, and provides a certifying infrastructure for hardware/software compliance. After a successful Milestone B Decision in 3QFY02, the Cluster 1 development effort was awarded to develop multi-channel ground and airborne configurations. Cluster 1 is the first group of requirements to be developed and procured under the JTRS domain concept. The Army PM TRCS is the lead for the Cluster 1 effort. Under Cluster 1, a software reprogrammable radio providing the warfighter with a multi-band and multi-mode capability, networkable radio system which provides simultaneious voice, data and video communications to increase interoperability, flexibility and adaptability in support of varied mission requirements will be developed. In June 2002, a cost plus award fee contract was competitively awarded to a Prime Systems Engineering Contractor (The Boeing Company) who is responsible for developing and/or acquiring numerous Sofware Communications Architecture compliant waveforms, defining common form-fit-function configurations for vehicular and aviation versions of the JTRS hardware, and successfully porting the waveforms to JTRS hardware produced by two different developers. The FY04-05 budget supports continued development and support of the development Test (DT)/Operational Test (OT) and Multi-Service Operational Test and Evaluation (MOT&E) testing for Cluster 1. The Army will initiate ano

BUDGET ACTIVITY 5 - System Developm	ent and De	monstration		060	IS(R-3) UMBER ANI 14805A - C ng Dev	) TITLE	, Commı	February 2003 PROJECT nunications Systems 615				
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete		Targe Value of Contrac
a . NTDRS CPIF/T&M/FFP Efforts*	C/T&M/CPI F/FFP	ITT, Fort. Wayne, IN	9715	0		0		0		0	9715	8968
b . NTDRS (Ancillary Equip, NMT, & Misc)	Misc	Misc	430	0		0		0		0	430	325
c . JTRS Army Step 2C Hardware Development and Cost of Prototypes	C/OTA/T& M	BAE Systems, Wayne, NJ	6876	0		0		0		0	6876	(
d . JTRS Step 2C Anc Equip/Log & Engrg	Various	Various	616	0		0		0		0	616	(
e . JTRS Cluster 1 GFE	Various	Various	22	0		0		0		0	22	(
f . JTRS Cluster 1 (EPLRS Data Rights)	FFP	Raytheon, Fullerton, CA	5000	0		0		0		0	5000	(
g . JTRS Cluster 1 Development	CPAF	BOEING, Annaheim, CA	62086	43459	1-3Q	138709	1-3Q	56335	1-3Q	Continue	Continue	(
h . JTRS Cluster 1 (Installation Kit)	TBD	TBD	0	0		5653	1-3Q	5748	1-3Q	Continue	Continue	(
i . Tactical Internet Integration	T&M	ITT, Ft. Wayne,IN	1792	0		0		0		0	1792	(

BUDGET ACTIVITY		Y RDT&E CO	ST AN	PE N	JMBER ANI	O TITLE			February 2003 PROJECT					
5 - System Developm	ent and Do	emonstration		0604805A - Command, Control, Communications Systems 615 - Eng Dev										
I. Product Development	Contract	Performing Activity &	Total	FY 2003	FY 2003	FY 2004	FY 2004	FY 2005	FY 2005	Cost To	Total	Target		
(continued)	Method & Type	Location	PYs Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Cost	Value of Contract		
j . JTRS Development - System Engrg Spt	various	MISC	1596	1024	1-4Q	1300	1-4Q	1150	1-4Q	Continue	Continue	(		
k . ABCS System Engineering and Integration Efforts	Various	MISC	1227	0		0		0		0	1227	(		
1. Cluster X Design and Development	Various	TBD	0	0		33201	2-3Q	52575	1-4Q	Continue	Continue	C		
			90260	44492		1700.62		115808		Continuo	Continue	9293		
Subtotal:			89360	44483		178863		113606		Continue	Continue	9293		
	rior to FY 2000	were funded in PE 0603713				1/8863		113608		Continue	Continue	9293		
Remarks: *NTDRS efforts pi	Contract Method &	Performing Activity & Location			FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total	Targe Value of		
Remarks: *NTDRS efforts programmer of the second se	Contract	Performing Activity &	A, Proj D37 Total	0 FY 2003	Award	FY 2004	Award	FY 2005	Award	Cost To	Total Cost	Target Value of Contrac		
Remarks: *NTDRS efforts pi II. Support Cost a. *NTDRS Test/Training/Logistics/Tech nical /Exercise Support	Contract Method & Type	Performing Activity & Location	A, Proj D37  Total PYs Cost  7154	0 FY 2003 Cost	Award Date	FY 2004 Cost	Award	FY 2005 Cost	Award	Cost To Complete	Total Cost 7754	Target Value of Contract		
Subtotal:  Remarks: *NTDRS efforts proceed in the second i	Contract Method & Type Various	Performing Activity & Location  Various	A, Proj D37  Total PYs Cost  7154	0 FY 2003 Cost 600	Award Date	FY 2004 Cost	Award	FY 2005 Cost 0	Award	Cost To Complete 0	Total Cost 7754	Target Value of Contract		

### **ARMY RDT&E COST ANALYSIS(R-3)** February 2003 PE NUMBER AND TITLE PROJECT BUDGET ACTIVITY **5 - System Development and Demonstration** 0604805A - Command, Control, Communications Systems 615 - Eng Dev II. Support Cost FY 2004 Contract Performing Activity & Total FY 2003 FY 2003 FY 2004 FY 2005 FY 2005 Cost To Total Target PYs Cost Value of (continued) Method & Location Cost Award Cost Award Cost Award Complete Cost Contract Type Date Date Date 13495 4794 3413 0 3321 Continue Continue Subtotal: Remarks: \*NTDRS efforts prior to FY 2000 were funded in PE 0603713A, Proj D370 FY 2003 FY 2003 FY 2004 FY 2004 FY 2005 FY 2005 III. Test and Evaluation Contract Performing Activity & Total Cost To Total Target Method & Location PYs Cost Cost Award Cost Complete Cost Value of Cost Award Award Date Contract Type Date Date a. \*NTDRS Field Testing MIPR EPG. Fort Huachuca. 95 0 0 95 0 AZb. JTRS Step 2C EPG Qual MIPR EPG. Fort Huachuca. 2450 0 0 2450 0 Testing/Customer Testing AZc. JTRS EPG Testbed and MIPR EPG. Fort Huachuca. 1484 800 10 1200 10 1200 10 Continue Continue 0 **Test Planning** AZd . JTRS Modeling & MIPR USAIC 350 556 1-20 350 1-20 350 1-20 Continue Continue 0 Simulation e . JTRS Test Inhouse Spt & Various Various 747 556 1-3Q 1521 1-3Q 1232 1-30 Continue Continue 0 Govt Activities f. JTRS EOA/DTOT Test 0 416 1-3Q 4982 1-3Q 16939 1-30 Continue Continue 0 Activity

	ARM	Y RDT&E CO	ST AN	ALYS	IS(R-3)	)			Febr	uary 200	03		
BUDGET ACTIVITY 5 - System Developm	ent and De	emonstration		060	JMBER ANI <b>4805A - C</b> 1 <b>g Dev</b>		, Control	, Commu	PROJECT nunications Systems 615				
III. Test and Evaluation (continued)  Subtotal:	Contract Method & Type	Performing Activity & Location	Total PYs Cost 5126	FY 2003 Cost 2328	FY 2003 Award Date	FY 2004 Cost 8053	FY 2004 Award Date	FY 2005 Cost 19721	FY 2005 Award Date	Cost To Complete Continue		Targe Value o Contrac	
Remarks: *NTDRS efforts pr	rior to FY 2000	were funded in PE 0603713	3A, Proj D37	0	·			·					
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete		Target Value of Contrac	
a . *NTDRS Program Support	MIPR	Fort Monmouth, NJ	655	0		0		0		0	655	(	
b . JTRS Business/Engineering Management	Various	Various	8180	4727	1-2Q	3569	1-4Q	3163	1-4Q	Continue	Continue	(	
c . Project Management Office Support	Various	Various	3729	3646	1-3Q	11356	1-3Q	6410	1-3Q	Continue	Continue	(	
d . JTRS MITRE Support	PWD	MITRE Corp., Mclean, VA	1407	710	1Q	975	1Q	995	1Q	Continue	Continue	(	
Subtotal:			13971	9083		15900		10568		Continue	Continue	(	
Remarks: *NTDRS efforts pr	rior to FY 2000	were funded in PE 0603713	3A, Proj D37	0									
Project Total Cost:			121952	60688		206137		149510		Continue	Continue	9293	

Schedule Profile De	etail (R-4a	Exhibi	t)		February 2003						
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604805A - Command, Control, Communications Systems - Eng Dev									
Schedule Detail	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009			
NTDRS CTSF ABCS Software Updates	1-4Q										
NTDRS Participation in Millennium Challenge 02	4Q										
NTDRS Deployment to Brigade Combat Team 2	3-4Q										
NTDRS Participation NTC/01-06/02-05/02-08/03-03/03- 05/03-08	2-4Q	1-4Q									
NTDRS Participation FBCB2 Field Test IV and V	1-4Q										
NTDRS Participation in FBCB2 IOT&E	2Q										
JTRS-Army Milestone B	3Q										
JTRS-Army Cluster 1 Ground & Airborne SDD Award	3Q										
JTRS-Army Step 2C EPG Testing/Validation	4Q	1Q									
JTRS-Early Operational Assessment			4Q	1Q							
JTRS Cluster 1 OIPT Approval to Exercise Option 1				2Q							
JTRS-Army Cluster 1 LRIP Option 1 Contract Award				2Q							
JTRS-Army Cluster 1 Ground & Airborne DT/OT				3-4Q	1Q						
JTRS Cluster 1 Milestone C					2Q						
JTRS-Army Cluster 1 Ground & Airborne MOT&E					4Q						
JTRS-Army Cluster 1 LRIP Option 2 Award					2Q						
LRIP Option 1 Deliveries Begin					3-4Q	1-2Q					
Full Rate Production In Process Review						2Q					
Full Rate Production Contract Award						2Q					
LRIP Option 2 Deliveries Begin						3-4Q	1-2Q				
Full Rate Production Deliveries							1-4Q	1-4Q			
Product Improvements							1-4Q	1-4Q			
Cluster X Milestone B			2Q								
Cluster X Contract Award			2-3Q								

	ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	A Exhi	February 2003				
	ACTIVITY em Development and Demonstration	(	e number 0604805A Systems -	- Comma		rol, Com	municatio	ons	PROJECT <b>629</b>		
	COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
629	TACTICAL COMMUNICATIONS SYSTEM - ENGINEERING DEVEL	8564	13269	2388	2458	2623	2768	0	0	0	45872

**A. Mission Description and Budget Item Justification:** The Army Transformation and the goals of the Objective Force will be met by introducing the latest in information and network protocol technologies within current and future combat systems.

The Protocol for Investigation Next Generation (PING) Program's objectives are to identify network and communication architecture gaps, validate emerging network technologies, assess proposed network solutions, ensure system of systems network communications interoperability among tactical and sustaining Army assets, as well as, with Joint, Interagency, and Multinational systems, and verify compliance to Army Knowledge Enterprise Architecture (AKEA) System and Technical Views that will make possible the Army's Objective Force. The PING analyze emerging commercial network communication protocols assessing their benefits and suitability to satisfy Army requirements, mitigate risks associated with implementing them across the AKEA and future combat systems, and to assist system developers in incorporating emerging technologies across Army communication systems accelerating Army Transformation goals.

The PING Program is the Army's principal organization evaluating and testing the Next Generation of Internet Protocol, Version 6, or IPv6. While IPv6 is being implemented globally, the PING will determine a coordinated approach for Army adaptation of IPv6 that will meet current network communication requirements, maintain interoperability across Army, Joint, Interagency, and Multinational systems, and provide the enhancements necessary to make the Objective Force possible.

The PING program supports the Army Chief Information Office (CIO/G6), the Objective Force Task Force (OFTF), and maintain close cooperation with the Army System Engineering Office (ASEO); helping identify technologies suitable for consideration in future versions of the Joint Technical Architecture - Army (JTA-A), and various PEOs/PMs by participating at Working Groups involved with System Views (SVs) and Technical Views (TVs). The PING will analyze or develop SVs and TVs.

The PING Program's mission is critical for mitigating risks associated in the evolution and maturation of communications networks within the AKEA and for ensuring a cost effective Legacy to Objective transition path of the Transformation Campaign Plan.

BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE  0604805A - Command, Control, Co Systems - Eng Dev	PROJECT <b>629</b>							
Accomplishments/Planned Program -Support the Army's Chief Information Office (CIO/G6) Interface Control Working Group that reflect latest technology advances and meet current Army requirements Participate at Future Combat Systems (FCS), Wideband Networking Waveform, and WI and connectivity within Unit of Actions (UA) and Units of Equipment (UE) Support the Army's CIO/G6 by preparing and coordinating an Army IPv6 Implementation developers as they incorporate IPv6 based solutions for war fighter requirements Participate in the OSD CIO WG identifying IPv6 Army requirements and delineating a E-Participate in the Defense Information Systems Agency (DISA) WG identifying and coordinate in the Defense Information Systems Agency (DISA) WG identifying and coordinate in the Defense Information Systems Agency (DISA) WG identifying and coordinate in the Defense Information Systems Agency (DISA) WG identifying and coordinate in the Defense Information Systems Agency (DISA) WG identifying and coordinate in the Defense Information Systems Agency (DISA) WG identifying and coordinate in the Defense Information Systems Agency (DISA) WG identifying and coordinate in the Defense Information Systems Agency (DISA) WG identifying and coordinate in the Defense Information Systems Agency (DISA) WG identifying and coordinate in the Defense Information Systems Agency (DISA) WG identifying and coordinate in the Defense Information Systems Agency (DISA) WG identifying and Coordinate Information Agency Informat	N-T Working Groups defining network interfaces on Plan that will minimize risks to system DoD IPv6 Implementation Plan. Ordinating Joint solutions to IPv6 implementation mes and address space management, Security, etc. all Army agencies with respect to IPv6 and other espect to capabilities, maturity, and limitations. adth management, dynamic quality of services, mologies and protocols. Test bed resources will hitectures. Facilities will verify interoperability existence mechanisms.	FY 2002 2619	FY 2003 1959	FY 2004 2388	FY 2005 2458				
Applied Communications and Information Networking (ACIN)FY02:  - Develop wireless identification tags that can identify friend or foe.  - Develop and evaluate broadband wide bandgap 50 watt amplifier which addresses require to Demonstrate data rate and security enhancements, to include authentication, authorization networked battlefield sensor system.  - Develop transmit Ka band antenna. Integrate and demonstrate with receive antenna deverage workshops toward customer specific concerns regarding the impact of technology. Evaluate new WLAN standards. Assess 802.11a 54 Mbps and HiperLAN. Conduct multi-Develp software to allow Personal Digital Assistant (PDA) to communicate securely.	eloped in Phase 1.  y on emerging architecture.	5945	5945 0		0				

ARMY RDT&E BUDGET ITEM JUSTIF	February 2003					
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE  0604805A - Command, Control, Co  Systems - Eng Dev	mmunic	ations	PROJECT 629		
Accomplishments/Planned Program (continued) Applied Communications and Information Networking (ACIN) FY03: - Evaluate high-dynamic range low-noise amplifiers, mixers, and local oscillators for receiv range Characterize the state-of-the-practice of the implementation of COTS Ultra-wideband (UV evaluate the performance and the potential performance of UWB in DoD applications Prototype a Software Defined Radio from commercially available hardware and software operformance requirements Allow development of interoperable and secure mobile agents incorporated in PDA platfor applications Develop and demonstrate On-The-Move SATCOM ground terminal for PM MILSATCOM Develop a prototype of an ad-hoc deployable communication system, based on small, low-to enable communications in critical situations in which there are particularly challenging not a Development of a unique Radio Frequency Identification (RFID) system that unambiguous This will be accomplished by integrating a high quality fingerprint imaging and authentications.	WB) products and of UWB technologies, and components while meeting the key JTRS ms and suitable for DoD commercial M's Ka band Satellite (KaSAT) program. cost voice and data communication relay nodes, on line of sight links. sly identifies a user at a reasonable distance.	FY 2002 0	FY 2003 11310	FY 2004 0	FY 2005 0	
Totals		8564	13269	2388	2458	

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

C. Acquisition Strategy: With this program the Army will benefit by achieving the following objectivess:

- Identify network and communication gaps among legacy, interim, and future Army network architectures before they are accepted and deployed.
- Ensure System of Systems network protocol interoperability prior to finalizing system developments.
- Utilize technology proficiency and lessons learned to mitigate risks associated with deploying emerging technologies across the AEA.
- Initiate a comprehensive standardized approach to transition Army systems and architectures from the current IPv4 based network environment to a modern and dynamic IPv6 version.
- Reduce system development costs by leveraging from a centralized and well-coordinated program while introducing emerging protocols, such as IPv6, within interim and future communication systems and architectures.

	ARM	Y RDT&E CO	ST AN	IALYS	SIS(R-3	)			Febi	ruary 200	3	
PE NUMBER AND TITLE  5 - System Development and Demonstration  PE NUMBER AND TITLE  0604805A - Command, Control, Communications Systems  - Eng Dev										PROJEC 5 <b>629</b>	Т	
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
a . Systems Engineering	In House	CECOM RDEC, Fort Monmouth, NJ	5110	2186	1-4Q	2388		2458		Continue	12142	(
b. 1)	C-T&M	MITRE, Eatontown, NJ	1226	480	1-4Q	0		0		Continue	1706	(
c. 2)	C-T&M PSLA	SRI, Eatontown, NJ	840	420	1-4Q	0		0		Continue	1260	(
d. 3)	C-T&M	Janus Research Group, Abbling, GA	0	183	1-4Q	0		0		0	183	(
e. ACIN	OT (Other Transactions)	Drexel Univ, Philadelphia, Pa	17388	10000		0		0		0	27388	(
Subtotal	:		24564	13269		2388		2458		Continue	42679	(

BUDGET ACTIVITY 5 - System Developmer		Y RDT&E CO	OST AN	P1	YSIS(R-3 E NUMBER AN 0604805A - C Eng Dev	D TITLE	, Control	, Comm		ruary 200 s Systems	PROJEC	Т
11	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 20 C	03 FY 2003 ost Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date		Total Cost	Target Value of Contract
Subtotal:			0		0	0		0		0	0	(
I .	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 20 C	03 FY 2003 ost Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contrac
Subtotal:			0		0	0		0		0	0	C
IV. Management Services	Contract Method &	Performing Activity & Location	Total PYs Cost	FY 20 C	03 FY 2003 ost Award	FY 2004 Cost	FY 2004 Award	FY 2005 Cost	FY 2005 Award	Cost To Complete	Total Cost	Target Value of
	Type		0		Date 0	0	Date	0	Date	0	0	Contrac
Subtotal: Remarks: Not Applicable												
Project Total Cost:			24564	132	69	2388		2458		Continue	42679	(

Schedule Profile Detai		February 2003							
									ROJECT <b>629</b>
Schedule Detail	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	
Evaluate Architecture Issues Assessment and Analysis of Technology Impacts	1-4Q 1-4O	1-4Q 1-4O	1-4Q 1-4O	1-4Q 1-4O					
Policy and Implementation Plan Development	1-4Q	1-4Q	1-4Q	1-4Q					