ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY	PE NUMBER AND TITLE
5 - System Development and Demonstration	**0604321A - ALL SOURCE ANALYSIS SYSTEM**

	COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
	Total Program Element (PE) Cost	7023	16411	13107	Continuing	Continuing
B19	ASAS EVOLUTIONARY ACQ (MIP)	3289	3399			6688
B41	CI/HUMINT Software Products (MIP)	3406	1716	3132	Continuing	Continuing
B44	ASAS TADSS (MIP)	201	204			405
B49	CHIMS TADSS (MIP)	127	128			255
B51	SEQUOYAH - FOREIGN LANGUAGE TRANSLATION SYSTEM		10964	9975	Continuing	Continuing

A. Mission Description and Budget Item Justification: The All Source Analysis System (ASAS) provides US Army commanders at all echelons from battalion to Army Service Component Command (ASCC) with automated support to the management and planning, processing and analysis, and dissemination of intelligence, counterintelligence, and electronic warfare. ASAS provides the means to enhance the commander's timely and comprehensive understanding of enemy deployments, capabilities, and potential courses of action. The system uses standard joint and Army protocols and message formats to interface with selected National, joint, theater, and tactical intelligence, surveillance, and reconnaissance systems and preprocessors and Army, joint, and coalition battle command systems. The ASAS Family of Systems is migrating into the Distributed Common Ground System-Army (DCGS-A) program and Army is using it as the initial platform to provide accelerated DCGS-A capabilities to the force. The initial DCGS-A Enabled ASAS systems began fielding in 4QFY07 and will continue through FY10. This fielding assures the availability of an initial, base DCGS-A capability in Active, National Guard, and Reserve units battalion to ASCC. The DCGS-A enabled ASAS product set currently includes: DCGS-A enabled ASAS-Light (ASAS-L) laptops; DCGS-A enabled ASAS Intelligence Fusion Station (IFS) desktop computers; the shelterized, High Mobility Multipurpose Wheeled Vehicle (HMMWV)-mounted DCGS-A enabled ASAS Analysis Control Team-Enclave (ACT-E); and various DCGS-A enabled ASAS Analysis and Control Element (ACE) configurations at Special Forces Group, Armored Cavalry Regiment, Division, Corps, and Military Intelligence Brigade.

The Counterintelligence and Human Intelligence Automated Reporting and Collection Systems (CHARCS), formally known as Counterintelligence and Human Intelligence (CI/HUMINT) Information Management System (CHIMS), provides the Army automation support for collection and reporting of CI/HUMINT data to satisfy tactical human intelligence requirements. CHARCS functionality provides support for CI/HUMINT information collection, reporting, investigation, interrogation, biometrics, document exploitation operations. The CHARCS architecture extends from the individual Tactical HUMINT team soldier or CI agent to Theater and National intelligence organizations. CHARCS provides systems to all Army Commands (ARCOM), Special Forces, Reserves, National Guard, Stryker Brigade Combat Teams (SBCT), and the training base. CHARCS systems produce and disseminate messages and reports through an array of communications systems including: combat Net Radio, Single Channel Ground and Airborne Radio System (SINCGARS), Portable Radio Communications(PRC)-150 Secure Telephone Equipment (STE), Secure Telephone Unit (STU), satellite, and other organic communications devices. The CHARCS systems reports collected intelligence directly to Operational Management Teams (OMT) of U.S. Army intelligence units. Future development efforts will provide CI agents and HUMINT collectors improved collection, reporting, biometrics, language, communications and mission management capabilities.

The Sequoyah - Foreign Language Translation System (S-FLTS) program is to develop, acquire, field and sustain the warfighter with a basic automated foreign speech and text

translation capability into Army systems of record, to augment and compliment limited human linguistic resources. These stand-alone and integrated automated translation capabilities will be applicable across three different system configurations; a hand-held/wearable portable device, a lap-top or mobile device, and in a networked system. The software modules will translate English into a prioritized listing of languages in a prioritized collection of domains. Sequoyah will be interoperable with commercial off the shelf (COTS), or government off the shelf (GOTS) automation equipment to include the Net Enabled Command Capability (NECC), the Distributed Common Ground System (DCGS), Battle Command System (BCS), Soldier as a System (SaaS) Ground (GSS), Mounted (MSS) and Air (AirSS) Soldier Systems, Future Combat System (FCS), DoD Intelligence Information Systems (DoDIIS) and any associated devices and peripherals.

FY 2010/2011 funding continues the development of improved counterintelligence and human intelligence collection and reporting capabilities under CHARCS.

FY 2010/2011 funds development of Foreign Language Translation Systems.

ASAS does not have an RDT&E funding line after FY 2009.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY	PE NUMBER AND TITLE
5 - System Development and Demonstration	**0604321A - ALL SOURCE ANALYSIS SYSTEM**

B. Program Change Summary	FY 2008	FY 2009	FY 2010
Previous President's Budget (FY 2009)	5384	16465	13017
Current BES/President's Budget (FY 2010)	7023	16411	13107
Total Adjustments	1639	-54	90
Congressional Program Reductions		-54	
Congressional Rescissions			
Congressional Increases			
Reprogrammings	1639		
SBIR/STTR Transfer			
Adjustments to Budget Years			90

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
5 - System Development and Demonstration	**0604321A - ALL SOURCE ANALYSIS SYSTEM**	**B19**

COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
B19 ASAS EVOLUTIONARY ACQ (MIP)	3289	3399			6688

A. Mission Description and Budget Item Justification: The All Source Analysis System (ASAS) provides US Army commanders at all echelons from battalion to Army Service Component Command with automated support to the management and planning, processing and analysis, and dissemination of intelligence, counterintelligence, and electronic warfare. ASAS provides the means to enhance the commander's timely and comprehensive understanding of enemy deployments, capabilities, and potential courses of action. The system uses standard joint and Army protocols and message formats to interface with selected national, joint, theater, and tactical intelligence, surveillance, and reconnaissance systems and preprocessors and Army, joint, and coalition battle command systems. The ASAS product set currently includes: ASAS-Light (L) laptops, ASAS Intelligence Fusion Station (IFS) desktop computers, the shelterized, High Mobility Multipurpose Wheeled Vehicle (HMMWV)-mounted Analysis and Control Team-Enclave (ACT-E), and various Analysis and Control Element (ACE) configurations at Special Forces Group, Armored Cavalry Regiment, Division, Corps, and Military Intelligence Brigade. Through FY09 these ASAS systems will be configured to operate as integral components of the Army's Distributed Common Ground System-Army (DCGS-A) capability.

The Map-Human Terrain (MAP-HT)Toolkit is responsible for addressing the military problem of there existing a limited Joint, Service, or Interagency capability (organization, methods, tools) to effectively collect/consolidate, visualize, and understand open source socio-cultural information to assist Commanders in understanding the human terrain in which they operate. The Map-Human Terrain (MAP-HT)Toolkit will provide a joint common relevant picture of the human terrain for use by tactical elements, operational commanders, theatre planners, interagency organizations, and coalition partners. The Map-Human Terrain (MAP-HT) Toolkit will provide the capability to establish direct cultural support to Brigade Combat Team/Marine Expeditionary Force commander and interagency end-users, provide a means for human terrain data collection and dissemination, and provide human terrain baseline information and toolkit.

FY09 provides funding to reconfigure ASAS systems into an integral component of the Army's DCGS-A capability, resolve high priority Software Anomaly Reports (SAR); conduct interoperability development and test; and comply with DOD mandates and provide Defense Information Infrastructure (DII) Common Operating Environment (COE)/Net Centric Enterprise Services (NCES) maintenance for the ASAS family of systems.

Accomplishments/Planned Program:	FY 2008	FY 2009	FY 2010
Resolve high priority Software Anomaly Reports (SARs); conduct interoperability development and test; and comply with DOD mandates and provide Defense Information Infrastructure (DII) Common Operating Environment (COE)/Network Centric Enterprise Services (NCES) maintenance for ASAS Light, IFS, Analysis Control Team-Enclave (ACT-E), and Analysis and Control Element (ACE).	3289	3399	
Total	3289	3399	

B. Other Program Funding Summary	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
OPA (K28801) ASAS Modules	147149	79361	9901		236411

Comment:

C. Acquisition Strategy The ASAS development program builds upon and expands the capabilities and functionality developed and produced in the ASAS Block I System including conversion to the Common Hardware Systems (CHS) and the Defense Information Infrastructure Common Operating Environment/Network Centric Enterprise Services (DII COE/NCES) and Modernized Integrated Database (MIDB). ASAS is being developed using a block upgrade evolutionary acquisition strategy.

- ASAS Block I: Fielded ruggedized, tactical systems at Active Component (AC) corps, divisions, and the institutional training base.

- ASAS-Extended: Provided the rest of the AC and National Guard enhanced separate brigades with an interim ASAS capability running Block I software on commercial hardware.

- ASAS Block II: Uses common hardware and software, built on the DII COE/NCES standard. Provides open architecture, assured interoperability, and enhanced capability with room for growth. ASAS Light is the key intelligence provider for Army Battle Commmand Systems (ABCS).

- Army Software Blocking: ASAS Light synchronizes with Software Block 1 and 2 execution phases.

The program emphasizes multiple evolutionary deliveries, with incremental enhancements of ASAS products, integrated test, and continuous evaluation opportunities. ASAS builds upon experience and feedback gained from the fielded ASAS products and real-world operational deployments providing the soldier with improved reliability, supportability, and survivability.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
5 - System Development and Demonstration	**0604321A - ALL SOURCE ANALYSIS SYSTEM**	**B41**

COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
B41 CI/HUMINT Software Products (MIP)	3406	1716	3132	Continuing	Continuing

A. Mission Description and Budget Item Justification: The Counterintelligence and Human Intelligence Automated Reporting and Collection Systems (CHARCS), formally known as Counterintelligence and Human Intelligence (CI/HUMINT) Information Management System (CHIMS), provides the Army automation support for collection and reporting of CI/HUMINT data to satisfy tactical human intelligence requirements. CHARCS provides support for CI/HUMINT information collection, reporting, investigation, interrogation, biometrics, and document exploitation operations. The CHARCS architecture extends from the individual Tactical HUMINT Team soldier or CI agent to Theater and National intelligence organizations through its interoperability with Distributed Common Ground System - Army (DCGS-A). CHARCS provides systems to all Army Commands (ARCOM), Special Forces, Reserves, National Guard, Stryker Brigade Combat Teams (SBCT), and the training base. CHARCS systems produce and disseminate messages and reports through an array of communications systems including: combat Net Radio, Single Channel Ground and Airborne Radio System (SINCGARS), Portable Radio Communications (PRC)-150 Secure Telephone Equipment (STE), Secure Telephone Unit (STU), satellite, and other organic communications devices. The CHARCS systems reports collected intelligence directly to Operational Management Teams (OMT) of U.S. Army intelligence units. Future development efforts will provide CI agents and HUMINT collectors improved collection, reporting, biometrics, language, communications source management and mission management capabilities.

FY 2010 CORE amount of $3.183 million RDTE funding continues the development of improved counterintelligence and human intelligence collection and reporting capabilities.

Accomplishments/Planned Program:	FY 2008	FY 2009	FY 2010
Continue development of improved collection and reporting software functionality.	3156	1591	2936
Continue Test and Security Accreditation efforts.	250	125	196
Total	3406	1716	3132

B. Other Program Funding Summary	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
OPA (BK5275) CI HUMINT AUTO REPRTING AND COLL (CHARCS) (MIP)	28543	37521	38717	Continuing	Continuing
RDTE (PE 64321, Project B49) CHIMS TADSS	128	128			256

Comment:

C. Acquisition Strategy The Counterintelligence and Human Intelligence Automated Reporting and Collection Systems (CHARCS) software is being developed under a

competitively awarded Indefinite Delivery/Indefinite Quantity (ID/IQ) type contract. CHARCS software is the common software on two collection and reporting products CI/HUMINT Automated Tool Set (CHATS) and Individual Tactical Reporting Tool (ITRT). CHARCS software will be continuously improved to keep pace with evolving capability requirements. The hardware for both product lines is an integration of commercial off-the-shelf (COTS) and Government off-the-shelf (GOTS) hardware. As COTS technology evolves, new hardware will be introduced to keep CHARCS users at the forefront of intelligence automation.

ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604321A - ALL SOURCE ANALYSIS SYSTEM

PROJECT
B41

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
CI/HUMINT Utilities SW Development	IDIQ Competitive	Northrop Grumman, Sierra Vista, AZ	224								224	
CHARCS Software Development	IDIQ Competitive	Northrop Grumman, Sierra Vista, AZ	9324	2968	1Q	1306	1Q	2707	1Q	Cont.	Cont.	
CHATS Development	Competitive T&M	TAMSCO, Eatontown, NJ	1808								1808	
CI/HUMINT SS SW Development	IDIQ Competitive	Northrop Grumman, Sierra Vista, AZ	50								50	
CI & I OPS WS Development	Competitive T&M	TAMSCO, Eatontown, NJ	1566								1566	
ITRT Development	Competitive T&M	TAMSCO, Eatontown, NJ	444								444	
Refugee Management System	CPFF	EWA, Fairmont, WV	3000								3000	
CECOM Transition Support	MIPR	CECOM, SW Engineering Center, Ft. Huachuca AZ	1028								858	
Subtotal:			17444	2968		1306		2707		Cont.	Cont.	

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Contractor Support	BPA	The Sytex Group Inc./Eatontown, NJ	2367	208	1Q	230	1Q	199	1Q	Cont.	Cont.	
Matrix Support	MIPR	I2WD, CECOM Fort Monmouth, NJ	368								368	
Subtotal:			2735	208		230		199		Cont.	Cont.	

ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604321A - ALL SOURCE ANALYSIS SYSTEM

PROJECT
B41

III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test	MIPR	PRC, McLean, VA	401								401	
Developmental Test	MIPR	JITC, Ft. Huachuca, AZ	374	35	1Q	20	1Q	20	1Q	Cont.	Cont.	
Test Support and Interoperability	MIPR	CTSF, Ft. Hood Tx.	110	55	1Q	30	1Q	30	1Q	Cont.	Cont.	
Operational Test	MIPR	PD CHARCS, Ft. Hood, TX	79			50	2Q	75	1Q		361	
Test Articles	MIPR	ESS, Frederick, MD	120								120	
Security Accreditation Collateral	MIPR	CECOM, Ft. Monmouth, NJ	280	85	2Q	45	2Q	61	2Q	Cont.	Cont.	
SCI PL2	MIPR	NGMS, Sierra Vista, AZ	80								80	
SCI PL2 Certification	MIPR	Air Force Research Lab (AFRL), Rome, NY	160								160	
Safety Release	MIPR	CECOM, Ft. Monmouth, NJ	25	30	1Q	10	1Q	10	1Q	Cont.	Cont.	
Subtotal:			1629	205		155		196		Cont.	Cont.	

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Management		ASPO/PD CHARCS, Ft Belvoir, VA	669	5	2Q	5	2Q	10	2Q	Cont.	Cont.	
Facility Support		PD IE, Ft Belvoir, VA	635	20	1Q	20	2Q	20	2Q	Cont.	Cont.	
Subtotal:			1304	25		25		30		Cont.	Cont.	
Project Total Cost:			**23112**	**3406**		**1716**		**3132**		**Cont.**	**Cont.**	

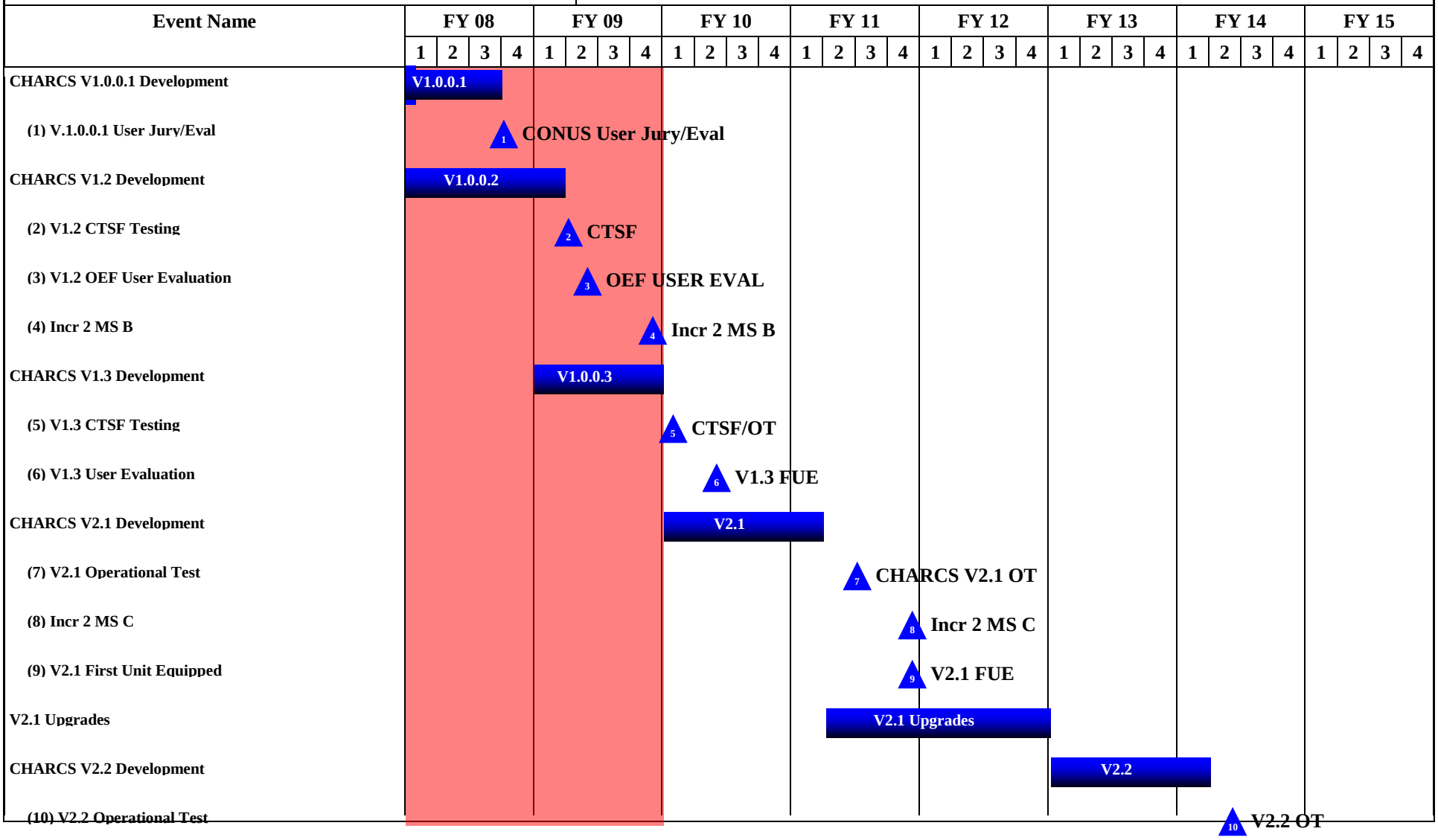
Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604321A - ALL SOURCE ANALYSIS SYSTEM

PROJECT
B41



Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604321A - ALL SOURCE ANALYSIS SYSTEM

PROJECT
B41

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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	1	2	3	4
(11) V2.2 First Unit Equipped																												11 V2.2 FUE				
V2.2 Upgrades																												V2.2 Upgrades				

Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604321A - ALL SOURCE ANALYSIS SYSTEM

PROJECT
B41

Schedule Detail	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
CHARCS V1.0.0.1 Development	1Q - 3Q							
V.1.0.0.1 User Jury/Eval	4Q							
CHARCS V1.2 Development	1Q - 4Q	1Q						
V1.2 CTSF Testing		2Q						
V1.2 OEF User Evaluation		2Q						
Incr 2 MS B		4Q						
CHARCS V1.3 Development		1Q - 4Q						
V1.3 CTSF Testing			1Q					
V1.3 User Evaluation			2Q					
CHARCS V2.1 Development			1Q - 4Q	1Q				
V2.1 Operational Test				2Q - 3Q				
Incr 2 MS C				4Q				
V2.1 First Unit Equipped				4Q				
V2.1 Upgrades				2Q - 4Q	1Q - 4Q			
CHARCS V2.2 Development						1Q - 4Q	1Q	
V2.2 Operational Test							2Q	
V2.2 First Unit Equipped							3Q - 4Q	
V2.2 Upgrades							2Q - 4Q	1Q - 4Q

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
5 - System Development and Demonstration	**0604321A - ALL SOURCE ANALYSIS SYSTEM**	**B44**

COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
B44 ASAS TADSS (MIP)	201	204			405

A. Mission Description and Budget Item Justification: The All Source Analysis System (ASAS) is a ground based, mobile, command and control, intelligence processing system that provides tactical commanders a common view of the battlefield and a means for gaining a timely and comprehensive understanding of enemy force deployments, capabilities, and potential courses of action. The system interfaces with selected national, joint, and theater Intelligence assets, adjacent/higher/lower military intelligence preprocessors, Distributed Common Ground System-Army (DCGS-A), Army Battle Command System (ABCS), and organic deployed Intelligence/Electronic Warfare (IEW) teams and assets. The ASAS product set currently includes: ASAS-Light, Intelligence Fusion Station (IFS), Analysis and Control Team-Enclave (ACT-E), Analysis and Control Element (ACE), and the Communications Control Set (CCS). The ASAS system uses standard joint and Army protocols and message formats to interface with forward deployed sensor/teams, intelligence preprocessors and joint/national/Army C3I systems.

FY08 and FY09 funding provides for Training Aids Devices Simulators and Simulations (TADSS).

Accomplishments/Planned Program:	FY 2008	FY 2009	FY 2010
Training Aids Devices Simulators and Simulations	201	204	
Total	201	204	

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

C. Acquisition Strategy Not appplicable for this item.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
5 - System Development and Demonstration	**0604321A - ALL SOURCE ANALYSIS SYSTEM**	**B49**

COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
B49 CHIMS TADSS (MIP)	127	128			255

A. Mission Description and Budget Item Justification: The Counterintelligence/Human Intelligence (CI/HUMINT) Information Management System (CHIMS) is the Army system responsible for collection, processing, and analysis of CI/HUMINT data to satisfy tactical and strategic human intelligence requirements. CHIMS provides the automation support for Army tactical CI/HUMINT information collection, investigation, interrogation, operations, biometrics, document exploitation, and force protection. The CHIMS architecture extends from the individual agent/collector to National and Theater intelligence organizations. CHIMS is the only HUMINT automation provider for All-Source architectures for the Current to Future Force, including: ASAS Block 1 and 2, Distributed Common Ground System - Army (DCGS-A), PORTICO and Future Combat System (FCS). CHIMS systems are used to produce intelligence products to feed and maintain HUMINT databases and the All Source Correlated Data Base (ASCDB). CHIMS provides systems to both vertical and horizontal customer bases. Vertical (Army) clients include: Special Forces, Long Range Surveillance Units, all MACOMS, Reserves, National Guard, Stryker Brigade Combat Teams (SBCT), and the Intelligence School. Horizontal clients (non-Army) include U.S. Navy, U.S. Marine Corps, Joint Task Force (JTF) GTMO Cuba, and Defense Intelligence Agency (DIA). Organic automation and analysis capabilities are provided to Military Intelligence (MI) units with hand held reporting devices and to CI Staff Officers (CISO) with high capacity workstations and web servers, providing collection management, asset management, transmission, receipt, storage, and export of electronic data and digital imagery information including exploitation of foreign language materials and biometrics. CHIMS can produce and disseminate messages and reports through an array of communications systems including: serial, SINCGARS, STE, STU, satellite, and other organic communications devices. The CHIMS suite of systems incorporates a multi-tiered architecture that reaches from hand held devices to Web servers providing multiple security level access with both brilliant push and smart pull tools to the battlefield commander and National interests. PM CHIMS develops the CI/HUMINT Automated Management Software (CHAMS), a 3rd generation product providing advanced capabilities with a soldier friendly interface. The software provides asynchronous distributed databases that use a client server schema to maintain synchronicity In-Theater. This project provides Training Aids, Devices, Simulators and Simulations (TADSS) for CHIMS.

FY07 continues development of Computer Based Training (CBT) segments of the TADSS requirement.

Accomplishments/Planned Program:	FY 2008	FY 2009	FY 2010
Develop Training Aids, Devices, Simulators and Simulations for CHIMS systems.	127	128	
Total	127	128	

B. Other Program Funding Summary	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
RDTE (PE 654321, Proj B41) CI/HUMINT Software Products	1632	1697	2968	Continuing	7437
OPA (BK5275) CHIMS (TIARA)	5125	5942	10285	Continuing	17328

Comment:

C. Acquisition Strategy The CI/HUMINT Automated Management Software (CHAMS), is the common software baseline for all CI/HUMINT Info Management System (CHIMS) product lines. CHAMS will be continuously improved through spiral development to keep pace with evolving capability requirements and TADSS requirements. CHIMS Training Aids, Devices, Simulators and Simulations development will be accomplished under the base CHAMS development contract, a competitively awarded IDIQ type contract.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
5 - System Development and Demonstration	**0604321A - ALL SOURCE ANALYSIS SYSTEM**	**B51**

COST (In Thousands)		FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
B51	SEQUOYAH - FOREIGN LANGUAGE TRANSLATION SYSTEM		10964	9975	Continuing	Continuing

A. Mission Description and Budget Item Justification: The Sequoyah - Foreign Language Translation System (S-FLTS) program is to develop a basic automated foreign speech and text translation capability into Army systems of record, to augment and compliment limited human linguistic resources. These stand-alone and integrated automated translation capabilities will be applicable across three different system configurations; a hand-held/wearable portable device, a lap-top or mobile device, and in a networked, web-enabled system. The software modules will translate English into a prioritized listing of languages in a prioritized collection of domains. Sequoyah will be interoperable with Commercial Off The Shelf (COTS), or Government Off The Shelf (GOTS) automation equipment to include the Net Enabled Command Capability (NECC), the Distributed Common Ground System (DCGS), Soldier as a System (SaaS) Ground (GSS), Mounted (MSS) and Air (AirSS) Soldier Systems, Future Combat System (FCS), DoD Intelligence Information Systems (DoDIIS) and any associated devices and peripherals.

FY2010 Core $9.975 million RDTE develops S-FLT systems.

Accomplishments/Planned Program:	FY 2008	FY 2009	FY 2010
Support program management activities		1018	1048
Domain development		800	550
Development and integration of Critical Technology Elements (CTE) of Automated Speech Recognition (ASR), Optical Character Recognition (OCR), and Machine Language Translation Translation Engine (MLT TE) prototypes		8661	7277
Test the automated language translation capabiliities using established metrics and validation process		485	1100
Total		10964	9975

B. Other Program Funding Summary	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
B88605 Sequoyah Foreign Language Translation System		6339	6936		36078
654321.B41 Congressional Earmark for Bi-Directional Iraqi-English Trans Development	1777				1777

Comment:

C. Acquisition Strategy The S-FLT program acquisition strategy is to conduct a full and open competition to select a developer of language translation capabilities to include the Automated Speech Recognition (ASR) and associated interfaces with the Machine Language Translation (MLT) Translation Engine (TE). Investments will be made to advance MLT technology to reach program Key Performance Parameter goals of an Interagency Language Roundtable (ILR) Level of 1 for speech translation and an ILR Level of 1+ for text translation prototypes, and develop metrics and user testing methodologies to validate prototypes' ILR levels for selection and integration as S-FLT systems. Funds will also be invested to assure network readiness for Foreign Media Monitoring and reachback to language data repository and develop embedded training. Further, improvements will be made in associated technologies that support MLT TE, ASR, and Optical Character Recognition (OCR).

ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604321A - ALL SOURCE ANALYSIS SYSTEM

PROJECT
B51

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Initial Capability Development Contracts	TBD	TBD				8661	3Q	7277	1Q		15938	
Subtotal:						8661		7277			15938	

Remarks: Initial Capability development delivers S-FLT software with 3 priority speech language modules and 2 priority text language modules in 2 task-oriented domains for use in mobile, portable, and web enabled networked systems of records.

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Support	In House	ASPO, Ft. Belvior, VA				1018	2Q	1048	1Q		3145	
Subtotal:						1018		1048			3145	

III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test and Evaluation	MIPR	USA Test and Eval Command, Alexandria, VA				485	2Q	1100	2Q	Cont.	Cont.	
Subtotal:						485		1100		Cont.	Cont.	

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Domain Development	MIPR	RDD, Fort Hauchuca, AZ				800	2Q	550	1Q	Cont.	Cont.	

ARMY RDT&E COST ANALYSIS (R3)									May 2009	
BUDGET ACTIVITY **5 - System Development and Demonstration**	PE NUMBER AND TITLE **0604321A - ALL SOURCE ANALYSIS SYSTEM**									PROJECT **B51**
Subtotal:				800		550		Cont.	Cont.	
Project Total Cost:				**10964**		**9975**		**Cont.**	**Cont.**	

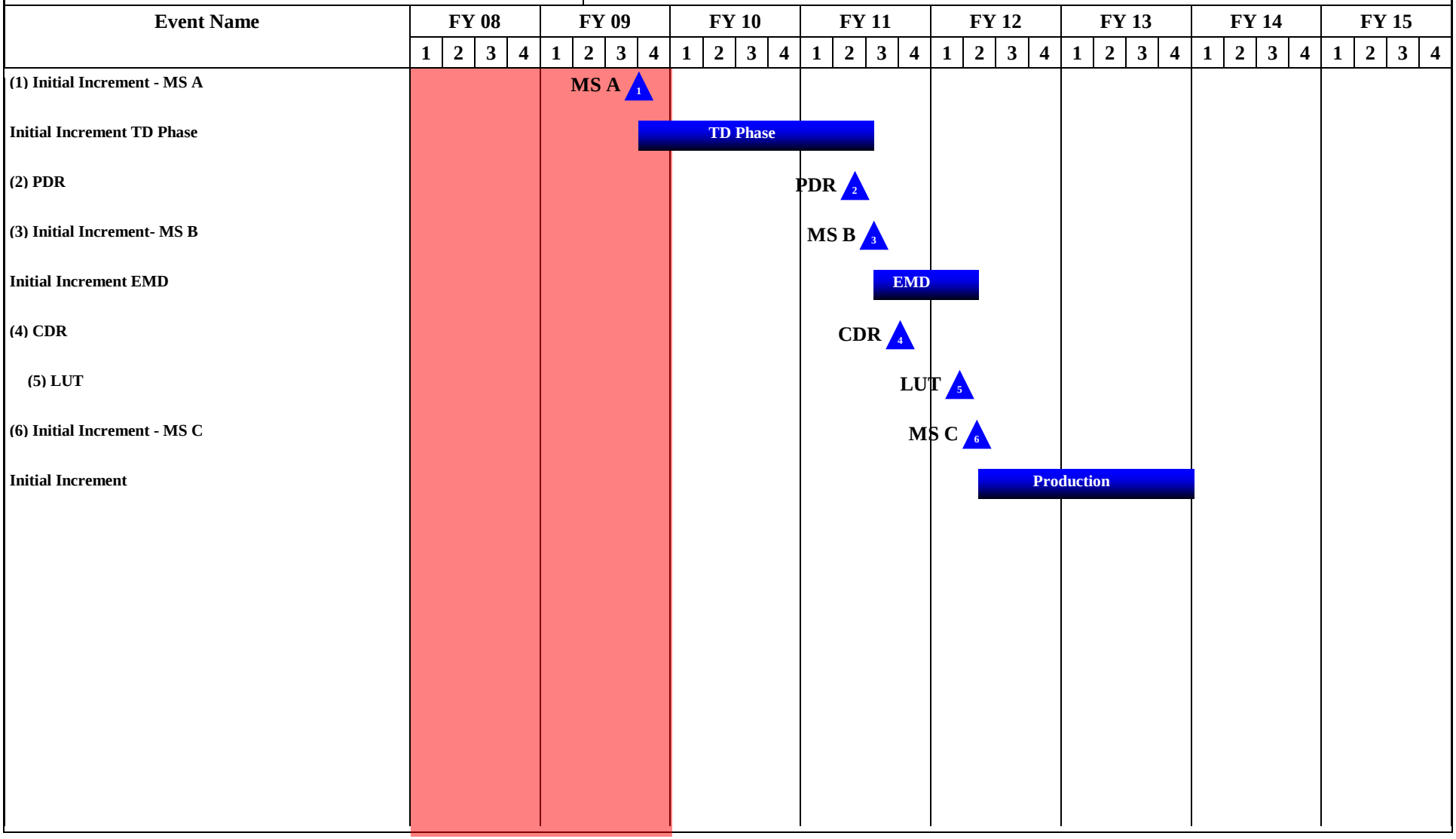
Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604321A - ALL SOURCE ANALYSIS SYSTEM

PROJECT
B51



Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604321A - ALL SOURCE ANALYSIS SYSTEM

PROJECT
B51

Schedule Detail	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Initial Increment - MS A		3Q						
Initial Increment TD Phase		3Q - 4Q	1Q - 4Q	1Q - 3Q				
PDR				2Q				
Initial Increment- MS B				3Q				
Initial Increment EMD				3Q - 4Q	1Q - 2Q			
CDR				3Q				
LUT					1Q			
Initial Increment - MS C					2Q			
Initial Increment					2Q - 4Q	1Q - 4Q		