

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2008

BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604321A - ALL SOURCE ANALYSIS SYSTEM							
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	10338	5384	16465	13017	13223	14500	14700	Continuing	Continuing
B19 ASAS EVOLUTIONARY ACQ (MIP)	6739	3409	3411						30854
B41 CI/HUMINT Software Products (MIP)	3266	1644	1721	3017	3223	3500	3700		20071
B44 ASAS TADSS (MIP)	204	203	205						1002
B49 CHIMS TADSS (MIP)	129	128	128						631
B51 SEQUOYAH - FOREIGN LANGUAGE TRANSLATION SYSTEM			11000	10000	10000	11000	11000	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 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 Counterintelligence/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. CHIMS functionality provides support for CI/HUMINT information collection, reporting, investigation, interrogation, biometrics, document exploitation operations. The CHIMS architecture extends from the individual Tactical HUMINT team soldier or CI agent to Theater and National intelligence organizations. 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 all MACOMS, Special Forces, Reserves, National Guard, Stryker Brigade Combat Teams (SBCT), and the training base. CHIMS 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 CHIMS suite of systems incorporates a multi-tiered architecture that reaches from handheld devices to Web servers providing multiple security level access to the battlefield commander and National interests. 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 mission is to produce equipment that provides accurate and timely Automated Foreign Language Translations. Products include: one way speech translation, two-way speech translation, text translation, and broadcast foreign media monitoring. These products, in stand alone or integrated form, will

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be used to augment the critical shortage of translators in the current and future regions of the world where English is not spoken. The systems provide a quick response capability for many languages and dialects. These systems support all phases of joint, interagency, multi-national, and homeland security operations from planning and initial entry through re-deployment. These systems enable American warfighters to communicate with the native population, which, until now, was not possible due to the lack of availability of linguists or trusted translators.

The 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-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-HT Toolkit will provide the capability to establish direct cultural support to BCT/MEF 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.

FY09 funding, in addition, continues the development of improved counterintelligence and human intelligence collection and reporting capabilities under CHIMS.

FY09 also provides for Automated Speech Recognition (ASR), Optical Character Recognition (OCR) and Machine Language Translation - Translation Engine (MLT-TE) development efforts under the Sequoyah - Foreign Language Translation Systems program.

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<u>B. Program Change Summary</u>	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2008/2009)	6888	5384	5465
Current BES/President's Budget (FY 2009)	10338	5384	16465
Total Adjustments	3450		11000
Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases	3400		
Reprogrammings	50		
SBIR/STTR Transfer			
Adjustments to Budget Years			11000

Change Summary Explanation:

- The increase of \$3.4 million in FY 2007 is Supplemental RDT&E funding for the Map-HT toolkit.
- The increase of \$11.0 million in FY 2009 is the RDT&E funding for Sequoyah -Foreign Language Translation System.

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BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604321A - ALL SOURCE ANALYSIS SYSTEM						PROJECT B19	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
B19 ASAS EVOLUTIONARY ACQ (MIP)	6739	3409	3411						30854

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-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-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-HT Toolkit will provide the capability to establish direct cultural support to BCT/MEF 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.

NOTE: FY 2007 funding total includes \$3.4 million received in GWOT supplemental.

Accomplishments/Planned Program:	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
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).	3315	3409	3411
Continue spiral development of Map-HT toolkit.	3149		
Acquire materiel in support of Map-HT spiral development.	75		

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Continue Map-HT Test and Security Accreditation efforts.	200	
Total	6739	3409 3411

<u>B. Other Program Funding Summary</u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
OPA (K28801) ASAS Modules	75151	52130	58333	9901	12877	5999			214391
Spares (BS9704)	2200	1962	1188						5350

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 Command 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.

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BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
5 - System Development and Demonstration			0604321A - ALL SOURCE ANALYSIS SYSTEM							B19		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
System Development	CPAF	Lockheed Martin, Denver, CO	272731								272731	
Subsystem Development	GSA D.O.	Electronic Warfare Associates, Huntington, WV	13295								13295	
Subsystem Development	GSA D.O.	Overwatch Textron Systems, Austin, TX	23114								23114	
SARs, Safety and Interop	GSA D.O.	Overwatch Textron Systems, Austin, TX	3243								3243	
SARs, Safety and Interop	Direct Allotment	PD IF, Ft. Belvoir, VA		321	1-3Q	415	1-3Q	417	1-3Q		1153	
System Development	CECOM Contract with MITRE Corp.	Mitre Corporation, Tampa, FL		1499	4Q						1499	
Subtotal:			312383	1820		415		417			315035	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Facility Support	MIPR	Ft. Belvoir, VA	1326	300	1-4Q	300	1-4Q	300	1-4Q		2226	
License Maintenance	MIPR	Ft. Monmouth, NJ	2576	1708	1-3Q	1708	1-3Q	1708	1-3Q		7700	
Subtotal:			3902	2008		2008		2008			9926	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract

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ASAS Developmental and Operational Testing	MIPR	EPG, Ft Huachuca, AZ	6708								6708
Continuous Evaluation	MIPR	EPG, Ft. Huachuca, AZ	763								763
Subtotal:			7471								7471

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
FFRDC	MIPR	MITRE/Washington, DC	9922								9922	
Contractor Support	BPA	SYTEX, Inc. Vienna, VA	28914	486	1-4Q	486	1-4Q	486	1-4Q		30372	
Government In House	Direct Allotment	PD IF, Ft. Belvoir, VA	18802	500	1-4Q	500	1-4Q	500	1-4Q		20302	
Program Management	MIPR	ERDC-TEC, Alexandria, VA., PEO-IEW&S, Fort Monmouth, NJ., CENTCOM, Tampa, FL.		1925	4Q						1925	
Subtotal:			57638	2911		986		986			62521	

Project Total Cost:			381394	6739		3409		3411			394953	
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<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
High priority SARs, Safety, Interop Dev. and Test, and Maint. for ASAS systems	1Q - 4Q	1Q - 4Q	1Q - 4Q				
Map-IT toolkit development, materiel acquisition, test & security accreditation	4Q						

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COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
B41 CI/HUMINT Software Products (MIP)	3266	1644	1721	3017	3223	3500	3700		20071

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 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 (SINGARS), 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.

FY 2009 funding continues the development of improved counterintelligence and human intelligence collection and reporting capabilities.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Continue development of CHARCS SW functionality and SW Problem Reporting implementation.	2594	1519	1591
Transition of CHAMS SW Baseline V4.3 to CECOM for Life-Cycle Support	537		
Continue Test and Security Accreditation efforts.	135	125	130
Total	3266	1644	1721

<u>B. Other Program Funding Summary</u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
OPA (BK5275) CHIMS (MIP)	19625	28806	37632	10686	13221	10848	10500	Continuing	Continuing
RDTE (PE 64321, Project B49) CHIMS TADSS	128	128	128						507

Comment:

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

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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.

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
CI/HUMINT Utilities SW Development	IDIQ Competitive	Northrop Grumman, Sierra Vista, AZ	224								224	
CHARCS Software Development	IDIQ Competitive	Northrop Grumman, Sierra Vista, AZ	6497	2220	2Q	1301	1Q	1306	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	357	501	1Q						858	
Subtotal:			13946	2721		1301		1306		Cont.	Cont.	
Remarks: SW Engineering Support for transition of CHIMS SW baseline V4.3 to CECOM SEC.												
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Contractor Support	BPA	The Sytex Group Inc./Eatontown, NJ	1866	410	1Q	208	1Q	230	1Q	Cont.	Cont.	
Matrix Support	MIPR	I2WD, CECOM Fort Monmouth, NJ	368								368	
Subtotal:			2234	410		208		230		Cont.	Cont.	

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III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test	MIPR	PRC, McLean, VA	401								401	
Developmental Test	MIPR	JITC, Ft. Huachuca, AZ	329	20	1Q	20	1Q	20	1Q	Cont.	Cont.	
Test Support and Interoperability	MIPR	CTSF, Ft. Hood Tx.	75	35	1Q	35	1Q	35	1Q	Cont.	Cont.	
Operational Test	MIPR	PD CHARCS, Ft. Hood, TX	79					50	2Q		129	
Test Articles	MIPR	ESS, Frederick, MD	120								120	
Security Accreditation Collateral	MIPR	CECOM, Ft. Monmouth, NJ	235	45	2Q	45	2Q	45	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	15	10	1Q	10	1Q	10	1Q	Cont.	Cont.	
Subtotal:			1494	110		110		160		Cont.	Cont.	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Management		ASPO/PD CHARCS, Ft Belvoir, VA	659	5	2Q	5	2Q	5	2Q	Cont.	Cont.	
Facility Support		PD IE, Ft Belvoir, VA	595	20	1Q	20	1Q	20	2Q	Cont.	Cont.	
Subtotal:			1254	25		25		25		Cont.	Cont.	
Project Total Cost:			18928	3266		1644		1721		Cont.	Cont.	

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CHAMS 4.3 Transition to CECOM	1Q - 4Q						
CHARCS V1.1 Development	1Q - 4Q	1Q - 3Q					
CHARCS V1.2 Development	4Q	1Q - 4Q					
CHARCS V1.3 Development		4Q	1Q - 4Q				
CHARCS V1.2/1.3 OT			2Q				
CHARCS V2.1 Development				1Q - 4Q	1Q - 4Q	1Q - 4Q	
CHARCS V2.1 OT					2Q		
CHARCS V1 FUE					4Q		
CHARCS V2.2 Development							1Q - 4Q
CHARCS V2.3 Devlopment							

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COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
B51 SEQUOYAH - FOREIGN LANGUAGE TRANSLATION SYSTEM			11000	10000	10000	11000	11000	Continuing	Continuing

A. Mission Description and Budget Item Justification: Foreign Language Translation System is the Department of Defense focal point for all matters related to automated language translation. As a Joint Interest program, Foreign Language Translation System develops translation technologies for the U.S. Army and the other DoD organizations. This is reflected in the Language Priority List and the Defense Language Transformation Roadmap published by the Deputy Secretary of Defense establishing the Defense Foreign Language Steering Committee (DFLSC). Foreign Language Translation System has established a plan to focus resources on the critical technology areas necessary to comply with our National Defense Strategy and Policy. Foreign Language Translation System will address speech translation capabilities including one-on-one conversations, transmitted voice and audio recordings, text translation, including document translation and streaming chat dialogue, handwriting transcription and translation, foreign media monitoring, including electronic media, newspapers, audio broadcasts, television, video recordings, etc. Capabilities are being addressed in the designated foreign languages with attention to dialect, accent, font, culture, and domain (the words common to a particular activity that are used in expressing the details of that activity).

FY2009 funds development Foreign Language Translation Systems.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Automated Speech Recognition (ASR): Develop language concentrations for dialogue gathering and speech model development, database design, dialect and accent detection, algorithm development, data translation and verification			4000
Optical Character Recognition (OCR): Includes multiple font recognition development, development of automatic analysis of text and image data, to include handwriting; filtering of noise and image correction, i.e., dirt, creases, handwriting, discoloration, text alignment, removal of extraneous markings, etc.			3000
Machine Language Translation - Translation Engine (MLT TE): Develop language concentrations for translation algorithm and dictionary development, translation verification, validation of hybrid TE approaches, coupling of ASR with text TE.			4000
Total			11000

<u>B. Other Program Funding Summary</u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
BZ7326 Prophet Ground (MIP). Funds pass through under Congressional Plus-Up.	1100								1100
B88605 Sequoyah Foreign Language Translation Systems			6358	6936	6941	7929	7933		36097

Comment: Funds from the other DoD Services may accompany emerging requirements and are not identified by Foreign Language Translation System at this time.

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C. Acquisition Strategy The current precept for the Foreign Language Translation System Acquisition Strategy is to develop language translation capabilities to include the Automated Speech Recognition (ASR) and associated interfaces with the Machine Language Translation (MLT) Transltion Engine (TE). Additional investments will be made to advance MLT technology to reach Program Key Performance Parameter Goals of an Interagency Language Roundtable (ILR) Level of 2 for Speech Translation devices and an ILR Level of 3 for Text Translation devices. Funds will also be invested to assure network readiness and develop embedded training. Candidate technologies for enhancements include hardware platforms, directional microphones, noise filtering, etc. Further, improvements will be made in associated technologies that support TE, ASR, and Optical Character Recognition (OCR).

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Development of MLT Standards, Metrics, Language Data Repository	MIPR	Army Research Lab, Adelphi, MD						3960	2Q		3960	
Development of Maritime Domains for MT TE dictionaries	MIPR	Navy Research Lab, Washington, DC						800	2Q		800	
Automated Testing of Speech Translation Technology	MIPR	Air Force Research Lab, Rome, NY						800	1-2Q		800	
Subtotal:								5560			5560	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
SETA Support	T&M	CACI International, Inc., Eatontown, NJ						3800	2Q		3800	
Subtotal:								3800			3800	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test and Evaluation	MIPR	USA Test and Eval Command, Alexandria, VA						420	2Q		420	
Translation Validation	MIPR	Defense Language Institute, Monterey, CA						180	1-2Q		180	
Developmental Test and Evaluation	EAO	Natl Inst for Standards and Tech, Gaitherburg, MD						400	2Q		400	

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE 0604321A - ALL SOURCE ANALYSIS SYSTEM	PROJECT B51
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Subtotal:						1000				1000
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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support	MIPR	CERDEC, Fort Monmouth, NJ						640	2Q		640	
Subtotal:								640			640	

Project Total Cost:								11000			11000	
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Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604321A - ALL SOURCE ANALYSIS SYSTEM

PROJECT
B51

Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Machine Language Translation Engines (MLTE) Development									MLTE Dev																			
Automated Speech Recognition (ASR)									ASR Dev																			
One Way Speech to Speech System Development									1WS2S Dev																			
Two Way Speech to Speech System Development									2WS2S Dev																			
Optical Character Recognition									OCR																			
Text to Text Systems Development									T2T Dev																			
Foreign Media Monitoring Systems Development									FMMS Dev																			

Schedule Detail (R4a Exhibit)

February 2008

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604321A - ALL SOURCE ANALYSIS SYSTEM

PROJECT
B51

<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
Machine Language Translation Engines (MLTE) Development			1Q - 4Q				
Automated Speech Recognition (ASR)			1Q - 4Q				
One Way Speech to Speech System Development			1Q - 4Q				
Two Way Speech to Speech System Development			1Q - 4Q				
Optical Character Recognition			1Q - 4Q				
Text to Text Systems Development			1Q - 4Q				
Foreign Media Monitoring Systems Development			1Q - 4Q				