

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305221F Network Centric Collaborative Targeting
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	12.035	8.783	8.160	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5197 Core Technology	12.035	8.783	8.160	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

(U) **A. Mission Description and Budget Item Justification**

Network Centric Collaborative Targeting (NCCT) is the Air Force program of record for net-centric collaborative intelligence, surveillance and reconnaissance (ISR) operations. NCCT is a networked application that uses machine-to-machine interfaces and Internet Protocol (IP) connectivity to horizontally integrate Battle Management (BM)/Command and Control (C2)/ISR assets and systems to provide timely detection, identification, and geo-location of time-sensitive and high priority targets to combatant commanders and their forces. NCCT develops and deploys the capability to share multi-source, multi-INT sensor-level data, coordinate sensor activity, and provide rapidly correlated results between dissimilar BM/C2/ISR assets, systems and decision-making nodes. NCCT develops and refreshes software and hardware required for net-centric operations. NCCT supports participant program offices with development and fielding of BM/C2/ISR asset, system and decision-making node interfaces.

NCCT Core Technology develops the machine-to-machine hardware and software to horizontally integrate dissimilar BM/C2/ISR assets and systems to include, but is not limited to, RC-135 RIVET JOINT, C-130 SENIOR SCOUT, E-8 Joint Surveillance and Target Attack Radar System (JSTARS), U-2/Distributive Common Ground System (DCGS), Falconer Air and Space Operations Center (AOC), and national systems. NCCT Core Technology includes, but is not limited to, network management software, operations interface, network messages and formats, correlation software and data rules of interaction, NCCT unique security hardware and software items, and platform specific Platform Interface Modules (PIMs). Core technology supports the Systems Integration Lab (SIL) used to test NCCT development, modification and PIMs. Core technology also supports Air Force and Joint experiments, demonstrations, and exercises as necessary.

Information Operations/Battle Management operationalizes the software application suite developed during the Project SUTER series of cross-domain demonstrations to apply Air Force ISR, national agency, space, and Joint capabilities to bridge the gap between tomorrow's advanced networked threats and our ability to train and integrate our forces to fly and fight against these threats. Threat sensor and communication systems are being modified and fielded in compressed timelines as commercial advances are adopted in short (18 month or less) cycles. Project SUTER Software (PSS) attempts to lead turn threat networks by developing, fielding and rapidly transitioning concepts of operations (CONOPs); tactics, techniques and procedures (TTPs); Network Target Playbooks; and capabilities that address ISR and kinetic/non-kinetic networked options at all classification levels. Exercises provide an opportunity to train personnel in combined, distributed operations focused on the "Find, Fix, and Finish" process for high-value targets. Formal assessment and operator critiques, derived during constructive play and live fly/live fire events, will be used to make rapid fielding decisions.

This program is categorized as Budget Activity 7 because it provides for development of technologies in support of operational system development.

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07 Operational System Development

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0305221F Network Centric Collaborative Targeting

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	8.586	8.807	8.716
(U) Current PBR/President's Budget	12.035	8.783	8.160
(U) Total Adjustments	3.449	-0.024	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.024	
Congressional Increases			
Reprogrammings	3.690		
SBIR/STTR Transfer	-0.241		

(U) **Significant Program Changes:**

FY2008 funding reflects a transfer of \$3.690M to support Core Technology development and operational platform fielding

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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305221F Network Centric Collaborative Targeting	PROJECT NUMBER AND TITLE 5197 Core Technology
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
5197 Core Technology	12.035	8.783	8.160	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) NCCT Core Technology Development and Refresh	10.010	6.307	5.799
(U) Technical Support	0.986	1.276	1.181
(U) Management	1.039	1.200	1.180
(U) Total Cost	12.035	8.783	8.160

Activities also include studies and analysis to support both current program planning and execution and future program planning.

(U) <u>C. Other Program Funding Summary (\$ in Millions)</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>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) PE 0305221F, O&M	0.000	5.982	21.321						Continuing	TBD

(U) **D. Acquisition Strategy**

645 Aeronautical Systems Group (645 AESG) at Wright Patterson AFB OH, manages the Cost Plus Fixed Fee contract used to develop NCCT Core Technology. 645 AESG will provide NCCT software and common hardware to systems and platforms for fielding. Individual program management offices may contract directly for development and integration of this capability on their respective systems and platforms (RC-135 RIVET JOINT, C-130 SENIOR SCOUT, EC-130 COMPASS CALL, AF DCGS, AOC, national systems, and any potential systems in the future).

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
07 Operational System Development				0305221F Network Centric Collaborative Targeting					5197 Core Technology			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u> Core Technology	CPFF	L3 ComCept / Rockwall, TX	6.561	10.010	Dec-07	6.307	Jan-09	5.799	Dec-09	Continuing	TBD	TBD
Subtotal Product Development			6.561	10.010		6.307		5.799		Continuing	TBD	TBD
Remarks:												
(U) <u>Technical Support</u> Security Certification	Various	Various	0.986	0.986	Dec-07	1.276	Jan-09	1.181	Dec-09	Continuing	TBD	TBD
Subtotal Technical Support			0.986	0.986		1.276		1.181		Continuing	TBD	TBD
Remarks:												
(U) <u>Test and Evaluation</u> Operational Test	MIPR	605 TES	0.000	0.000		0.000			Dec-09	Continuing	TBD	TBD
Subtotal Test and Evaluation			0.000	0.000		0.000		0.000		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u> Program Office	Various	645 AESG / Wright-Patters on AFB, OH	1.039	1.039	Dec-07	1.200	Jan-09	1.180	Dec-09	Continuing	TBD	TBD
Other Government	MIPR	SAF/RCO & USSTRATCO M	0.000	0.000		0.000		0.000		Continuing	TBD	TBD
Subtotal Management			1.039	1.039		1.200		1.180		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			8.586	12.035		8.783		8.160		Continuing	TBD	TBD

Exhibit R-4a, RDT&E Schedule Detail

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5197 Core Technology

(U) Schedule Profile

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Continued Core Technology Development and Refinement	1-4Q	3-4Q	1-4Q
(U) Systems Integration Lab Operation	1-4Q	1-4Q	1-4Q
(U) Platform Interface Module (PIM) Integration / Delivery	1Q	1-4Q	1-4Q
(U) Network Controller and Operations Interface / Baseline Upgrade Software Release		2-3Q	4Q

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