

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2007</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0305221F Network Centric Collaborative Targeting</b>
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Cost (\$ in Millions)	FY 2006 Actual	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
Total Program Element (PE) Cost	8.508	8.467	8.641	8.881	8.799	9.063	9.238	9.427	Continuing	TBD
5197 Core Technology	8.508	8.467	8.641	8.881	8.799	9.063	9.238	9.427	Continuing	TBD

In FY 2006, Proj 675197, Network Centric Collaborative Targeting (NCCT), efforts were transferred from PE 0305206F, Airborne Reconnaissance Systems, Proj 675038, NCCT, in order to transition NCCT capabilities from an Advanced Concept Technology Demonstration (ACTD) to an operational system fielding as a program of record.

**(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, RC-130 Senior Scout, E-8 Joint Surveillance and Target Attack Radar System (JSTARS), U-2/Deployable 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/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.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	8.524	8.499	8.811	9.047
(U) Current PBR/President's Budget	8.508	8.467	8.641	8.881
(U) Total Adjustments	-0.016	-0.032		
(U) Congressional Program Reductions				
Congressional Rescissions		-0.032		
Congressional Increases				
Reprogrammings	-0.016			
SBIR/STTR Transfer				
(U) <u>Significant Program Changes:</u>				

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BUDGET ACTIVITY <b>07 Operational System Development</b>					PE NUMBER AND TITLE <b>0305221F Network Centric Collaborative Targeting</b>			PROJECT NUMBER AND TITLE <b>5197 Core Technology</b>		
Cost (\$ in Millions)	FY 2006 Actual	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
5197 Core Technology	8.508	8.467	8.641	8.881	8.799	9.063	9.238	9.427	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

**(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, RC-130 Senior Scout, E-8 Joint Surveillance and Target Attack Radar System (JSTARS), U-2/Deployable 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/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.

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

**(U) B. Accomplishments/Planned Program (\$ in Millions)**

	FY 2006	FY 2007	FY 2008	FY 2009
(U) NCCT Core Technology Development and Refresh	7.400	6.267	6.531	6.771
(U) Technical Support	0.001	0.055	0.060	0.060
(U) Test and Evaluation	0.032	0.550	0.450	0.450
(U) Management	1.075	1.595	1.600	1.600
(U) Total Cost	8.508	8.467	8.641	8.881

**(U) C. Other Program Funding Summary (\$ in Millions)**

	FY 2006 Actual	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
(U) PE 0305206F BPAC 675038	0.947	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.947

## Exhibit R-2a, RDT&amp;E Project Justification

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Collaborative Targeting

PROJECT NUMBER AND TITLE

5197 Core Technology

(U) **D. Acquisition Strategy**

645 Aeronautical Systems Group (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 platforms for fielding. Individual platform offices (Rivet Joint, Air Force DCGS, AOC, national systems) manage and may contract directly for Platform Interface Module development and integration on their platforms.

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**Exhibit R-3, RDT&E Project Cost Analysis**

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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 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	0.000	7.400	Oct-05	6.267	Nov-06	6.531	Nov-07	6.771	Nov-08	Continuing	TBD	TBD
Subtotal Product Development			0.000	7.400		6.267		6.531		6.771		Continuing	TBD	TBD
Remarks:														
<u>(U) Technical Support</u> Security Certification	Various	Various	0.000	0.001	Jul-06	0.055	Jan-07	0.060	Nov-07	0.060	Nov-08	Continuing	TBD	TBD
Subtotal Technical Support			0.000	0.001		0.055		0.060		0.060		Continuing	TBD	TBD
Remarks:														
<u>(U) Test and Evaluation</u> Operational Test	MIPR	605 TES	0.000	0.032	Apr-06	0.550	Nov-06	0.450	Nov-07	0.450	Nov-08	Continuing	TBD	TBD
Subtotal Test and Evaluation			0.000	0.032		0.550		0.450		0.450		Continuing	TBD	TBD
Remarks:														
<u>(U) Management</u> Program Office	Various	645 AESG / Wright-Patterson AFB, OH	0.000	0.828	Jan-06	1.245	Nov-06	1.250	Nov-07	1.250	Nov-08	Continuing	TBD	TBD
Other Government	MIPR	Various	0.000	0.247	Nov-05	0.350	Nov-06	0.350	Nov-07	0.350	Nov-08	Continuing	TBD	TBD
Subtotal Management			0.000	1.075		1.595		1.600		1.600		Continuing	TBD	TBD
Remarks:														
<u>(U) Total Cost</u>			0.000	8.508		8.467		8.641		8.881		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

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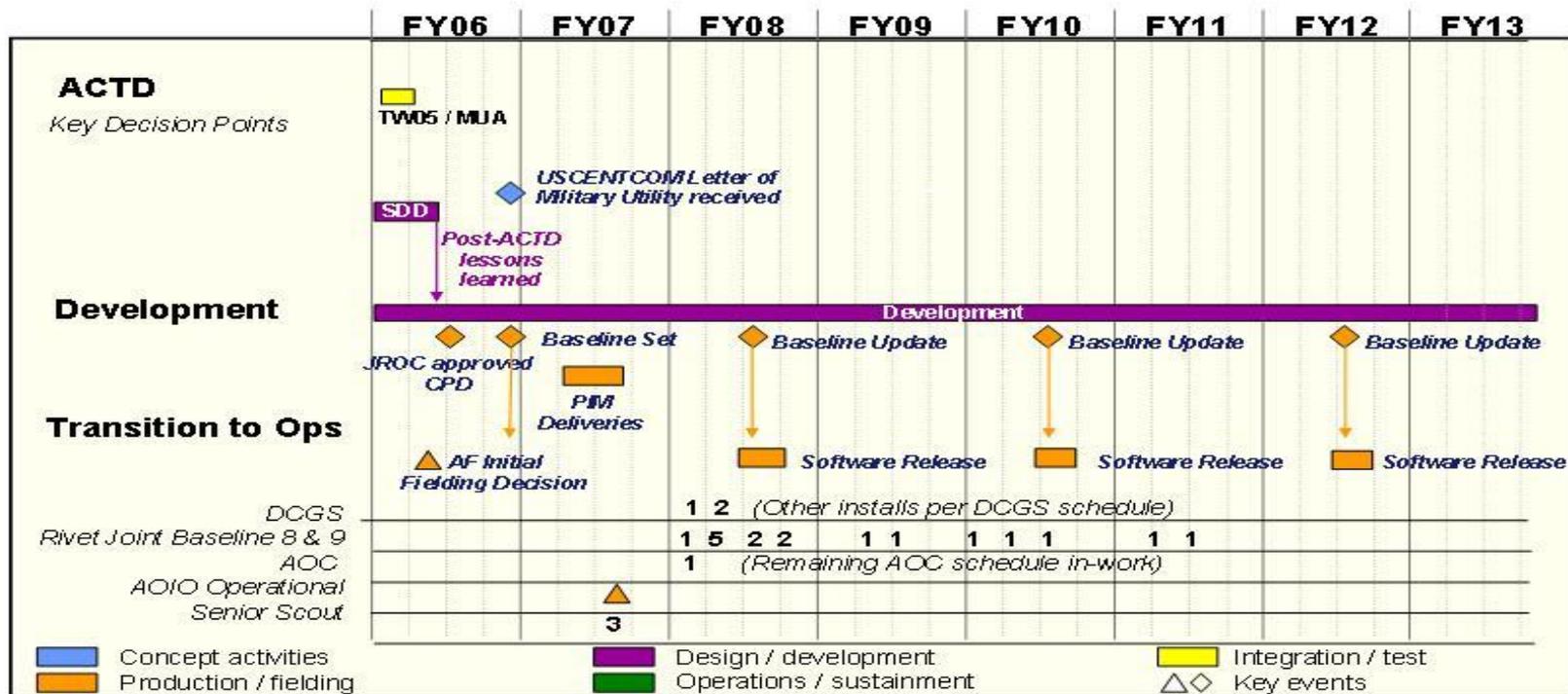
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MUA: Military Utility Assessment    IOC: Initial Operation Capability    ACTD: Advanced Concept Technology Demonstration  
 IMUA: Interim MUA    FOC: Full Operational Capability    JEFX: Joint Expeditionary Force Experiment

Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule Profile

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continued Core Technology Development and Refinement	1-4Q	1-4Q	1-4Q	1-4Q
(U) Systems Integration Lab operation	1-4Q	1-4Q	1-4Q	1-4Q
(U) Platform Interface Module (PIM) deliveries		2-3Q		
(U) Network Controller and Operations Interface Upgrade Software Release			3Q	