

UNCLASSIFIED

PE NUMBER: 0305221F

PE TITLE: Network Centric Collaborative Targeting

Exhibit R-2, RDT&E Budget Item Justification								DATE February 2006																																					
BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0305221F Network Centric Collaborative Targeting																																									
Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total																																				
Total Program Element (PE) Cost	0.000	8.524	8.499	8.811	9.047	8.953	9.232	Continuing	TBD																																				
5197 Core Technology	0.000	8.524	8.499	8.811	9.047	8.953	9.232	Continuing	TBD																																				
<p>In FY 2006, Proj 675197, Network Centric Collaborative Targeting (NCCT) (TIARA), efforts were transferred from PE 0305206F, Airborne Reconnaissance Systems, Proj 675038, NCCT in order to transition NCCT capabilities from an Advanced Concept Technology Demonstration to operational system fielding.</p> <p>(U) A. Mission Description and Budget Item Justification</p> <p>Network Centric Collaborative Targeting (NCCT) uses machine-to-machine interfaces and Internet Protocol connectivity to horizontally integrate Battle Management/Command and Control (BM/C2)/Intelligence, Surveillance, and Reconnaissance (ISR) platforms and provide timely detection, identification, and geo-location of high priority targets to combatant commanders and their forces. NCCT will develop and deploy the capability to share data, coordinate sensor activity, and provide rapidly correlated results between dissimilar collection platforms and decision-making nodes. NCCT will develop and refresh core technology required for network-centric interactions, develop platform interfaces system program offices, and field NCCT functionality.</p> <p>NCCT Core Technology develops machine-to-machine technology to horizontally integrate dissimilar BM C2/ISR assets to include, but not limited to, Rivet Joint, Joint Surveillance Target Attack Radar System (Joint STARS), Airborne Warning and Control System (AWACS), Deployable Common Ground Station (DCGS)/U2, Falconer Air and Space Operations Center (AOC), national systems and Army Guardrail. NCCT Core Technology includes, but is not limited to, network messages and formats, correlation software and data rules of interaction, and data guards. Core technology also supports the Systems Integration Lab used to develop and test NCCT network centric performance.</p> <p>This program is categorized as Budget Activity 7 because it provides for development of technologies in support of operational system development.</p> <p>(U) B. Program Change Summary (\$ in Millions)</p> <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th></th> <th style="text-align: right;"><u>FY 2005</u></th> <th style="text-align: right;"><u>FY 2006</u></th> <th style="text-align: right;"><u>FY 2007</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td></td> <td style="text-align: right;">8.647</td> <td style="text-align: right;">8.464</td> </tr> <tr> <td>(U) Current PBR/President's Budget</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">8.524</td> <td style="text-align: right;">8.499</td> </tr> <tr> <td>(U) Total Adjustments</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">-0.123</td> <td></td> </tr> <tr> <td>(U) Congressional Program Reductions</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Congressional Rescissions</td> <td></td> <td style="text-align: right;">-0.123</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Congressional Increases</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Reprogrammings</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">SBIR/STTR Transfer</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(U) Significant Program Changes:</p> <p>In FY 2006, Proj 675197, Network Centric Collaborative Targeting (NCCT) (TIARA), efforts were transferred from PE 0305206F, Airborne Reconnaissance Systems, Proj</p>											<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	(U) Previous President's Budget		8.647	8.464	(U) Current PBR/President's Budget	0.000	8.524	8.499	(U) Total Adjustments	0.000	-0.123		(U) Congressional Program Reductions				Congressional Rescissions		-0.123		Congressional Increases				Reprogrammings				SBIR/STTR Transfer			
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R-1 Shopping List - Item No. 205-1 of 205-6

Exhibit R-2 (PE 0305221F)

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Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0305221F Network Centric Collaborative Targeting

675038, NCCT in order to transition NCCT capabilities from an Advanced Concept & Technology Demonstration (ACTD) to operational system fielding.

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Exhibit R-2a, RDT&E Project Justification

DATE

February 2006

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0305221F Network Centric
Collaborative Targeting

PROJECT NUMBER AND TITLE

5197 Core Technology

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5197 Core Technology	0.000	8.524	8.499	8.811	9.047	8.953	9.232	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

This PE has been established to transition NCCT capabilities from ACTD to operational system fielding.

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

Network Centric Collaborative Targeting (NCCT) uses machine-to-machine interfaces and Internet Protocol connectivity to horizontally integrate Battle Management/Command and Control (BM/C2)/Intelligence, Surveillance, and Reconnaissance (ISR) platforms and provide timely detection, identification, and geo-location of high priority targets to combatant commanders and their forces. NCCT will develop and deploy the capability to share data, coordinate sensor activity, and provide rapidly correlated results between dissimilar collection platforms and decision-making nodes. NCCT will develop and refresh core technology required for network-centric interactions, develop platform interfaces system program offices, and field NCCT functionality.

NCCT Core Technology develops machine-to-machine technology to horizontally integrate dissimilar BM C2/ISR assets to include, but not limited to, Rivet Joint, Joint Surveillance Target Attack Radar System (Joint STARS), Airborne Warning and Control System (AWACS), Deployable Common Ground Station (DCGS)/U2, Falconer Air and Space Operations Center (AOC), national systems and Army Guardrail. NCCT Core Technology includes, but is not limited to, network messages and formats, correlation software and data rules of interaction, and data guards. Core technology also supports the Systems Integration Lab used to develop and test NCCT network centric performance.

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)**

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) NCCT Core Technology Development and Refresh	0.000	8.024	7.999
(U) Management	0.000	0.250	0.250
(U) Indirect Engineering Support	0.000	0.250	0.250
(U) Total Cost	0.000	8.524	8.499

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) PE35206F BPAC 675038	8.101	0.952							9.053

(U) **D. Acquisition Strategy**

Award the Sole Source, Cost Plus Fixed Fee contract to incrementally develop and refine NCCT core technology.

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Exhibit R-3, RDT&E Project Cost Analysis

DATE

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5197 Core Technology

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u> Core Technology Development	CPFF	L3 ComCept / Rockwall, TX				8.024	Dec-05	7.999	Oct-06	Continuing	TBD	TBD
Subtotal Product Development			0.000	0.000		8.024		7.999		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u> Program Management	Multiple	ASC/BSSG / Dayton, OH				0.250	Nov-05	0.250	Oct-06	Continuing	TBD	TBD
Subtotal Management			0.000	0.000		0.250		0.250		Continuing	TBD	TBD
Remarks:												
(U) <u>Engineering Support</u> Indirect Engineering Support	Multiple	ASC/BSSG / Dayton, OH	0.000	0.000		0.250	May-06	0.250	Oct-06	Continuing	TBD	
Subtotal Engineering Support			0.000	0.000		0.250		0.250		Continuing	TBD	0.000
Remarks:												
(U) Total Cost			0.000	0.000		8.524		8.499		Continuing	TBD	TBD

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Exhibit R-4, RDT&E Schedule Profile

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5197 Core Technology

	Task Name	2006				2007			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	Continued Core Technology Development								
2	Systems Integration Lab Operation								
3	NCCT Interface Control Document Update								
4	NCCT Network Controller Software Release								
5	NCCT Operations Interface Upgrade								
								19-Jan-06	

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Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2006

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07 Operational System Development

PE NUMBER AND TITLE

**0305221F Network Centric
Collaborative Targeting**

PROJECT NUMBER AND TITLE

5197 Core Technology(U) **Schedule Profile**FY 2005FY 2006FY 2007

(U) Continued Core Technology Development

1-4Q

1-4Q

(U) Systems Integration Lab Operation

1-4Q

1-4Q

(U) NCCT Interface Control Document Update

3Q

3Q

(U) NCCT Network Controller Software Release

3Q

3Q

(U) NCCT Operations Interface Upgrade

3Q

3Q