

## UNCLASSIFIED

PE NUMBER: 0305221F

PE TITLE: Network Centric Collaborative Targeting

## Exhibit R-2, RDT&amp;E Budget Item Justification

DATE

February 2005

## BUDGET ACTIVITY

## 07 Operational System Development

## PE NUMBER AND TITLE

## 0305221F Network Centric Collaborative Targeting

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	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	0.000	8.647	8.464	8.681	8.908	8.818	9.091	Continuing	TBD
5197 Core Technology	0.000	0.000	8.647	8.464	8.681	8.908	8.818	9.091	Continuing	TBD

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.

(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 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 ISR assets to include, but not limited to, Rivet Joint, Joint Surveillance & Target Attack Radar System (J-STARS), Airborne Warning and Control System (AWACS), Deployable Common Ground Station (DCGS)/U2, national systems and Army Guardrail. NCCT Core Technology include, but are not limited to, network messages and formats, correlation software and data rules of interaction, and platform specific Platform Interface Modules (PIMs). Core technology also supports the Systems Integration Lab used to 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. Program Change Summary (\$ in Millions)**

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget				
(U) Current PBR/President's Budget	0.000	0.000	8.647	8.464
(U) Total Adjustments	0.000	0.000		
(U) Congressional Program Reductions				
Congressional Rescissions				
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				

(U) **Significant Program Changes:**

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.

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<p>Based on the success of NCCT at JEFX04 and the positive Interim Military Utility Assessment conducted by AFOTEC, the Air Force is committed to execute FY05/06 funds to initiate fielding of NCCT. The FY05/06 desired funds accomplish tasks over and above those currently covered by NCCT funding across the FYDP. This decision has been endorsed by the CENTCOM/DJ3. NCCT and participating platforms (DCGS, Joint STARS, Rivet Joint and AOC) will receive additional funds to accomplish non-recurring engineering, prototype kits and installation to achieve initial fielding by FY06.</p>		

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

DATE

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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		
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	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	0.000	8.647	8.464	8.681	8.908	8.818	9.091	Continuing	TBD
Quantity of RDT&E Articles	0	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 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 ISR assets to include, but not limited to, Rivet Joint, Joint Surveillance & Target Attack Radar System (J-STARS), Airborne Warning and Control System (AWACS), Deployable Common Ground Station (DCGS)/U2, national systems and Army Guardrail. NCCT Core Technology include, but are not limited to, network messages and formats, correlation software and data rules of interaction, and platform specific Platform Interface Modules (PIMs). Core technology also supports the Systems Integration Lab used to 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 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) NCCT Core Technology Development and Refresh	0.000	0.000	8.147	7.964
(U) Management	0.000	0.000	0.500	0.500
(U)				
(U) Total Cost	0.000	0.000	8.647	8.464

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

	<u>FY 2004</u>	<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>Estimate</u>	<u>Complete</u>	
(U) PE35206F BPAC 675038	11.229	8.101	0.966							

(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&amp;E Project Cost Analysis

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Collaborative Targeting

## PROJECT NUMBER AND TITLE

5197 Core Technology

(U) Cost Categories (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 2004 Cost</u>	<u>FY 2004 Cost</u>	<u>FY 2004 Award Date</u>	<u>FY 2005 Cost</u>	<u>FY 2005 Award Date</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 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 Development	CPFF	L3 ComCept / Rockwall, TX						8.147	Oct-05	7.964	Oct-06	Continuing	TBD	TBD
Subtotal Product Development Remarks:			0.000	0.000		0.000		8.147		7.964		Continuing	TBD	TBD
(U) <u>Support</u>  Subtotal Support Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
(U) <u>Test &amp; Evaluation</u>  Subtotal Test & Evaluation Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
(U) <u>Management</u> Program Management	Multiple	ASC/RAB / Dayton, OH						0.500		0.500		Continuing	TBD	
Subtotal Management Remarks:			0.000	0.000		0.000		0.500		0.500		Continuing	TBD	0.000
(U) Total Cost			0.000	0.000		0.000		8.647		8.464		Continuing	TBD	TBD

## Exhibit R-4, RDT&amp;E Schedule Profile

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5197 Core Technology

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

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## Exhibit R-4a, RDT&amp;E Schedule Detail

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PROJECT NUMBER AND TITLE

**5197 Core Technology****(U) Schedule Profile**FY 2004FY 2005FY 2006FY 2007

(U) Continued Core Technology Development and Refresh

1-4Q

1-4Q

(U) NCCT Systems Integration Lab operation

1-4Q

1-4Q

(U) NCCT Interface Control Document Update

4Q

3Q

(U) NCCT Network Controller Software Release

2Q

1Q

(U) NCCT Operations Interface Upgrade

3Q

2Q