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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2013 Air Force **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0305221F: <i>Network Centric Collaborative Targeting</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	13.330	7.348	7.367	-	7.367	7.458	7.602	7.814	8.112	Continuing	Continuing
675197: <i>NCCT Core Technology</i>	13.330	7.348	7.367	-	7.367	7.458	7.602	7.814	8.112	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**Note**  
FY 2011 funding totals includes \$6.1M appropriated for Overseas Contingency Operations.

**A. Mission Description and Budget Item Justification**

Network Centric Collaborative Targeting (NCCT) is the Air Force program of record responsible for developing core technologies to horizontally and vertically integrate ISR sensor systems both within and across intelligence disciplines (for example SIGINT to SIGINT or GMTI to SIGINT). NCCT software applications employ machine-to-machine interfaces and Internet Protocol (IP) communications to coordinate sensor cross-cues and collection activities. NCCT correlation and fusion services ingest collection data to produce a single, composite track (geolocation and ID) for high-value targets. NCCT Research and Development funding supports evolutionary development of the NCCT message set and network management systems (Operations Interface, Network Controller, Fusion Engine, Data Guard, Interface to Command and Control and the Interface to Airborne Overhead Cooperative Operations), the migration of the NCCT technologies to emerging network centric technologies (for example service-oriented architectures and web services), and satisfying DoD standards and information assurance requirements. Current NCCT-enabled systems include but not limited to, RC-135 Rivet Joint, Senior Scout, DCGS (SIGINT components), Falconer Aerospace Operations Centers (AOCs), Vehicle and Dismount Exploitation Radar (VADER), Gorgon Stare, MC-12W, and Airborne-Overhead Multi- Intelligence Operations (AMO). Any prospective NCCT-enabled Coalition, Joint, or Service system is required to fund its respective integration, unique core technology improvements/upgrades to support system integration, and the infrastructure to support the system's NCCT operational employment.

NCCT Program Manager will promote and facilitate the planning, demonstration and prototyping of capabilities, systems, and platforms in the approved Capabilities Production Document or designated by the Requirements Review Board toward the objective of inclusion and full participation in NCCT. On-going support to Navy funded demonstrations to evaluate utility of NCCT to their maritime mission and to NATO Cooperative Electronic Support Measures Operations (CESMO) gateway development and demonstrations are also focus efforts of the NCCT program.

FY 2013 funding is dedicated to Core Technology advancement and the continuation of GMTI/SIGINT correlation enhancements to providing multi-source, multi-INT services within the NCCT architecture. Providing composite tracks with both SIGINT (ID) and GMTI (moving track/Doppler characteristics) components improving the find-fix-finish timelines against mobile and dismounted forces. This correlation capability supports real-time and forensic operations, accelerates classified message architecture to network OCO relevant sensor systems, and directly supports tactics, techniques, and procedures (TTP) development for rapid operator use.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Previous President's Budget	7.267	7.348	7.526	-	7.526
Current President's Budget	13.330	7.348	7.367	-	7.367
Total Adjustments	6.063	-	-0.159	-	-0.159
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	6.063	-	-0.159	-	-0.159

**Change Summary Explanation**

FY11 funding totals include \$6.1M of appropriated Overseas Contingency Operations supplemental funding to develop a Core Technology GMTI / SIGINT Correlator.

FY11 Congressional General Reduction of 0.037M in Other Adjustment row.

FY13 funding decrease is due to higher Department of Defense priorities.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<b>Title:</b> Core Technology	13.330	7.348	7.367
<b>Description:</b> Accomplishments and planned efforts include development and update of NCCT Core Technology software; technical support to users, and management activities			
<b>FY 2011 Accomplishments:</b> Complete development efforts for version 4.2. Begin development of version 4.3 and continue core technology development version 5.0 and end user technical support efforts. Develop GMTI/SIGINT Correlator.			
<b>FY 2012 Plans:</b> Will continue to develop version 5.0 and complete development of version 4.3 of the core technology systems and maintain technical support efforts			
<b>FY 2013 Plans:</b>			

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Will continue to develop version 5.1 and complete development of version 5.0 of the core technology systems and maintain technical support efforts			
<b>Accomplishments/Planned Programs Subtotals</b>	13.330	7.348	7.367

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

<b>Line Item</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• O&M AF, PE 0305221F, NCCT: <i>NetCentric &amp; Suter Ops</i>	19.477	9.346	6.176	0.000	6.176	6.849	6.728	6.728	6.842	Continuing	Continuing

**E. Acquisition Strategy**

The NCCT capability is maintained and sustained with baseline / incremental upgrades plus any quick reaction capabilities (QRC) developments acquired through the 645th Aeronautical System Group (BIG SAFARI Program Office) in accordance with the BIG SAFARI Program Management Directive (PMD) and the BIG SAFARI Class Justification and Approval (J&A) documents for acquisition of supplies and services. The procured supplies and services are supported by the BIG SAFARI Life Cycle Management Plan (LCMP) across the full spectrum of system life cycle management -- developmental engineering to system retirement ("cradle to grave" support). Due to the rapidly changing threat environment encountered during our prolonged commitment to Overseas Contingency Operations (OCO), the acquisition program manager has the authority to redirect funding as necessary to meet current stated and emerging Combatant Commander requirements.

645 AESG, Wright Patterson AFB OH, manages the Cost Plus Fixed Fee (CPFF) contract used to develop the NCCT Core Technology. 645 AESG will develop NCCT software and common hardware to systems and platforms designated to field this ISR capability. Individual program management offices may contract directly with their prime contractors or through the 645 AESG for integration of this ISR capability on their respective systems and platforms. Current NCCT-enabled and programmed development systems include, but not limited to, RC-135 RIVET JOINT, C-130 SENIOR SCOUT, EC-130 COMPASS CALL, AF DCGS/U2, AOC, Gorgon Stare QRC, MC-12W Liberty Project Aircraft, Vehicle and Dismounted Exploitation Radar (VADER), P-3C, and national systems.

**F. Performance Metrics**

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Air Force		<b>DATE:</b> February 2012
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**Exhibit R-4A, RDT&E Schedule Details:** PB 2013 Air Force **DATE:** February 2012

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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Core Technology Baseline Version 4.3 Development & Test	1	2011	4	2012
Core Technology Baseline Version 5.0 Development & Test	1	2011	3	2013
Core Technology Baseline Version 5.1 Development & Test	3	2012	3	2014
Core Technology Baseline Version 5.2 Development & Test	2	2013	3	2015
Core Technology Baseline Version 5.3 Development & Test	2	2014	3	2016
Core Technology Baseline Version 5.4 Development & Test	2	2015	3	2017
Core Technology Baseline Version 5.5 Development & Test	2	2016	4	2017
Core Technology GMTI / SIGINT Correlator Development & Integration	4	2011	2	2013