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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Air Force **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305881F / <i>Rapid Cyber Acquisition</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	3.959	3.149	4.280	0.000	4.280	4.885	4.334	4.414	4.493	Continuing	Continuing
670374: <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>	-	3.959	3.149	4.280	0.000	4.280	4.885	4.334	4.414	4.493	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Rapid Cyber Acquisition (RCA) provides combatant commanders with the ability to rapidly respond to emerging cyber needs. RCA provides rapid fielding of capabilities in three areas: defend the Air Force portion of the DoD Global Information Grid (GIG) in response to new and emerging threats; network attack and cyber exploit capabilities through all phases of warfare; and new cyber operations capabilities that address gaps to support evolving missions.

Rapid Cyber Acquisition delivers cyber capabilities to 24th Air Force (24 AF) warfighters in mission-relevant timeframes. RCA provides capabilities in support of US national security interests, to counter current and future cyber threats, and to enhance the nation's ability to operate in cyberspace. It expedites cyber development and modifications of USAF and DoD cyber capabilities. RCA provides solution sets for cyberspace operations: attack, defense, command and control/situational awareness, exploitation, critical infrastructure support, and combat support. RCA provides integration, and technical support to other Service and Government Agency activities to leverage select Air Force-developed technologies and/or operational capabilities. RCA will develop materiel or non-materiel cyber solutions, conduct rapid prototyping, integration and transition activities for cyber systems. Activities include, but are not limited to: development of software/hardware cyber systems; integration and transition of DoD lab-developed cyber capabilities to the warfighter; testing and evaluation; program management administration, studies, analysis, pilots, demonstrations, and risk reduction for emerging technologies. Congress will be notified when projects have been approved for development by the end of the fiscal year via Congressional Notification Letters.

The FY2017 funding request was reduced by \$0.849 million to account for the availability of prior year execution balances.

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 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	
Previous President's Budget	4.102	3.149	4.817	0.000	4.817	
Current President's Budget	3.959	3.149	4.280	0.000	4.280	
Total Adjustments	-0.143	0.000	-0.537	0.000	-0.537	
• Congressional General Reductions	0.000	0.000				
• Congressional Directed Reductions	0.000	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	0.000	0.000				
• Congressional Directed Transfers	0.000	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	-0.143	0.000				
• Other Adjustments	0.000	0.000	-0.537	0.000	-0.537	
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>				<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<b>Title:</b> Hardware/Software Development				3.859	2.949	4.080
<b>Description:</b> Hardware and software information assurance risk reduction activities in support of urgent cyberspace defensive, offensive, and command and control/situational awareness requirements.						
<b>FY 2015 Accomplishments:</b>						
- Developed urgent cyber operational capabilities:						
-- Mission Oriented Mapping						
-- Automated Service Interruption						
-- Vulnerability Remediation Asset Manager						
-- Cyber Mission Team Tools						
<b>FY 2016 Plans:</b>						
- Continue development, integration, and technical support to Air Force, other Service, and other Government Agency activities						
- Leverage develop, and integrate select Air Force developed technologies and/or operational capabilities						
- Provide independent operational and technical assessments of cyber capabilities and vulnerabilities.						
<b>FY 2017 Plans:</b>						
- Will continue development, integration, and technical support to Air Force, other Services, and other Government Agency activities						
- Will continue to leverage select Air Force developed technologies and/or operational capabilities.						
- Will continue to provide independent operational and technical assessments of cyber capabilities and vulnerabilities						
<b>Title:</b> Hardware Integration				0.100	0.100	0.100

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<p><b>Description:</b> Continue integration of developed and acquired capabilities.</p> <p><b>FY 2015 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>- Continue integration and technical support of select Air Force developed technologies and/or operational capabilities</li> <li>- Provide independent operational and technical assessments of cyberspace capabilities and vulnerabilities</li> </ul> <p><b>FY 2016 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue integration and technical support of select Air Force developed technologies and/or operational capabilities</li> <li>- Provide independent operational and technical assessments of cyberspace capabilities and vulnerabilities</li> </ul> <p><b>FY 2017 Plans:</b></p> <ul style="list-style-type: none"> <li>- Will continue integration and technical support of select Air Force developed technologies and/or operational capabilities</li> <li>- Will continue to provide independent operational and technical assessments of cyberspace capabilities and vulnerabilities</li> </ul>			
<p><b>Title:</b> Test &amp; Evaluation</p> <p><b>Description:</b> Provides a secure test network environment for new tool development</p> <p><b>FY 2015 Accomplishments:</b> N/A</p> <p><b>FY 2016 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continue developmental testing of tool development prior to future fielding</li> <li>- Continue to provide a secure network environment for required test events</li> </ul> <p><b>FY 2017 Plans:</b></p> <ul style="list-style-type: none"> <li>- Will continue developmental testing of tool development prior to future fielding</li> <li>- Will continue to provide a secure network environment for required test events</li> </ul>	0.000	0.100	0.100
<b>Accomplishments/Planned Programs Subtotals</b>	3.959	3.149	4.280

<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• N/A: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-
<b>Remarks</b>											

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<b>E. Acquisition Strategy</b> Rapid Cyber Acquisition utilizes a flexible acquisition strategy that facilitates delivering material and non-material solutions to solve cyber needs. This approach allows flexibility for solutions to enter into the acquisitions process at any phase of the acquisitions life cycle management system. These plans are intended to meet the written acquisition planning requirements and guidance. All plans will contain sufficient information for the Milestone Decision Authority to determine readiness to enter into the applicable phase of the acquisition process. Rapid Cyber Acquisition considers existing contracting vehicles, including but not limited to: Network Centric Solutions (NETCENTS), NETCENTS 2, Information Technology Enterprise Solutions-2 (ITES-2), Government-Wide Acquisition Contract vehicles (Alliant, Encore II, Solutions for Enterprise-Wide Procurement IV (SEWP IV)), General Services Administration Federal Supply Schedules, HNCY Cyber Indefinite Delivery Indefinite Quantity (IDIQ) contract, National Security Agency vehicles and Cyber Warfare Systems Branch Class Justification and Approval document. Multiple award contractual vehicles, such as National Aeronautics and Space Administration's SEWP IV, provide a wide range of commercially-available products and services that should be able to meet many requirements related to Rapid Cyber Acquisition. These multiple-award vehicles have already met the statutory requirements of the Competition in Contracting Act and only require that Rapid Cyber Acquisition provide a fair opportunity to all contract holders, in accordance with Federal Acquisition Regulation 16.505, unless an exception to fair opportunity applies.		
<b>F. Performance Metrics</b> 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-3, RDT&amp;E Project Cost Analysis: PB 2017 Air Force</b>											<b>Date:</b> February 2016				
<b>Appropriation/Budget Activity</b> 3600 / 7						<b>R-1 Program Element (Number/Name)</b> PE 0305881F / <i>Rapid Cyber Acquisition</i>					<b>Project (Number/Name)</b> 670374 / <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>				

<b>Product Development (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Mission Oriented Mapping	MIPR	AFRL : Rome, NY	-	1.769	Dec 2015	0.000		0.170	Dec 2016	0.000		0.170	Continuing	Continuing	-
Secure Data Warehouse	MIPR	Northrup Grumman : McLean, VA	-	1.680	Feb 2015	0.000		0.000		0.000		0.000	Continuing	Continuing	-
One Way Link	TBD	TBD : TBD	-	0.000		1.000	Mar 2016	0.000		0.000		0.000	Continuing	Continuing	-
Install AF Infrastructure at CMF Sites	SS/FFP	IOMAXIS : Springfield, VA	-	0.200	Aug 2015	0.000		0.000		0.000		0.000	Continuing	Continuing	-
Deployed Access 92 IOS Ops Center	MIPR	AFRL : Rome, NY	-	0.000		0.649	Mar 2016	0.000		0.000		0.000	Continuing	Continuing	-
Automated Cyber Tool Development	MIPR	DARPA : Arlington, VA	-	0.000		0.600	Dec 2015	0.000		0.000		0.000	Continuing	Continuing	-
Cyber Operations Research Terminal	TBD	TBD : TBD	-	0.000		0.600	Feb 2016	0.000		0.000		0.000	Continuing	Continuing	-
Auto Compliance Tracking	MIPR	ASI Automation : San Diego, CA	-	0.110	Aug 2015	0.000		0.000		0.000		0.000	Continuing	Continuing	-
HW/SW Development	Various	Various : Various	-	0.000	Nov 2014	0.100	Jan 2016	3.810	Jan 2017	0.000		3.810	0.000	3.910	-
HW Integration	Various	Various : TBD	-	0.100	Jan 2015	0.100	Jan 2016	0.100	Jan 2017	0.000		0.100	0.000	0.300	-
<b>Subtotal</b>			-	3.859		3.049		4.080		0.000		4.080	-	-	-

<b>Support (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
<b>Subtotal</b>			-	-		-		-		-		-	-	-	-

<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
46TS Det 2	MIPR	TASC : San Antonio, TX	-	0.100	Jan 2015	0.100	Jan 2016	0.200	Jan 2017	0.000		0.200	0.000	0.400	-



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2017 Air Force		<b>Date:</b> February 2016
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	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Mission Oriented Mapping																												
Secure Data Warehouse																												
One Way Link																												
Install AF Infrastructure at CMF Team Sites																												
Deployed Access 92 IOS Ops Center																												
Automated Cyber Tool Development																												
Cyber Operations Research Terminal (Details Classified)																												
Auto Compliance Tracking																												
HW/SW Development																												
HW/SW Integration, Test and Evaluation																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Air Force		<b>Date:</b> February 2016
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Mission Oriented Mapping	4	2015	4	2016
Secure Data Warehouse	2	2015	2	2016
One Way Link	2	2016	2	2017
Install AF Infrastructure at CMF Team Sites	4	2015	4	2016
Deployed Access 92 IOS Ops Center	2	2016	2	2017
Automated Cyber Tool Development	1	2016	1	2017
Cyber Operations Research Terminal (Details Classified)	2	2016	4	2016
Auto Compliance Tracking	4	2015	4	2016
HW/SW Development	1	2015	4	2021
HW/SW Integration, Test and Evaluation	2	2015	4	2021