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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0207423F: Advanced Communications Systems							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	20.715	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
675189: C2ISR JTRS Integration	-	20.715	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
^{##} The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY2013 Project 675189, C2ISR JTRS Integration, efforts was terminated, in order to allow the Air Force to develop an integration solution to transistion into a COTS/ NDI strategy to be excuted by platform programs.												
A. Mission Description and Budget Item Justification												
Joint Tactical Radio System (JTRS) is the Department of Defense (DoD) family of interoperable, modular, software-defined radios that will form the foundation of radio frequency information transmission for Joint Vision 2020. Joint Tactical Radio Systems (JTRS) will link the power of the Global Information Grid (GIG) to the warfighter in applying fire effects and achieving overall battlefield superiority. By developing and implementing an open architecture of cutting-edge radio waveform technology, multiple radio types (e.g., handheld, manpack, ground-mobile, airborne, etc.) are now capable of communicating with one another. JTRS radios are intended to interoperate with existing radio systems and improve Joint warfighting through a series of new, joint networking waveforms enabling communication via voice, data, and video over mobile, adhoc, internet protocol (IP) based networks. Each radio will operate as a node in the network to ensure secure wireless communication and networking services for airborne, mobile and fixed forces. These goals extend to U.S. allies, Joint and Coalition partners, and, in time, disaster response personnel. JTRS will make the Air Force more effective in Joint warfighting through a series of new, joint networking waveforms. These waveforms included the Mobile User Objective System (MUOS), which provides next generation SATCOM beyond-line-of-sight (BLOS) communications, as well as the Wideband Networking Waveform (WNW) and the Soldier Radio Waveform (SRW), which provide interoperability with Army ground forces from the brigade level down to the dismounted soldier. Together these waveforms enable Joint Close Air Support (JCAS), Combat Search and Rescue (CSAR), and other Joint missions. The JTRS program is built around an open Software Communications Architecture (SCA), allowing common software waveform applications to be implemented across the family of radios to provide joint-service, allied, and coalition interoperability. The Enterprise Business Model, incorporating a common set of shared open system standards, promotes competition and reduces procurement costs for the DoD.												
This program is in Budget Activity 7, Operational Sysytem Development because this activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production in the current or subsequent fiscal year												

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B. Program Change Summary (\$ in Millions)		FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget		43.964	0.000	0.000	-	0.000
Current President's Budget		20.715	0.000	0.000	-	0.000
Total Adjustments		-23.249	0.000	0.000	-	0.000
• Congressional General Reductions		-	0.000			
• Congressional Directed Reductions		-	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		-	0.000			
• Congressional Directed Transfers		-	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		0.000	0.000			
• Other Adjustments		-23.249	0.000	0.000	-	0.000
Change Summary Explanation In FY2013, Project number 675189, C2ISR JTRS Integration, was terminated.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2012	FY 2013	FY 2014
Title: Systems Engineering and Integration				17.523	0.000	0.000
Description: Systems engineering and integration to develop and certify solutions to Air Force unique requirements for the integration of JTRS compliant radios into Air Force platforms.						
FY 2012 Accomplishments: Funded hardware and software development of a common integration solution for the integration of JTRS compliant terminals onto a variety of Air Force platforms. Also funding risk reductions activities and the development of integration solutions to meet the unique requirements of each host platform.						
Title: Platform Planning and Integration				0.600	0.000	0.000
Description: Platform planning and integration support						
FY 2012 Accomplishments: Funded non-recurring engineering (NRE) for integration of JTRS Multi Functional Information Distribution System (MIDS) terminal on the JSTARS aircraft. Continuing to fund integration efforts to support IP networking and data communication.						
Title: Test and Evaluation				0.667	0.000	0.000
Description: Interoperability testing and evaluation to perform risk reduction to ensure successful platform integration.						

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C. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Funded interoperability testing and evaluation to perform risk reduction to ensure successful platform integration.												
Title: PMA										1.925	0.000	0.000
Description: Program Management Administration												
FY 2012 Accomplishments: Program Management Administration												
Accomplishments/Planned Programs Subtotals										20.715	0.000	0.000
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• APAF: BA05: Line Item #	58.416	11.639	3.290		3.290	4.547	0.000	0.000	0.000	0.000	0.000	
OTHACF: Other Aircraft												
• OPAF: BA03: Line Item #	38.567	56.229	13.816		13.816	67.153	32.999	23.714	24.141	Continuing	Continuing	
837100: Tactical C-E Equipment												
Remarks												
E. Acquisition Strategy												
In 2005, the DoD established the Joint Program Executive Office (JPEO) for JTRS. The JPEO has full directive authority for all JTRS research, development, testing, and evaluation of waveforms, radios, common ancillaries, network management, and associated software. The JPEO is funded jointly by the Services in PE 0604280N. New PE in FY14 0605030F												
Air Force JTRS Program Office will perform system engineering integration, to deliver an interoperable, fully synchronized, deployable JTRS system under various contract awards. The program office will lead the development of common integration hardware and software that can be used across multiple Air Force platforms. The AF JTRS program office will also work with the JPEO, industry, and the platform program offices to develop integration solutions specific to each platform. This effort will assist various AF platform users in acquiring and integrating the next generation communications system, to include all key documentation (CONOPS, TTPs, ICDs, TRDs, etc.)												
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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development						PE 0207423F: Advanced Communications Systems				675189: C2ISR JTRS Integration					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering, Planning, and Integration-1	SS/FFP	Rockwell Collins:Cedar Rapids, IA	-	0.490	Feb 2012	0.000		0.000		-		0.000	0.000	0.490	48.766
Systems Engineering, Planning, and Integration-2	TBD	Boeing:Long Beach, CA	-	1.337	Sep 2012	0.000		0.000		-		0.000	0.000	1.337	13.201
Systems Engineering, Planning, and Integration-3	SS/CPFF	Nortrop Grumman:Redondo Beach, CA	-	1.213	Jun 2012	0.000		0.000		-		0.000	0.000	1.213	14.295
Systems Engineering, Planning, and Integration-4	SS/TBD	System Research and Application:Fairfax, VA	-	2.750	Aug 2012	0.000		0.000		-		0.000	0.000	2.750	15.453
Systems Engineering, Planning, and Integration-5	C/Various	Various:Various,	-	4.559	Apr 2012	0.000		0.000		-		0.000	Continuing	Continuing	79.795
Systems Engineering, Planning, and Integration-6	TBD	Various:Various,	-	8.658		0.000		0.000		-		0.000	Continuing	Continuing	
Subtotal			0.000	19.007		0.000		0.000		0.000		0.000			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Activities and Support	C/Various	Various:Various,	-	1.388	Feb 2012	0.000		0.000		-		0.000	Continuing	Continuing	24.044
Subtotal			0.000	1.388		0.000		0.000		0.000		0.000			24.044
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test Planning and Test Agency Support	SS/ Various	Various:Various,	-	0.320	Feb 2012	0.000		0.000		-		0.000	Continuing	Continuing	17.380

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Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	0.320		0.000		0.000		0.000		0.000			17.380

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA	Various	Various:Various	-	0.000		0.000		0.000		-		0.000	0.000	0.000	0.000
Subtotal			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000

			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	20.715		0.000		0.000		0.000		0.000			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force		DATE: April 2013
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Air Force JTRS Development and Integration Schedule

	FY12	FY13	FY14	FY15	FY16	FY17	FY18
System Engineering, Planning and Integration							
Platform Planning and Integration							
Operational and Interoperability Test Plan							

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force		DATE: April 2013
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Systems Engineering	1	2012	4	2012
Platform Planning and Integration	1	2012	4	2012
Operational & Interoperability Test Planning	1	2012	4	2012