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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army	DATE: February 2012
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				PE 0604290A: <i>Mid-tier Networking Vehicular Radio (MNVR)</i>							
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	-	-	12.636	-	12.636	29.341	9.897	-	-	Continuing	Continuing
DW1: <i>MID-TIER WIDEBAND NETWORKING VEHICULAR RADIO MNVR</i>	-	-	12.636	-	12.636	29.341	9.897	-	-	Continuing	Continuing

Note

The 2013 budget will be used to evaluate commercial Non-Developmental Item (NDI) Mid-Tier Networking Vehicular Radio (MNVR) systems meet the standard operational requirements prior to contract award.

A. Mission Description and Budget Item Justification

MNVR encourages an industry solution for a multi-channel vehicular radio which will host JTRS networking waveforms. The MNVR will be a Non-Development Item (NDI) procurement. The MNVR represents a subset of functionality which was demonstrated in the JTRS Ground Mobile Radios (GMR) development program. The MNVR will provide networking capability using the Wideband Networking Waveform (WNW) and Soldier Radio Waveform (SRW) to connect unmanned sensors to decision makers "On-The-Move" (OTM) which will significantly reduce the decision cycle. MNVR will provide a mobile internet-like Mobile Ad-Hoc Networking (MANET) capability; interoperable with current force radios through simultaneous and secure voice, data and video communications. MNVR will support Battle Command, sensor-to-shooter, sustainment and survivability applications in a full range of military operations on vehicular platforms.

B. Program Change Summary (\$ in Millions)	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	12.636	-	12.636
Total Adjustments	-	-	12.636	-	12.636
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	12.636	-	12.636

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604290A: Mid-tier Networking Vehicular Radio (MNVR)				PROJECT DW1: MID-TIER WIDEBAND NETWORKING VEHICULAR RADIO MNVR			
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
DW1: MID-TIER WIDEBAND NETWORKING VEHICULAR RADIO MNVR	-	-	12.636	-	12.636	29.341	9.897	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

Note

Joint Tactical Radio System (JTRS) is the Department of Defense (DoD) family of common radios that will form the foundation of information radio frequency transmission for Joint Vision 2020. The Mid-Tier Networking Vehicular Radio (MNVR) Program complements the JTRS family of interoperable, modular software-defined radios which operate as nodes in a network to ensure secure wireless communication and networking services for mobile and fixed forces. The MNVR is a key element of the Global Information Grid (GIG) transport segment, in that it enables net-centric warfare at the tactical level. The MNVR will allow the GIG's internet-like capabilities to reach the tactical edge of the battlespace while meeting the mobility, security, and reliability needs of the DoD.

A. Mission Description and Budget Item Justification

MNVR encourages an industry solution for a multi-channel vehicular radio which will host JTRS networking waveforms. The MNVR will be a Non-Development Item (NDI) procurement. The MNVR represents a subset of functionality which was demonstrated in the JTRS Ground Mobile Radios (GMR) development program. The MNVR will provide networking capability using the Wideband Networking Waveform (WNW) and Soldier Radio Waveform (SRW) to connect unmanned sensors to decision makers "On-The-Move" (OTM) which will significantly reduce the decision cycle. MNVR will provide a mobile internet-like Mobile Ad-Hoc Networking (MANET) capability; interoperable with current force radios through simultaneous and secure voice, data and video communications. MNVR will support Battle Command, sensor-to-shooter, sustainment and survivability applications in a full range of military operations on vehicular platforms.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2011	FY 2012	FY 2013
Title: Establishment of the Mid-Tier Networking Vehicular Radio (MNVR) Program	-	-	12.636
Description: The Program Office will test and evaluate that industry solutions to a Non-Development Item (NDI) solution support Joint Tactical Radio System (JTRS) waveform and user operational requirements.			
FY 2013 Plans: Support program management and customer test activities to execute a Non-Developmental Item (NDI) strategy for a mid-tier networking vehicular capability.			
Accomplishments/Planned Programs Subtotals	-	-	12.636

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C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• B51001: <i>Mid-Tier Networking Vehicular Radio (MNVR)</i>			86.219		86.219		99.750	160.980	170.528	Continuing	Continuing
D. Acquisition Strategy											
The JTRS MNVR program is a Non-Developmental Item (NDI) acquisition approach resulting in a single award, Indefinite Delivery, Indefinite Quantity (IDIQ) contract with Firm Fixed Price (FFP) with delivery incentive for HW and Cost Plus Fixed Fee (CPFF) for logistics support services. Delivery incentives along with performance based payments will be utilized in order to incentivize the Contractor for early deliveries of the MNVR systems. MNVR assets shall be used to conduct an Initial Operational Test & Evaluation (IOT&E) for a Full Rate Production In-Process Review (FRP IPR), and a follow on full and open competition FFP contract will be pursued against the tested capabilities.											
E. Performance Metrics											
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army											DATE: February 2012			
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Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
PM Support	MIPR	Aberdeen Proving Ground:Maryland	-	-		7.100		-		7.100	0.000	7.100	0.000	
Subtotal			-	-		7.100		-		7.100	0.000	7.100	0.000	
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Test Support	MIPR	Aberdeen Proving Ground:Maryland	-	-		5.536		-		5.536	39.238	44.774	0.000	
Subtotal			-	-		5.536		-		5.536	39.238	44.774	0.000	
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			-	-		12.636		-		12.636	39.238	51.874	0.000	
Remarks														

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army			DATE: February 2012		
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	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
Source Selection Performance Demonstration																												
DAB																												
Contract Award																												
Production																												
Delivery																												
Government Validation Test																												
IOT&E																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army			DATE: February 2012
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Source Selection Performance Demonstration	4	2012	2	2013
DAB	1	2013	1	2013
Contract Award	2	2013	2	2013
Production	2	2013	1	2014
Delivery	2	2014	2	2015
Government Validation Test	2	2014	3	2014
IOT&E	1	2015	1	2015