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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604290A: Mid-tier Networking Vehicular Radio (MNVR)							
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	-	47.000	12.636	23.341	-	23.341	9.897	0.000	0.000	0.000	Continuing	Continuing
DW1: MID-TIER WIDEBAND NETWORKING VEHICULAR RADIO MNVR	-	47.000	12.636	23.341	-	23.341	9.897	0.000	0.000	0.000	Continuing	Continuing
# 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 FY 2014 Base funding supports program management office and system security certification activities to execute a Non-Developmental Item (NDI) strategy for a Mid-Tier Networking Vehicular capability. FY2012 Congressional Add of \$47.000 million released to PM MNVR upon receipt of funds in August 2012.												
A. Mission Description and Budget Item Justification The Mid-tier Networking Vehicular Radio (MNVR) encourages an industry solution for a multi-channel vehicular radio which will host Joint Tactical Networking Center (JTNC) waveforms, addressing the Army's requirement for Mid-Tier Wideband Networking (MWN) capabilities to support the Warfighter by providing an extension of data services from the upper tactical network at brigade and battalion to the lower tactical network at company and platoon echelon platforms. The Mid-tier Networking Vehicular Radio (MNVR) is a Non-Developmental Item (NDI) Initiative that equips the joint military with a multiple channel, Type-1 classification radio providing data communication service capabilities for mobile and fixed forces supporting mission planning, Command and Control (C2), and situational awareness from brigade to platoon levels. The advanced network waveforms provide rapid distribution of data and imagery with increased information assurance protection and automatic routing across complex terrain and under adverse weather conditions.												

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
2040: Research, Development, Test & Evaluation, Army		PE 0604290A: Mid-tier Networking Vehicular Radio (MNVR)			
BA 5: System Development & Demonstration (SDD)					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	0.000	12.636	29.341	-	29.341
Current President's Budget	47.000	12.636	23.341	-	23.341
Total Adjustments	47.000	0.000	-6.000	-	-6.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	47.000	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-6.000	-	-6.000

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System 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)	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
DW1: MID-TIER WIDEBAND NETWORKING VEHICULAR RADIO MNVR	-	47.000	12.636	23.341	-	23.341	9.897	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles												
# 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												
The Mid-tier Networking Vehicular Radio (MNVR) encourages an industry solution for a multi-channel vehicular radio which will host Joint Tactical Networking Center (JTNC) networking waveforms, addressing the Army's requirement for Mid-Tier Wideband Networking (MWN) capabilities to support the Warfighter by providing an extension of data services from the upper tactical network at brigade and battalion to the lower tactical network at company and platoon echelon platforms. The MNVR provides the Army with the Multi-tier Wideband Networking (MWN) waveform capability with a dynamic, scalable, on the move (OTM) network architecture, connecting the Warfighter to the Mission Command (MC) Network and enhances capability to exchange voice and data simultaneously via the desired government owned Mobile Ad-hoc Networking (MANET) Wideband Networking Waveform (WNW) faster than current systems and at a lower cost solution than MNVR's predecessor, the Ground Mobile Radio (GMR).												
A. Mission Description and Budget Item Justification												
The Mid-tier Networking Vehicular Radio (MNVR) encourages an industry solution for a multi-channel vehicular radio which will host Joint Tactical Networking Center (JTNC) networking waveforms, addressing the Army's requirement for Mid-Tier Wideband Networking (MWN) capabilities to support the Warfighter by providing an extension of data services from the upper tactical network at brigade and battalion to the lower tactical network at company and platoon echelon platforms.												
The Mid-tier Networking Vehicular Radio (MNVR) is a Non-Developmental Item (NDI) Initiative that equips the joint military with a multiple channel, Type-1 classification radio providing data communication service capabilities for mobile and fixed forces supporting mission planning, Command and Control (C2), and situational awareness from brigade to platoon levels. The advanced network waveforms provide rapid distribution of data and imagery with increased information assurance protection and automatic routing across complex terrain and under adverse weather conditions.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Mid-Tier Networking Vehicular Radio (MNVR) Program									47.000	12.636	23.341	
									Articles: 0	0		

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APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>System Development & Demonstration (SDD)</i>					R-1 ITEM NOMENCLATURE PE 0604290A: <i>Mid-tier Networking Vehicular Radio (MNVR)</i>			PROJECT DW1: <i>MID-TIER WIDEBAND NETWORKING VEHICULAR RADIO MNVR</i>			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2012	FY 2013	FY 2014	
Description: RDTE Funding supports Program Office and contract development. Supports efforts to evaluate Source Selection and Platform Integration and Test of industry solutions for a Non-Developmental Item (NDI) solution support for Joint Tactical Networking Center (JTNC) waveforms and user operational requirements.											
FY 2012 Accomplishments: FY 2012 Funding supports Program Office establishment and award of competitive FFP two-year IDIQ contract in May 2013 to manufacture and deliver MNVR units to Army Capability Set 14/15 brigades. Supports program management, vehicular platform integration, and customer test activities to execute a Non-Developmental Item (NDI) strategy for a mid-tier networking vehicular capability, including vendor Manufacturing Readiness Assessments, Government Lab Test, and Source Selection Performance Demonstration (SSPD) for contract evaluation.											
FY 2013 Plans: FY 2013 Funding supports program management activities to execute a Non-Developmental Item (NDI) strategy for a mid-tier networking vehicular capability.											
FY 2014 Plans: FY 2014 Funding supports program management and system security certification activities to execute a Non-Developmental Item (NDI) strategy for a mid-tier networking vehicular capability, including National Security Agency (NSA) certification, Department of Defense Information Assurance Certification and Accreditation Process (DIACAP) assessment, Counter Remote Control Radio Electronic Warfare (CREW) testing, System Threat Assessment Report (STAR), and Public Key Infrastructure (PKI) certification.											
Accomplishments/Planned Programs Subtotals								47.000	12.636	23.341	
C. 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
• B51001: <i>Mid-Tier Networking Vehicular Radio (MNVR)</i>		86.219	19.200		19.200	83.700	83.700	83.700	86.616	Continuing	Continuing
Remarks The Mid-tier Networking Vehicular Radio (MNVR) is a Non Developmental Item (NDI) Initiative that equips the joint military with a multiple channel, Type 1 classification radio providing data communication service capabilities for mobile and fixed forces supporting mission planning, Command and Control (C2), and situational awareness from brigade to platoon levels. The advanced network waveforms provide rapid distribution of data and imagery with increased information assurance protection and automatic routing across complex terrain and under adverse weather conditions.											

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<u>D. Acquisition Strategy</u> The MNVR encourages an industry solution for a multi-channel vehicular radio which will host Joint Tactical Networking Center (JTNC) networking waveforms, addressing the Army's requirement for Mid-Tier Wideband Networking (MWN) capabilities. MNVR provides an extension of data services from the upper tactical network at brigade and battalion to the lower tactical network at company and platoon echelon platforms. PM MNVR Phase One is the procurement of the MNVR Directed Requirement Non-Developmental Item (NDI) Solution resulting in a Competitive, Single-Award, Indefinite Delivery, Indefinite Quantity (IDIQ) Firm-Fixed Price (FFP) contract award with a two-year production period, planned for June 2013. PM MNVR Phase Two is the procurement of the MNVR Program of Record (PoR) Non-Developmental Item (NDI) Solution resulting in a Competitive, Multiple-Award, Indefinite Delivery, Indefinite Quantity (IDIQ) Firm-Fixed Price (FFP) contract award that will qualify two vendors for competitive Delivery Orders, with a five-year production period. <u>E. Performance Metrics</u> 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 2014 Army												DATE: April 2013			
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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
Program Management Support	MIPR	Aberdeen Proving Ground:Maryland	0.000	24.272		7.100		13.941		-		13.941	5.912	51.225	0.000
Subtotal			0.000	24.272		7.100		13.941		0.000		13.941	5.912	51.225	0.000
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
System Development Analysis and Product Source Selection	MIPR	Aberdeen Proving Ground:Maryland	0.000	12.298		-		0.590		-		0.590	0.250	13.138	0.000
Subtotal			0.000	12.298		0.000		0.590		0.000		0.590	0.250	13.138	0.000
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
Systems Test and Evaluation	MIPR	Aberdeen Proving Ground:Maryland	0.000	10.430		5.536		8.810		-		8.810	3.735	28.511	0.000
Subtotal			0.000	10.430		5.536		8.810		0.000		8.810	3.735	28.511	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	47.000		12.636		23.341		0.000		23.341	9.897	92.874	0.000
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>System Development & Demonstration (SDD)</i>			R-1 ITEM NOMENCLATURE PE 0604290A: <i>Mid-tier Networking</i> <i>Vehicular Radio (MNVR)</i>		
			PROJECT DW1: <i>MID-TIER WIDEBAND</i> <i>NETWORKING VEHICULAR RADIO MNVR</i>		

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
Directed Requirement (DR) Contract Award																												
Directed Requirement Delivery Order 1 Production																												
Material Development Decision (MDD)																												
Directed Requirement Order 1 Delivery																												
DR Initial Operational Test and Evaluation (IOT&E)																												
Initial Operating Capability (IOC)																												
Program of Record (PoR) Contract Award																												

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

Events	Start		End	
	Quarter	Year	Quarter	Year
Directed Requirement (DR) Contract Award	3	2013	3	2013
Directed Requirement Delivery Order 1 Production	3	2013	1	2015
Material Development Decision (MDD)	4	2013	4	2013
Directed Requirement Order 1 Delivery	2	2014	2	2015
DR Initial Operational Test and Evaluation (IOT&E)	3	2014	3	2014
Initial Operating Capability (IOC)	1	2015	1	2015
Program of Record (PoR) Contract Award	2	2015	2	2015