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

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 7: Operational Systems Development</i>					<b>R-1 Program Element (Number/Name)</b> PE 0300349A / <i>Win-T Increment 2 - Initial Networking</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	3.123	3.800	4.867	-	4.867	6.046	4.833	5.104	13.505	0.000	41.278
EE7: <i>WIN-T Increment 2 - Initial Networking</i>	-	3.123	3.800	4.867	-	4.867	6.046	4.833	5.104	13.505	0.000	41.278

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

Warfighter Information Network - Tactical Increment 2 (WIN-T Inc 2) provides the Army with On-The-Move (OTM) networking capability. The WIN-T Inc 2 network retains capabilities delivered by WIN-T Inc 1 and by leveraging proven Government and commercial technologies, adds greater network throughput and automated network management to optimize planning (to include spectrum use), initialization, monitoring and troubleshooting. WIN-T Inc 2 employs Satellite Communications OTM to extend the network in maneuver Brigade Combat Teams to Company-level through FY2018. Using equipment mounted on combat platforms, WIN-T Inc 2 delivers a mobile capability that reduces reliance on fixed infrastructure and allows Commanders to move on the battlefield while retaining situational awareness and mission command capabilities. Using the Highband Networking Radio, with the Highband Networking Waveform and high performance antennas, the WIN-T Inc 2 Line-of-Sight network offers an adaptive 30-Megabit per second aggregate throughput to Commanders in their Command Post or in their vehicle. The WIN-T Inc 2 network is self-forming, which means it automatically creates transmission paths based on terrain and environmental conditions; and self-healing, meaning that transmission paths will automatically re-route traffic to complete network transactions and calls even if one or more nodes break down or lose connectivity. This capability offers greater network reliability and better end-to-end connectivity than traditional point-to-point networks. WIN-T Inc 2 introduces the network management capability needed to keep mobile and dispersed forces networked through automated planning, initialization, monitoring, and troubleshooting. Finally, WIN-T Inc 2 adopts "Colorless Core" technology that encrypts both classified and unclassified user information in the network and minimizes the number of users on the "core" of the network. The Colorless Core allows commanders to utilize the tactical network without fear of the enemy intercepting information. Colorless Core is a technical insertion in the WIN-T Inc 1b network which enables information sharing between WIN-T Inc 1b and WIN-T Inc 2.

Inc 3 developed NetOps software and NetCentric Waveform (NCW) updates will be inserted into Inc 2 equipped units.

FY17 funds support Operational Testing (NIE 17.2) and continues tech insertion of NetOps Build 5 and upgrade to NCW 10.x.

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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	3.247	3.800	0.000	-	0.000
Current President's Budget	3.123	3.800	4.867	-	4.867
Total Adjustments	-0.124	0.000	4.867	-	4.867
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.124	-			
• Other Adjustments 1	-	-	4.867	-	4.867

**Change Summary Explanation**

FY 2017 funds support Operational Testing (NIE 17.2) and continues tech insertion of NetOps Build 5 and upgrades to NetCentric Waveform (NCW) 10.x.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 2040 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0300349A / Win-T Increment 2 - Initial Networking				<b>Project (Number/Name)</b> EE7 / WIN-T Increment 2 - Initial Networking			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
EE7: WIN-T Increment 2 - Initial Networking	-	3.123	3.800	4.867	-	4.867	6.046	4.833	5.104	13.505	0.000	41.278
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Warfighter Information Network - Tactical Increment 2 (WIN-T Inc 2) provides the Army with On-The-Move (OTM) networking capability. The WIN-T Inc 2 network retains capabilities delivered by WIN-T Inc 1 and by leveraging proven Government and commercial technologies, adds greater network throughput and automated network management to optimize planning (to include spectrum use), initialization, monitoring and troubleshooting. WIN-T Inc 2 employs Satellite Communications OTM to extend the network in maneuver Brigade Combat Teams to Company-level through FY2018. Using equipment mounted on combat platforms, WIN-T Inc 2 delivers a mobile capability that reduces reliance on fixed infrastructure and allows Commanders to move on the battlefield while retaining situational awareness and mission command capabilities. Using the Highband Networking Radio, with the Highband Networking Waveform and high performance antennas, the WIN-T Inc 2 Line-of-Sight network offers an adaptive 30-Megabit per second aggregate throughput to Commanders in their Command Post or in their vehicle. The WIN-T Inc 2 network is self-forming, which means it automatically creates transmission paths based on terrain and environmental conditions; and self-healing, meaning that transmission paths will automatically re-route traffic to complete network transactions and calls even if one or more nodes break down or lose connectivity. This capability offers greater network reliability and better end-to-end connectivity than traditional point-to-point networks. WIN-T Inc 2 introduces the network management capability needed to keep mobile and dispersed forces networked through automated planning, initialization, monitoring, and troubleshooting. Finally, WIN-T Inc 2 adopts "Colorless Core" technology that encrypts both classified and unclassified user information in the network and minimizes the number of users on the "core" of the network. The Colorless Core allows commanders to utilize the tactical network without fear of the enemy intercepting information. Colorless Core is a technical insertion in the WIN-T Inc 1b network which enables information sharing between WIN-T Inc 1b and WIN-T Inc 2.

Inc 3 developed NetOps software and NetCentric Waveform (NCW) updates will be inserted into Inc 2 equipped units.

FY17 funds the development efforts for the Distributed Embedded SATCOM On-The-Move (OTM) Standard Terminal Architecture (DESSTA) for ABCTs.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Title:</b> Product Development	0.396	0.222	3.970	-	3.970
<b>Description:</b> Product Development					
<b>FY 2015 Accomplishments:</b> Development efforts for Technical Insertions.					
<b>FY 2016 Plans:</b>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0300349A / Win-T Increment 2 - Initial Networking	<b>Project (Number/Name)</b> EE7 / WIN-T Increment 2 - Initial Networking

<b>B. Accomplishments/Planned Programs (\$ 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>
Development efforts for Technical Insertions. <b>FY 2017 Base Plans:</b> Development efforts for the Distributed Embedded SATCOM On-The-Move (OTM) Standard Terminal Architecture (DESSTA) for ABCTs.					
<b>Title:</b> Test and Evaluation <b>Description:</b> Test and Evaluation <b>FY 2015 Accomplishments:</b> FY15 funding will be used for the second FOT&E activities, including test report required for Full Rate Production Defense Acquisition Board (DAB) and NIE 15.1 which will test Stryker Platform flat bottom variant. <b>FY 2016 Plans:</b> FY16 funds support Operational Testing (NIE 16.2) and tech insertion of NetOps Build 5 and upgrade to NetCentric Waveform (NCW) 10.x. <b>FY 2017 Base Plans:</b> FY17 funds support Operational Testing (NIE 17.2) and continues tech insertion of NetOps Build 5 and upgrade to NetCentric Waveform (NCW) 10.x.	2.714	3.558	0.473	-	0.473
<b>Title:</b> Management Services <b>Description:</b> Provides system engineering and program management support <b>FY 2015 Accomplishments:</b> Continues system engineering and program management support. <b>FY 2016 Plans:</b> Continues system engineering and program management support. <b>FY 2017 Base Plans:</b> Continues system engineering and program management support.	0.013	0.020	0.424	-	0.424
<b>Accomplishments/Planned Programs Subtotals</b>	3.123	3.800	4.867	-	4.867

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

Line Item	FY 2015	FY 2016	FY 2017	FY 2017	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Cost To	
			Base	OCO	Total					Complete	Total Cost
• WIN-T Inc 2: WIN-T Inc 2 Procurement	361.709	416.463	291.933	-	291.933	601.523	588.988	688.926	653.884	Continuing	Continuing
• WINT Inc 2 OCO: WIN-T Inc 2 OCO	-	-	0.000	1.288	1.288	-	-	-	-	0	1.288
• Inc 2 Spares: WIN-T Inc 2 Procurement Spares	26.100	39.532	19.808	-	19.808	23.935	23.932	23.930	25.419	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

The current Initial Production contract awarded in 2010 for procurement of Low Rate Initial Production Lots. Lots 1-3 were procured prior to the Full Rate Production (FRP) decision review. Approval for full rate production was granted at the Defense Acquisition Board on May 11, 2015. Lots 4-6 have been procured since the FRP decision review. Lot 7 will be procured in 2Q FY 2016. A Follow-On Production contract is currently under negotiation and will be used for Lots 8 and 9 with additional follow-on contracts awarded to support the remaining program procurement requirements.

Inc 3 developed NetOps software and NetCentric Waveform will tested at Network Integration Evaluation (NIE) 16.2 events and will be inserted into Inc 2 equipped units.

**E. Performance Metrics**

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army												Date: February 2016				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
2040 / 7				PE 0300349A / Win-T Increment 2 - Initial Networking				EE7 / WIN-T Increment 2 - Initial Networking								
<b>Management Services (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Management Services	C/ FFPLOE	Various : Various	0.000	0.013		0.020		0.424		-		0.424	0	0.457	0	
<b>Subtotal</b>			0.000	0.013		0.020		0.424		-		0.424	0.000	0.457	0.000	
<b>Product Development (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Product Development	MIPR	CERDEC : Various	0.000	0.396		0.222		3.970		-		3.970	0	4.588	0	
<b>Subtotal</b>			0.000	0.396		0.222		3.970		-		3.970	0.000	4.588	0.000	
<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	Various	Various : Various	0.000	2.714		3.558		0.473		-		0.473	0	6.745	0	
<b>Subtotal</b>			0.000	2.714		3.558		0.473		-		0.473	0.000	6.745	0.000	
<b>Project Cost Totals</b>			0.000	3.123		3.800		4.867		-		4.867	0.000	11.790	0.000	
<b>Remarks</b>																

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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0300349A / Win-T Increment 2 - Initial Networking	<b>Project (Number/Name)</b> EE7 / WIN-T Increment 2 - Initial Networking
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Event Name	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
	LRIP Production	LRIP																										
Network Integrated Evaluation 15.1 (FOT&E) (Stryker)																												
Log Verification					Log Verification																							
(1) Army Material Release					Army MR 1 ▲																							
(2) Full Rate Production Decision Review					FRP DR 2 ▲																							
(3) Delivery Order Award 2					DO (Lot 6) 3 ▲																							
Full Rate Production/Fielding													FRP/Fielding															
(4) Delivery Order Award 3					DO (LOT 7) 4 ▲																							
(5) Follow-on Production Award									Follow-on Production Award 5 ▲																			
NIE 16.2 NetOps/NCW					NIE 16.2 NetOps/NCW																							
(6) Delivery Order Award 4									DO (Lot 8) 6 ▲																			
Logistics Demonstration									Log Demo																			
(7) NIE 17.2													NIE 17.2 7 ▲															

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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0300349A / Win-T Increment 2 - Initial Networking	<b>Project (Number/Name)</b> EE7 / WIN-T Increment 2 - Initial Networking
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Event Name	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													
(1) Delivery Order Award 5									DO (Lot 9)				▲ <sup>1</sup>																												
(2) NIE 18.2																					▲ <sup>2</sup>																				
(3) Contract Award & Delivery Order Award 6																									▲ <sup>3</sup>																
(4) NIE 19.2																									▲ <sup>4</sup>																
(5) Delivery Order Award 7																													▲ <sup>5</sup>												
(6) NIE 20.2																																	▲ <sup>6</sup>								
(7) Delivery Order Award 8																																					▲ <sup>7</sup>				

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

Events	Start		End	
	Quarter	Year	Quarter	Year
LRIP Production	2	2010	3	2015
Network Integrated Evaluation 15.1 (FOT&E) (Stryker)	1	2015	1	2015
Log Verification	1	2016	1	2016
Army Material Release	3	2015	3	2015
Full Rate Production Decision Review	3	2015	3	2015
Delivery Order Award 2	3	2015	3	2015
Full Rate Production/Fielding	3	2015	4	2020
Delivery Order Award 3	2	2016	2	2016
Follow-on Production Award	3	2016	3	2016
NIE 16.2 NetOps/NCW	3	2016	3	2016
Delivery Order Award 4	1	2017	1	2017
Logistics Demonstration	1	2017	1	2017
NIE 17.2	3	2017	3	2017
Delivery Order Award 5	1	2018	1	2018
NIE 18.2	3	2018	3	2018
Contract Award & Delivery Order Award 6	1	2019	1	2019
NIE 19.2	3	2019	3	2019
Delivery Order Award 7	1	2020	1	2020
NIE 20.2	3	2020	3	2020
Delivery Order Award 8	1	2021	1	2021

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