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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2013 Office of Secretary Of Defense	<b>DATE:</b> February 2012
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<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0603923D8Z: <i>Coalition Warfare</i>
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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	13.431	12.434	11.398	-	11.398	11.495	11.634	11.858	12.062	Continuing	Continuing
P923: <i>Coalition Warfare</i>	13.431	12.434	11.398	-	11.398	11.495	11.634	11.858	12.062	Continuing	Continuing

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

The Coalition Warfare Program (CWP) is the only Office of the Secretary of Defense (OSD) program dedicated to initiating cooperative research, development, test and evaluation (RDT&E) projects with allies and coalition partners. CWP projects accelerate the delivery of high-quality solutions to warfighter problems, improve U.S. interoperability with its coalition partners, and strengthen global partnerships. Projects leverage foreign investments in technology and manpower to address Combatant Command (COCOM) requirements and support DoD RDT&E community undertakings. CWP can also help program offices convert U.S.-only projects into coalition solutions, with the expenses and benefits shared by the U.S. and international partners.

Current U.S. military strategy and the global security environment make coalition warfare and multinational operations fundamental features of the U.S. national security strategy. Coalitions provide a broad-base of technological, operational, and logistical support for military operations and ease the U.S. financial and manpower burdens associated with meeting military goals and objectives. In addition, effective responses to global humanitarian disasters require broad international, interagency, civilian, and non-governmental coordination. As national defense budgets decline, but threats to mutual security do not, coalition operations will continue to grow in importance.

Despite decades of conducting multinational operations, the United States and its partners continue to experience interoperability issues. Shortcomings in areas such as C4ISR (command, control, communications, and computers and intelligence, surveillance, and reconnaissance), battlespace awareness, and logistics reveal the complexities and challenges associated with multinational air, land, and sea campaigns and encumber warfighters' abilities to effectively and safely complete missions. Small investments in interoperability early in the research and development process can help avoid larger expenses related to adding coalition capability later in the development cycle. Partner nations participate in CWP to the extent permitted by security considerations and when such partnering is advantageous to the U.S. government.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Office of Secretary Of Defense				DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
0400: Research, Development, Test & Evaluation, Defense-Wide		PE 0603923D8Z: Coalition Warfare			
BA 4: Advanced Component Development & Prototypes (ACD&P)					
B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	13.786	12.743	13.026	-	13.026
Current President's Budget	13.431	12.434	11.398	-	11.398
Total Adjustments	-0.355	-0.309	-1.628	-	-1.628
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.230	-0.224			
• Other Reductions	-0.125	-0.085	-	-	-
• Reduced Fiscal Guidance	-	-	-0.372	-	-0.372
• Program Adjustments	-	-	-1.256	-	-1.256

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretary Of Defense								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603923D8Z: Coalition Warfare				PROJECT P923: Coalition Warfare			
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
P923: Coalition Warfare	13.431	12.434	11.398	-	11.398	11.495	11.634	11.858	12.062	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
<p>The Coalition Warfare Program (CWP) is the only Office of the Secretary of Defense (OSD) program dedicated to initiating cooperative research, development, test and evaluation (RDT&amp;E) projects with allies and coalition partners. CWP projects accelerate the delivery of high-quality solutions to warfighter problems, improve U.S. interoperability with its coalition partners, and strengthen global partnerships. Projects leverage foreign investments in technology and manpower to address Combatant Command (COCOM) requirements and support DoD RDT&amp;E community undertakings. CWP can also help program offices convert U.S.only projects into coalition solutions, with the expenses and benefits shared by the U.S. and international partners.</p> <p>Current U.S. military strategy and the global security environment make coalition warfare and multinational operations fundamental features of the U.S. national security strategy. Coalitions provide a broad-base of technological, operational, and logistical support for military operations and ease the U.S. financial and manpower burdens associated with meeting military goals and objectives. In addition, effective responses to global humanitarian disasters require broad international, interagency, civilian, and non-governmental coordination. As national defense budgets decline, but threats to mutual security do not, coalition operations will continue to grow in importance.</p> <p>Despite decades of conducting multi-national operations, the United States and its partners continue to experience interoperability issues. Shortcomings in areas such as C4ISR (command, control, communications, and computers and intelligence, surveillance, and reconnaissance), battlespace awareness, and logistics reveal the complexities and challenges associated with multinational air, land, and sea campaigns and encumber warfighters’ abilities to effectively and safely complete missions. Small investments in interoperability early in the research and development process can help avoid larger expenses related to adding coalition capability later in the development cycle. Partner nations participate in the Coalition Warfare Program (CWP) to the extent permitted by security considerations and when such partnering is advantageous to the U.S. government.</p>											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2011	FY 2012	FY 2013	
Title: Previous Year Continuing Projects								4.222	-	-	
Description: Program provided additional funding to projects that began in earlier selection cycles.											
FY 2011 Accomplishments:											
Projects continued efforts that will deliver: a maritime and land-based sensor/communication/common operating picture system capable of monitoring and detecting activity in the riverine and inland near-water environments; state-of-the-art clip-on sensor fusion prototype devices for small arms; and the technical capability within the fire support community to update fire control input data without the need to completely retest and reissue new software.											
Title: FY11 Continuing Projects								7.058	5.227	-	

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
<b>Description:</b> Program provided two years of funding for projects selected during the FY11 selection process.  <b>FY 2011 Accomplishments:</b> Initiated projects that will provide: optimal EM sensor, sensor placement information, and sensor orientation information based on the local operating environment; combat system enhancements to address current shortfalls in high Northern situational awareness; and a hybrid power source capable of 150 watts of continuous power for powering military devices and charging military rechargeable batteries in a small, lightweight package.  <b>FY 2012 Plans:</b> Projects selected during the FY11 selection process will receive their second year of CWP funding. Projects will complete the efforts started in FY11 and will deliver the stated capabilities.				
<b>Title:</b> Alternative Fuel  <b>Description:</b> Project will flight test a fighter aircraft using jet fuel derived from alcohols as a stepping-stone to U.S. certification of this class of fuel for use in both military and commercial aviation systems.  <b>FY 2012 Plans:</b> Component test, analysis and evaluation of fuel produced under the project.  <b>FY 2013 Plans:</b> Additional fuel analysis and engine and airframe component tests.		-	1.000	1.000
<b>Title:</b> Battlefield Antennas  <b>Description:</b> Project will use a breakthrough high permeability material to improve the gain and bandwidth of small directional antennas, thereby extending the effective frequency band of these antennas and reducing self-jamming with Counter IED systems.  <b>FY 2011 Accomplishments:</b> Funding supporting research and development personnel at Army lab as well as contract management.  <b>FY 2012 Plans:</b> Procure the metaferrites and model and fabricate candidate antenna designs for bench testing.  <b>FY 2013 Plans:</b> Integrate the candidate antenna designs on to suitable platforms for validation of performance.		0.450	0.550	1.000
<b>Title:</b> Enhanced Maritime Awareness		0.195	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Office of Secretary Of Defense			<b>DATE:</b> February 2012		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0603923D8Z: <i>Coalition Warfare</i>	<b>PROJECT</b> P923: <i>Coalition Warfare</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>			<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<b>Description:</b> Develop the means to connect maritime information/intelligence sharing systems, providing near real-time sharing of any data the Parties wish to make available to each other, enabling the needed situational awareness for decisive response to maritime threats.  <b>FY 2011 Accomplishments:</b> Identify data sources necessary for the values added services, develop the information exchange schema and data models for the new data sources, and then share these data sources.					
<b>Title:</b> Helicopter Rapid Structural Repair In Theater  <b>Description:</b> Develop a portable cold spray metallization system that can be used to facilitate rapid structural repairs of helicopters in theater.  <b>FY 2012 Plans:</b> Concurrent development, testing, and evaluation for both structural repair processes development for magnesium and aluminum components and the design and construction of a second generation forward deployable field portable system.  <b>FY 2013 Plans:</b> Finalize the construction of the portable system, systems prove out, data generation, and prove out the repair process(s) application using the portable system.			-	0.896	0.836
<b>Title:</b> Improved Renewable Energy Power System  <b>Description:</b> Provide a portable power system utilizing renewable energy technologies including wind and solar by leveraging improvements in battery development technology and the Reusing Existing Natural Energy Wind-Solar (RENEWS) portable power system.  <b>FY 2012 Plans:</b> Develop and integrate system components, and complete internal test and evaluation of the improved RENEWS system.  <b>FY 2013 Plans:</b> Acquire integrated systems, produce system safety assessments reports and releases, and support participation in field evaluation opportunities.			-	0.250	0.250
<b>Title:</b> Mobile Operations in a Disconnected, Intermittent or Low-bandwidth Environment (MODILE)  <b>Description:</b> Provide solution sets for coalition maritime operations in satellite restricted/denied environment problem.  <b>FY 2012 Plans:</b>			-	0.400	0.400

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Architecture development and basic engineering.				
<b>FY 2013 Plans:</b> Finalize development of the communication protocol, target architecture testing, application configuration, developing concept of operations and standard operating procedures, and implementing an at-sea demonstration of the end-to-end solution.				
<b>Title:</b> Network Centric Collaborative Targeting / Cooperative Electronic Support Measures Operations Gateway Software Live Fly Testing (NCCT/CESMO Live Fly)  <b>Description:</b> Demonstrate an operational data gateway between the U.S. Network Centric Collaborative Targeting System and the NATO Cooperative Electronic Support Measures Operations System.  <b>FY 2012 Plans:</b> Facilitate the development of the data guard, integration of the NCCT/CESMO gateway from the Systems Integration Lab into an operationally representative network, and support trial planning for the demonstration in CY2012.  <b>FY 2013 Plans:</b> Support an in-depth analysis of data collected during CY2012 demonstration to include publishing a final test report and an initial concept of operations.		-	0.500	0.150
<b>Title:</b> Return to Duty  <b>Description:</b> Develop and deliver a ruggedized, in-theater device capable of measuring and providing real-time, center-of-pressure information for assessment, treatment and return to duty of wounded warriors following mild traumatic brain injury.  <b>FY 2011 Accomplishments:</b> Pilot testing of current prototype  <b>FY 2012 Plans:</b> Incorporate visual and auditory components into the prototype; provide programming enhancements.  <b>FY 2013 Plans:</b> Ruggedize prototype for field use. Modify prototypes based on feedback from first year pilot tests. Field test with continued clinical trials and in-theatre testing.		0.385	0.300	0.475
<b>Title:</b> Multinational Electromagnetic Spectrum Collaboration Technology  <b>Description:</b> Develop technology that would enable partner nations, other government agencies, and non-governmental organizations an internet-based solution to request frequencies from host nations; to allow the host nation to assign and publish		0.157	0.466	0.480

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>			<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
frequencies specific to humanitarian assistance/disaster relief (HA/DR) operations; to build a database that would allow published frequencies to be accessible to all partners assisting in HA/DR effort.					
<b>FY 2011 Accomplishments:</b> Support U.S. participation within the Spectrum Management Technology Working Group (SMTWG) and initial database development.					
<b>FY 2012 Plans:</b> Purchase equipment including database server, web server SMT workstations and ancillary equipment to establish a testing and evaluation network					
<b>FY 2013 Plans:</b> Finalize the integration with enterprise database.					
<b>Title:</b> Space Situational Awareness Environmental Monitoring to Mitigate Severe Ionospheric Impacts to DOD C3I Systems in Africa (SSA-EM) <b>Description:</b> Fuse data from sensor networks to characterize the ionosphere over the African continent in near real-time.			-	0.475	0.475
<b>FY 2012 Plans:</b> Purchase and deploy equipment. Establish data server to integrate data streams, develop and generate user products. Begin installing gap-filling ionospheric scintillation sensors and upgrade existing setups as needed for maximum reliability and data quality.					
<b>FY 2013 Plans:</b> Complete installations of all sensors, continue upgrading existing stations to cost-effectively maximize data reliability and robustness. Evaluate performance of scintillation products driven by fused data sources; identify weaknesses in regional models and mitigate as much as possible. Develop and test nowcasting tools geared towards AFRICOM using all available data.					
<b>Title:</b> Tools for Hyperspectral Exploitation from Multi-Angular Spectra (THEMAS) <b>Description:</b> Develop a satellite angular mapping tool to characterize coastlines for targeting and shore assault operations.			-	0.800	0.850
<b>FY 2012 Plans:</b> Capture multi-angular characterization of spectral response and associated supporting data in representative spectral libraries around a set of specific applications and scenarios (probable mine placement locations, disturbed earth, trafficability assessment, bathymetry, hazards/anomalies, bottom type, etc.).					
<b>FY 2013 Plans:</b>					

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Modeling and calibration/validation, encapsulating findings in software add-ons to existing commercial software. Reporting of results and documentation and beta-testing of software add-ons. Final demonstration, assessment, and reporting.				
<b>Title:</b> FY13 Project Selections  <b>Description:</b> Program will conduct competitive nomination process to identify new projects.  <b>FY 2012 Plans:</b> Program provides funding for projects selected during the FY13 selection cycle to prepare contracts and international agreements. Certain projects require funding to prepare for early tests or demonstrations.  <b>FY 2013 Plans:</b> FY13 projects will be selected based on COCOM, Service, Joint Staff, OSD, and DoD Agencies priorities and requirements.		-	0.400	4.200
<b>Title:</b> Coalition Warfare Program Support  <b>Description:</b> Program funds contractors to support CWP program management, which includes: establishing and publishing CWP policy and procedures; ensuring CWP projects are consistent with the policies and principles articulated in Department of Defense directives and regulations; providing assessment of program status and risk to higher authorities; briefing and providing recommendations to the Director, International Cooperation concerning new and continuing CWP projects; organizing and hosting periodic CWP meetings to foster international cooperation and improve U.S. interoperability with foreign partners; conducting on-site visits as necessary to determine project progress; managing the OSD-level CWP proposal selection process and coordinating financial activities at the OUSD(AT&L) level; briefing foreign embassy representatives and others as necessary on the status of CWP projects and interoperability initiatives; educating Combatant Command, Service, Agency, and OSD personnel about the CWP and the opportunity to improve coalition interoperability.  <b>FY 2011 Accomplishments:</b> Contractor supported FY12 project selection process; revised program documentation to support FY13 selection process; managed ongoing projects; tracked project financial performance; consolidated project financial reporting to respond to AT&L and Comptroller queries; organized multinational event to educate U.S. and foreign RDT&E personnel about CWP and facilitate the initiation of cooperative projects; engaged in workshops and activities in support of improving U.S. interoperability with foreign partners.  <b>FY 2012 Plans:</b>		0.724	0.535	0.554



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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>				
Contractor will continue to provide management support of the CWP, to include evaluating proposals for FY13 funding, attending RDT&E meetings and events, and monitoring and managing projects' technical and financial performance. On-site contractor support reduced by 33% due to Efficiency Defense-wide cut.		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<b>FY 2013 Plans:</b> Contractor will continue to provide management support of the CWP, to include evaluating proposals for FY14 funding, attending RDT&E meetings and events, and monitoring and managing projects' technical and financial performance.				
<b>Title:</b> Interoperability and Collaboration Initiatives  <b>Description:</b> Program provides funds in support of new or planned acquisition programs with the aim of 1) promoting coalition interoperability early in the requirements or technical development phases, 2) harmonizing common goals between U.S. and foreign partners, 3) improving management of collaborative efforts. Funds support workshops, risk reduction efforts, standards development, architecture analysis, and information management initiatives.		0.240	0.635	0.728
<b>FY 2011 Accomplishments:</b> Supported COCOM risk reduction effort with foreign partner. Funded NATO interoperability projects.				
<b>FY 2012 Plans:</b> Program funded efforts aimed at improving U.S. interoperability with foreign partners and improving collaborative project processes. Initiated the development of a tool for improving the process for sharing information regarding international collaborative projects with COCOMs and Services.				
<b>FY 2013 Plans:</b> Program will fund efforts aimed at improving U.S. interoperability with foreign partners and improving collaborative project processes.				
<b>Accomplishments/Planned Programs Subtotals</b>		13.431	12.434	11.398
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>D. Acquisition Strategy</b>				
The Combatant Commands, Services, Defense Agencies, and the Office of the Secretary of Defense nominate candidate projects on an annual basis. CWP provides selected projects one to two years of funding. The Program selects projects that address DoD priorities and meet the needs and requirements specified by the Joint Staff and the Combatant Commanders. Projects should have equitable contributions from international partners, strong potential for transition, and should contribute to allied interoperability and/or meet a user need.				

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<b>E. Performance Metrics</b> <p>After successful completion of the competitive nomination process, initial project funding is dependent on receipt of project documentation, which includes financial information, project plan, description of project team, etc. Continued project funding is dependent on compliance with CWP requirements, which include: adequate progress toward each project's stated goals, timely reporting on financial status and project activities, provision of updated project plans and charts, and progress towards transition goals.</p>		

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Office of Secretary Of Defense		<b>DATE:</b> February 2012
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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2013 Office of Secretary Of Defense			<b>DATE:</b> February 2012
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FY10-FY11 Projects	1	2011	4	2011
FY11-FY12 Projects	1	2011	4	2012
FY12-FY13 Projects	1	2012	4	2013
FY13-FY14 Projects	1	2013	4	2014
FY14-FY15 Projects	1	2014	4	2015
FY15-FY16 Projects	1	2015	4	2016
FY16-FY17 Projects	1	2016	4	2017