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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Office of Secretary Of Defense **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>				PE 0603200D8Z: <i>Joint Interoperability Technology Development (Formerly Joint Advanced Concepts)</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	3.154	6.808	7.903	-	7.903	3.859	3.945	4.383	4.463	Continuing	Continuing
P208: <i>Joint Interoperability</i>	-	2.488	2.134	-	2.134	2.068	2.115	2.349	2.392	Continuing	Continuing
P209: <i>Math Program</i>	-	-	4.000	-	4.000	-	-	-	-	Continuing	Continuing
P211: <i>Joint Interoperability Technology Development</i>	-	-	1.769	-	1.769	1.791	1.830	2.034	2.071	Continuing	Continuing
P202: <i>Joint Advanced Concepts</i>	2.062	2.287	-	-	-	-	-	-	-	Continuing	Continuing
P203: <i>Joint Electronic Warfare</i>	1.092	2.033	-	-	-	-	-	-	-	Continuing	Continuing

Note

The PE title has changed from "Joint Advanced Concepts" to the new title of "Joint Interoperability Technology Development."

A. Mission Description and Budget Item Justification

This effort will investigate new concepts and technologies that fill critical warfighter needs with joint and interoperable systems at all echelons of warfare. Through advanced mathematics and engineering methodologies, the Joint Interoperability Directorate will work to institutionalize joint interoperability concepts throughout the DoD to ensure reduced fratricide, increased force effectiveness, and decreased taxpayer cost through fully interoperable weapons remains a focus throughout the acquisition/program development processes. Working closely with programs in the advanced technology development phase, this effort will result in reviews of program technology feasibility from an interoperability perspective and push to proof of concept through prototyping and modeling.

Based on recent DDR&E reorganization, the requirements of the Joint Interoperability program have grown and evolved to cover areas beyond what they had been previously. Joint Interoperability now has additional efforts to review new technology, to develop advanced mathematics techniques to manage of large volumes of sensor data to solve DoD Battlefield challenges, and to review program documentation not only to ensure a joint and interoperable approach but also to mature technologies that advance warfighter effectiveness and that apply technology rapidly to battlespace challenges.

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0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	PE 0603200D8Z: <i>Joint Interoperability Technology Development (Formerly Joint Advanced Concepts)</i>

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	7.817	6.808	6.901	-	6.901
Current President's Budget	3.154	6.808	7.903	-	7.903
Total Adjustments	-4.663	-	1.002	-	1.002
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-0.600	-			
• SBIR/STTR Transfer	-0.118	-			
• Other Program Adjustments	-3.945	-	-	-	-
• DDR&E Baseline Review	-	-	1.697	-	1.697
• Defense Efficiency - Reports, Studies, Boards, and Commissions	-	-	-0.216	-	-0.216
• Defense Efficiency - Contractor Staff Support	-	-	-0.468	-	-0.468
• Economic Assumptions	-	-	-0.011	-	-0.011

Change Summary Explanation

Due to reorganization within OUSD(AT&L) The Joint Advanced Concepts (JAC) office was closed and the Joint Interoperability Functions that were a part of the JAC mission have been moved to the Director, Defense Research and Engineering (DDRE).

DDR&E Baseline Review. DDR&E implemented a zero-based review of the organization to align resources to the most critical priorities and eliminate lower priority functions resulting in an increase of \$1.697M for the Math Program and other initiatives.

Defense Efficiency – Report, Studies, Boards and Commissions. As part of the Department of Defense reform agenda, reflects a reduction in the number and cost of reports, studies, DoD Boards and DoD Commissions below the aggregate level reported in the previous budget submission.

Defense Efficiency – Contractor Staff Support. As part of the Department of Defense reform agenda, reduces funds below the aggregate level reported in the previous budget submission for contracts that augment staff functions.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secretary Of Defense								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)				R-1 ITEM NOMENCLATURE PE 0603200D8Z: Joint Interoperability Technology Development (Formerly Joint Advanced Concepts)				PROJECT P208: Joint Interoperability			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P208: Joint Interoperability	-	2.488	2.134	-	2.134	2.068	2.115	2.349	2.392	Continuing	Continuing
A. Mission Description and Budget Item Justification											
The Director, Joint Interoperability provides oversight and guidance to initiatives and programs that support the joint tactical warfighter to enable reduced fratricide, increased force effectiveness, and decreased taxpayer cost through fully interoperable weapons systems, down to the tactical level of engagement. Joint interoperability is the force multiplier that will enable our warfighters to fight jointly, be more efficient and effective in the battlespace and allow warfighters to fight in the battle and not the tactical C3 displays. Sharing of systems and information across Services, and with coalition and non-DoD partners, has the benefit of a more rapid and better coordinated response to an ever more agile adversary. It also enables the full exploitation of our costly (legacy and future) weapon systems at full kinematic range and makes full use of the assets in theater. The taxpayers also benefit from reducing the cost of weapon system procurement by paying once vs. multiple times for weapons systems that are used by Services in the battlespace.											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2010	FY 2011	FY 2012	
Title: Joint Interoperability								-	2.488	2.134	
Description: • Chair the Combat Identification (CID) Defense Support Team to improve Joint Interoperable CID capability. • Identify Friend or Foe (IFF) M5 Technology Synchronization. • IFF M5 North Atlantic Treaty Organization (NATO) Interoperability and technology export. • Co-chair Joint Cooperative Target Identification–Ground (JCTI-G) Overarching Integrated Process Team (OIPT). • Personnel Recovery – DAMA-C lead w/Defense Information Systems Agency (DISA), Services, & Joint Staff; Interoperability of personnel recovery equipment. • Blue Force Tracking – Device Interoperability; Single Card Solution program and RF Patch program technical oversight. • Sensor Signatures Oversight. • Interoperability Commission (IOC). – US Chair for CID bilateral w/United Kingdom (UK). – US Chair for Joint Fires bilateral w/UK. • Digital Joint Close Air Support – Lead for AT&L – interoperability technology. • Net Centric (NC), Battlespace Awareness (BA), and Command & Control (C2) FCB and Working Group support. • Address policies and procedures used to ensure net-centric joint interoperability. • Model Driven Architecture exploitation in DoD. • Oversight of net-enabled Interoperability technologies. • Lead technology development for an All Domain Tactical Picture.											

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603200D8Z: <i>Joint Interoperability Technology Development (Formerly Joint Advanced Concepts)</i>	PROJECT P208: <i>Joint Interoperability</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
• Perform Capability Development Framework (CDF) Interoperability Assessments for critical capability areas (i.e. Base Protection and C4ISR) FY 2011 Plans: • Chair the Combat Identification (CID) Defense Support Team to improve Joint Interoperable CID capability. • Identify Friend or Foe (IFF) M5 Technology Synchronization. • IFF M5 North Atlantic Treaty Organization (NATO) Interoperability and technology export. • Co-chair Joint Cooperative Target Identification–Ground (JCTI-G) Overarching Integrated Process Team (OIPT) • Personnel Recovery – DAMA-C lead w/Defense Information Systems Agency (DISA), Services, & Joint Staff; Interoperability of personel recovery equipment • Blue Force Tracking – Device Interoperability; Single Card Solution program and RF Patch program technical oversight. • Sensor Signatures Oversight. • Interoperability Commission (IOC). – US Chair for CID bilateral w/United Kingdom (UK). – US Chair for Joint Fires bilateral w/UK. • Digital Joint Close Air Support – Lead for AT&L – interoperability technology. • Net Centric (NC), Battlespace Awareness (BA), and Command & Control (C2) FCB and Working Group support. • Address policies and procedures used to ensure net-centric joint interoperability. • Model Driven Architecture exploitation in DoD. • Oversight of net-enabled Interoperability technologies. • Lead technology development for an All Domain Tactical Picture. • Perform Capability Development Framework (CDF) Interoperability Assessments for critical capability areas (i.e. Base Protection and C4ISR) FY 2012 Plans: • Chair the Combat Identification (CID) Defense Support Team to improve Joint Interoperable CID capability. • Identify Friend or Foe (IFF) M5 Technology Synchronization. • IFF M5 North Atlantic Treaty Organization (NATO) Interoperability and technology export. • Co-chair Joint Cooperative Target Identification–Ground (JCTI-G) Overarching Integrated Process Team (OIPT). • Personnel Recovery – DAMA-C lead w/Defense Information Systems Agency (DISA), Services, & Joint Staff; Interoperability of personnel recovery equipment • Blue Force Tracking – Device Interoperability; Single Card Solution program and RF Patch program technical oversight. • Sensor Signatures Oversight.			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
• Interoperability Commission (IOC). – US Chair for CID bilateral w/United Kingdom (UK). – US Chair for Joint Fires bilateral w/UK. • Digital Joint Close Air Support – Lead for AT&L – interoperability technology. • Net Centric (NC), Battlespace Awareness (BA), and Command & Control (C2) FCB and Working Group support. • Address policies and procedures used to ensure net-centric joint interoperability. • Model Driven Architecture exploitation in DoD. • Oversight of net-enabled Interoperability technologies. • Lead technology development for an All Domain Tactical Picture. • Perform Capability Development Framework (CDF) Interoperability Assessments for critical capability areas (i.e. Base Protection and C4ISR)			
Accomplishments/Planned Programs Subtotals		-	2.488
C. Other Program Funding Summary (\$ in Millions)			
N/A			
D. Acquisition Strategy			
Not applicable for this item.			
E. Performance Metrics			
Not applicable for this item.			

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APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)				R-1 ITEM NOMENCLATURE PE 0603200D8Z: Joint Interoperability Technology Development (Formerly Joint Advanced Concepts)				PROJECT P209: Math Program			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P209: Math Program	-	-	4.000	-	4.000	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

Advances in mathematics must be applied to DoD systems in order to provide a common tactical picture for real-time, tactical operations with near-term potential for application to solve the Department's most pressing operational problems. They will develop novel approaches to implement non-classical methods to solve computationally intensive problems like fusing numerous sensors that are generating terabytes of data in Afghanistan. Our ability to sense has far exceeded our ability to process data into information. Developing algorithms that are more computationally efficient at discerning information from large datasets will place smaller demands on our limited bandwidth and better enable the disadvantaged user to get information down to the tactical level. This effort includes tests against recorded live data to demonstrate relevance to identified military needs. This effort will develop advanced mathematical software algorithms and components in DoD-relevant areas such as topological evaluation and visualization of massive and high dimensional data sets, topological data analysis, and enhanced data extraction and filtering and fusion algorithms

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: Math Program FY 2012 Plans: Contract awards for this effort are expected in FY11 using below threshold reprogramming funds. Efforts selected to continue in the FY12 Option year will be based on their performance and relevance to military needs based on their demonstrations performed in CY11. Prior Accomplishments: Contract award for this effort is expected in FY11. Accomplishments will be demonstrated by the end of CY11.	-	-	4.000
Accomplishments/Planned Programs Subtotals	-	-	4.000

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

N/A

D. Acquisition Strategy

Not applicable for this item.

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603200D8Z: <i>Joint Interoperability Technology Development (Formerly Joint Advanced Concepts)</i>	PROJECT P209: <i>Math Program</i>

E. Performance Metrics

Successful demonstration using Bluegrass data NTL December 2011 (FY12) of either 1) Creating the elements of a common tactical picture in the low/slow air and ground domain, 2) Optimizing Sensor Placement and Management, depending on which challenge problem is being addressed. Subsequent option years will continue to measure against those metrics.

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P211: Joint Interoperability Technology Development	-	-	1.769	-	1.769	1.791	1.830	2.034	2.071	Continuing	Continuing

A. Mission Description and Budget Item Justification

Based on recent Director, Defense Research and Engineering (DDR&E) reorganization, the requirements of the Joint Interoperability program have grown and evolved to cover areas beyond what they had been previously. Joint Interoperability removes barriers to communication and acts as a force multiplier to enable our warfighters to fight more efficiently and effectively across the spectrum of operations and is focused on maturing technologies that advance warfighter effectiveness and that apply technology rapidly to battlespace challenges. Examples of the types of projects that are envisioned under this Program Element will focus on reducing fratricide, increasing force effectiveness, and reducing major acquisition program costs through fully interoperable weapons systems operating at tactical levels. Typically these projects are on the technology maturity scale where an idea or technology opportunity is proven and demonstrated.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Title: Joint Interoperability Technology Development FY 2012 Plans: It should be noted that the Joint Interoperability Technology Development funded projects are to be selected to address emergent needs and fill technology gaps. There are no specific projects identified at this time; however, FY 2012 plans include continuing to identify and fund new projects that are best equipped to respond to critical operational needs and new technology opportunities.	-	-	1.769
Accomplishments/Planned Programs Subtotals	-	-	1.769

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

N/A

D. Acquisition Strategy

Not applicable for this item.

E. Performance Metrics

Not applicable for this item.

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APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)				R-1 ITEM NOMENCLATURE PE 0603200D8Z: Joint Interoperability Technology Development (Formerly Joint Advanced Concepts)				PROJECT P202: Joint Advanced Concepts			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P202: Joint Advanced Concepts	2.062	2.287	-	-	-	-	-	-	-	Continuing	Continuing
A. Mission Description and Budget Item Justification											
Acquisition reform initiatives call for top down, national security strategy-driven capabilities-based planning. The Joint Advanced Concepts (JAC) program supports acquisition reform initiatives and early capabilities based strategic investment decisions that ensure joint, integrated, interoperable, system-of-system combat capability to the warfighter. Through a systematic and thorough process, including comprehensive technology assessments, net technical assessments that engage in comparative analysis of U.S. versus non-U.S. capabilities, the program will better inform early shaping of acquisition programs, to include Special Access Programs, from a capabilities portfolio management perspective to deliver improved capabilities to the current and future joint warfighter. This shaping is supported through capability-based assessments, requirements analysis, joint capability area assessments, integrated roadmap development, and the development/integration of risk-based collaborative tools to conduct capability-based assessments. These efforts were previously funded under PE0604875D8Z, Joint Systems Architecture Development.											
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2010	FY 2011	FY 2012
Title: Joint Advanced Concepts									2.062	2.287	-
FY 2010 Accomplishments: This project supported focus areas in portfolio management and activities associated with our program evaluation responsibilities providing for early shaping of Pre-Milestone A programs. Provided early shaping of Department-wide portfolio based investment decisions, development, coordination and institutionalization of enterprise wide Business Rules and procedures for investment strategies and resource balancing, integration of the requirements process with the acquisition process to bridge our military and civilian areas of responsibility with all Combatant Commands (COCOMS), Services and Agencies. Provided the Deputy Secretary of Defense and DoD Components advice on how to maximize capability investment to meet warfighter needs. Led the development of integrated capability roadmaps, and supported acquisition program reviews and Guidance for Development of the Force. Represented Acquisition, Technology & Logistics (AT&L) interests in requirements for future acquisition systems. Develops and updates capability roadmaps to inform decision makers for portfolio investment decisions, DoD Requirements and POM decisions. Beginning in FY 20110, Director, Joint Interoperabilty efforts will be transferred to a new Project (P208) within this Program Element.											
FY 2011 Plans: This project supports focus areas in portfolio management and activities associated with our program evaluation responsibilities providing for early shaping of Pre-Milestone A programs. Provide early shaping of Department-wide portfolio based investment											

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
decisions, development, coordination and institutionalization of enterprise wide Business Rules and procedures for investment strategies and resource balancing, integration of the requirements process with the acquisition process to bridge our military and civilian areas of responsibility with all COCOMS, Services and Agencies. Provides Deputy Secretary of Defense and DoD Components advice on how to maximize capability investment to meet warfighter needs. Leads the development of integrated capability roadmaps, and supports acquisition program reviews and Guidance for Development of the Force. Represents A&T interests in requirements for future acquisition systems. Develops and updates capability roadmaps to inform decision makers for portfolio investment decisions, DoD Requirements and Program Objective Memorandum (POM) decisions.			
Accomplishments/Planned Programs Subtotals		2.062	2.287
C. Other Program Funding Summary (\$ in Millions)			
N/A			
D. Acquisition Strategy			
Not applicable for this item.			
E. Performance Metrics			
Not applicable for this item.			

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P203: Joint Electronic Warfare	1.092	2.033	-	-	-	-	-	-	-	Continuing	Continuing
A. Mission Description and Budget Item Justification											
Provides funding for Joint Electronic Warfare (EW) initiatives and EW assessments. The EW Joint Analysis Team (JAT) (established in November 2007) fills a void identified by the Combatant Commanders for a group to coordinate the disparate EW activities across the Department. Provides funding to the EW JAT for establishing the Joint Electronic Warfare Center (JEWEC) as the executive agent for coordination between Combatant Commanders, Services, Office of Secretary of Defense, Joint Staff, Weapon Schools, Technology Centers, Academia and Developmental Test and Evaluation (DT&E) organizations. Provides for EW exploitation analysis of the inter-relational effects of combined-systems evaluations in mission area needs in such domains as Integrated Air and Missile Defense, Blue Force Identification, Nettedsensors and Command and Control. The program will further work with the Joint Staff in developing a comprehensive, holistic EW architecture.											
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2010	FY 2011	FY 2012	
Title: Joint Electronic Warfare								1.092	2.033	-	
FY 2010 Accomplishments: This project supported Joint Electronic Warfare Center Support to the Electronic Warfare Joint Analysis Team as the conduit between Combatant Commanders, who determine EW Requirements, and the EW JATs analytical team. Performed comparative analysis to determine blue force operations throughout the Electro-Magnetic Spectrum, determined adversary technology trends, provided modeling, analysis, and simulation expertise for concept testing and validation, and provided objective oversight of field testing to ensure real world dynamics are considered. This analysis assessed asymmetric strengths and weaknesses, as well as how Electronic Warfare (EW) interacted with other warfighting areas. It drew upon combined-systems evaluation events geared to mission area needs in such domains as Integrated Air and Missile Defense, Blue Force Identification, Netted-sensors and Command and Control. The project supported the Joint Staff effort to develop a comprehensive, holistic plan for EW.											
FY 2011 Plans: . Develop products and processes that enhance DoD understanding of how U.S. EW technology advances are matching up with global technology proliferation and next generation weapons. - Expand State of EW baseline capabilities reference materials and produce Strategy and Roadmap development. - Develop technical products and databases to allow comprehensive campaign analysis. - Develop EW Report to Congress - Produce authoritative, EW specific budget summaries and databases. . Create mechanism to auto-populate and auto-update improving data quality and timeliness for shared information awareness. - Advance Service and COCOM Mechanisms for EW Planning, Requirements Definition, Testing and Training. . Broaden efforts to develop an authoritative on-stop library of EW Capabilities.											

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
. Engage with DOTE and TRMC on the rate of test limitation growth in EW testing and investigate options for technology solutions. . Participate with Air Combat Command initiative to advance non-kinetic technologies and to re-introudce live EW training into RED FLAG exercises. - Lead implementation FY11 Technology Task recommendations.			
Accomplishments/Planned Programs Subtotals		1.092	2.033
C. Other Program Funding Summary (\$ in Millions)			
N/A			
D. Acquisition Strategy			
Not applicable for this item.			
E. Performance Metrics			
Not applicable for this item.			