Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Office of Secretary Of Defense										DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*				R-1 ITEM NOMENCLATURE PE 0603200D8Z: *Joint Advanced Concepts*							
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	6.585	6.571	-	-	-	-	-	-	-	Continuing	Continuing
P208: *Joint Interoperability*	2.407	1.884	-	-	-	-	-	-	-	Continuing	Continuing
P209: *Math Program*	-	3.187	-	-	-	-	-	-	-	Continuing	Continuing
P211: *Joint Interoperability Technology Development*	-	1.500	-	-	-	-	-	-	-	Continuing	Continuing
P202: *Joint Advanced Concepts*	2.212	-	-	-	-	-	-	-	-	Continuing	Continuing
P203: *Joint Electronic Warfare*	1.966	-	-	-	-	-	-	-	-	Continuing	Continuing

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.

Joint Interoperability has additional efforts to develop advanced mathematics techniques to manage large volumes of sensor data to solve DoD Battlefield challenges, to review new interoperability technologies, 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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Office of Secretary Of Defense					DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 3: *Advanced Technology Development (ATD)*		R-1 ITEM NOMENCLATURE PE 0603200D8Z: *Joint Advanced Concepts*			
B. Program Change Summary ($ in Millions)	**FY 2011**	**FY 2012**	**FY 2013 Base**	**FY 2013 OCO**	**FY 2013 Total**
Previous President's Budget	6.808	7.903	3.859	-	3.859
Current President's Budget	6.585	6.571	-	-	-
Total Adjustments	-0.223	-1.332	-3.859	-	-3.859
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-1.100			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.163	-0.187			
• Other Program Adjustments	-0.002	-	-3.859	-	-3.859
• FFRDC	-0.023	-0.045	-	-	-
• Economic Assumptions	-0.035	-	-	-	-

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 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603200D8Z: *Joint Advanced Concepts*	PROJECT P208: *Joint Interoperability*	

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
P208: *Joint Interoperability*	2.407	1.884	-	-	-	-	-	-	-	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 Command, Control, and Communications (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 versus multiple times for weapons systems that are used by Services in the battlespace.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Title: Joint Interoperability	2.407	1.884	-
Description: • Identify Friend or Foe (IFF) Mode Five (Mode 5) Technology Synchronization. • IFF M5 North Atlantic Treaty Organization (NATO) Interoperability and technology export. • Joint Personnel Recovery – Demand Assigned Multiple Access-Compatible (DAMA-C) lead with Defense Information Systems Agency (DISA), Services, and Joint Staff; Interoperability of personnel recovery equipment. • Sensor Signatures Oversight. • Interoperability Commission – U.S. Chair for Combat Identification (CID) bilateral with United Kingdom (UK). • Digital Joint Close Air Support – Lead for the Office of the Under Secretary of Defense for Acquisition, Technology & Logistics (OUSD(AT&L)) – interoperability technology. • Command, Control, Computers, and Communications (C4)/Cyber and Battlespace Awareness (BA) Funtional Capabilities Boards 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 (for example, Base Protection and Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR)).			
FY 2011 Accomplishments: • Worked on IFF Mode 5/ Mode S Technology Synchronization.			

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 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603200D8Z: *Joint Advanced Concepts*	PROJECT P208: *Joint Interoperability*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
- Mode 5 Joint Operational Test Approach (JOTA) document completed and signed in 2Q FY 2011. - JOTA one system of systems interoperability test planned for 4Q FY 2011 as part of Navy Initial Operational Test and Evaluation (IOT&E). • Established a DoD-wide Mode S Frequency Management Working Group to coordinate DoD Mode S interrogation requirements, technical approaches, and operational use while ensuring minimal impact to civil systems. Approach includes close coordination with DoD Policy Board on Federal Aviation, Federal Aviation Administration (FAA), and National Telecommunications & Information Administration. • Developed two-stage approach for implementation of Mode 5 Level two capabilities, leveraging FAA mandate for use of Automatic Dependent Surveillance - Broadcast (ADS-B). NATO • Supported Capability Panel two (Navigation/Identification) activities to advance interoperability across NATO partner nation capabilities. • Coordinated development of US release strategy for IFF Mode 5 articles; US strategy provided to NATO to serve as NATO's initial baseline strategy for Mode 5. US/UK Interoperability Commission • Served as U.S. chair for CID team, examined options to more closely align U.S./UK IFF Mode 5 fielding schedules to support interoperability objectives. DAMA-C • DAMA-C Ultra High Frequency Satellite Communications (UHF SATCOM) draft waveform specification was completed in 3Q FY 2011. Capability Development Framework (CDF) • Performed CDF interoperability assessments for critical capability areas (for example, C4ISR and Electronic Warfare (EW). • Applied CDF process to provide an assessment of interoperability for use by DoD and multi-agency and coalition partners. Interoperability Senior Roundtable (ISRT) • Chaired the ISRT with a focus on reducing Program Management burden, while enabling interoperability within the Department's processes. • Reduced Net Ready Key Performance Parameter policy by 75 percent. Digital Joint Close Air Support (CAS)			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretary Of Defense		DATE: February 2012
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
• Lead for AT&L - interoperability technology. • Provided oversight and steering for design, development, test and assessment of digitally-aided close air support (DACAS) engineering changes to service-specific tactical air controller (TAC) ground systems that enable seamless, integrated digital communication with multi-Service and multi-national manned aircraft which enables improved timeliness, improves accuracy, improves communication, reduces fratricide, and reduces fuel expenditure. • Initiated development of seven joint close air support engineering change proposals (ECPs) that provide enhanced joint and multi-national interoperable capability and overall increase in mission effectiveness at no expected additional outlay of programmatic funding. ECP 5 - Common Platform/System Mission Data Loading. ECP 6 - Joint Tactical Air Strike Request. ECP 7 - Forward Air Controller - Airborne (FAC (A)) Functionality. ECP 8 - Unmanned Aerial Systems (UAS) Integration as a Strike Platform. ECP 9 - Network Enabled Weapons (NEW) - Small Diameter Bomb (SDB) II Integration. ECP 10 - Multiple Targets in a Single CAS 9-Line. ECP 11 - Beyond Line of Sight (BLOS) CAS Situational Awareness (SA) Update/Integration of multiple digital communication methods for CAS. • Steered the development and fielding of the Joint Interoperability Test Center (JITC) DACAS variable message format test tool. This test tool will enable joint weapon system designers and test and evaluation community to develop and field integrated and interoperable capability. It will also ensure the capability remains interoperable when system is deployed and applied during warfighting missions. Signature Support Program (SSP) • Steered the SSP to increased overall weapon system capability of approximately 190 signature dependent acquisition programs through the organization, processes, and effectively applying limited program resources. • Established a signature collection schedule that enables all programs with signature collection requirements to leverage already planned signature collection events. • Identified list of Service, program, and private contractor existing signature databases that the DoD acquisition community can harvest to meet signature-dependent program development and test and evaluation requirements. • Directed and provided oversight for development of a web-based signature data sharing tool intended to provide access to all identified signature databases. This database is intended to enable program managers, test and evaluation personnel, and warfighters to access any available signatures to meet acquisition program, test and evaluation, and operational requirements without expenditure of funding to develop unique set of data. Joint Personnel Recovery (JPR)			

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 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603200D8Z: *Joint Advanced Concepts*	PROJECT P208: *Joint Interoperability*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
• Provided innovative leadership to the JPR mission by initiating development of six ECPs to integrate Service specific and non-interoperable Personnel Recovery (PR) systems that provide increased capability to the warfighter operating in harms' way and support personnel operating in the field (soldiers, reporters, ambassadors, contractors, etc.). This capability is expected to being integration into systems during FY 2012 and fielding in FY 2013. • Provided leadership and oversight to development of operational context that included development and application of joint mission threads and system technical functional descriptions to steer and focus technical interoperable solutions in the Joint Close Air Support, PR, Counter Improvised Explosive Devices, Global Force Management, EW and Electronic Attack, Joint Fires, Humanitarian Assistance and Disaster Relief, and Computer Network Defense, Computer Network Attack, and Computer Network Exploitation. ***FY 2012 Plans:*** • IFF Mode 5 Technology Synchronization. • IFF Mode 5 NATO Interoperability and technology export. • JPR – DAMA-C lead with DISA, Services, and Joint Staff to improve Interoperability of PR equipment. • Sensor Signatures Oversight. • Interoperability Commission – U.S. Chair for CID bilateral with UK. • Digital Joint CAS – Lead for AT&L – interoperability technology. • Revised policies and procedures used to ensure net-centric joint interoperability. • Model Driven Architecture and Open Architecture exploitation in DoD. • Oversight of net-enabled Interoperability technologies. • Led technology development for an All Domain Tactical Picture. • Performed CDF Interoperability Assessments for critical capability areas (for example: Base Protection and C4ISR). • Enhance the interface of Joint Capabilities Integration and Development System (requirements) with early stage system engineering. • Discover, Analyze and document best practices for development planning and system of systems engineering. • Analyze and document interdependencies between DoD systems and mission areas. ***FY 2013 Plans:*** N/A			
Accomplishments/Planned Programs Subtotals	2.407	1.884	-

C. Other Program Funding Summary ($ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretary Of Defense		DATE: February 2012
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D. Acquisition Strategy

Not applicable for this item.

E. Performance Metrics

Not applicable for this item.

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 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603200D8Z: *Joint Advanced Concepts*	PROJECT P209: *Math Program*	

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
P209: *Math Program*	-	3.187	-	-	-	-	-	-	-	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 2011	FY 2012	FY 2013
Title: Math Program	-	3.187	-
FY 2012 Plans: Contract awards for this effort are expected in FY 2012. Efforts selected to continue in the FY 2013 Option Year will be based on their performance and relevance to military needs based on their demonstrations. Prior Accomplishments: Not Applicable - Contract award for this effort is expected in FY 2012. Accomplishments will be demonstrated at the end of the initial phase of the program in the first half of FY 2013.			
Accomplishments/Planned Programs Subtotals	-	3.187	-

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

Not applicable for this item.

E. Performance Metrics

Successful demonstration using Bluegrass data no later than the first half of FY 2013 of either 1) Creating the elements of a common tactical picture in the low/slow air and ground domain, or 2) Optimizing Sensor Placement and Management, depending on which challenge problem is being addressed. Subsequent option years will continue to measure against those metrics.

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 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603200D8Z: *Joint Advanced Concepts*	PROJECT P211: *Joint Interoperability Technology Development*	

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
P211: *Joint Interoperability Technology Development*	-	1.500	-	-	-	-	-	-	-	Continuing	Continuing

Note

Funds re-aligned for higher priorities.

A. Mission Description and Budget Item Justification

Based on recent Assistant Secretary of Defense (Research and Engineering) 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 2011	FY 2012	FY 2013
Title: Joint Interoperabiltiy Technology Development	-	1.500	-
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.			
Accomplishments/Planned Programs Subtotals	-	1.500	-

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.

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 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603200D8Z: *Joint Advanced Concepts*	PROJECT P202: *Joint Advanced Concepts*	

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
P202: *Joint Advanced Concepts*	2.212	-	-	-	-	-	-	-	-	Continuing	Continuing

Note

Defense Technical Information Center (DTIC) issue paper expected.

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 United States versus non-United States 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 Program Element 0604875D8Z, Joint Systems Architecture Development.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Title: Joint Advanced Concepts	2.212	-	-
FY 2011 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. The effort 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 Command, Services and Agencies. In addition, provided 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 development of Guidance for Development of the Force. Represented Acquisition & Technology interests in requirements for future acquisition systems. Developed and updated capability roadmaps to inform decision makers for portfolio investment decisions and DoD Requirements.			
FY 2012 Plans: N/A			
Accomplishments/Planned Programs Subtotals	2.212	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretary Of Defense		DATE: February 2012
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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.

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 3: *Advanced Technology Development (ATD)*	R-1 ITEM NOMENCLATURE PE 0603200D8Z: *Joint Advanced Concepts*	PROJECT P203: *Joint Electronic 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
P203: *Joint Electronic Warfare*	1.966	-	-	-	-	-	-	-	-	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 stablishing the Joint Electronic Warfare Center (JEWC) 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, Netted sensors 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 2011	FY 2012	FY 2013
Title: Joint Electronic Warfare	1.966	-	-
FY 2011 Accomplishments: • Developed 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. • Expanded State of EW baseline capabilities reference materials and worked on Strategy and Roadmap development. • Developed technical products and databases to allow comprehensive campaign analysis. • Developed EW Report to Congress and produced authoritative, EW specific budget summaries and databases. • Created mechanism to auto-populate and auto-update improving data quality and timeliness for shared information awareness. • Advanced Service and COCOM Mechanisms for EW Planning, Requirements Definition, Testing and Training. • Broadened efforts to develop an authoritative on-stop library of EW Capabilities. • Engaged with Director, Operational Test and Evaluation and Test Resource Management Center on the rate of test limitation growth in EW testing and investigated options for technology solutions. • Participated with Air Combat Command initiative to advance non-kinetic technologies and to re-introudce live EW training into RED FLAG exercises. • Led implementation FY 2011 Technology Task recommendations.			
Accomplishments/Planned Programs Subtotals	1.966	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

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D. Acquisition Strategy

Not applicable for this item.

E. Performance Metrics

Not applicable for this item.