

UNCLASSIFIED
FISCAL YEAR (FY) 2009 BUDGET ESTIMATES

Exhibit R-2, RDT&E Budget Item Justification			Date: February 2008																								
Appropriation/Budget Activity RDT&E, Defense-wide BA: 3			R-1 Item Nomenclature: Program Title: Deployment and Distribution Enterprise Technology Program Element: PE0603713S																								
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013																				
Total PE Cost	15.036	14.905	30.000	29.750	29.737	29.737	29.737																				
Project 1: Capabilities Based Logistics	1.929	2.204	4.530	3.106	5.772	5.561	4.476																				
Project 2: Deployment and Distribution Velocity Management	9.208	6.951	5.700	6.350	5.400	5.687	5.989																				
Project 3: Cross Domain Intuitive Planning	3.899	1.090	1.775	2.210	1.830	1.768	1.893																				
Project 4: End-to-End Visibility	0	0.500	2.779	4.416	4.834	3.986	4.764																				
Project 5: Distribution Planning and Forecasting	0	0	3.000	2.874	2.793	2.917	3.128																				
Project 6: Joint Transportation Interface	0	3.857	10.491	9.869	7.983	8.343	7.987																				
Project 7: Distribution Protection/Safety/Security	0	0.303	1.725	0.925	1.125	1.475	1.500																				
<p>A. Mission Description and Budget Item Justification: Global War On Terrorism (GWOT) lessons learned and daily operations indicate that current distribution and logistics processes remain outdated and are rarely capable of providing required warfighter support in an agile, efficient and economical manner. Designation of United States Transportation Command (USTRANSCOM) as the Distribution Process Owner (DPO) and shift within the Department to transform the distribution and logistics processes, demands the examination and improvement of the entire supply chain. Unpredictable and extended global distribution routes, limited visibility of sustainment requirements, force packaging limitations, lift constraints, complex supply chains, as well as non-networked battlefield command and control (C2), planning, and decision support tools impede timely warfighter logistical support. The centralization of distribution and logistics intermodal research and development facilitates the development/fielding of transformational enhancements to validated distribution capability gaps. The USTRANSCOM RDT&E program explores and matures promising technologies to enhance support to combatant commanders and other customers of Department of Defense's (DOD's) distribution and transportation systems.</p> <p>B. Program Change Summary:</p> <table style="margin-left: 40px; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY 07</u></th> <th style="text-align: center;"><u>FY 08</u></th> <th style="text-align: center;"><u>FY 09</u></th> <th style="text-align: center;"><u>FY 10</u></th> </tr> </thead> <tbody> <tr> <td>Previous PB 08</td> <td style="text-align: center;">15.158</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.000</td> <td style="text-align: center;">0.000</td> </tr> <tr> <td>Current FY 09 BES</td> <td style="text-align: center;">15.036</td> <td style="text-align: center;">14.905</td> <td style="text-align: center;">30.000</td> <td style="text-align: center;">29.750</td> </tr> <tr> <td> Total Adjustments</td> <td style="text-align: center;"> -0.122</td> <td style="text-align: center;"> -10.095</td> <td style="text-align: center;"> 0.00</td> <td style="text-align: center;"> -0.250</td> </tr> </tbody> </table> <p>Change Summary Explanation: FY07 – Reprogrammed to fund Small Business Innovative Research (SBIR) PE 0605502S. FY08 - Defense Appropriation cut (\$10M) and Economic Assumption and Contractor Efficiency cuts (\$0.095M). FY10-13 – Economic Assumption Cuts.</p>									<u>FY 07</u>	<u>FY 08</u>	<u>FY 09</u>	<u>FY 10</u>	Previous PB 08	15.158	0.000	0.000	0.000	Current FY 09 BES	15.036	14.905	30.000	29.750	 Total Adjustments	 -0.122	 -10.095	 0.00	 -0.250
	<u>FY 07</u>	<u>FY 08</u>	<u>FY 09</u>	<u>FY 10</u>																							
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Current FY 09 BES	15.036	14.905	30.000	29.750																							
 Total Adjustments	 -0.122	 -10.095	 0.00	 -0.250																							

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Total PE Cost	15.036	14.905	30.000	29.750	29.737	29.737	29.737		
Project 1: Capabilities Based Logistics	1.929	2.204	4.530	3.106	5.772	5.561	4.476		
Project 2: Deployment and Distribution Velocity Management	9.208	6.951	5.700	6.350	5.400	5.687	5.989		
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Project 4: End-to-End Visibility	0	0.500	2.779	4.416	4.834	3.986	4.764		
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Project 6: Joint Transportation Interface	0	3.857	10.491	9.869	7.983	8.343	7.987		
Project 7: Distribution Protection/Safety/Security	0	0.303	1.725	0.925	1.125	1.475	1.500		

C. Other Program Funding Summary: Displayed on R-2a.

D. Acquisition Strategy: N/A for budget activity 3.

E. Performance Metrics/Major Performers: Displayed on R-2a.

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Exhibit R-2a, RDT&E Project Justification						Date: February 2008	
Appropriation/Budget Activity RDT&E, Defense-wide BA: 3				Project Name and Number – Capabilities Based Logistics, Project 1			
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project 1: Capabilities Based Logistics	1.929	2.204	4.530	3.106	5.772	5.561	4.476
RDT&E Articles Quantity - N/A							
A. Mission Description and Budget Item Justification:							
<p>The Department requires procedures and technologies which provide enterprise-level capabilities critical to the distribution system to improve performance of the end-to-end DOD supply chain in direct support of the full range of military operations. Ability to rapidly respond to customers' changing demands, with a reliably high level of service. These needs include: capabilities which enhance any supply or transportation mission (aeromedical, air refueling, joint logistics over-the-shore, seabasing); analysis, tailoring and implementation of selected best enterprise-level practices from industry; and tools/procedures to optimize transportation plus supply (distribution) plans and schedules in support of an entire operation. This project addresses the required mission support to combatant commanders and other customers in the area of capability-based logistics.</p>							
B. Accomplishments/Planned Program:							
	FY 2007	FY 2008	FY 2009	FY 2010			
Accomplishment/ Effort/Subtotal Cost	1.929	2.204	4.530	3.106			
RDT&E Articles Quantity – N/A							
<p>FY 07 Accomplishments:</p> <ul style="list-style-type: none"> - Continue spiral development and demonstration of Node Management capabilities to include tools for distribution pipeline management, fuels distribution, and joint asset visibility. Support transition activities of approved spirals into program of record. <p>FY 08 Plans:</p> <ul style="list-style-type: none"> - Continue spiral development and demonstration of NoMaDD capabilities. Support overall transition activities to include Doctrine, Organization, Training, Materiel, Leadership/education, Personnel, and Facilities (DOTMLPF) change recommendations. <p>FY 09 Plans:</p> <ul style="list-style-type: none"> - Complete NoMaDD development/transition proven technologies. - Fund Office of Research and Technology Applications operations. 							
C. Other Program Funding Summary: FY08 funds support Program Management Office (PMO) Battle Command Sustainment Support System (BCS3) and Tapestry Solutions. Funds modified existing Tapestry Solutions contract, with other expenses paid from OSD and Defense Logistics Agency (DLA) sources. Funds also support DLA's NoMaDD ACTD program under PE # 0603712S.							
D. Acquisition Strategy: N/A							

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			Exhibit R-2a, RDT&E Project Justification				Date: February 2008	
Appropriation/Budget Activity RDT&E, Defense-wide BA: 3			Project Name and Number – Capabilities Based Logistics, Project 1					
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
Project 1: Capabilities Based Logistics	1.929	2.204	4.530	3.106	5.772	5.561	4.476	
RDT&E Articles Quantity - N/A								

E. Major Performers:

<u>Contractors:</u>	<u>Location:</u>	<u>Description of Work</u>	<u>FY08 Award Date/\$:</u>	<u>FY09 Estimated Award Date/\$:</u>
Tapestry Solutions	San Diego, CA	Software Development (NoMaDD/BCS3)	Dec 07 \$1.500M	Nov 08/\$2.600M
Stanley/LMI	Alexandria, VA	RDT&E program support	Oct 07/\$0.432M	Oct 08/\$0.438M
MITRE	Ft Monmouth, NJ	RDT&E program support	Oct 07/\$0.508M	Oct 08/\$0.510M
MITRE	Ft Monmouth, NJ	ORTA		Oct 08/\$0.255M

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Exhibit R-2a, RDT&E Project Justification				Date: February 2008			
Appropriation/Budget Activity RDT&E, Defense-wide BA: 3			Project Name and Number – Deployment and Distribution Velocity Management, Project 2				
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project 2: Deployment and Distribution Velocity Management	9.208	6.951	5.700	6.350	5.400	5.687	5.989
RDT&E Articles Quantity - N/A							
A. Mission Description and Budget Item Justification:							
DOD requires procedures/technologies targeted at optimizing throughput at the nodes and through the conduits of the deployment and distribution supply chains, from origin to point of use and return to include: inventory management enhancers (includes node cargo management/tracking); materiel handling innovations (including methods of reducing handling); improved physical access to nodes (includes aircraft all-weather visual systems); port throughput enhancements (includes in-port time reduction methods); and innovative delivery methods (for example, precision airlift, autonomous re-supply). This project addresses required mission support to combatant commanders and other customers of DOD's distribution and transportation systems in the area of deployment/distribution velocity management.							
B. Accomplishments/Planned Program:							
	FY 2007	FY 2008	FY 2009	FY 2010			
Accomplishment/ Effort/Subtotal Cost	9.208	6.951	5.700	6.350			
RDT&E Articles Quantity – N/A							
<p>FY 07 Accomplishments:</p> <ul style="list-style-type: none"> - Conduct of Joint Modular Intermodal Distribution System (JMIDS) Joint Capabilities Technology Demonstration (JCTD) limited military utility assessment (LMUA) to evaluate intermodal enhancements and increased agility/flexibility in joint distribution system. - Building prototype and assessing utility of a unique, FedEx-like Transportation Tracking Number (TTN) to increase assurance of planned-vs.-actual tracking of unit movements required by Combatant Commanders in the Joint Operational Planning and Execution System (JOPES). - Ascertain if specialized containers can be used to transport unit equipment via container ships/provide support comparable to roll on/roll off ships. - Complete the development and successfully demonstrate a system capable of selectively retrieving fully loaded 20FT containers from at sea container ships (in up to sea state 5) for selected onward movement. <p>FY 08 Plans:</p> <ul style="list-style-type: none"> - Develop capability for Service/Joint watercraft to rapidly/independently conduct vessel offload operations at austere seaports of debarkation (Joint Enable Theater Access – Sea Port Of Debarkation (JETA-SPOD) Advanced Concept Technology Demonstration (ACTD). - Continue to develop a cost effective method of transporting and storing military cargo for rapid deployment using conventional container ships. - Continue TTN development and implementation. - Design, create and test prototype air skid based mechanisms to move cargo and vehicles, including Medium Tactical Vehicle Replacement and Twenty-foot Equivalent Units in an environment equivalent to an LMSR cargo hold in conditions up to Sea State 5. - Conduct JMIDS JCTD End User Evaluation (EUE) and develop transition support documentation. 							

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Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013																																													
Project 2: Deployment and Distribution Velocity Management	9.208	6.951	5.700	6.350	5.400	5.687	5.989																																													
RDT&E Articles Quantity - N/A																																																				
<p>FY 09 Plans:</p> <ul style="list-style-type: none"> - Complete developmental work and transition technologies developed via the JMIDS JCTD. - Prototype air-skid to allow the movement of cargo and vehicles around the cargo hold without having to move vehicles with drivers or use forklifts/other material handling equipment. - Provide end-to-end visibility by linking cargo, mail and passengers transiting to/through the Sea-base. - Commence development of a common joint cargo handling system that meets or exceeds the requirements for multiple joint operational concepts (including major combat, global war of terror, and stability operations). <p>C. Other Program Funding Summary: FY08 funds supporting ACTD/JCTD initiatives: JMIDS JCTD (PEs 0633001/0665805), JETA-SPOD ACTD (PEs 0602784A/0603804A/0603640M/0604567N/0603750D8Z).</p> <p>D. Acquisition Strategy: N/A</p> <p>E. Major Performers:</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Contractors:</u></th> <th style="text-align: left;"><u>Location:</u></th> <th style="text-align: left;"><u>Description of Work</u></th> <th style="text-align: left;"><u>FY08 Award Date/\$:</u></th> <th style="text-align: left;"><u>FY09 Estimated Award Date/\$:</u></th> </tr> </thead> <tbody> <tr> <td>ITLT Solutions Inc.</td> <td>Jacksonville, FL</td> <td>Contrail/Beam System Dev</td> <td>Dec 07/\$1.500M</td> <td>Oct 08/\$0.250M</td> </tr> <tr> <td>NGC</td> <td>McClellan, VA</td> <td>JMIDS Support</td> <td>Oct 07/\$0.200M</td> <td>Oct 08/\$0.200M</td> </tr> <tr> <td>MITRE Corporation</td> <td>Ft Monmouth, VA</td> <td>Engineering and development of Transportation Tracking Number</td> <td>Oct 07/\$0.254M</td> <td></td> </tr> <tr> <td>JFCOM</td> <td>Suffolk, VA</td> <td>Support prototype construction and conduct experimentation/integration for Transportation Tracking Nr (TTN)</td> <td>Dec 07/\$0.180M</td> <td></td> </tr> <tr> <td>Various</td> <td>Multiple</td> <td>Multiple individual contracts to Incorporate TTN into numerous deployment/distribution IT systems</td> <td>Jan 08/\$1.000M</td> <td></td> </tr> <tr> <td>TBD</td> <td>TBD</td> <td>Shipboard Air-skid Prototype Development</td> <td>Jun 08/\$0.550M</td> <td>Oct 08/\$2.000M</td> </tr> <tr> <td>TBD</td> <td>TBD</td> <td>Improved Cargo Handling</td> <td></td> <td>Oct 08/\$0.450M</td> </tr> <tr> <td>ERDC</td> <td>Alexandria, VA</td> <td>Develop tool to optimize projection and sustainment from the seabase into austere ports of opportunity</td> <td>Dec 07/2.000M</td> <td></td> </tr> </tbody> </table>								<u>Contractors:</u>	<u>Location:</u>	<u>Description of Work</u>	<u>FY08 Award Date/\$:</u>	<u>FY09 Estimated Award Date/\$:</u>	ITLT Solutions Inc.	Jacksonville, FL	Contrail/Beam System Dev	Dec 07/\$1.500M	Oct 08/\$0.250M	NGC	McClellan, VA	JMIDS Support	Oct 07/\$0.200M	Oct 08/\$0.200M	MITRE Corporation	Ft Monmouth, VA	Engineering and development of Transportation Tracking Number	Oct 07/\$0.254M		JFCOM	Suffolk, VA	Support prototype construction and conduct experimentation/integration for Transportation Tracking Nr (TTN)	Dec 07/\$0.180M		Various	Multiple	Multiple individual contracts to Incorporate TTN into numerous deployment/distribution IT systems	Jan 08/\$1.000M		TBD	TBD	Shipboard Air-skid Prototype Development	Jun 08/\$0.550M	Oct 08/\$2.000M	TBD	TBD	Improved Cargo Handling		Oct 08/\$0.450M	ERDC	Alexandria, VA	Develop tool to optimize projection and sustainment from the seabase into austere ports of opportunity	Dec 07/2.000M	
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Appropriation/Budget Activity RDT&E, Defense-wide BA: 3			Project Name and Number – Cross Domain Intuitive Planning and Execution, Project 3				
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project 3: Cross Domain Intuitive Planning and Execution	3.899	1.090	1.775	2.210	1.830	1.768	1.893
RDT&E Articles Quantity - N/A							
A. Mission Description and Budget Item Justification:							
Procedures/technologies which improve decision-making and collaboration within the supply chain, from the planning stage to real-time execution and retrograde operations, without need for highly specialized operators of the tools. Projects in this area address following areas: decision support tools for any echelon of the supply chain or decision-maker, distribution process simulations and models for analysis and training, distribution demand forecasting/execution monitoring tools, on-line training, automated decision-maker support (e.g., queuing, alerting, recommended courses of action), automated status monitoring with information fusion and drilldown capability, and resilient C2 infrastructure capabilities. This project will provide required mission support to combatant commanders and other distribution/transportation customers in the area of collaborative planning/execution/information sharing/decision support tools.							
B. Accomplishments/Planned Program:							
	FY 2007	FY 2008	FY 2009	FY 2010			
Accomplishment/ Effort/Subtotal Cost	3.899	1.090	1.775	2.210			
RDT&E Articles Quantity – N/A							
FY 07 Accomplishments:							
<ul style="list-style-type: none"> - Modify Global Decision Support System 2 (GDSS 2) and Global Air Transportation Execution System (GATES) to globally share command and control and transportation info with all (Joint, Service) users . - Complete development/testing of enhanced capability to model all distribution scenarios/methods within existing programmatic systems Complete the development/testing of an enhanced geospatial awareness/logistics operating picture within the USTRANSCOM Deployment Distribution Operations Center (DDOC). - Design, development, integration, documentation and testing of the Joint Air Logistics Information System – Next Generation (JALIS NG) prototype and its infrastructures. This includes improvements and upgrades to the Scheduler’s Workbench, enhanced Request Validation Routing capabilities, and optimizing command and control processes related to the requesting, validating, scheduling, and monitoring of worldwide operations support airlift missions. - Commence two year effort to develop and incorporate an air refueling module planning/execution capability within the Joint Flow and Analysis System for Transportation (JFAST). 							

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Project 3: Cross Domain Intuitive Planning and Execution	3.899	1.090	1.775	2.210	1.830	1.768	1.893
RDT&E Articles Quantity - N/A							

FY 08 Plans:

- Complete and transition JALIS-NG.
- Complete development and transition capability to model, within Joint Flow and Analysis System for Transportation (JFAST), the strategic air refueling of all joint service combat aircraft, including the USTRANSCOM/AMC inter-theater airlift fleet.
- Leveraging AFRL expertise, commence efforts to enhance Deployment and Distribution Operations Center (DDOC) operations through work flow engineering.

FY 09 Plans:

- Commence efforts to enhance DDOC operations through work flow engineering.
- Develop a logistics predictive planning/operations service for theater forward sustainment points, bases and transportation networks.
- Commence development of cross domain suite of tools for joint warfighter with text chat language, translation, whiteboard, audio and XML guard functionality (Cross Domain Collaborative Info Environment (CDCIE) JCTD).

C. Other Program Funding Summary: FY09 funds supporting JFCOM sponsored/DISA supported CDCIE JCTD (PEs 0603828D8Z/PE574E51/0603750D8Z).

D. Acquisition Strategy: N/A

E. Major Performers:

<u>Contractors:</u>	<u>Location:</u>	<u>Description of Work</u>	<u>FY08 Award Date/\$:</u>	<u>FY09 Estimated Award Date/\$:</u>
Federated Software Group	St. Louis, MO	Develop software to allow for optimizing operations airlift	Oct 07/\$0.267M	
TBD	Suffolk, VA	Developing software to allow info exchange between U.S. and Coalition logistic systems – CDCIE JCTD		Oct 08/\$0.500M
DPRA	Knoxville, TN	Develop JFAST model to include air refueling	Oct 07/\$0.448M	
TBD	TBD	Develop automated linkage between tactical and operational logistics mesh-networks to strategic distribution systems		Dec 08/\$0.900M

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Appropriation/Budget Activity RDT&E, Defense-wide BA: 3			Project Name and Number – End-to-End Visibility, Project 4				
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project 4: End-to-End Visibility	0	0.500	2.779	4.416	4.834	3.986	4.764
RDT&E Articles Quantity - N/A							

A. Mission Description and Budget Item Justification:

The warfighter requires end-to-end visibility of all aspects of the projection and sustainment of forces and equipment to enable operations. This requires technology investigation into next generation Automated Information Technology (AIT)/Total Asset Visibility (TAV) technologies and/or container security to improve end-to-end distribution visibility and enhance planning and execution and transform sustainment operations. Includes the development of the ability to determine immediate, reliable, and accurate shipment status through system access or event management. Develop an over-arching process and system architecture which will automate and integrate existing and innovative new programs across the supply chain to provide complete In Transit Visibility (ITV) data.

B. Accomplishments/Planned Program:

	FY 2007	FY 2008	FY 2009	FY 2010
Accomplishment/ Effort/Subtotal Cost	0	0.500	2.779	4.416
RDT&E Articles Quantity – N/A				

FY 07 Accomplishments: N/A.

FY 08 Plans: Develop automatic system that captures container numbers without relying on additional tagging, human intervention, battery life, and ambiguous dynamic, non-static, associations of tag numbers within a database.

FY 09 Plans:

- Investigate advanced automated identification technology (AIT) devices to determine their ability to function in harsh climates and austere environments.
- Commence development with Army/Logistics Info Agency of a mobile AIT capability in a military environment in all environments.
- Test and evaluate military utility of COTS satellite tracking devices to enhance in transit visibility.

C. Other Program Funding Summary: N/A

D. Acquisition Strategy: N/A

E. Major Performers:

<u>Contractor:</u>	<u>Location:</u>	<u>Description of Work</u>	<u>FY08 Award Date/\$:</u>	<u>FY09 Estimated Award Date/\$:</u>
TBD	TBD	Demonstrate automatic system that captures ISO container numbers and links that info to ITV database to capture cargo visibility lost in last tactical mile	Feb 08/\$0.500M	
SAVI	Sunnyvale, CA	Provide Theater Distribution Management (TDM) Portable Deployment Kit training		Oct 08/ \$0.286M

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Appropriation/Budget Activity RDT&E, Defense-wide BA: 3			Project Name and Number – Distribution Planning and Forecasting, Project 5				
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project 5: Distribution Planning and Forecasting	0	0	3.000	2.874	2.793	2.917	3.128
RDT&E Articles Quantity - N/A							

A. Mission Description and Budget Item Justification:

There is a lack of collaborative distribution planning, based on an understanding of aggregated customer requirements, for optimizing the end-to-end distribution process. Planning, forecasting and collaboration are insufficiently advanced to fully synchronize people, processes and assets to execute planned operations. Automated tools should be able to dynamically analyze/predict demand and provide input to advanced distribution planning systems. This project investigates the need for flexible end-to-end enhanced modeling and simulation and collaborative decision support tools.

B. Accomplishments/Planned Program:

	FY 2007	FY 2008	FY 2009	FY 2010
Accomplishment/ Effort/Subtotal Cost	0	0	3.000	2.874
RDT&E Articles Quantity – N/A				

FY 07 Accomplishments: N/A.

FY 08 Plans: N/A.

FY 09 Plans:

- Commence two year effort to build a highly configurable, agile Distribution Process Nodal Model (DPNM) capable of expressing and analyzing complex and detailed distribution processes to support operational planning and execution.
- Commence effort with USJFCOM and Services to develop a Single Load Planning Capability (SLPC) that enables load planners across the enterprise to collaborate to provide end-to-end load plans.

C. Other Program Funding Summary: N/A.

D. Acquisition Strategy: N/A.

E. Major Performers:

<u>Contractor:</u>	<u>Location:</u>	<u>Description of Work</u>	<u>FY08 Award Date/\$:</u>	<u>FY09 Estimated Award Date/\$:</u>
BBNT Solutions	Cambridge, MA	Develop operational distribution planning tool		Nov 08/\$1.750M
NCI	O'Fallon, IL	Contractor support for development of distribution nodal model planning tool		Nov 08/\$0.250M
CVM Technologies	San Luis Obispo, CA	SLPC software development		Nov 08/\$1.000M

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		Exhibit R-2a, RDT&E Project Justification					Date: February 2008	
Appropriation/Budget Activity RDT&E, Defense-wide BA: 3			Project Name and Number – Joint Transportation Interface, Project 6					
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
Project 6: Joint Transportation Interface	0	3.857	10.491	9.869	7.983	8.343	7.987	
RDT&E Articles Quantity - N/A								

A. Mission Description and Budget Item Justification:

Synchronizing strategic/theater delivery capabilities to meet increasingly dynamic customer needs. Transportation information exchange across the DOD is inhibited by the disparity of systems, differing data standards, and insufficient interfaces. Queries and retrieval of status and shipment information cannot be executed due to lack of connectivity between the various components of the supply chain. Required is the ability to maintain situational awareness of movements at macro/micro (drill down) levels, with associated force and sustainment cargo on board; to track force packages progress, and rapidly determine the impact of any delays or changes to sailing progress and arrival at port of debarkation; and to conduct "what -if" impact assessment of possible changes to delivery asset's course, speed or departure/arrival information as it relates to force or force package delivery/impact of any change on the closure of force packages in theater. The ability of USTRANSCOM to supply transportation support for homeland defense and/or disaster relief depends on effective ways to link with other governmental and civilian agencies. Also need to explore the many barriers across the Joint Deployment and Distribution Enterprise (JDDE), to include non-DOD government entities, coalition partners, non-government organizations, and commercial industry, which can create confusion/conflict or detract from the optimization of the JDDE.

B. Accomplishments/Planned Program:

	FY 2007	FY 2008	FY 2009	FY 2010
Accomplishment/ Effort/Subtotal Cost	0	3.857	10.491	9.869
RDT&E Articles Quantity – N/A				

FY 07 Plans: N/A.

FY 08 Plans:

- Commence multi-year development/integration of systems for Common Operational Picture for Distribution and distribution-related Deployment (COP D2) that will mitigate effect of multiple, overlapping functional legacy systems and business processes, and provide timely, relevant, and actionable information to enhance the warfighters' level of confidence in joint distribution processes.
- Commence development of database/query tool to exchange air and sealift schedules to support Coalition Task Force operations enhancing logistics information exchange between coalition partners – effort supporting Coalition Mobility System (CMS) JCTD.

FY 09 Plans:

- Continue COP(D2) effort
- Continue development of database/query tool to exchange air and sealift schedules to support Coalition Task Force operations enhancing logistics information exchange between coalition partners (CMS JCTD).
- Develop the Community of Exchange (CoEx) for JDDE that will enable interoperability among heterogeneous systems and facilitate exchange of knowledge within the context of formalized JDDE processes.
- Commence multi-year development of an automated data quality analysis capability linked to the Enterprise Data Warehouse (EDW) that will enable end-to-end analysis of data quality and system performance.
- Software prototype containing mathematical and/or heuristic-based optimization engines will make optimal/near optimal resource allocation, transportation, and distribution decisions in both planning (proactive) and re-planning/recovery (reactive) modes of operation for a wide range of operations scenarios.

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FISCAL YEAR (FY) 2009 BUDGET ESTIMATES**

				Exhibit R-2a, RDT&E Project Justification			Date: February 2008	
Appropriation/Budget Activity RDT&E, Defense-wide BA: 3				Project Name and Number – Joint Transportation Interface, Project 6				
Cost (\$ in millions)	FY2007	FY2008	FY 2009	FY2010	FY2011	FY2012	FY2013	
Project 6: Joint Transportation Interface	0	3.857	10.491	9.869	7.983	8.343	7.987	
RDT&E Articles Quantity - N/A								

C. Other Program Funding Summary: FY 08 & 09 funding supporting PACOM sponsored CMS JCTD, (PEs 0603750D8Z/0603648D8Z).

D. Acquisition Strategy: N/A.

E. Major Performers:

<u>Contractors:</u>	<u>Location:</u>	<u>Description of Work</u>	<u>FY08 Award Date/\$:</u>	<u>FY09 Estimated Award Date/\$:</u>
CVM	San Luis Obispo, CA	Provide thin client capability to the Node Management portion of NoMaDD ACTD/DDOC Requirements Support	Dec 07/\$2.857M	
TBD	TBD	Address data quality issues across the Joint Deployment and Distribution Enterprise		Dec 08/\$1.058M
FSG	O'Fallon, IL	CMS JCTD Software Development to enable efficient transportation/ logistics related information exchange between coalition partners	Dec 07/\$1.000M	Oct 08/\$2.450M

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Exhibit R-2a, RDT&E Project Justification				Date: February 2008			
Appropriation/Budget Activity RDT&E, Defense-wide BA: 3			Project Name and Number – Distribution Protection/Safety/Security, Project 7				
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project 7: Distribution Protection/Safety/Security	0	0.303	1.725	0.925	1.125	1.475	1.500
RDT&E Articles Quantity - N/A							

A. Mission Description and Budget Item Justification:

The Theater Commander has not always been able to provide the appropriate security in a timely manner during deployment. In some cases there are insufficient security assets to oversee convoy security in-country; therefore, all movement requirements are competing for the same limited resources. Additionally need to explore new, portable methods of detecting hazardous/asymmetric materials in very small quantities to support safe logistics operations. Also explore technologies to enhance the capability to deliver personnel/materiel to anti-access/austere airfields and seaports.

B. Accomplishments/Planned Program:

	FY 2007	FY 2008	FY 2009	FY 2010
Accomplishment/ Effort/Subtotal Cost	0	0.303	1.725	0.925
RDT&E Articles Quantity – N/A				

FY 07 Accomplishments: N/A.

FY 08 Plans:

- In collaboration with C-130 J Program Office increase technology level readiness (TRL) level of Wireless Gate Release System (WGRS) prototype to provide required capability and facilitate transition activities.
- Commence two year effort to develop a light-weight trauma module to enhance initial care for the injured.

FY 09 Plans:

- Develop, integrate and test advanced sensors, guidance approaches, and control system technologies relevant to all weight classes of JPADS precision airdrop systems.
- Complete light-weight trauma module development/commence transition activities into program of record.

C. Other Program Funding Summary: N/A.

D. Acquisition Strategy: N/A.

E. Major Performers: N/A.

<u>Contractors:</u>	<u>Location:</u>	<u>Description of Work</u>	<u>FY08 Award Date/\$:</u>	<u>FY09 Estimated Award Date/\$:</u>
Wamore Inc.	Prescott, AZ	Refine/test WGRS	Jan 08/\$0.103M	
Army Medical Mat'l Development Activity	Ft Detrick, MD	Develop light-weight trauma module prototype to aid in patient initial care and evacuation	Dec 07/\$0.200M	Oct 08/\$0.800M