

## UNCLASSIFIED

PE NUMBER: 0603850F

PE TITLE: Integrated Broadcast Service (DEM/VAL)

## Exhibit R-2, RDT&amp;E Budget Item Justification

DATE

February 2006

## BUDGET ACTIVITY

## 03 Advanced Technology Development (ATD)

## PE NUMBER AND TITLE

## 0603850F Integrated Broadcast Service (DEM/VAL)

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	2.235	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.876
5151 Blue Force Tracking	2.235	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.876

In FY2004, Project Number 635151, Joint Blue Force Situation Awareness (JBFSa) Advanced Concept Technology Demonstration (ACTD), efforts were transferred from PE0207028F, Joint Expeditionary Force Experiment (JEFX), Project Number 674991, Joint Distributed Engineering Plant. Although this PE is entitled "Integrated Broadcast Service (IBS)", this project does not use IBS funding. Description of the IBS program is provided in PE 63850F, Budget Activity 4.

(U) A. Mission Description and Budget Item Justification

JBFSa ACTD - This Army run JBFSa ACTD, a continuation of an ACTD started in CY2003, will focus on the integration of disparate systems (no single system or mission application exists today), data interoperability and common operating displays. Tasks include the development, integration, validation, and transition of web-enabled Common Operating Picture (COP) and User Defined Operating Picture (UDOP) capabilities for Joint Blue Force Tracking. Specific sub-areas include the integration of current JBFSa devices into the JBFSa architecture, disseminate and display a consistent blue force picture within the Global Command and Control Systems (GCCS) family of systems (FOS) COP and select tactical level display devices, identification of additional JBFSa data dissemination paths (satellite communications (SATCOM), Global Broadcast Service (GBS), Integrated Broadcast Service (IBS), Tactical networks, etc.), integration of line-of-sight (LOS) receivers into the JBFSa architecture including aircraft, unmanned aerial vehicles (UAVs) and aerostats, field an enhanced Mission Management Center (MMC) capability, and serve as the benchmark/set the stage to evaluate multi-level security challenges and the dissemination of select JBFSa data to Coalition COP devices. All candidate solutions will be validated before transitioning to the services for sustainment and extended user evaluation.

This PE paid for "Technical Assistance" to the JBFSa ACTD, and ultimately it led to the development of the Data Strategy called Cursor on Target (CoT), which enables disparate systems to pass "What, Where, When" data by using adaptors on each of the systems. The Systems of record can change in the future and not have to do a complete software upgrade. This capability has been installed in the Marines Command and Control PC (C2PC), the Air Force's Combat Track II system, Raindrop, and in several UAVs. This allows these systems to communicate this data by simply pointing to an IP address to provide Joint Blue Force Situational Awareness data. This portion of the overall JBFSa ACTD has been completed and results have been transferred to the Army.

This program is in Budget Activity 3, Advanced Technology Development, since it develops and demonstrates technologies for existing systems.

## UNCLASSIFIED

## Exhibit R-2, RDT&amp;E Budget Item Justification

DATE

February 2006

BUDGET ACTIVITY

03 Advanced Technology Development (ATD)

PE NUMBER AND TITLE

0603850F Integrated Broadcast Service (DEM/VAL)

(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	2.268	0.000	0.000
(U) Current PBR/President's Budget	2.235	0.000	0.000
(U) Total Adjustments	-0.033	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings	-0.033		
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			
This portion of the overall JBFSA ACTD has been completed.			

## UNCLASSIFIED

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2006

BUDGET ACTIVITY

**03 Advanced Technology Development (ATD)**

PE NUMBER AND TITLE

**0603850F Integrated Broadcast Service (DEM/VAL)**

PROJECT NUMBER AND TITLE

**5151 Blue Force Tracking**

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5151 Blue Force Tracking	2.235	0.000	0.000	0.000	0.000	0.000	0.000	0.000	17.876
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

In FY2004, Project Number 635151, Joint Blue Force Situation Awareness (JBFSa) Advanced Concepts Technology Demonstration (ACTD), efforts were transferred from PE0207028F, Joint Expeditionary Force Experiment (JEFX), Project Number 674991, Joint Distributed Engineering Plant. Although this PE is entitled "Integrated Broadcast Service (IBS)", this project does not use IBS funding. Description of the IBS program is provided in PE 63850F, Budget Activity 4.

**(U) A. Mission Description and Budget Item Justification**

JBFSa ACTD - This Army run JBFSa ACTD, a continuation of an ACTD started in CY2003, will focus on the integration of disparate systems (no single system or mission application exists today), data interoperability and common operating displays. Tasks include the development, integration, validation, and transition of web-enabled Common Operating Picture (COP) and User Defined Operating Picture (UDOP) capabilities for Joint Blue Force Tracking. Specific sub-areas include the integration of current JBFSa devices into the JBFSa architecture, disseminate and display a consistent blue force picture within the Global Command and Control Systems (GCCS) family of systems (FOS) COP and select tactical level display devices, identification of additional JBFSa data dissemination paths (satellite communications (SATCOM), Global Broadcast Service (GBS), Integrated Broadcast Service (IBS), Tactical networks, etc.), integration of line-of-sight (LOS) receivers into the JBFSa architecture including aircraft, unmanned aerial vehicles (UAVs) and aerostats, field an enhanced Mission Management Center (MMC) capability, and serve as the benchmark/set the stage to evaluate multi-level security challenges and the dissemination of select JBFSa data to Coalition COP devices. All candidate solutions will be validated before transitioning to the services for sustainment and extended user evaluation.

This PE paid for "Technical Assistance" to the JBFSa ACTD, and ultimately it led to the development of the Data Strategy called Cursor on Target (CoT), which enables disparate systems to pass "What, Where, When" data by using adaptors on each of the systems. The Systems of record can change in the future and not have to do a complete software upgrade. This capability has been installed in the Marines Command and Control PC (C2PC), the Air Force's Combat Track II system, Raindrop, and in several UAVs. This allows these systems to communicate this data by simply pointing to an IP address to provide Joint Blue Force Situational Awareness data. This portion of the overall JBFSa ACTD has been completed and results have been transferred to the Army.

This program is in Budget Activity 3, Advanced Technology Development, since it develops and demonstrates technologies for existing systems.

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

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Accomplishments Planned Program	0.000		
(U) Engineering, Integration & Testing	0.570		
(U) Demonstration/Exercise Support	0.527		
(U) CONOPS/Tactics, Techniques, and Procedures (TTP) & Documentation Development	0.262		
(U) Purchase/Lease and Installation of BFT Devices, Training, and Purchase of SATCOM air time			
(U) Transition Support	0.750		
(U) Maintain a Program Management Office, including financial and demonstration supervision	0.126		

Project 5151

R-1 Shopping List - Item No. 34-4 of 34-5

Exhibit R-2a (PE 0603850F)

## UNCLASSIFIED

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2006

BUDGET ACTIVITY

03 Advanced Technology Development (ATD)

PE NUMBER AND TITLE

0603850F Integrated Broadcast  
Service (DEM/VAL)

PROJECT NUMBER AND TITLE

5151 Blue Force Tracking

(U) **B. Accomplishments/Planned Program (\$ in Millions)**FY 2005FY 2006FY 2007

(U) FIOP JBFS Integrated Architecture Development and Interoperability enhancements

0.000

(U) Total Cost

2.235

0.000

0.000

(U) **C. Other Program Funding Summary (\$ in Millions)**FY 2005FY 2006FY 2007FY 2008FY 2009FY 2010FY 2011Cost toTotal CostActualEstimateEstimateEstimateEstimateEstimateEstimateComplete

(U) Not Applicable

(U) **D. Acquisition Strategy**

The Acquisition Strategy for this effort will be to use existing precompeted contracts and add task/delivery orders to them.