

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

## BUDGET ACTIVITY

**5 - System Development and Demonstration**

## PE NUMBER AND TITLE

**0604□1□A - Combat Identification**

COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	11402	12069	2973	17807	19920	21390	1018	0	0	214031
482 GROUND COMBAT IDENTIFICATION	3381	12069	2973	17807	19920	21390	1018	0	0	201027
902 INDIVIDUAL COMBAT IDENTIFICATION SYSTEM (ICIDS)	8021	0	0	0	0	0	0	0	0	13004

**A. Mission Description and Budget Item Justification:** The ultimate goal of combat identification is to maximize combat effectiveness. This is achieved by the rapid, reliable identification of friends, foes, and neutrals. Project 482 supports the development of ground-to-ground and air-to-ground combat identification solutions for the Current Force and for the complementary systems that operate with the Future Force. This project also supports combat identification initiatives approved by the Army Marine Corps Board (AMCB) to narrow CID capability gaps. Project 902 supports the development of combat identification solutions for the individual soldier. Both projects are designed to ensure compatibility and interoperability with the Future Combat Systems (FCS).

FY06 funds will identify technical solutions for reducing the unit procurement costs of the Battlefield Target Identification Device (BTID) for vehicle-to-vehicle fratricide reduction. FY 07 funds support the development of an integrated set of combat identification solutions that encompass Doctrine, Organizations, Training, Materiel, Leadership and Education, Personnel and Facilities (DOTMLPF).

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	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	6994	2991	4955
Current Budget (FY 2006/2007 PB)	12069	2973	17807
Total Adjustments	5075	-18	12852
Net of Program/Database Changes			
Congressional Program Reductions		-18	
Congressional Rescissions			
Congressional Increases			
Reprogrammings	5075		12852
SBIR/STTR Transfer			
Adjustments to Budget Years			

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

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BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604□1□A - Combat Identification**

PROJECT  
**4□2**

COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
482 GROUND COMBAT IDENTIFICATION	3381	12069	2973	17807	19920	21390	1018	0	0	201027

**A. Mission Description and Budget Item Justification:** Combat identification (CID) is intended to maximize combat effectiveness by minimizing battlefield casualties that may result from fratricide (friendly fire) incidents. The funds requested for this project will support efforts to develop combat identification solutions that will achieve the Army's goal of minimizing fratricide in ground-to-ground and air-to-ground combat operations.

FY06 funds will identify technical solutions for reducing the unit procurement costs of the Battlefield Target Identification Device (BTID) for vehicle-to-vehicle fratricide reduction. FY 07 funds support the development of an integrated set of combat identification solutions that encompass Doctrine, Organizations, Training, Materiel, Leadership and Education, Personnel and Facilities (DOTMLPF).

<b>Accomplishments/Planned Program</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
Design and Develop Potential Air-to-Ground CID Solution	2966	0	0	0
Identify technical solutions for reducing the unit procurement costs of BTID for vehicle-to-vehicle fratricide reduction.	0	4000	2973	0
Development of the concept of operation and TTPs for RF Tags to achieve reductions in air-to-ground fratricide.	0	2194	0	0
Acquisition of RF Tag prototypes	0	800	0	0
Develop the NATO interoperable CID technology for the International CID program	415	0	0	0
Transfer to the Individual Combat Identification System (ICIDS) Program Line	0	5075	0	0
Begin development of DOTMLPF-based Solutions	0	0	0	17807
<b>Totals</b>	<b>3381</b>	<b>12069</b>	<b>2973</b>	<b>17807</b>

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## **B. Other Program Funding Summary**

	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
OPA2, SSN BA0510, Combat Identification Program	0	0	0	0	3591	26200	64879	73324	0	167994

The FY08-11 CID OPA funds support the fielding of DOTMLPF solutions.

**C. Acquisition Strategy:**The Army's overall CID acquisition strategy is to develop and field an integrated set of combat identification solutions that encompass Doctrine, Organizations, Training, Materiel, Leadership and Education, Personnel and Facilities (DOTMLPF). In FY06 the focus will be on the identification of technical solutions for reducing the unit procurement costs of the Battlefield Target Identification Device (BTID), a NATO-interoperable interrogation and reply concept based on millimeter wave technology for vehicle-to-vehicle fratricide reduction. In FY 07 and beyond, the focus will be on the development and fielding of DOTMLPF combat identification solutions.

ARMY RDT&E COST ANALYSIS(R3)									February 2005			
BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>					PE NUMBER AND TITLE <b>0604□1□A - Combat Identification</b>					PROJECT <b>4□2</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . B-Kit Development	C/CPAF	TRW, CA	69765	0		0		0		0	69765	69765
b . A-Kit Development (Abrams)	C/CPFF	GDLS, MI	10909	0		0		0		0	10909	10909
c . A- Kit Development (Bradley)	C/CPFF	UDLP, CA	3364	0		0		0		0	3364	3364
d . A-Kit Development (Various)	Misc.	E&S, TRW, UDLP, AM General, Raytheon.	5836	0		0		0		0	5836	5836
e . Air-to-Ground Efforts	MIPR	I2WD Ft. Monmouth, NJ	2206	0		0		0		0	2206	0
f . Air-to-Ground Solution Efforts	MIPR	Sandia National Labs/DOE Albuquerque, NM	550	0		0		0		0	550	0
g . Combat Identification International Efforts	C/CPFF	Raytheon Ft. Wayne, IN	415	0		0		0		0	415	0
h . ICIDS Program	TBD	PM Soldier Ft. Belvoir, VA	0	5075	2Q	0		0		0	5075	0
i . BTID Cost Reduction Efforts	TBD	I2WD/ Contractor TBD	0	3677	2Q	2673	1Q	0		0	6350	0
j . RF Tags Program Efforts	MIPR	I2WD Ft. Monmouth, NJ	0	2100	2Q	0		0		0	2100	0

ARMY RDT&E COST ANALYSIS(R3)									February 2005			
BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>					PE NUMBER AND TITLE <b>0604□1□A - Combat Identification</b>					PROJECT <b>4□2</b>		
I. Product Development (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
k . RF Tag Prototypes	C/CPFF	BAE Nashua, NH	0	800	2Q	0		0		0	800	0
l . DOTMLPF Solutions	TBD	TBD	0	0		0		17807	1-4Q	42328	60135	0
Subtotal:			93045	11652		2673		17807		42328	167505	89874
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Matrix Support	MIPR	CECOM, Fort Monmouth NJ	8303	0		0		0		0	8303	0
b . System Eng/Tech Assistance	T&M/MIPR	COLSA, Falls Church, VA; Sytex, Eatontown, NJ	7150	97	2Q	0		0		0	7247	0
c . Test Planning	MIPR	CECOM, Fort Monmouth NJ	437	0		0		0		0	437	0
d . Technical Support	MIPR	Sandia National Laboratories/IDA Albuquerque, NM	570	0		0		0		0	570	0
Subtotal:			16460	97		0		0		0	16557	0

ARMY RDT&E COST ANALYSIS(R3)									February 2005			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604□1□A - Combat Identification					PROJECT 4□2		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Technical Test, Log Demo, SCD, IOTE	MIPR	ATEC, YPG, AZ	3513	0		0		0		0	3513	0
b . Limited User Test	MIPR	ATEC, YPG, AZ	673	0		0		0		0	673	0
c . ASCIET	MIPR	Misc.	6651	0		0		0		0	6651	0
Subtotal:			10837	0		0		0		0	10837	0
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Program Management	In-house support	PM NavSys/TIMS, Ft. Monmouth, NJ	5508	320	1-4Q	300	1-4Q	0		0	6128	0
Subtotal:			5508	320		300		0		0	6128	0
Project Total Cost:			125850	12069		2973		17807		42328	201027	89874

Schedule Profile (R4 Exhibit)																					February 2005											
BUDGET ACTIVITY 5 - System Development and Demonstration										PE NUMBER AND TITLE 0604□1□A - Combat Identification																		PROJECT 4□2				
Event Name	FY 04				FY 05				FY 06				FY 0□				FY 0□				FY 0□				FY 10				FY 11			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Radio Frequency (RF) Tag Program Efforts									RF Tag Program Efforts																							
Battlefield Target Identification Device (BTID) Cost Reduction Studies									BTID Cost Reduction Studies																							
Coalition Combat Identification (CID) ACTD									Develop and Test Technologies																							
Army Marine Corps Board (AMCB) CID Study																																
Develop and Field DOTLMPF CID Solutions													Develop and Field DOTLMPF CID Solutions																			
DOTLMPF: Doctrine, Organizations, Training, Materiel, Leader Development and Education, Personnel, and Facilities																																



<b>Schedule Detail (R4a Exhibit)</b>						<b>February 2005</b>		
BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>				PE NUMBER AND TITLE <b>0604 □ 1 □ A - Combat Identification</b>				PROJECT <b>4 □ 2</b>
<b><u>Schedule Detail</u></b>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Design and Develop Air-to-Ground CID Solution	1-4Q							
Execute Combat Identification International program efforts	1-4Q							
CCID ACTD	1-4Q	1-4Q						
RF Tags Program Efforts		1-4Q						
BTID Cost Reduction Studies		1-4Q	1-4Q					
AMCB CID Study	3-4Q							
Develop and Field DOTMLPF CID Solutions				1-4Q	1-4Q	1-4Q	1-4Q	1-4Q