

OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

Date: February 2007

APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 3		PE NUMBER AND TITLE 0603665D8Z - Biometrics Science and Technology						
Cost (\$ in Millions)	FY 2006 Actual	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total Program Element (PE) Cost	0.000	0.000	8.000	10.600	11.300	12.100	12.300	15.200
P665 Biometrics Science and Technology	0.000	0.000	8.000	10.600	11.300	12.100	12.300	15.200

A. Mission Description and Budget Item Justification: (U) The Deputy Secretary of Defense on October 4, 2006, designated the Director of Defense Research and Engineering (DDR&E) as the Principal Staff Assistant (PSA) for biometrics. The scope of the responsibilities is to fully address and exercise control over all facets of the Department's biometrics programs, initiatives, and technologies. This includes requirements, doctrine, organization, training, materiel, logistics, architecture, standards and funding.

(U) DDR&E established a senior-level Biometrics Executive Committee (ExCom) in mid-October to chart the way forward. The committee includes key stakeholders within OSD and across Department and invites interagency participation (e.g., DHS, DoJ (FBI), DoS, DoC, NSAm and Intelligence Community).

(U) The Department is implementing a synchronized, integrated, and coordinated approach for developing, procuring, supporting, and fielding biometrics capabilities.

(U) Key issues include the coordination of policy issues for sharing of data across the Department, with other agencies, and with our coalition partners; funding, and the need for consolidated program and spend plans. The Joint Staff Capabilities Based Assessment (CBA) addressed near-term operational gaps. The CBA identified gaps include base access and security, joint training, software interoperability, and communication equipment (regarding the speed of transaction and data sharing).

B. Program Change Summary	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)				
Current BES/President's Budget (FY 2008/2009)	0.000	0.000	8.000	10.600
Total Adjustments	0.000	0.000	8.000	10.600
Congressional Program Reductions				
Congressional Rescissions				
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				
Other			8.000	10.600

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C. Other Program Funding Summary: Not Applicable.

D. Acquisition Strategy: Not Applicable.

E. Performance Metrics: Not Applicable.

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APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 3		PE NUMBER AND TITLE 0603665D8Z - Biometrics Science and Technology					PROJECT P665		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
P665 Biometrics Science and Technology	0.000	0.000	8.000	10.600	11.300	12.100	12.300	15.200	

A. Mission Description and Project Justification: (U) Military applications of biometrics exploitation to date have largely focused on the use of fingerprints to identify personnel for entry into controlled areas. During the past three years the military value of biometrics technology in counter terrorism, combating terrorism, and counter insurgency operations has been repeatedly demonstrated in forensics application in support of irregular warfare operations and in the identity verification of foreign nationals working in support of U.S. Forces. (U) The Department of Defense (DoD) does not currently have a strategic, synchronized, integrated, and coordinated research and development approach to expand the forensic exploitation for the broad range of biometric markers to exploit all biometrics information available for identification of personnel. DoD is developing a comprehensive biometrics Science and Technology (S&T) program to address all aspects of identity management ranging from information security to forensic analysis. This effort initiates a comprehensive biometrics S&T plan that addresses all facets of intra-DoD and interagency coordination, including standards and develops common data bases to share biometric data across agencies at the federal, state and local levels. (U) Implementation of the S&T plan enables the continued growth of biometrics to enable capabilities beyond current fingerprint management areas and benefits irregular warfare, force protection, and identity management efforts. (U) Funding will be used to implement a comprehensive biometrics Science and Technology (S&T) plan that will include Stand-Off Capabilities.

B. Accomplishments/Planned Program:

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Stand-Off Capabilities	0.000	0.000	1.000	2.300
FY 2008/FY2009 Plan - Use near infrared laser and inverse SAR / LIDAR to enhance video / camera images to enable stand-off, covert and overt detection and identification capabilities including: -Iris-At-A-Distance for tactical operations and Tagging, Tracking, and Locating (TTL). -Facial Recognition for positive ID of individuals from regional / national face recognition data bases. Goal is enable 100-200 meters initial stand-off, then spiral to 500 meter capability with a longer term recognition approaching 1 kilometer. Monitoring approaches to facilities, borders, ports of entry and other high traffic areas.				
Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Non-Obtrusive Biometrics	0.000	0.000	1.000	1.000
FY 2008/FY 2009 Plan - Develop inconspicuous means to identify evasive behavior such as voice recognition capabilities for use in identification and screening of personnel. For example, during interrogations or interviews, exploitation of subtle markers such as facial expressions and voice inflection can identify when interviewees are not being truthful. Markers may be covertly collected without the subject being physically connected to monitors.				

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Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Rapid Capture of Fingerprints	0.000	0.000	1.000	1.000
FY 2008/FY 2009 Plan - Use of optical 3-D imagery and hyperspectral technology to rapidly capture fingerprints to support time-compressed special operations and maritime interdiction, checkpoint operations, drug interdiction and humanitarian services. Metric is to reduce time for fingerprint assessment & identification from minutes to seconds.				
Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Enhanced Latent Fingerprint Detection	0.000	0.000	1.000	1.000
FY 2008/FY 2009 Plan - Use mass spectrometry to identify latent fingerprints on post-blast IED fragments (or empty plastic narcotic bags) that are otherwise undetectable with current technology				
Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Natural Forensics for Backtracking Terrorists	0.000	0.000	1.000	2.300
FY 2008/FY 2009 Plan - Use stable isotopes (e.g., in water, food, or environment) as natural forensic taggants to determine geographical regions through which humans have traversed or resided. Begin compiling data bases in high risk geographical areas to provide chronological record of geographic movements and travel histories of personnel of interest.				
Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Biometrics Operational Exchange	0.000	0.000	1.000	1.000
FY 2008/FY 2009 Plan - Establish a prototype, interoperable data base for DoD enabling rapid collection, processing, and correlation of biometrics information and sharing of data between agencies, and with state & local law enforcement agencies, particularly "red force" data. Provide timely exchange of formatted biometric data enables military, law enforcement and security personnel to identify and monitor persons of interest.				
Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Multimodal Biometrics Fusion	0.000	0.000	1.000	1.000
FY 2008/FY 2009 Plan - Rapidly adaptable and changing threats require a capability for more finite identification and authentication of red and gray force personnel. Goal is move from single point capabilities such as fingerprinting, iris scans, speech and voice recognition into formats providing multimodal biometrics common formats using intelligence fusion technologies. Execute rapid transition of emerging biometrics knowledge to the warfighter.				
Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Forensic Exploitation of Biometrics	0.000	0.000	1.000	1.000
FY 2008/FY2009 Plan - Establish capabilities to exploit forensic information derived from weapons, evidence and human identifiers. Develop forensic, interoperable and modular databases and establish a training program for biometrics users.				

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C. Other Program Funding Summary: Not Applicable.

D. Acquisition Strategy: Not Applicable.

E. Major Performers Not Applicable.