

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0305103F: Cyber Security Initiative							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	2.020	2.065	2.030	0.000	2.030	2.033	2.060	2.058	2.059	Continuing	Continuing
671931: TECH SURVEIL COUNTER MEAS EQPT	2.020	2.065	2.030	0.000	2.030	2.033	2.060	2.058	2.059	0.000	0.000
A. Mission Description and Budget Item Justification											
<p>The DoD Cyber Crime Center (DC3) was created as a DoD center of excellence to efficiently organize, equip, train, and employ scarce resources to more effectively address the proliferation of computer crimes affecting the DoD. DC3 has a digital forensics laboratory, training program, institute, and National Cyber Investigative Joint Task Force Analytical Group.</p> <p>To enable its operation, through the Defense Cyber Crime Insititute (DCCI), DC3 will leverage research into cutting edge investigative challenges within the digital forensic discipline to advance efforts aimed at security networks through the use of active sensors. DCCI conducts liaison relationships by partnering with government, university and private industry computer security officials.</p> <p>DCCI conducts deep dive research into metamorphic and polymorphic techniques embedded in malicious code; behavior patterns inherent to insider threat actors; and the viability of applying multiple anti-virus tools in parallel are among the efforts which have he potential to dramatically increase the ability to active sensors to detect security threats affecting DoD networks.</p> <p>The Intrusions/Intruders Signature Program (IISP) provides for the R&D of products and technologies that detect trace and profile hostile cyber adversaries. This capability provides network monitoring and the framework for sharing and automating reverse engineering techniques.</p> <p>Computer Incident Batch Oriented Recursive Examination (CIBORE) is used to aid the counterintelligence and law enforcement communities to respond to computer intrusions. It is also a data reduction tool that takes a large volume of data, identifies the known “good” and “bad” files and eliminates them from consideration, leaving several GBs of files as candidate malicious code files.</p> <p>This program is categorized in Budget Activity (BA) 7 because it supports the development efforts of operational systems.</p>											

UNCLASSIFIED

R-1 Line Item #186

Page 1 of 7

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0305103F: Cyber Security Initiative			
BA 7: Operational Systems Development					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	2.083	2.080	0.000	0.000	0.000
Current President's Budget	2.020	2.065	2.030	0.000	2.030
Total Adjustments	-0.063	-0.015	2.030	0.000	2.030
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-0.063	-0.015	2.030	0.000	2.030
Change Summary Explanation					
FY11: The FY2010 President's Budget submittal did not reflect FY2011 through FY2015 funding. Therefore, explanation of changes between the two budget positions cannot be made in a relevant manner.					

UNCLASSIFIED

R-1 Line Item #186

Page 2 of 7

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0305103F: Cyber Security Initiative				PROJECT 671931: TECH SURVEIL COUNTER MEAS EQPT			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
671931: TECH SURVEIL COUNTER MEAS EQPT	2.020	2.065	2.030	0.000	2.030	2.033	2.060	2.058	2.059	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
<p>The DoD Cyber Crime Center (DC3) was created as a DoD center of excellence to efficiently organize, equip, train, and employ scarce resources to more effectively address the proliferation of computer crimes affecting the DoD. DC3 has a digital forensics laboratory, training program, institute, and National Cyber Investigative Joint Task Force Analytical Group.</p> <p>To enable its operations, through the Defense Cyber Crime Institute (DCCI), DC3 will remain on the leading edge of computer technologies and techniques through research, development, testing and evaluation applied to digital evidence processing and computer forensic analysis; and by conducting liaison and by partnering with governmental, university, and private industry computer security officials.</p> <p>DC3 will develop imaging tools, steganalysis and stegextraction tools, and password over-ride tools. These software tools will enable DC3 to increase the probability of data recovery that would otherwise remain undetected.</p> <p>The Intrusions/Intruders Signature Program (IISP) provides for the R&D of products and technologies that detect trace and profile hostile cyber adversaries. This capability provides network monitoring and the framework for sharing and automating reverse engineering techniques.</p> <p>Computer Incident Batch Oriented Recursive Examination (CIBORE) is used to aid the counterintelligence and law enforcement communities to respond to computer intrusions. It is also a data reduction tool that takes a large volume of data, identifies the known “good” and “bad” files and eliminates them from consideration, leaving several GBs of files as candidate malicious code files.</p> <p>This program is categorized in Budget Activity (BA) 7 because it supports the development efforts of operational systems.</p>											
B. Accomplishments/Planned Program (\$ in Millions)											

UNCLASSIFIED

R-1 Line Item #186

Page 3 of 7

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force							DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>			R-1 ITEM NOMENCLATURE PE 0305103F: <i>Cyber Security Initiative</i>			PROJECT 671931: <i>TECH SURVEIL COUNTER MEAS EQPT</i>					
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
MAJOR THRUST: Digital Forensic Tools						2.020	2.065	2.030	0.000	2.030	
<i>FY 2009 Accomplishments:</i> In FY 2009: Develop and validate tools.											
<i>FY 2010 Plans:</i> In FY 2010: Develop and validate tools.											
<i>FY 2011 Base Plans:</i> In FY 2011: Develop and validate tools.											
<i>FY 2011 OCO Plans:</i> In FY 2011 OCO: Not applicable											
Accomplishments/Planned Programs Subtotals						2.020	2.065	2.030	0.000	2.030	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE Not Provided (14370): O&M (0305103)	14.721	14.626	14.675	0.000	14.675	14.703	14.964	14.951	15.001	0.000	0.000
D. Acquisition Strategy											
All contracts will be awarded based on full and open competition.											
E. Performance Metrics											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

UNCLASSIFIED

R-1 Line Item #186

Page 4 of 7

UNCLASSIFIED

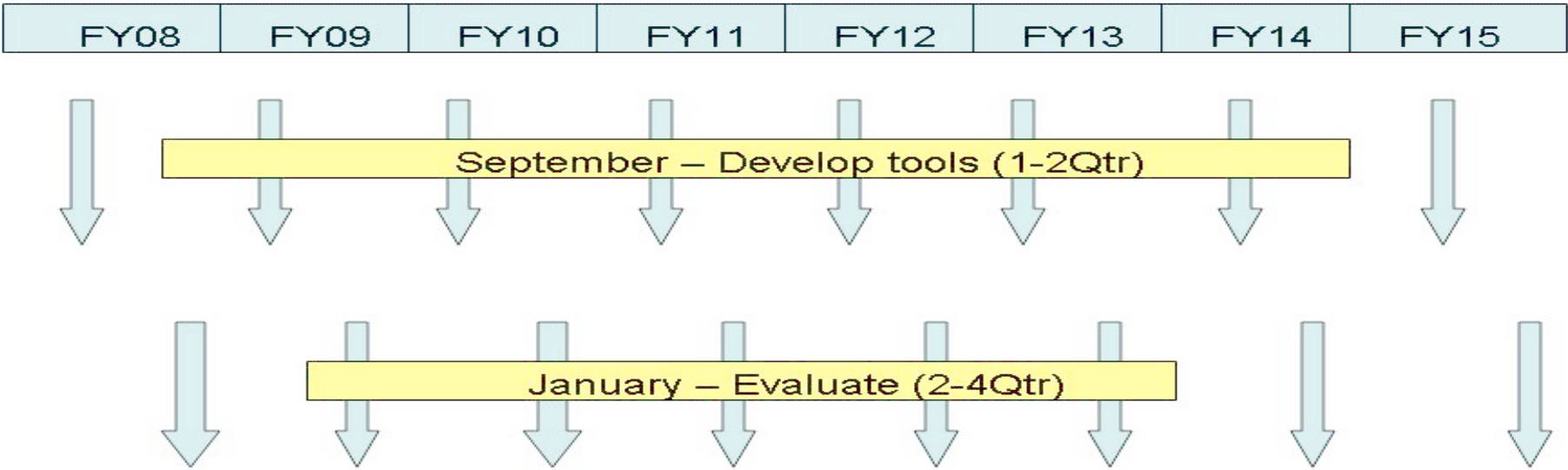
Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0305103F: <i>Cyber Security Initiative</i>				PROJECT 671931: <i>TECH SURVEIL COUNTER MEAS EQPT</i>					
Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
General Dynamics	C/FFP	Lithicum Maryland	2.020	2.065	Dec 2010	2.030	Dec 2011	0.000		2.030	Continuing	Continuing	Continuing
Subtotal			2.020	2.065		2.030		0.000		2.030			
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			2.020	2.065		2.030		0.000		2.030			
Remarks Total Prior Years Cost may include only FY 2009 data.													

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0305103F: Cyber Security Initiative	PROJECT 671931: TECH SURVEIL COUNTER MEAS EQPT

Cyber Security Initiative



UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305103F: <i>Cyber Security Initiative</i>	PROJECT 671931: <i>TECH SURVEIL COUNTER MEAS EQPT</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Develop software tools	1	2009	2	2011
Evaluate software using digital evidence processing	2	2009	4	2011

UNCLASSIFIED