

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0208021F Information Warfare Support
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	11.632	12.117	12.271	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt	11.632	12.117	12.271	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

This Program Element funds research and development of information operations (IO) and intelligence capabilities required to execute counterspace and information operations in support of combatant commanders. Programs that are supported include the Information Warfare Planning Capability (IWPC), and Counterspace Intelligence Support.

IWPC is a full-spectrum, offensive and defensive, planning capability. IWPC is an Air and Space Operations Center (AOC) weapon system component which will enable operators to develop strategic courses of action for the Joint Forces Air Component Commander (JFACC); create Air Operations Directives (AODs) and Joint Air Operations Plans (JAOPs); and nominate IO "targets" for inclusion into the Master Air Attack Plan and the Joint Integrated Prioritized Target List (JIPTL). This project funds the development and upgrades, testing and evaluation, and installation and training of an evolving suite of interoperable planning and decision support capabilities comprised of software, hardware, and communications products. This project will identify and implement an open, scalable system architecture that will accommodate growth as the virtual world grows and cyber operations change. The project builds functional software modules that are designed to be interoperable with C2 systems such as the Theater Battle Management Core System (TBMCS) and other AOC tools.

The Counterspace effort provides intelligence support for key find, fix, track, target, engage, and assess (F2T2EA) requirements supporting counterspace activities and also performs developmental intelligence collection to support new capability acquisition and development. This project funds transportable intelligence collection and analysis capabilities that are modular (plug-and-play), and can keep pace with technological advances and emerging threats; intelligence support systems supporting Space Situational Awareness activities that provide the requisite current and predictive knowledge of space events and threat conditions; and, intelligence support to Space Protection Programs by providing architectural survivability analysis of critical mission assets for mission assurance. It also supports phased threat system Analysis and Studies (A&S), test support, lab equipment, and Material Acquisition and Exploitation (MAE) for new system development and vulnerability/susceptibility assessments to support tactics, techniques and procedures (TTP) development, and future threat technology studies necessary for mission area success, the achievement of space superiority, and to preserve the US space advantage across all domains.

This PE funds development and continued research to identify existing military and commercial efforts which can satisfy unfulfilled operational requirements for IO planning and integration. Activities also include studies and analysis to support both current program planning and execution and future program planning.

This program is in Budget Activity 7, Operational System Development, because it studies, develops, and fields IO tools.

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BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0208021F Information Warfare Support

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	11.965	12.220	12.482
(U) Current PBR/President's Budget	11.632	12.117	12.271
(U) Total Adjustments	-0.333	-0.103	
(U) Congressional Program Reductions		-0.070	
Congressional Rescissions		-0.033	
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-0.333		
(U) <u>Significant Program Changes:</u>			
N/A			

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0208021F Information Warfare Support				PROJECT NUMBER AND TITLE 0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt	11.632	12.117	12.271	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

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

This Program Element funds research and development of information operations (IO) and intelligence capabilities required to execute counterspace and information operations in support of combatant commanders. Programs that are supported include the Information Warfare Planning Capability (IWPC), and Counterspace Intelligence Support.

IWPC is a full-spectrum, offensive and defensive, planning capability. IWPC is an Air and Space Operations Center (AOC) weapon system component which will enable operators to develop strategic courses of action for the Joint Forces Air Component Commander (JFACC); create Air Operations Directives (AODs) and Joint Air Operations Plans (JAOPs); and nominate IO "targets" for inclusion into the Master Air Attack Plan and the Joint Integrated Prioritized Target List (JIPTL). This project funds the development and upgrades, testing and evaluation, and installation and training of an evolving suite of interoperable planning and decision support capabilities comprised of software, hardware, and communications products. This project will identify and implement an open, scalable system architecture that will accommodate growth as the virtual world grows and cyber operations change. The project builds functional software modules that are designed to be interoperable with C2 systems such as the Theater Battle Management Core System (TBMCS) and other AOC tools.

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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) IWPC Installation and Training	1.194	1.180	1.092
(U) IWPC Software Testing and Evaluation	0.271	0.275	0.279
(U) IWPC Advisory & Assistance Service (A&AS)	0.193	0.195	0.196
(U) IWPC Upgrades/Maintenance Releases	0.337	0.339	0.330
(U) IWPC MITRE Support	0.286	0.295	0.299
(U) Program Office Costs	0.080	0.085	0.086
(U) Counterspace Intelligence Support	9.271	9.748	9.989
(U) Total Cost	11.632	12.117	12.271

(U) <u>C. Other Program Funding Summary (\$ in Millions)</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) IWPC Operations & Maintenance, AF (3400) PE 0208021	0.772	0.755	0.778	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) Counterspace Intelligence Support Operations and Maintenance, AF (3400) PE 0208021F	12.603	12.739	12.954	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

(U) **D. Acquisition Strategy**
 IWPC fielding will continue throughout FY10. Future upgrades will be delivered as maintenance releases.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<u>(U) Product Development</u>												
IWPC A&AS	Various	Lackland AFB TX	0.680	0.193	Nov-07	0.195	Nov-08	0.196	Nov-09	Continuing	TBD	TBD
IWPC Contract	Various	General Dynamics, Lackland AFB TX/Santa Clara CA	0.706	1.531	Jul-08	1.654	Mar-09	1.561	Oct-09	Continuing	TBD	TBD
IWPC MITRE Support	Various	MITRE, Lackland AFB TX	0.530	0.286	Nov-07	0.295	Oct-08	0.299	Oct-09	Continuing	TBD	TBD
IWPC Program Office Costs	Various	Lackland AFB TX	0.135	0.080	Nov-07	0.085	Oct-08	0.086	Oct-09	Continuing	TBD	TBD
Counterspace and R&D Intelligence Support	Various	Lackland AFB TX	2.416	2.318	Nov-07	2.438	Nov-08	2.526	Nov-09	Continuing	TBD	TBD
Architecture Upgrade Support to SSA, SSP & Counterspace	Various	Lackland AFB TX	1.593	1.483	Jul-08	1.559	Nov-08	1.573	Nov-09	Continuing	TBD	
Data Analysis and Product Development for R&D	Various	Lackland AFB TX	5.120	5.006	Nov-07	5.264	Nov-08	5.434	Nov-09	Continuing	TBD	
Deployment Support for Testing & Data Collection	Various	Lackland AFB TX	0.475	0.464	Nov-07	0.487	Nov-08	0.456	Nov-09	Continuing	TBD	
Subtotal Product Development			11.655	11.361		11.977		12.131		Continuing	TBD	TBD
Remarks:												
<u>(U) Test & Evaluation</u>												
IWPC Developmental Testing	T&M	46th TS, Eglin AFB FL	0.310	0.271	Dec-07	0.140	Dec-08	0.140	Dec-09	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.310	0.271		0.140		0.140		Continuing	TBD	TBD
Remarks:												
<u>(U) Total Cost</u>			11.965	11.632		12.117		12.271		Continuing	TBD	TBD

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Project 0374

Exhibit R-3 (PE 0208021F)

Exhibit R-4, RDT&E Schedule Profile

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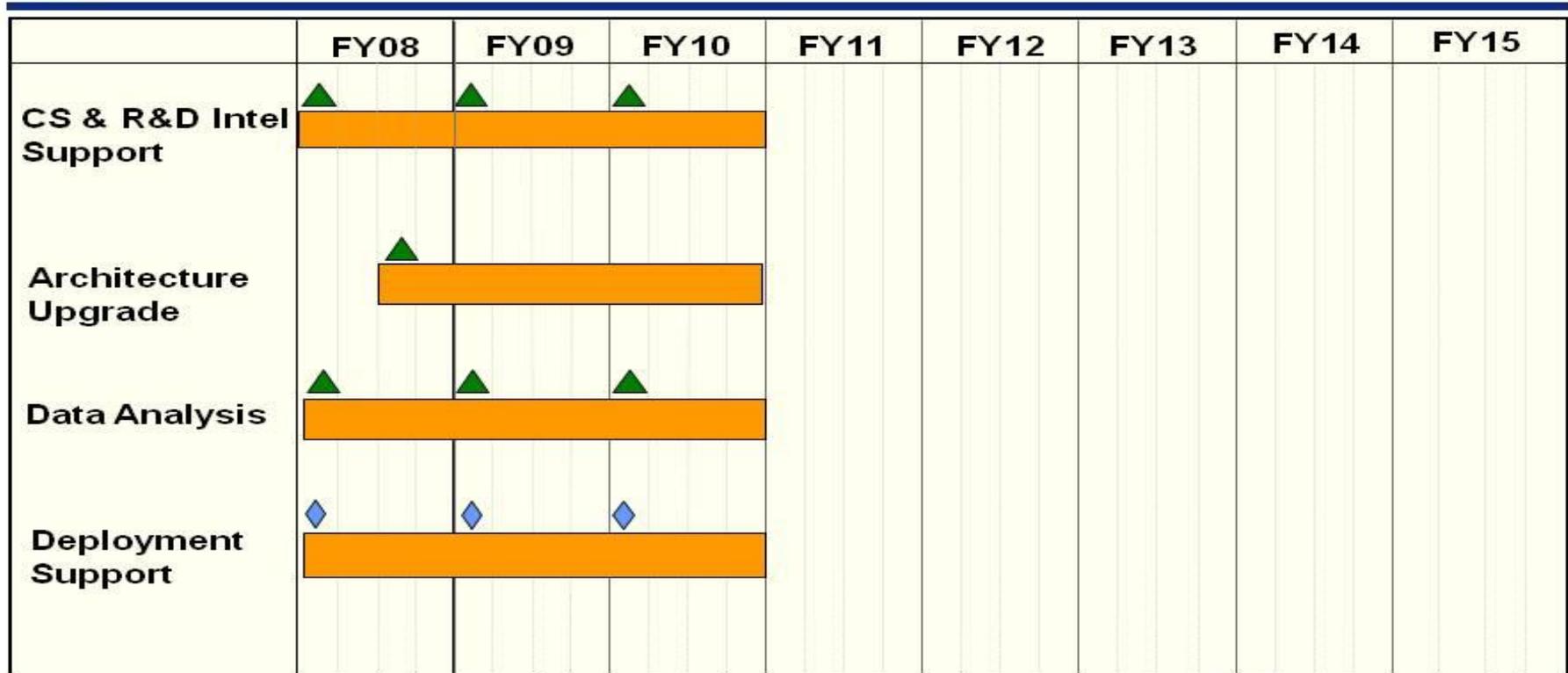
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0374 Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt



CS Intelligence Program Schedule



Intelligence Support

◆ Key Events
▲ Contract Award

PB10 R-Docs

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Exhibit R-4a, RDT&E Schedule Detail

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(U) <u>Schedule Profile</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) IWPC Development, Test & Integration	1Q		
(U) IWPC Fielding/Site Installation	3-4Q	1-4Q	1-4Q
(U) IWPC Upgrades/Maintenance Releases	1-4Q	1-4Q	1-4Q
(U) Exercises	1-4Q	1-4Q	1-4Q
(U) Counterspace and R&D Intelligence Support	1-4Q	1-4Q	1-4Q
(U) Architecture Upgrade Supporting SSA, SSP, & Counterspace	3-4Q	1-4Q	1-4Q
(U) Data Analysis and Product Development for R&D	1-4Q	1-4Q	1-4Q
(U) Deployment Support for Testing and Data Collection	1-4Q	1-4Q	1-4Q