

Exhibit R-2, RDT&E Budget Item Justification								DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/05				R-1 ITEM NOMENCLATURE Information Systems Security Program (ISSP)/P.E. 0303140K						
COST (in millions)		FY01	FY02	FY03	FY04	FY05	FY06	FY07	Cost to Complete	Total Cost
Information Systems Security Program/IA01		17.649	11.636	17.620	12.553	12.586	12.881	13.374	Contg	Contg

A. Mission Description & Budget Item Justification:

The Information Systems Security Program, initially created by Defense Management Review Decision (DMRD) 918 dated September 1992, provides for the protection and defensive operation at the tactical, operational, and strategic levels. The Information Assurance Program assures availability, confidentiality, and reliability of mission data as it is processed and traverses DOD's networks. Joint Vision 2020 states that protecting the capability to conduct information operations is one of the most important challenges in the future. DISA has the responsibility to ensure the Global Information Grid (GIG) contains adequate protection against attack and robust dynamic network capabilities are maintained to allow DOD to move toward a common goal: a joint force - persuasive in peace, decisive in war, and preeminent in any form of conflict. Therefore, the role of the Information Assurance (IA) program is to improve the information superiority posture of the DOD. This program provides the DOD-wide security architecture, technical implementation strategy, and current security operations - proactive, routine, and crisis-response. With the exception of some FY 2001 funding for intrusion detection systems and some FY 2003 funding for Public Key Enabling efforts, the RDT&E portion of DISA's ISSP budget focuses predominantly on the security aspects of the Defense Message System (DMS). These funds in PE 0303140K are not duplicative of work being done under PE 0303129K which are shown in a separate R-2 exhibit. In order for DMS to achieve its military functionality, various security improvements were budgeted for and initiated under the Information Systems Security Program. DISA will incorporate the DOD Public Key Infrastructure and state-of-the-art information security products such as Certificate Authority Workstations, High Assurance Guards, and Firewalls. New or improved hardware and software must be prototyped and tested to ensure DMS responds to CINCs' and Services' demands for secure commercial messaging capabilities. Multiple security level technologies, based upon High Assurance Guards, must be incorporated to provide secure interoperability between messaging enclaves of differing security classifications. These DMS security services will continue to be developed, improved, and integrated into the product. In addition to the DMS security work, DISA jointly funded work with NSA to explore patternless intrusion detection in FY01.

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<p>In FY02, DMS will test and implement Release 3.0 which will focus on essential Intelligence community requirements and provide automated access controls for compartments, code words, and caveats using ACP 120 implementation of the Common Security Protocol (CSP). DMS will also start a Release 3.0 Maintenance Release (MR1) in FY02. In FY03, DMS will deliver the next maintenance or "dot" release which will provide enhancements and robustness to the organizational messaging capabilities provided in Release 3.0. DMS will support closure of the DMS Transition Hubs in FY03. Additionally, in FY03, DISA will be pursuing an effort involving Public Key Infrastructure, which is not related to its other DMS work. In this effort, Public Key Enabling (PKE) initiatives will be investigated that will provide engineering solutions for PK enabling network access control and other network devices using COTS products. The goal is to deliver PK enabled Blackberry and other Personal Digital Assistant (PDA) devices to the operational community.</p> <p>This program element is under Budget Activity 5 because it involves the development of major upgrades that increase the performance of existing systems.</p>										

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<p><u>FY2001 Accomplishments:</u></p> <ul style="list-style-type: none"> o Field and Enhance Release 2.2. The DMS program tested and fielded the ISSP security feature enhancements to Release 2.2. DMS implements and fields system capabilities through a series of coordinated product releases. (1st - 4th Qtr, \$.919M) o Deliver Release 3.0. Release 3.0 provides ISSP security features for classified organizational messaging through Top Secret/Sensitive Compartmented Information (SCI). (1st - 2nd Qtr, \$13.519M) o Test and Enhance Release 3.0. The DMS program performed developmental testing and implemented ISSP security feature enhancements to Release 3.0. (2nd - 4th Qtr, \$.335M) o Expand Medium Grade Service (MGS). DMS expanded the ISSP security features of the MGS operational base. MGS is a managed set of Commercial Off-The-Shelf (COTS) e-mail products, that utilize the DOD Medium Assurance Public Key Infrastructure (PKI). As a subset of the DMS, MGS represents a set of Internet standards agreed to by government and industry. (2nd Qtr, \$2.000M) o Start Release 3.0/MR1 (previously referred to as Release 3.1). Initial development of the ISSP security specific features of DMS Release 3.0/MR1 began. This release provides additional enhancements and robustness to organization messaging. (4th Qtr, \$.526) o Intrusion Detection Systems. Prototype intrusion detection solution for Pacific Air Force (PACAF)(2nd - 4th Qtr, \$.350M) o Total \$17.649M 										

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<p><u>FY2002 Plans:</u></p> <ul style="list-style-type: none"> o Field Release 3.0. DMS implements and fields system capabilities through a series of coordinated product releases. Release 3.0 provides classified organizational messaging through Top Secret/Sensitive Compartmented Information (SCI). (1st - 2nd Qtr, \$1.950M) o Deliver Release 3.0/MR1. Release 3.0/MR1 will provide additional enhancements and robustness to organizational messaging. (1st - 2nd Qtr, \$6.690M) o Security, Test, and Evaluation (ST&E) of DMS Releases and Emergency Action Message (EAM) Testing. DMS Releases will undergo security tests of ISSP security features in accordance with the approved DMS Revised Capstone Test and Evaluation Master Plan (TEMP). DMS will support security testing of the EAM dissemination solution. (2nd - 3rd Qtr, \$1.069M) o Expand MGS/Message Service Convergence. DMS will continue to expand the MGS operational base. The convergence of the current DMS High Grade integration of both Commercial and Government supplied hardware and software products and the Medium Grade implementation of COTS will begin. Studies have concluded that this convergence can be accelerated due to the significant technological advances in commercial encryption/security and messaging service capability. (2nd Qtr, \$0.300M) o Start the next maintenance of "dot" release (previously referred to as Release 3.2). Initial development of the ISSP security specific features of DMS Release 3.1 will begin. (1st - 4th Qtr, \$1.627M) o Total \$ 11.636M 										

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FY2003 Plans:

- o Field Release 3.0/MR1 and Support DMS Transition Hub (DTH) Closure. DMS Release 3.0/MR1 will provide additional ISSP security feature enhancements to classified organizational messaging through Top Secret/SCI. DMS will support closure of the DTHs in FY03 (1st - 2nd Qtr, \$1.924M)
- o Deliver the next maintenance or "dot" Release. Release 3.1 will provide additional ISSP security feature enhancements and robustness to organizational messaging. (1st - 2nd Qtr, \$5.111M)
- o Continue ST&E's of DMS Releases. DMS Releases will undergo security tests of ISSP security features in accordance with the approved DMS Revised Capstone TEMP. (2nd - 3rd Qtr, \$0.618M)
- o Expand MGS/Message Service Convergence. DMS will continue to expand the MGS operational base. The convergence of the current DMS High Grade integration of both Commercial and Government supplied hardware and software products and the Medium Grade implementation of Commercial-off-the-Shelf (COTS) will continue. (2nd Qtr, \$2.915M)
- o Start the next major Release (previously referred to as Release 4.0). Initial development of the ISSP security specific features of DMS Release 3.2 will begin. (1st - 4th Qtr, \$2.052M)

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FY2003 Plans (cont'd)

- o Provide engineering solutions for PK enabling network access control and network devices using COTS products to achieve seamless secure computing from desktop to laptop to handheld devices, thereby providing continuity and availability of services. (1st Qtr, \$2.5M)
- o Deliver PK enabled Blackberry and other PDA devices to the operational community to provide secure capability to PDAs and thereby extending PKI into the wireless environment. (1st Qtr, \$2.5M)
- o Total \$17.620M

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<p>B. <u>Program Change Summary:</u></p> <table> <thead> <tr> <th></th> <th><u>FY01</u></th> <th><u>FY02</u></th> <th><u>FY03</u></th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget (FY 2002)</td> <td>19.780</td> <td>11.767</td> <td>12.757</td> </tr> <tr> <td>Appropriated Value</td> <td>19.610</td> <td>11.767</td> <td></td> </tr> <tr> <td>Adjustments to Appropriated Value</td> <td>-1.961</td> <td>-.131</td> <td></td> </tr> <tr> <td>Adjustments to Budget Year Since FY 2002 President's Budget</td> <td></td> <td></td> <td>+4.863</td> </tr> <tr> <td>Current Budget Submit/President's Budget (FY 2003)</td> <td>17.649</td> <td>11.636</td> <td>17.620</td> </tr> </tbody> </table> <p>Change Summary Explanation: FY 2001 decrease is due to below threshold reprogramming. FY 2002 change is due to undistributed congressional adjustments to Defense-wide RDT&E appropriation. FY 2003 change is primarily due to initiative involving Public Key Enabling (PKE) effort.</p> <p>C. <u>Other Program Funding Summary:</u></p> <table> <thead> <tr> <th></th> <th><u>FY01</u></th> <th><u>FY02</u></th> <th><u>FY03</u></th> <th><u>FY04</u></th> <th><u>FY05</u></th> <th><u>FY06</u></th> <th><u>FY07</u></th> <th>To Complete</th> </tr> </thead> <tbody> <tr> <td>Operations & Maintenance:</td> <td>112.355</td> <td>145.114</td> <td>163.569</td> <td>166.033</td> <td>173.270</td> <td>176.729</td> <td>182.720</td> <td>Contg</td> </tr> <tr> <td>Procurement:</td> <td>19.658</td> <td>42.911</td> <td>37.543</td> <td>34.377</td> <td>29.963</td> <td>30.133</td> <td>29.999</td> <td>Contg</td> </tr> </tbody> </table> <p>D. <u>Acquisition Strategy:</u> The DMS Contract, Lockheed Martin Corporation (LMC), for the design and development of DMS; Planning Research Corporation (PRC) for the development and integration of Medium Grade Messaging Service (MGS); NSA for the development of security products and the conduct of ST&E (Security Test & Evaluation); and the Joint Interoperability Test Command (JITC) for planning and conducting operational testing.</p>												<u>FY01</u>	<u>FY02</u>	<u>FY03</u>	Previous President's Budget (FY 2002)	19.780	11.767	12.757	Appropriated Value	19.610	11.767		Adjustments to Appropriated Value	-1.961	-.131		Adjustments to Budget Year Since FY 2002 President's Budget			+4.863	Current Budget Submit/President's Budget (FY 2003)	17.649	11.636	17.620		<u>FY01</u>	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>	To Complete	Operations & Maintenance:	112.355	145.114	163.569	166.033	173.270	176.729	182.720	Contg	Procurement:	19.658	42.911	37.543	34.377	29.963	30.133	29.999	Contg
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<p>E. <u>Schedule Profile</u>: Field various releases of the DMS product with state-of-the-art security components as shown in the following schedule:</p> <p><u>FY2001</u>:</p> <p>1st Qtr:</p> <ul style="list-style-type: none"> o Field Release 2.2/Test Release 2.2 Organizational Messaging Enhancements o Deliver Release 3.0 <p>2nd Qtr:</p> <ul style="list-style-type: none"> o Complete TS/Collateral Infrastructure Implementation o Expand MGS <p>3rd Qtr:</p> <ul style="list-style-type: none"> o Deliver Release 3.0 Enhancements o Release 2.2 Complete Deployment <p>4th Qtr:</p> <ul style="list-style-type: none"> o Begin Release 3.0/MR1 o Continue Release 3.0 Developmental Testing o Patternless Intrusion Detection prototype and technical report <p><u>FY2002</u>:</p> <p>1st Qtr:</p> <ul style="list-style-type: none"> o Field Release 3.0/Complete Release 3.0 Operational Assessment/Test <p>2nd Qtr:</p> <ul style="list-style-type: none"> o Begin Development of Allied Gateway Solution o Continue Intel and Deployed Tactical Implementation <p>3rd Qtr:</p> <ul style="list-style-type: none"> o Expand MGS o Deliver Release 3.0/MR1 										

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FY2002 Continued4th Qtr:

- o Release 3.0 Organizational Messaging - Complete Deployment
- o Begin Development of next maintenance or "dot" release

FY2003:1st Qtr:

- o Field Release 3.0/MR1 and Complete Release 3.0/MR1 Operational Assessment/Test

2nd Qtr:

- o Field Allied Gateway Solution
- o Continue Intel and Deployed Tactical Implementation

3rd Qtr:

- o Expand MGS
- o Deliver next maintenance or "dot" release
- o Begin Development of next major release

4th Qtr:

- o Complete Deployment of Release 3.0/MR1
- o PKE effort: Engineering solutions for PK enabling network access contract and network devices using COTS products.
- o PKE effort: Deliver PK enabled Blackberry and other PDA devices to operational community.

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FY2004 - FY2007:

1st - 4th Qtr:

- o Complete Intel Implementation
- o Provide Allied Gateway Solution
- o Continuing commercial convergence of products, including Public Key Infrastructure (PKI), Defense Information Infrastructure (DII)/Directory, COTS Standards, Secure Multipurpose Internet Mail Extension (S/MIME), MGS, Lightweight Directory Access Protocol (LDAP)
- o Close DMS Transition Hubs
- o Deliver, test, and field DMS Releases

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Exhibit R-3 Cost Analysis								DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT NAME AND NUMBER				
RDT&E, Defense-Wide/05		Information Systems Security Program (ISSP) PE 0303140K				Information Systems Security Program/IA01				
Cost Category	Contract Method & Type	Performing Activity & Location	Total PYS Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost To Complete	Total Cost	Target Value of Contract
<u>Product Development</u>										
Systems Engineering and Integration	CPFF, FFP/Comp	Lockheed Martin Company, Manassas, VA	11.735	9.593	5/02	9.002	5/03	Contg	Contg	30.330
Systems Engineering	T&M Comp	ORC, Alexandria, VA	0	0	0	2.500	11/02	2.500	2.500	2.500
Systems Integration	CPFF/Comp	SAIC, Arlington, VA	0.550	0.504	2/02	0	N/A	0	1.054	1.054
	CPFF/Comp	CSC, Arlington, VA	2.000	0	N/A	0	N/A	0	2.000	2.000
	CPFF/Comp	UNISYS, Arlington, VA	1.000	0.300	2/02	3.000	2/03	0	4.300	4.300
	CPFF/Comp	Booz, Allen & Hamilton, McLean, VA	0	0.170	11/01	0	N/A	0	0.170	0.170
	T&M Comp	SRA, Fairlakes, VA	0	0	0	2.500	11/02	2.500	2.500	2.500
Patternless Intrusion Detection	MIPR	Army, Ft Shafter, HI	0.057	0	N/A	0	N/A	0	0.057	0.057
	MIPR	NSA, Ft Meade, MD	0.082	0	N/A	0	N/A	0	0.082	0.082
	MIPR	DISA PAC, HI	0.041	0	N/A	0	N/A	0	0.041	0.041
	MIPR	Naval Post Graduate School, Monterey, CA	0.170	0	N/A	0	N/A	0	0.170	0.170
Subtotal Product Development			15.635	10.567		17.002				

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Cost Category	Contract Method & Type	Performing Activity & Location	Total PYS Cost	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost To Complete	Total Cost	Target Value of Contract
<u>Test and Evaluation</u>										
Developmental/Operational Test and Evaluation	MIPR	Joint Interoperability Test Command, Ft Huachuca, AZ	1.839	0.891	10/01	0.618	10/02	Contg	Contg	3.348
	CPAF/SS	Data Systems Analysts Fairfax, VA	0	0.178	4/02	0	N/A	0	0.178	0.178
Security Test and Evaluation	MIPR	Joint Interoperability Test Command, Ft Huachuca, AZ	0.175	0	10/01	0	N/A	0	0.175	0.175
Subtotal Test and Evaluation			2.014	1.069		0.618				
TOTAL			17.649	11.636		17.620				