

ELECTRONIC COMMERCE SERVICES – DESCRIPTIONS and RATES

SIN 132-52 – Descriptions and Rates

SIN 132-52 General Dynamics Information Technology, Inc. Cloud Computing Services

Infrastructure as a Service (IaaS)

Software as a Service (SaaS)

Email as a Service (EaaS)

General Dynamics Information Technology (General Dynamics IT) provides a broad range of Cloud Computing Services to support Electronic Commerce and other computing requirements. Our Cloud Computing Services span Infrastructure as a Service (IaaS) and Software as a Service (SaaS) and include general purpose Virtual Machine (VM), Email, Office Automation, Electronic Records Management, and Email Migration services. General Dynamics IT provisions our systems for compliance with Federal security requirements. Our solutions are robust, highly scalable, and secure.

Infrastructure as a Service (IaaS) - Virtual Machine Services

The VM services can be acquired as a single VM or as many VM's working together in support of major application hosting server environments. Our VM services can be acquired in several Operating System platforms including Windows, Linux, or Solaris and in 64-bit or 32-bit configurations. The VM services can be acquired in a range of pre-established configuration bundles of memory and hard disk storage. Additional client-specific configurations can also be supported (please contact the listed General Dynamics IT staff for more information).

Our state of the art data centers and service are located and provided within the Continental United States. Through our E3 portal, users may order VMs, reports, or submit trouble tickets. We provision our systems for compliance with Federal security requirements. Our solution is robust, highly scalable, and secure.

Our Cloud Computing technical solution allows customers to mix traditional dedicated IT assets with cloud computing resources. This feature allows Federal IT solutions to take advantage of capacity on demand to permit cloud bursting.

Our Federally Compliant Application Platform (FCAP) is an IT infrastructure built from the ground up to be 100% compliant with a superset of federal mandates. Government agency applications deploying on the FCAP platform inherit the compliance-based disciplines and uniform delivery postures that enable us to guarantee 100% C&A up to the application layer.

We provide an Integrated Portal for timely user support and information. Our portal is unique to industry providing a single interface for all users. Within this single user interface, we provide secure access that

provides management screens, monitoring, environment configuration, self help and integration into the help desk and trouble ticket creation. This single interface allows all users to access the information important to them from one location without the need to cross reference multiple sources. In addition our portal also provides a virtual console for each running virtual machine for operating systems level administration and user access.

General Dynamic Information Technology, Inc.

Rates – SIN 132-52 – Infrastructure as a Service Offering – Cloud Computing Services

MFR PART NO	PRODUCT NAME	PRODUCT DESCRIPTION	GSA PRICE
GD32-1-W OS	laaS	Virtual Machine Bundle Windows OS-- Persistent Storage: 32 Bit -1 GB RAM, 40 GB HDD Bundle or equivalent	\$0.43
GD32-2-W	laaS	Virtual Machine Bundle Windows OS-- Persistent Storage: 32 Bit -2 GB RAM, 80 GB HDD Bundle or equivalent	\$0.70
GD32-4-W	laaS	Virtual Machine Bundle Windows OS -- Persistent Storage: 32 Bit -4 GB RAM, 160 GB HDD Bundle or equivalent	\$1.00
GD32-8-W	laaS	Virtual Machine Bundle Windows OS-- Persistent Storage: 32 Bit -8 GB RAM, 320 GB HDD Bundle or equivalent	\$1.24
GD32-15-W	laaS	Virtual Machine Bundle Windows OS-- Persistent Storage: 32 Bit -15.5 GB RAM, 620 GB HDD Bundle or equivalent	\$2.28
GD64-1-W	laaS	Virtual Machine Bundle Windows OS-- Persistent Storage: 64 Bit -1 GB RAM, 40 GB HDD Bundle or equivalent	\$0.43
GD64-2-W	laaS	Virtual Machine Bundle Windows OS-- Persistent Storage: 64 Bit -2 GB RAM, 80 GB HDD Bundle or equivalent	\$0.70
GD64-4-W	laaS	Virtual Machine Bundle Windows OS-- Persistent Storage: 64 Bit -4 GB RAM, 160 GB HDD Bundle or equivalent	\$1.00
GD64-8-W	laaS	Virtual Machine Bundle Windows OS-- Persistent Storage: 64 Bit -8 GB RAM, 320 GB HDD Bundle or equivalent	\$1.24
GD64-15-W	laaS	Virtual Machine Bundle Windows OS-- Persistent Storage: 64 Bit -15.5 GB RAM, 620 GB HDD Bundle or equivalent	\$2.28
GD32-1-L OS	laaS	Virtual Machine Bundle Linux OS--Persistent Storage: 32 Bit -1 GB RAM, 40 GB HDD Bundle or equivalent	\$0.27
GD32-2-O	laaS	Virtual Machine Bundle Linux OS--Persistent Storage: 32 Bit -2 GB RAM, 80 GB HDD Bundle or equivalent	\$0.44
GD32-4-O	laaS	Virtual Machine Bundle Linux OS--Persistent Storage: 32 Bit -4 GB RAM, 160 GB HDD Bundle or equivalent	\$0.61
GD32-8-O	laaS	Virtual Machine Bundle Linux OS--Persistent Storage: 32 Bit -8 GB RAM, 320 GB HDD Bundle or equivalent	\$0.78
GD32-15-O	laaS	Virtual Machine Bundle, Linux OS--Persistent Storage: 32 Bit -15.5 GB RAM, 620 GB HDD Bundle or equivalent	\$1.45
GD64-1-O	laaS	Virtual Machine Bundle Linux OS--Persistent Storage: 64 Bit -1 GB RAM, 40 GB HDD Bundle or equivalent	\$0.27
GD64-2-O	laaS	Virtual Machine Bundle Linux OS--Persistent Storage: 64 Bit -2 GB RAM, 80 GB HDD Bundle or equivalent	\$0.44
GD64-4-O	laaS	Virtual Machine Bundle Linux OS--Persistent Storage: 64 Bit -4 GB RAM, 160 GB HDD Bundle or equivalent	\$0.61
GD64-8-O	laaS	Virtual Machine Bundle Linux OS--Persistent Storage: 64 Bit -8 GB RAM, 320 GB HDD Bundle or equivalent	\$0.78

	laaS	Bundle or equivalent	
GD64-15-O	laaS	Virtual Machine Bundle Linux OS--Persistent Storage: 64 Bit -15.5 GB RAM, 620 GB HDD Bundle or equivalent	\$1.45
GD32-1-S OS	laaS	Virtual Machine Bundle Solaris OS -- Persistent Storage: 32 Bit -1 GB RAM, 40 GB HDD Bundle or equivalent	\$0.22
GD32-2-S	laaS	Virtual Machine Bundle Solaris OS -- Persistent Storage: 32 Bit -2 GB RAM, 80 GB HDD Bundle or equivalent	\$0.39
GD32-4-S	laaS	Virtual Machine Bundle Solaris OS -- Persistent Storage: 32 Bit -4 GB RAM, 160 GB HDD Bundle or equivalent	\$0.56
GD32-8-S	laaS	Virtual Machine Bundle Solaris OS -- Persistent Storage: 32 Bit -8 GB RAM, 320 GB HDD Bundle or equivalent	\$0.73
GD32-15-S	laaS	Virtual Machine Bundle Solaris OS -- Persistent Storage: 32 Bit -15.5 GB RAM, 620 GB HDD Bundle or equivalent	\$1.41
GD64-1-S	laaS	Virtual Machine Bundle Solaris OS -- Persistent Storage: 64 Bit -1 GB RAM, 40 GB HDD Bundle or equivalent	\$0.22
GD64-2-S	laaS	Virtual Machine Bundle Solaris OS -- Persistent Storage: 64 Bit -2 GB RAM, 80 GB HDD Bundle or equivalent	\$0.39
GD64-4-S	laaS	Virtual Machine Bundle Solaris OS -- Persistent Storage: 64 Bit -4 GB RAM, 160 GB HDD Bundle or equivalent	\$0.56
GD64-8-S	laaS	Virtual Machine Bundle Solaris OS -- Persistent Storage: 64 Bit -8 GB RAM, 320 GB HDD Bundle or equivalent	\$0.73
GD64-15-S	laaS	Virtual Machine Bundle Solaris OS -- Persistent Storage: 64 Bit -15.5 GB RAM, 620 GB HDD Bundle or equivalent	\$1.41
GD-EM-1	Email-as-a-Service in Government Community Cloud	Mailbox Tier 1 (<10K Mbox)	\$5.60
GD-EM-2	Email-as-a-Service in Government Community Cloud	Mailbox Tier 2 (10K-50K Mbox)	\$5.43
GD-EM-3	Email-as-a-Service in Government Community Cloud	Mailbox Tier 3 (>50K Mbox)	\$4.94
GD-EM-4	Email-as-a-Service in Government Community Cloud	Additional GB Mailbox Tier 1 (<10K Mbox)	\$0.35
GD-EM-5	Email-as-a-Service in Government Community Cloud	Additional GB Mailbox Tier 2 (10K-50K Mbox)	\$0.16
GD-EM-6	Email-as-a-Service in Government Community Cloud	Additional GB Mailbox Tier 3 (>50K Mbox)	\$0.14
GD-EM-7	Email-as-a-Service in Government Community Cloud	Archiving per Mailbox/Year Tier 1 (<10K Mbox)	\$13.66
GD-EM-7A	Email-as-a-Service in Government Community Cloud	Additional GB of Archiving Storage Tier 1 (<10K Mbox)	\$0.35
GD-EM-8	Email-as-a-Service in Government Community Cloud	Archiving per Mailbox/Year Tier 2 (10K-50K Mbox)	\$5.97

GD-EM-8A	Email-as-a-Service in Government Community Cloud	Additional GB of Archiving Storage Tier 2 (10K-50K Mbox)	\$0.16
GD-EM-9	Email-as-a-Service in Government Community Cloud	Archiving per Mailbox/Year Tier 3 (>50K Mbox)	\$4.91
GD-EM-9A	Email-as-a-Service in Government Community Cloud	Additional GB of Archiving Storage Tier 3 (>50K Mbox)	\$0.14
GD-EM-10	Email-as-a-Service in Government Community Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 1 (,10K Mbox)	\$4.93
GD-EM-11	Email-as-a-Service in Government Community Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 2 (10K-50K Mbox)	\$4.93
GD-EM-12	Email-as-a-Service in Government Community Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 3 (>50K Mbox)	\$4.93
GD-EM-13	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Mailbox Tier 1 (<10K Mbox)	\$22.57
GD-EM-14	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Mailbox Tier 2 (10K-50K Mbox)	\$12.43
GD-EM-15	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Mailbox Tier 3 (>50K Mbox)	\$6.96
GD-EM-16	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Additional GB Mailbox Tier 1 (<10K Mbox)	\$0.35
GD-EM-17	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Additional GB Mailbox Tier 2 (10K-50K Mbox)	\$0.16
GD-EM-18	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Additional GB Mailbox Tier 3 (>50K Mbox)	\$0.14
GD-EM-19	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Archiving per Mailbox/Year Tier 1 (<10K Mbox)	\$13.66
GD-EM-19A	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Additional GB of Archiving Storage Tier 1 (<10K Mbox)	\$0.35
GD-EM-20	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Archiving per Mailbox/Year Tier 2 (10K-50K Mbox)	\$5.97
GD-EM-20A	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Additional GB of Archiving Storage Tier 2 (10K-50K Mbox)	\$0.16
GD-EM-21	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Archiving per Mailbox/Year Tier 3 (>50K Mbox)	\$4.91

GD-EM-21A	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Additional GB of Archiving Storage Tier 3 (>50K Mbox)	\$0.14
GD-EM-22	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 1 (<10K Mbox)	\$4.93
GD-EM-23	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 2 (10K-50K Mbox)	\$4.93
GD-EM-24	Email-as-a-Service using Provider Furnished Equipment in a Private Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 3 (>50K Mbox)	\$4.93
GD-EM-25	Email-as-a-Service in a Secret Enclave Private Cloud	Mailbox Tier 1 (<10K Mbox)	\$34.97
GD-EM-26	Email-as-a-Service in a Secret Enclave Private Cloud	Mailbox Tier 2 (10K-50K Mbox)	\$15.49
GD-EM-27	Email-as-a-Service in a Secret Enclave Private Cloud	Mailbox Tier 3 (>50K Mbox)	\$8.53
GD-EM-28	Email-as-a-Service in a Secret Enclave Private Cloud	Additional GB Mailbox Tier 1 (<10K Mbox)	\$0.35
GD-EM-29	Email-as-a-Service in a Secret Enclave Private Cloud	Additional GB Mailbox Tier 2 (10K-50K Mbox)	\$0.16
GD-EM-30	Email-as-a-Service in a Secret Enclave Private Cloud	Additional GB Mailbox Tier 3 (>50K Mbox)	\$0.14
GD-EM-31	Email-as-a-Service in a Secret Enclave Private Cloud	Archiving per Mailbox/Year Tier 1 (<10K Mbox)	\$13.66
GD-EM-31A	Email-as-a-Service in a Secret Enclave Private Cloud	Additional GB of Archiving Storage Tier 1 (<10K Mbox)	\$0.35
GD-EM-32	Email-as-a-Service in a Secret Enclave Private Cloud	Archiving per Mailbox/Year Tier 2 (10K-50K Mbox)	\$5.97
GD-EM-32A	Email-as-a-Service in a Secret Enclave Private Cloud	Additional GB of Archiving Storage Tier 2 (10K-50K Mbox)	\$0.16
GD-EM-33	Email-as-a-Service in a Secret Enclave Private Cloud	Archiving per Mailbox/Year Tier 3 (>50K Mbox)	\$4.91
GD-EM-33A	Email-as-a-Service in a Secret Enclave Private Cloud	Additional GB of Archiving Storage Tier 3 (>50K Mbox)	\$0.14
GD-EM-34	Email-as-a-Service in a Secret Enclave Private Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 1 (<10K Mbox)	\$4.93
GD-EM-35	Email-as-a-Service in a Secret Enclave Private Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 2 (10K-50K Mbox)	\$4.93
GD-EM-36	Email-as-a-Service in a Secret Enclave Private Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 3 (>50K Mbox)	\$4.93
GD-EM-37	Email-as-a-Service in a Public Cloud	Mailbox Tier 1 (<10K Mbox)	\$5.60
GD-EM-38	Email-as-a-Service in a Public Cloud	Mailbox Tier 2 (10K-50K Mbox)	\$5.43
GD-EM-39	Email-as-a-Service in a Public Cloud	Mailbox Tier 3 (>50K Mbox)	\$4.94
GD-EM-40	Email-as-a-Service in a Public Cloud	Additional GB Mailbox Tier 1 (<10K Mbox)	\$0.35

GD-EM-41	Email-as-a-Service in a Public Cloud	Additional GB Mailbox Tier 2 (10K-50K Mbox)	\$0.16
GD-EM-42	Email-as-a-Service in a Public Cloud	Additional GB Mailbox Tier 3 (>50K Mbox)	\$0.14
GD-EM-43	Email-as-a-Service in a Public Cloud	Archiving per Mailbox/Year Tier 1 (<10K Mbox)	\$13.66
GD-EM-43A	Email-as-a-Service in a Public Cloud	Additional GB of Archiving Storage Tier 1 (<10K Mbox)	\$0.35
GD-EM-44	Email-as-a-Service in a Public Cloud	Archiving per Mailbox/Year Tier 2 (10K-50K Mbox)	\$5.97
GD-EM-44A	Email-as-a-Service in a Public Cloud	Additional GB of Archiving Storage Tier 2 (10K-50K Mbox)	\$0.16
GD-EM-45	Email-as-a-Service in a Public Cloud	Archiving per Mailbox/Year Tier 3 (>50K Mbox)	\$4.91
GD-EM-45A	Email-as-a-Service in a Public Cloud	Additional GB of Archiving Storage Tier 3 (>50K Mbox)	\$0.14
GD-EM-46	Email-as-a-Service in a Public Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 1 (<10K Mbox)	\$4.93
GD-EM-47	Email-as-a-Service in a Public Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 2 (10K-50K Mbox)	\$4.93
GD-EM-48	Email-as-a-Service in a Public Cloud	Blackberry Enterprise Server per Mailbox/Year Tier 3 (>50K Mbox)	\$4.93
GD-EM-49	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Office Automation SaaS Tier 1 (<10K Users)	\$6.14
GD-EM-49A	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Additional GB of Office Automation Storage Tier 1 (<10K Users)	\$0.35
GD-EM-50	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Office Automation SaaS Tier 2 (10K-50K Users)	\$3.52
GD-EM-50A	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Additional GB of Office Automation Storage Tier 2 (10K-50K Users)	\$0.16
GD-EM-51	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Office Automation SaaS Tier 3 (>50K Users)	\$3.52
GD-EM-51A	Office Automation in a	Additional GB of Office Automation Storage Tier	\$0.14

	Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	3 (>50K Users)	
GD-EM-52	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Records Management Tier 1 (<10K users)	\$13.13
GD-EM-52A	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Additional GB of Records Management Storage Tier 1 (<10K users)	\$0.35
GD-EM-53	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Records Management Tier 2 (10K-50K users)	\$13.13
GD-EM-53A	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Additional GB of Records Management Storage Tier 2 (10K-50K users)	\$0.16
GD-EM-54	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Records Management Tier 3 (>50K users)	\$13.13
GD-EM-54A	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Additional GB of Records Management Storage Tier 3 (>50K users)	\$0.14
GD-EM-55	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment	On-Premise Executive Migration Service Tier 1 (<10K users)	\$1,033.11

	in a Private Cloud		
GD-EM-56	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	On-Premise Executive Migration Service Tier 2 (10K-50K users)	\$1,033.11
GD-EM-57	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	On-Premise Executive Migration Service Tier 3 (>50K users)	\$1,033.11
GD-EM-58	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Remote/Standard Service Migration Service Tier 1 (<10K users)	\$14,435.00
GD-EM-59	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Remote/Standard Migration Service Tier 2 (10K-50K users)	\$87.79
GD-EM-60	Office Automation in a Government Community Cloud, Public Cloud, Secret Enclave Private Cloud or using Provider Furnished Equipment in a Private Cloud	Remote/Standard Migration Service Tier 3 (>50K users)	\$73.66

Special Item 132-52 – PS4 Service

MFR PART NO	PRODUCT NAME	PRODUCT DESCRIPTION	GSA Price
PS4-BU	PS4	PS4 Base Unit - One-time Charge	\$15,798.00
PS4-1A-RP	PS4	Service 1a: PS4 Multi-Protocol Reverse Proxy - One-time Charge	\$12,856.00
PS4-1B-FP	PS4	Service 1b: PS4 forward Proxy- One-time Charge	\$11,727.00
PS4-2-NAS	PS4	Service 2: PS4 Multi-Protocol Network Attached Storage (NAS)- One-time Charge	\$8,186.00
PS4-3-TCP	PS4	Service 3: PS4 TCP Optimization - One-time Charge	\$12,551.00
PS4-4-ODAD	PS4	Service 4: PS4 On-Demand Ad-Hoc Networks - One-time Charge	\$12,112.00
PS4-5-HAF	PS4	Service 5: PS4 High-Availability Firewall- One-time Charge	\$8,374.00
PS4-6-GLB	PS4	Service 6: PS4 Global Load Balancing- One-time Charge	\$8,214.00
PS4-7-OE	PS4	Service 7: PS4 Operating Environment- One-time Charge	\$8,863.00
PS4-BU-RC	PS4	PS4 Base Unit- Recurring Charge	\$8,952.00
PS4-1A-RP-RC	PS4	Service 1a: PS4 Multi-Protocol Reverse Proxy- Recurring Charge	\$7,142.00
PS4-1B-FP-RC	PS4	Service 1b: PS4 forward Proxy- Recurring Charge	\$6,997.00
PS4-2-NAS-RC	PS4	Service 2: PS4 Multi-Protocol Network Attached Storage (NAS)- Recurring Charge	\$4,219.00
PS4-3-TCP-RC	PS4	Service 3: PS4 TCP Optimization- Recurring Charge	\$4,378.00
PS4-4-ODAD-RC	PS4	Service 4: PS4 On-Demand Ad-Hoc Networks- Recurring Charge	\$5,178.00
PS4-5-HAF-RC	PS4	Service 5: PS4 High-Availability Firewall- Recurring Charge	\$1,706.00
PS4-6-GLB-RC	PS4	Service 6: PS4 Global Load Balancing- Recurring Charge	\$3,765.00
PS4-7-OE-RC	PS4	Service 7: PS4 Operating Environment- Recurring Charge	\$1,188.00

Notes:

- Discounts will be applied on requests above 24 nodes
- Each service requires a base unit
- Service contract is for a three-year period

Base Unit

The Base Unit of PS4 provides (among other things) the basic security tools required by network and enclave STIGs. The PS4 base further provides the basis of access control and secure remote management for all other PS4 services components. The firewall integration and the fact that all subcomponents are currently approved for use in DoD makes PS4 a fully accreditable system under DoD 8500 series DITSCAP and DIACAP processes.

Service 1A—PS4 Multi-Protocol Reverse Proxy

The PS4 Multi-Protocol Reverse Proxy service brings information closer to your users by proxying it with multiprotocol caching. The PS4 Multi-Protocol Reverse Proxy service enables better response times and uses less bandwidth than traditional proxy services, allowing you to use your valuable bandwidth for needs other than Web.

The PS4 Multi-Protocol Reverse Proxy service allows WAN separation at LAN speeds by moving traditional applications out of the LAN and into the WAN closer to your users, including:

- CIFS, HTTP, NFS, FTP
- Video files
- Presentations
- Large PDFs
- Local file storage
- Remote file backup

PS4 can be used to provide a reverse proxy solution for HTTP, LDAP, FTP, and other protocol SSL variations, hence the “multi-protocol” in the service name. This is meant to be used with an application that has a multi-protocol interface to its content such as GDS CRL staging. It is highly available and can be coupled with other PS4 services, although some caching and optimization are inherently provided with this service. This service is provided in the unit of 40Mbps of proxy.

Service 1B—PS4 Forward Proxy

The PS4 Forward Proxy Service locally caches Internet content from arbitrary Internet or NIPRNet Web sites. The service is designed to optimally support users that are in the vicinity of the PS4 node.

The PS4 Forward Proxy Service greatly reduces response times for commonly accessed Web sites and can also provide significant bandwidth reduction for wide area links that are otherwise congested and in need of costly upgrade. It is sold in units of 40Mbps of usage. While the service does not limit what Web sites can be cached, its most efficient use is with commonly used informational Web sites.

Service 2 – PS4 Multi-Protocol Network Attached Storage (NAS)

The PS4 Multi-Protocol NAS service is a standard centrally managed storage solution that solves distance problems by moving certain file structures closer to the user. It enables you to consolidate servers or data centers and to retire point edge storage solutions without disrupting support to your user base. It allows you to place highly available, local storage at the edge of the network, close to your users without having to place your server or data center resources there as well. Because it replicates data, the PS4 Multi-Protocol NAS service provides a local data backup solution for remote users and a means of disaster recovery for all users.

It is sold by the unit of one TB. It is accessible by FTP, NFS, and CIFS. The service also provides, at no extra charge, a five license SSL VPN capability that allows the NAS to be integrated seamlessly into a customer Active Directory environment at arbitrary locations.

The PS4 Multi-Protocol NAS service includes the following functionality:

- File pre-positioning for deployed users.
- Scalable to meet storage needs (1 TB to 50 TB with NAS head and tiers).
- Data replication to the primary backend data center storage.
- Data encryption support, using FIPS 140-2 VPN.
- Aggregation of enclave NAS and SAN systems on the NAS head.
- Use of DFS, NFS, and CIFS protocols.
- Support of native Windows Active Directory participation.

Service 3 – PS4 TCP Optimization

The PS4 TCP Optimization service dramatically increases performance for remote users who are experiencing poor network performance in terms of repeated transmissions, inaccessible data during file transfers, and slowness of patch distribution, server connections, search query results, and file downloads.

The PS4 TCP Optimization service sets the stage for migration to server-less branch/node by demonstrating robustness of optimized applications residing in data centers; improves response times of time sensitive applications over the WAN, and negates the need for bandwidth upgrades. It is meant to be used in a point-to-point fashion and it can optimize any TCP applications flows. It is sold on a per flow basis, which translates to connectivity between any two hosts appearing as if they are local.

The PS4 TCP Optimization service includes the following functionality:

Accelerated traffic flow via:

- Compression
- Byte caching

- Object caching
- Bandwidth management

Service 4 – PS4 On-Demand Ad-Hoc Networks

The PS4 On-Demand Ad-Hoc Networks service enables you to perform quick stand up of secure geographically independent community of interest (COI) networks for cross service, agency, department, and coalition collaboration. Using the PS4 On-Demand Ad-Hoc Networks services, you can add users to your network dynamically and provide them with secure access to internal applications and NAS without the need to distribute software to them. The distributed nature of this service also provides built-in redundancy and is provided in one 50 SSL VPN block per community.

The PS4 On-Demand Ad-Hoc Networks service includes the following functionality:

- Secure access to the network, using CAC and Active Directory.
- PC, handheld, and the COI network support.
- Extension of port, protocol, and service boundaries out to the node, which can be enforced from anywhere.
- Data encryption across the network with FIPS 140-2 SSL VPN.
- Geographically-independent collaboration via DMVPN backbone.
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Service 5 – PS4 High-Availability Firewall

The PS4 High-Availability Firewall service is a virtual firewall service that takes advantage of the location at the network boundary, allowing customer network administrators to build specific rule sets that are executed on PS4 firewalls.

Each instance of the service is isolated from other customers. The unique PS4 virtual networking features allow any unclassified CAL boundary to be policed. The firewall service is implemented as a stateful inspection

platform with common criteria EAL 2 certification. It is provided in units of 10Mbps and 500 rule objects. It is most effectively used in pairs to provide a high availability solution.

Service 6 – PS4 Global Load Balancing

The PS4 Global Load Balancing service can be used as a distributed server and high availability solution and offers many distribution algorithms to choose from. PS4 Load Balancing is a free service if used in conjunction with other PS4 services but is priced separately when purchased as a standalone service. This service is provided by the unit of virtual server.

Service 7 – PS4 Operating Environment

The PS4 Virtual Hosting service mission is to provide a hosting environment infrastructure that can be readily implemented and accessed. It is an excellent location to host Enclave A through Enclave C applications or Production environments without having to purchase the hardware to support it. As with other PS4 services, it can provide high availability through multiple locations and multiple access points. Coupled with the other PS4 services, hosting services can provide a location to run disaster recovery application testing. Granular access can be authenticated based on customer based access methodologies to the virtualized applications. Using other services, the virtual hosting environment can provide a location to rapidly stand up image archives if needed because of application corruption or to run in a location closer to the users. It is sold on an operating unit basis, which translates to a single CPU 1 Ghz, 1GB RAM, 50GB disk (RAID) and has cold backup capability.

SIN 132-62 HSPD-12 AUTHENTICATION PRODUCTS, SERVICES AND PRICING

HSPD-12 Managed Services include:

- PIV Enrollment and Registration
- PIV System Infrastructure
- PIV Card Management and Production
- PIV Card Activation and Finalization
- PIV Systems Integration

Pricing is based on a mandatory 5-year agreement for the specified card quantity (minimum of 20,000 cards). The following is included in the Standard HSPD-12 Managed Services price:

- GDIT will provide all hardware and software, including maintenance and upgrades, throughout the life of the agreement. GDIT owns all the hardware and software, which must be returned to GDIT at the completion of the agreed-to Managed Services term.
- Card Personalization is based on a centralized personalization model to be performed at a GDIT-specified Card Production Facility (CFP). Personalized cards will be sent via an approved secure means to the designated Card Activation and Finalization station for activation and issuance to the Applicant.
- In accordance with the client's processes, each Applicant who successfully completes the background investigation (i.e., NAC-I) will receive a PIV-II compliant card.
- All contractor program management and administrative costs.
- Startup services to include:
 - Configuration of the HSPD-12 infrastructure and databases for the client agency's business processes.
 - Definition of one (1) card profile (graphical and electrical) to govern the format of the cards to be produced.
 - Establishment of an agency-specific portal to provide support for the PIV roles (e.g., Sponsor, Enrollment Official, Adjudicator, Issuer, etc.), including on-line training for these roles.
 - Documentation of requirements that will be supported by HSPD-12.
 - Security Certification and Accreditation (C&A) documentation.
 - Price per card offering assumes the ordered quantity of cards (20,000 minimum) will be issued in the first continuous twelve month period. Volume discounts are available, calculated from the 20,000 minimum order price.
 - Price per card assumes a single agency or department is to be supported.
- HSPD-12 Systems Infrastructure housed in a GDIT-provided secure facility.
- Combined PIV Enrollment and Registration/Card Activation and Finalization workstations to be located at the client's site. GDIT will provide facility requirements to the Government. One (1) workstation will be provided for every 4,000-card commitment. Installation of the workstation is not included in the card pricing but can be purchased separately.
- Up to three (3) PKI certificates per card.
- OCSP services are included in the card pricing.
- Training via on-line portal for various roles.
- No interfaces to other agency systems are provided.
- Services to support all HSPD-12 life cycle activities, including:
 - Issuance
 - Renewal
 - Replacement of lost, stolen, or damaged card
 - Change of demographic information, such as name
 - Temporary inactivation
 - Termination and permanent inactivation
- Tier 2 and 3 Help Desk support (8am – 5pm, excluding weekends and holidays). Client will provide Tier 1 support.

A Service Level Agreement (SLA), based on the Customer Requirements, will be established with each order to define the services to be delivered and the performance metrics.

Travel: All pricing is exclusive of travel. Allowable travel and per diem charges are governed by Public Law 99-234 and FAR Part 31, and are reimbursable by the ordering agency or can be priced as a fixed price item on orders.

Delivery Schedule: To be negotiated for each task order.

GDIT HSPD-12 Managed Service Pricing – with Volume Discounts

Part No.	Managed Services	Description	No. of Cards	1st Year Enrollment and Services - Price per Card	Discount From Minimum Quantity Price
ANT-HSPD12-MS-20	Managed Services for HSPD-12 credentials	Managed Services for Personal Identity Verification (PIV) Systems Integration, PIV Enrollment and Registration, PIV Systems Infrastructure, PIV Card Management and Production, and PIV Card Activation and Finalization. (see detailed description for HSPD-12 Managed Services)	20,000 - 99,999	\$255.66	0%
ANT-HSPD12-MS-100	Managed Services for HSPD-12 credentials	Managed Services for Personal Identity Verification (PIV) Systems Integration, PIV Enrollment and Registration, PIV Systems Infrastructure, PIV Card Management and Production, and PIV Card Activation and Finalization. (see detailed description for HSPD-12 Managed Services)	100,000 - 249,999	\$88.51	65.3798%
ANT-HSPD12-MS-250	Managed Services for HSPD-12 credentials	Managed Services for Personal Identity Verification (PIV) Systems Integration, PIV Enrollment and Registration, PIV Systems Infrastructure, PIV Card Management and Production, and PIV Card Activation and Finalization. (see detailed description for HSPD-12 Managed Services)	250,000 - 499,999	\$61.47	75.9563%
ANT-HSPD12-MS-500	Managed Services for HSPD-12 credentials	Managed Services for Personal Identity Verification (PIV) Systems Integration, PIV Enrollment and Registration, PIV Systems Infrastructure, PIV Card Management and Production, and PIV Card Activation and Finalization. (see detailed description for HSPD-12 Managed Services)	500,000 - 999,999	\$50.15	80.38%
ANT-HSPD12-MS-1000	Managed Services for HSPD-12 credentials	Managed Services for Personal Identity Verification (PIV) Systems Integration, PIV Enrollment and Registration, PIV Systems Infrastructure, PIV Card Management and Production, and PIV Card Activation and Finalization. (see detailed description for HSPD-12 Managed Services)	1,000,000 +	\$46.18	81.93695%

ANT-HSPD12-MS-20-AM	Managed Services for HSPD-12 credentials	Annual Maintenance for Years 2 through 5; Price per Card	20,000 - 99,999		\$87.52	0%
ANT-HSPD12-MS-100-AM	Managed Services for HSPD-12 credentials	Annual Maintenance for Years 2 through 5; Price per Card	100,000 - 249,999		\$33.62	0%
ANT-HSPD12-MS-250-AM	Managed Services for HSPD-12 credentials	Annual Maintenance for Years 2 through 5; Price per Card	250,000 - 499,999		\$24.39	0%
ANT-HSPD12-MS-500-AM	Managed Services for HSPD-12 credentials	Annual Maintenance for Years 2 through 5; Price per Card	500,000 - 999,999		\$20.15	0%
ANT-HSPD12-MS-1000-AM	Managed Services for HSPD-12 credentials	Annual Maintenance for Years 2 through 5; Price per Card	1,000,000 +		\$19.47	0%