



On-Site Managed Services (OMS)

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OMS Program Management Office

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Vendors named within are approved or under contract to provide specified services to DISA or DOD.



Background

OMS is a DoD CIO Task Order (TO) awarded on 30 Sep 2016 to a Smartronix, Small Business, under the NIH Chief Information Officer Solutions and Partners 3 (CIO-SP3)

- Government-Wide Acquisition Contract (GWAC)
- Contracting Officer Representative (COR) is located at DLA
- One (1) year base and four (4) option years.
- Dell EMC, Pivotal, VirtuStream, Stigian, and VMware are partners with Smartronix.
- 30 Sept 2017 OY 1 exercised and contract task Program Management is fully funded.
- 1 Oct 2017 DISA assumed the responsibilities to implement and sustain OMS

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Contract Optional CLINs

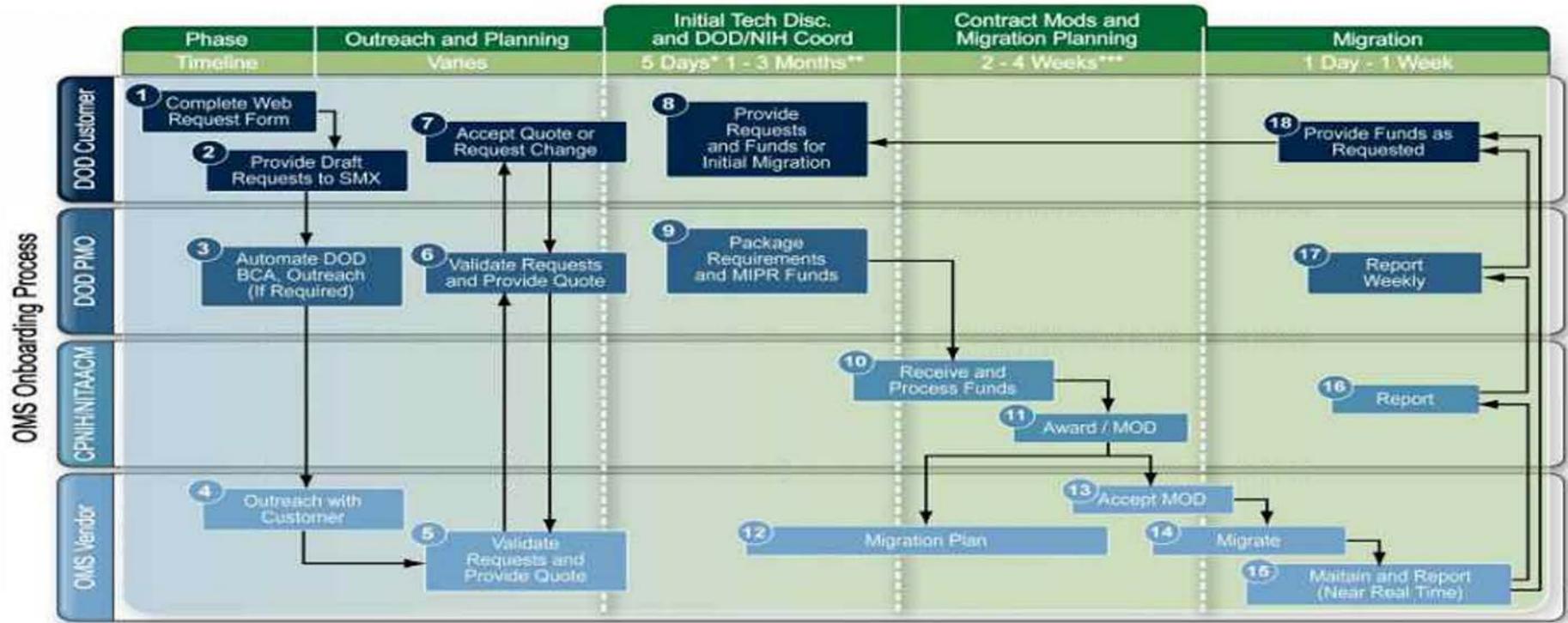
	IaaS	PaaS	Engineering Services
OPTIONS	NIPR 1 st Site NIPR 2 nd Site	NIPR	SMEs
	SIPR 1 st Site SIPR 2 nd Site	SIPR	Engineering Planning: <i>Discovery, Design, Migration, and Support</i>
	Federal Data Center NIPR & SIPR		Catalog Services

OMS is a commercially owned and operated information technology services

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Contract Specified Business Process



Removing barriers to improve onboarding process

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NIPRnet IaaS Schedule & Way Ahead

- ✓ Production ATO Assessment
- ✓ Production ATO Approval
- ✓ NIPRnet IaaS 1st Site ready for production
- Integrate Vendor's Onboarding/Business Process Q2 FY18
- Establish a CSSP agreement (Management Zone) Q2 FY18
- Migrate 1st App (DISA IRIS) Q2 FY18
- General service availability for mission partner apps Q2 FY18
- Approval of 2nd site NIPRnet IaaS 6 months after decision
- Approval of NIPR PaaS 3 to 5 months after decision

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Smartronix

DELLEMC, VmWare, Virtustream, Pivotal, and Stigian

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DOD Challenges

In 2016, DoD CIO Terry Halvorsen sought a commercial partnership to deliver secure cloud services from within a Federal data center that could achieve 25-30% specific measured savings over legacy IT, in order to fund war fighting systems. DoD requires a secure, on prem cloud solution to rapidly consolidate legacy systems into a shared services environment that delivers mission and business value to DoD and Mission Partners (Allies: NATO and Five Eyes, Systems Integrators.)

- Must reduce IT costs by 25-30%
- Must maximize value of VMWare investment
- Demand secure cloud solution from within DOD networks and security (SDN)
- Require place to create new applications that can run in any cloud architecture (PaaS)
- Seeking a Partnership with Commercial Industry and opportunity to accelerate Innovation and Cloud adoption

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Agenda

- **What is On-Site Managed Services (OMS)**
- **What Makes OMS Different From Other Cloud Offerings**
- **Portal Overview**

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Awarded Team

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OMS Addressing DoD Cloud Migration Challenges

Technology and Services To Support the Warfighter and Its Mission



On DoD-premise cloud solution
built for mission-critical
workloads



MicroVM (μ VM) resource
allocation model enables granular
measurement of Application
Resource Consumption



MicroVM (μ VM) technology
eliminates overprovisioning,
enables true consumption based
billing
Service Catalogue v2



Migrate and run the applications of
today and build the applications of
tomorrow



Architected to the highest
security and compliance
standards accredited to IL/5
and option for IL/6

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Ease of Acquisition - OMS

Contract Availability

- **Contract #:** HHSN316201200047W
- **Order #:** HHSN31600001

Becoming an OMS Customer

- www.oms.mil
- **Services offering descriptions, rate cards and ordering information**
- **OMS support staff is available to assist**

Defined On-Boarding Process

- **Defined on-boarding service with FFP CLINS**
- **BCA tool available to optimize procurement**

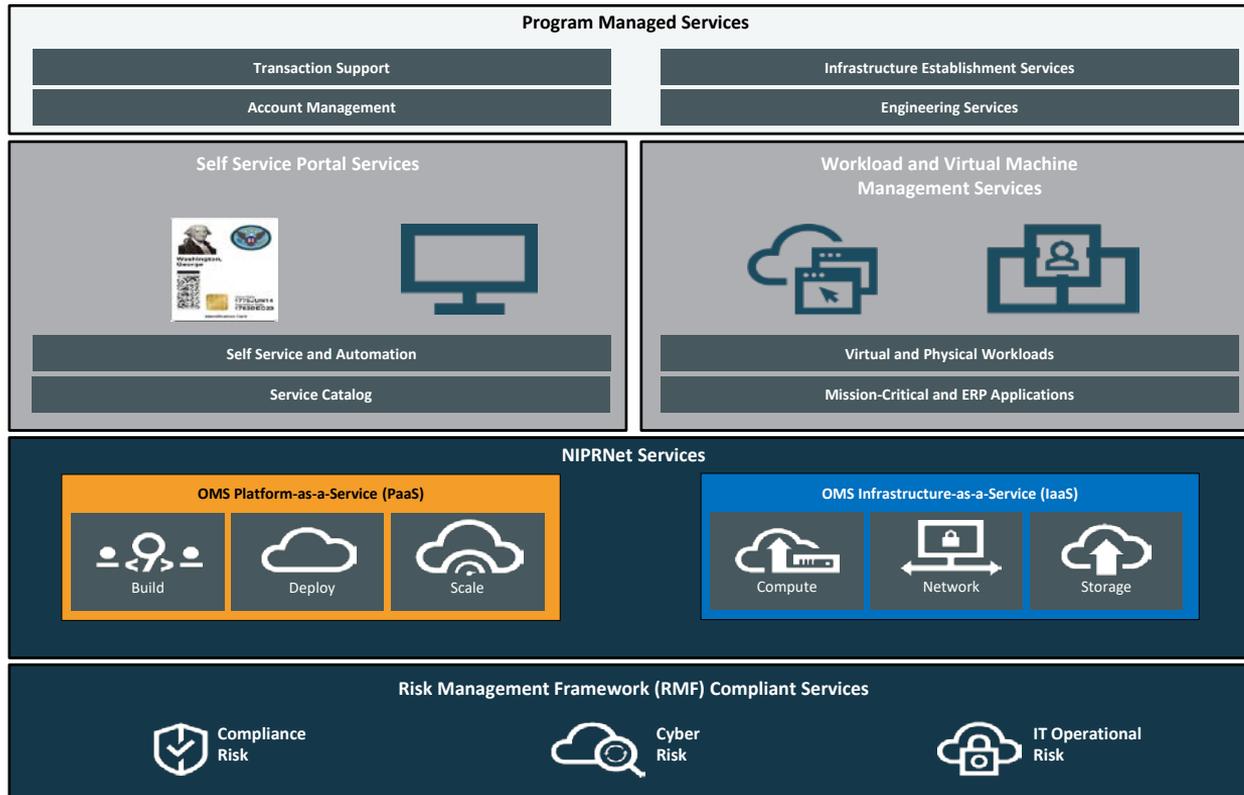
Defined Off-Boarding Process

- **Defined off-boarding service, eliminates vendor lock-in**
- **CLIN 6 close out ensures agencies can leave OMS when required**

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OMS Program View



NIPR IaaS

- Robust computing capabilities
- Flexible tiered storage options
- Scalable services

NIPR PaaS

- Application foundry services
- Complete development and operation lifecycle
- Next generation services as code

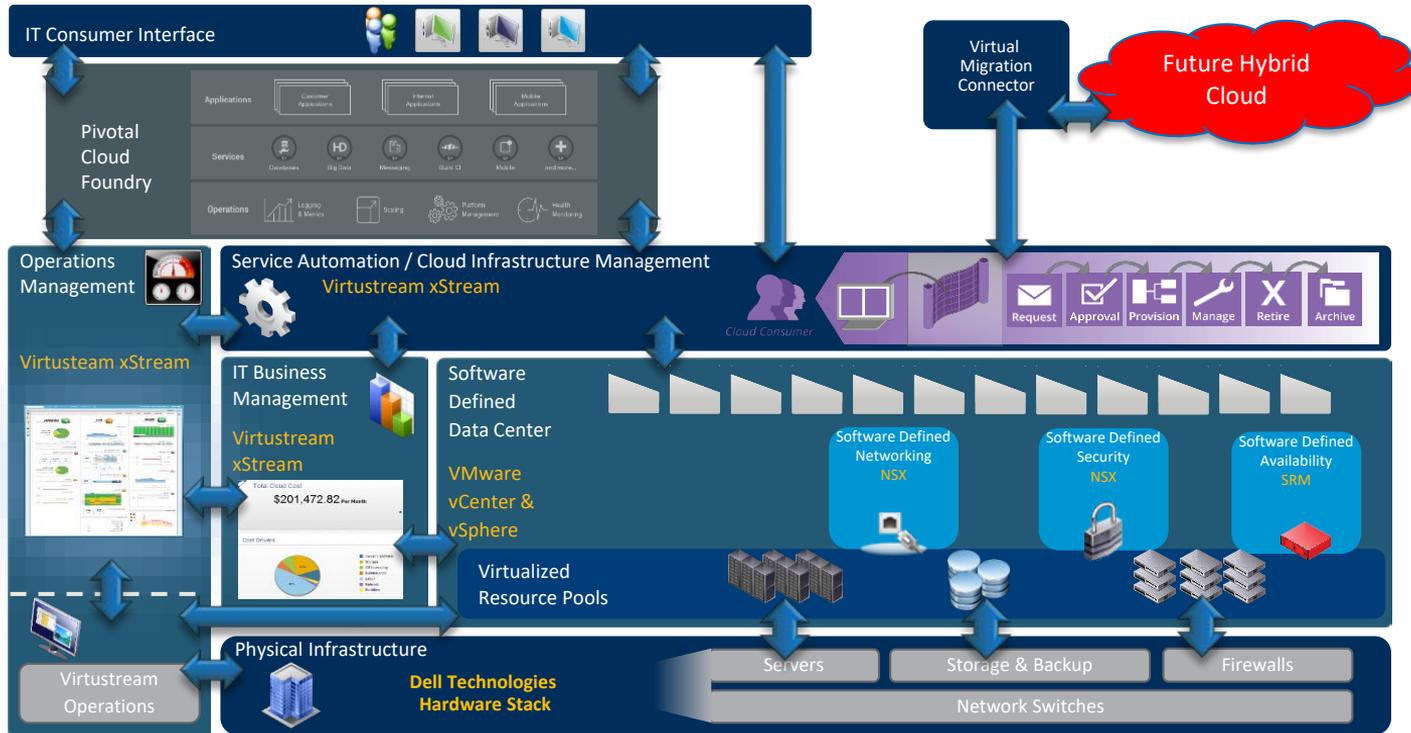
Secure Compliance Services

- Risk management framework (RMF) enabled
- Designed to support IL5 workloads and data

SIPR IL6 Capability (Future Option)

- Notional timeline established
- Awaiting CLIN execution

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Hardened Security Posture

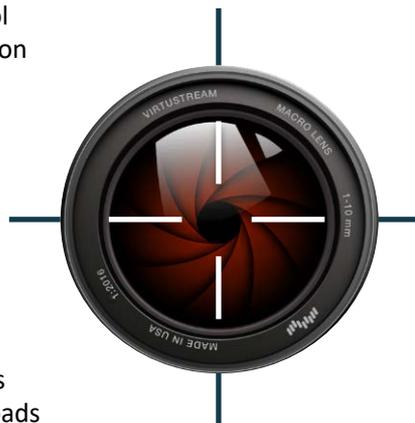
Trusted Cloud Environment for DoD Workloads

Access Control

- Role based access control
- Multi-factor authentication
- Data encryption
- Continuous logging

Intel TXT

- Silicon level security
- Attested OS and platforms
- Attested authentic workloads
- Geo-fencing
- Geo-tagging



Network Security

- Dedicated VLANs
- Carrier class firewalls
- Intrusion prevention system
- Intrusion detection system
- Customizable security zones

Risk and Compliance Management

- Managed security services
- Continuous risk and compliance monitoring
- Vulnerability scans and risk protection
- Customized governance
- Gov't and Industry regulatory compliances

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Production Applications Running on Virtustream

Productivity	CRM	ERP	Databases	Operating systems	Backup
Microsoft Exchange Microsoft SharePoint Drupal CMS IBM Notes Microsoft Lync	Microsoft Dynamics(SL/GP) Interaction CRM Blackbaud	SAP ECC6.0 SAP Solution Manager SAP BI SAP Business Objects SAP PI SAP Business One SAP Services Oracle Microsoft Navision	HANA Hadoop Oracle MySQL Microsoft SQL Server Mozy PostgreSQL DB2	Microsoft Windows Server Windows (2003, 2008) Linux (Red Hat, Centos, Ubuntu, SUSE)	Avamar Asigra NetBackup
Accounting	Applications			Monitoring	
ADP Taxware MarkView Alteryx Deltek Budgeting and Planning Deltek T&E Deltek GCS	Microsoft Office OpenOffice Microsoft TMG Symantec AV DNS IIS Apache	RDS Farms OpenLDAP Subversion Apache Tomcat Citrix VMware Horizon	Red5 Git Trac	Nimsoft	

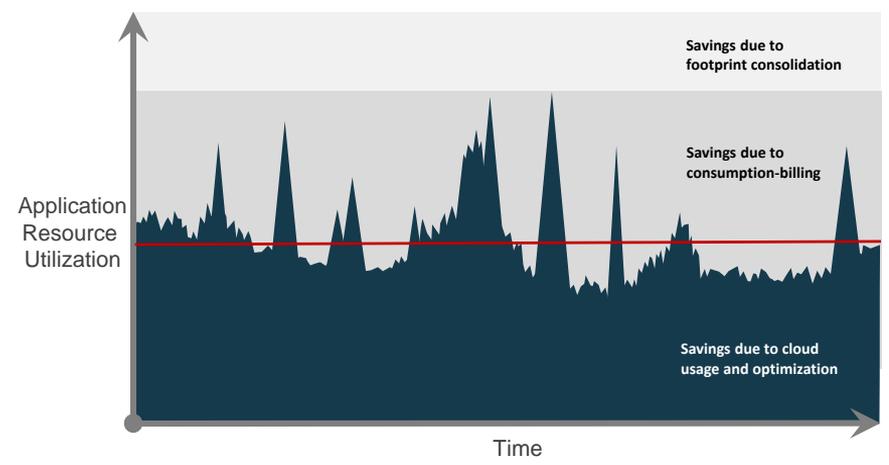
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Consumption Based Billing – Increased Economics

Enabled by μ VM Technology in Service Catalogue 2.0

Benefit Stream of μ VM Architecture



1 μ VM	
200MHz CPU	40 IOPs
768MB RAM	2MBps Bandwidth

- Resource utilization of systems of record can significantly vary over time
- μ VM eliminates overprovisioning of allocated resources for handling peak workloads without impacting performance
- Optimized and better utilization of cloud resources lead to significant cost savings

μ VM consumption measurement can be used to reduce infrastructure costs by 20-60% when enabled in Service Catalogue v2.0

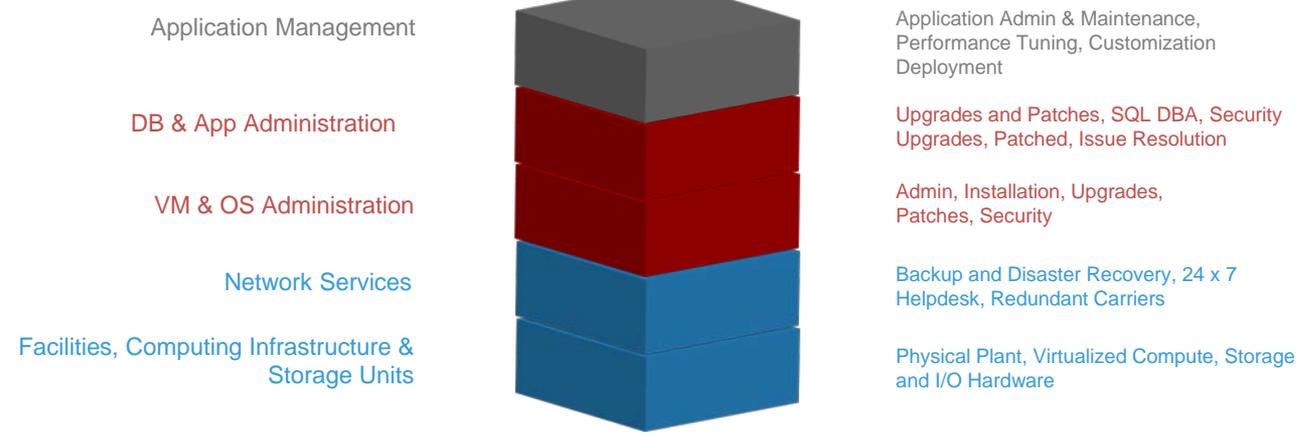
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Supporting The Entire Services Stack

Experts On Demand

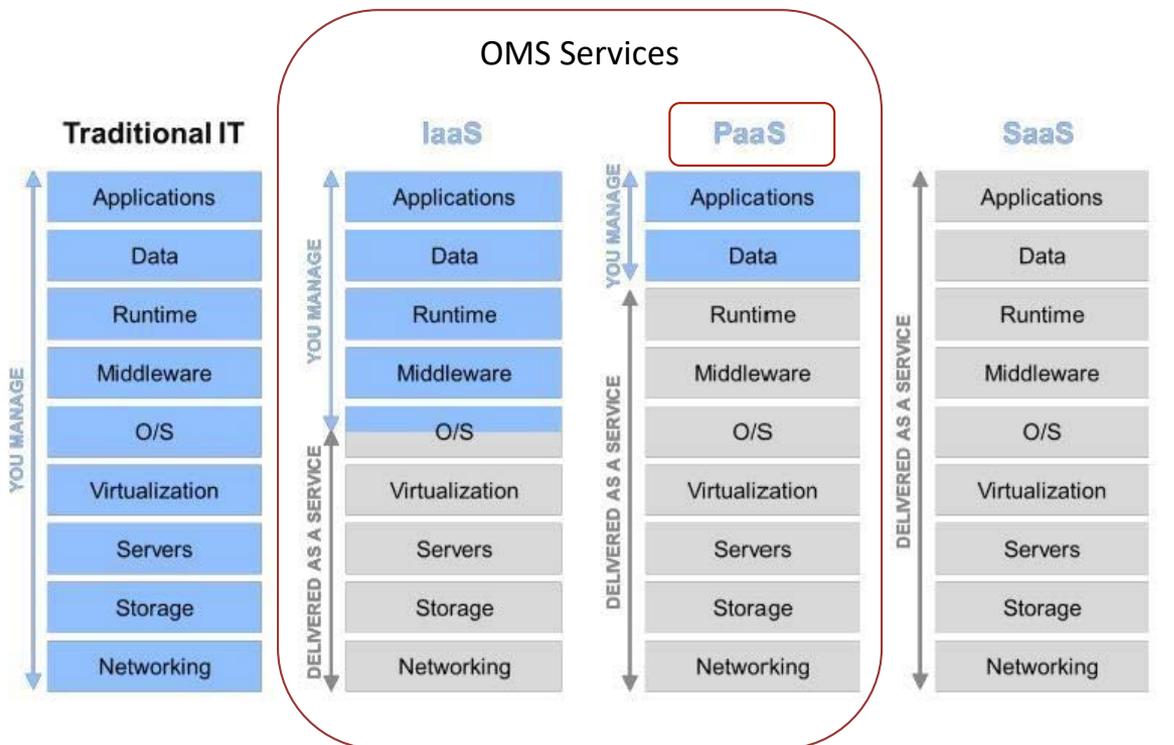
Migration — Automation — Management — Optimization



We can typically lower maintenance costs of applications by **20%-40%**

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Pivotal Cloud Foundry is an OMS Platform



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Cloud Foundry Provides Application Dial-Tone

1. Enables application owners to focus exclusively on their apps and mission.
2. Application owners offload the complexity of deploying and managing apps and other essential capabilities needed by the application to the platform.



Application health management

Sleep soundly as PCF delivers high availability at four different levels: application, process, VM, and zone



Dynamic routing

Scale applications and have direct access in seconds



Log aggregation

Never have to search for logs and metrics; they are all aggregated by PCF



Roles and policy

Built to fit enterprise use-cases with role and policy-based access



Security and isolation

Based on advanced container mgmt. technology



Scale

Rapid, automated scaling for your apps



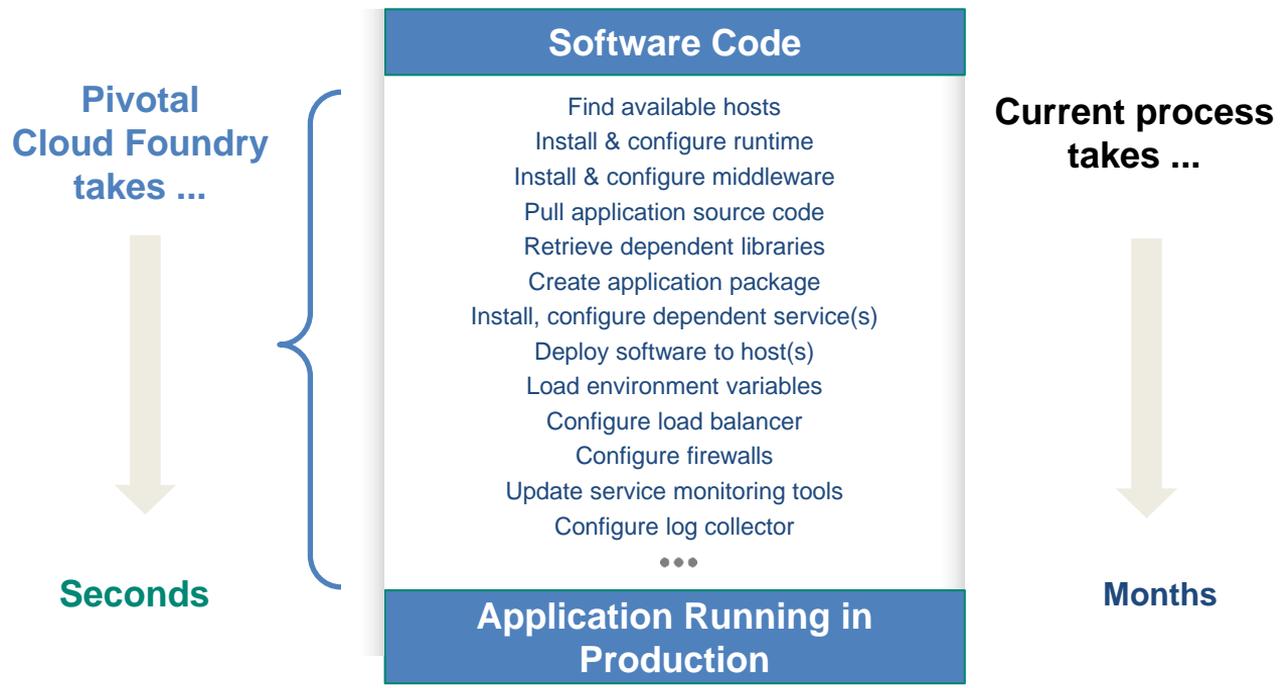
Blue-green deployments

Never take an outage for application deployments or platform updates

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Accelerate the Deployment of Applications



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Onboarding Services

Proven Transition Methodology

Staffing & Onboarding

- Staff service startup & steady-state roles
- Provide staff access & resources
- Train staff and perform Delivery Assurance Assessment

Process Integration

- Integrate mission policies and processes with best practices delivery model
- Implement best practices, process readiness, measurements, and controls to meet service performance standards

Service & Technology Reporting

- Implement reporting measurements for service & technology management controls
- Publish service and technology reports demonstrating service delivery meets performance standards

Technology Management Integration

- Integrated mission technology operating methods with best practices delivery model
- Implement technology management infrastructure, operational readiness, measurements and controls to meet service performance standards

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Migration and Implementation

Planning phase -YES

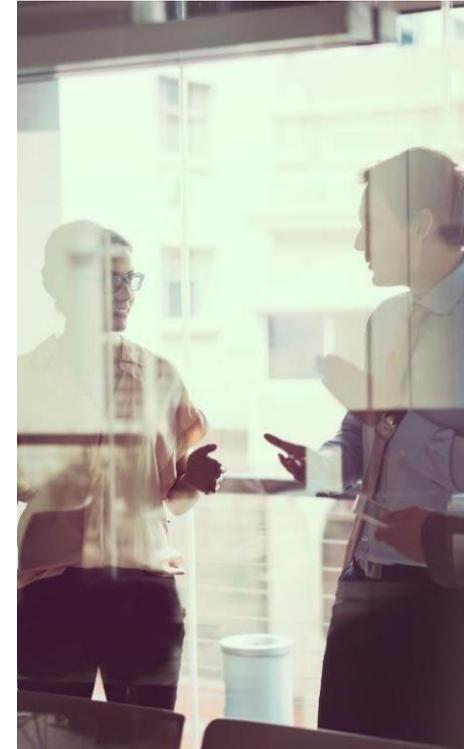
- Technical preparation: project team with operating system and database migration consultant

Migration phases - YES

- Test runs for the migration
- Tuning and optimization in the target system
- Improvement of data transfer and flow of migration
- Further test runs until the production downtime requirements are met

Cutover and go-live - PARTIAL

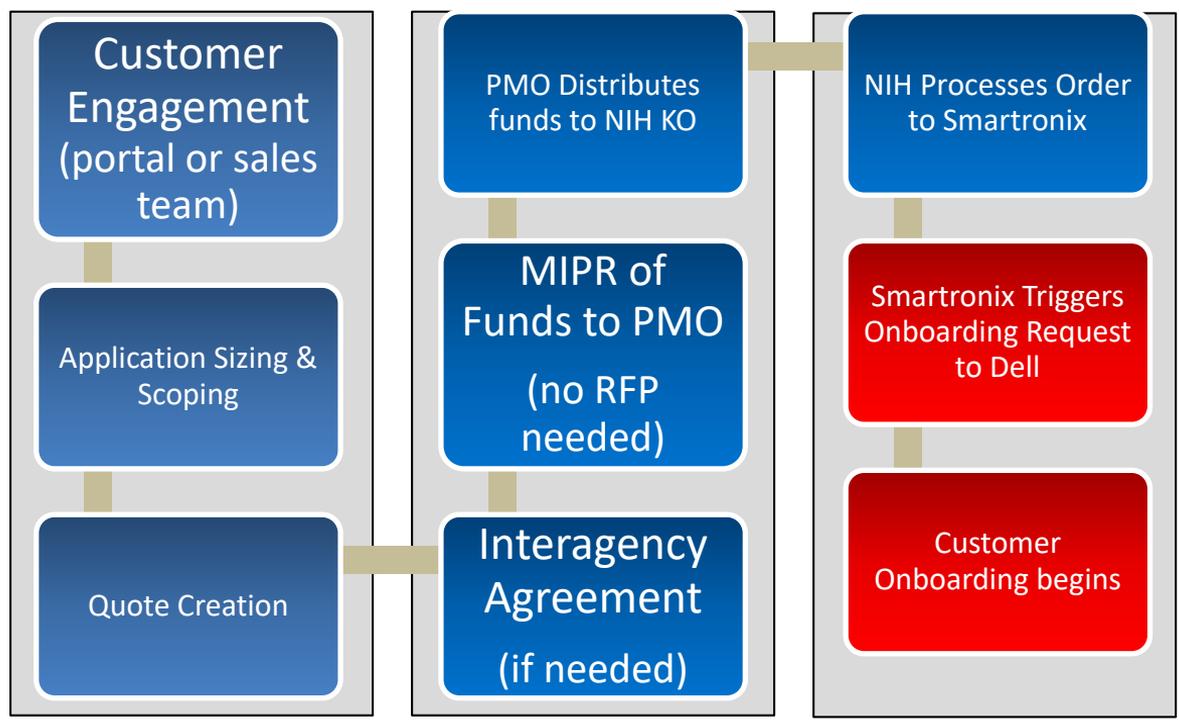
- Migration of the production system
- Technical check of data consistency and performance
- Conversion of production operation to the target system



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OMS Onboarding Process Flow



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OMS Service Catalog

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CLIN 3: Infrastructure Services (IaaS)

CLIN 4: Platform as a Service (PaaS)

- **CLIN 4A: Pivotal Cloud Foundry (PCF)**
- **CLIN 4B: SAP (vHANA)**

CLIN 5: Engineering, Migration and Additional Services

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Service Catalog

CLIN 3: Infrastructure Services Overview

Compute

- T-Shirt Size VMs
- Established using Micro VMs (μ VM)

Storage

- Tiered Service Levels
- Local and Replicated
- Block, File, Object and Archive

Backup

- Standard Daily
- Self Service

Network

- Virtual Private Network (VPN)
- VPN Gateway
- Application Gateway
- Load Balancer

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T-Shirt Size VMs

- Options for XS, Small, Medium, Large, XL or Custom Size
- Range from 1vCPU – 16vCPU and 2GB – 32 GB of RAM
- Includes 75 GB of local block storage
- Allocation based

Micro VMs (μ VM)

- Consumption based on CPU, Memory, Storage, IOPS and Network Bandwidth
- Usage measured at 5 minute intervals
- μ VM Monthly usage averages highest CPU, Memory, Storage, Bandwidth per Hour

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Service Catalog

IaaS Storage

Block Storage

- Option for Tier 0 – Tier III ranging from High – Low latency
- Second site replication with RPO of 15 minutes
- Billed at 5 minutes per GB allocated

File Storage

- Hierarchical structure accessed via NFS or SMB
- Billed at 30 minutes per GB allocated

Object Storage

- Designed for files accessed less frequently
- Billed at 30 minutes per GB allocated

Archive Storage

- Lower cost alternative for infrequently accessed data

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Standard Daily

- Managed service including setup, monitoring and restoration

Self Service

- Customer initiated backups, restoration and schedules
- Address deleted files, database corruption, viruses

Backup Policy

- Production Storage: Full weekly backup with daily incremental and a 30-day retention
- Non-Production Storage: Full weekly backup with daily incremental and 14-day retention
- Database Logs: Backups every two to four hours
- Non-standard backup policies and retention requirements \on an individual customer basis

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Virtual Private Network (VPN)

- Secure site-to-site IPSec connection between the Customer's site and the Tenant Edge Gateway in the DoD data center
- Billed Monthly, at the 95th percentile of measured monthly Mbps usage, with no maximum

VPN Gateway

- Monitoring and maintenance of the VPN appliance that terminates the VPN tunnel between the OMS data center and the customer's facility

Application Gateway

- Enables Network Address Translation (NAT), Reverse Proxy services, and application-level data connectivity and access to Tenant services and systems

Load Balancer

- Support customer workloads or VMs that require Load Balancing of services via an IP address or registered domain name servers (DNS) service

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Service Catalog

CLIN 4: Pivotal Cloud Foundry (PCF) Services

Managed PCF

- Installation/setup of the multitenant PCF instance and associated core components
- Service configuration, monitoring and updates
- Service desk support and incident resolution
- Security and compliance support up to application
 - OMS provides inheritance via eMASS to PCF tenants
 - RMF controls support tenant ATO
- Capacity management

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CLIN 5: OMS Engineering, Migration and Additional Services

- Migration services, managed services, and other optional services may be optionally added in support of consumption of Infrastructure and Platform services.
- Through OMS, providing an Inheritance Relationship via eMASS to OMS Tenants. RMF controls and the related documentation will support the Tenant ATOs

Migration Services Overview

- Full system migration [virtual to virtual (V2V) or physical to virtual (P2V)]
- Planning, engineering, and executing the transition of workloads
- Lift and Shift of applications that meet the criteria for such a process
- Virtualizing workloads for operation in this IaaS environment
- Ensure performance optimization of workloads in the target environment

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OMS Portal Walkthrough

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OMS Support Services

- 24 Hour Technical Support
- 24 Hour Service Desk available for questions
- Continuous Monitoring
- Infrastructure Monitoring
- Interactive Ticketing System
- Integrated ITIL Processes

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Value Summary

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Recap - Value Proposition and Unique Program Features

- **Hosted in DOD facilities and directly on the NIPRNet (& option: SIPRNet)**
 - Removes the need for a Cloud Access Point because it's "inside the wire"
 - Significantly reduced latencies for global communications and time sensitive processing
 - Provides the highest level of cyber and physical security controls
- **Low price, consumption based pricing model**
 - Consumption based pricing aligns with actual resource usage
 - Alternative to "tee shirt" size pricing
- **Secure and highly available enterprise class Infrastructure as a Service (IaaS)**
 - DIARMF accredited to Impact Level 5
 - Option to deploy Impact Level 6 environment
- **Cloud Foundry Platform as a Service (PaaS)**
 - Accreditation timeline for apps in weeks not months
 - Re-use across DOD

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Recap - Value Proposition and Unique Program Features

- **Leverages existing footprint for DoD workloads and knowledgebase of staff trained and familiar with VMWare**
 - Non-proprietary architecture
 - Easy migration for on-boarding
 - Easy migration for off-boarding
- **Faster onboarding when compared to other available DoD programs or CSPs**
 - Reduced time to ATO
 - VMware Compatible
 - Within DoDIN
- **Compute-level SLAs ensure mission success at the lowest TCO**
- **Only Cloud platform capable of running non-cloud native legacy applications, Crown Jewels, and National Security Systems**

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Q&A

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Backup Slides

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OMS.MIL Portal

- [OMS Executive Overview](#)
- [OMS Business Flow and Onboarding Process](#)
- [OMS Service Catalog](#)
- [OMS Pricing](#)

About On-Site Managed Services

Smartronix, in collaboration with its partners in the Dell Technologies family of businesses—including Dell EMC, Virtustream, and VMware have developed and delivered this uniquely dedicated solution, which includes Cloud Foundry, the industry-standard platform for cloud native applications. Dell EMC has provided essential compute, storage, and networking solutions. Virtustream has provided private on-premises enterprise-class IaaS technology, and VMware has integrated its infrastructure solutions into the service.

Smartronix's OMS solution, developed by the team, offers the DoD a major leap forward in application modernization while driving efficiencies and cost savings via a secure, fully managed, on-premises, cloud infrastructure. This DoD community cloud is capable of hosting Impact-Level 4/5 (IL4/5) NIPRNet workloads from within DoD datacenters; and it will eventually include Impact Level 6 (IL6) (SIPRNet), eliminating the need for a Cloud Access Point (CAP) and reducing latency for mission-critical workloads.

In a departure from traditional models, OMS provides "true" consumption-based billing IaaS via the Virtustream platform. OMS is built upon industry standards that leverage the existing knowledge base of the DoD cyber workforce. OMS also includes Cloud Foundry PaaS with the goal of application accreditation within weeks for re-use throughout the DoD. OMS has inherent physical security and cyber defenses provided by the DoD as well as enterprise-grade service level agreements (SLAs).

[Authorized Users Links](#)

[OMS Web Links](#)

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OMS Services Pricing

OMS Pricing

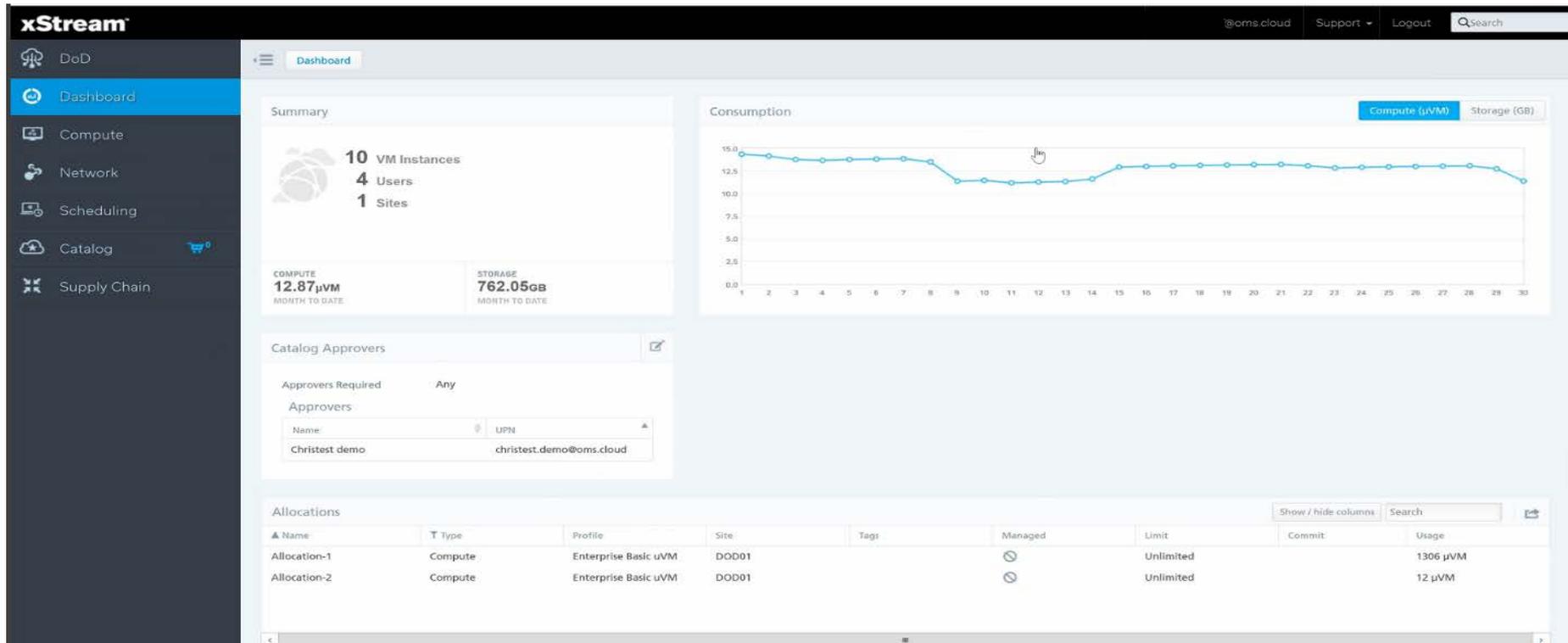
- Team Smartronix will provide OMS Infrastructure Services for the NIPRNet and the SIPRNet. The specifications for each Workload/Virtual Machine (VM) type are shown below. Prices for Infrastructure Services are based on a dual-site design with 99.95% availability.
- When SIPRNet becomes available, there will be a 35% uplift in cost per billing unit above the NIPRNet rate due to the security requirements necessary to deliver the SIPRNet service.
- While each table includes an individual reoccurring price, it will only be used for the determination of individual user's OMS configuration and for individual user billing purposes.
- The OMS ordering unit is composed of a user defined combination of Workload/VM, Storage, and Connectivity & Data Transfer.
- These tables provide the Recurring Costs for "Persistent" Workload/VM operating in the two designed data centers in five minute increments. Billing begins when a Workload/VM is created and ends when the Workload/VM is released. These tables will be utilized for the determination of the development of the detailed monthly invoice.

CLIN 3 Infrastructure Services/NIPRNet/Base Year	
CLIN 3 Infrastructure Services/NIPRNet/Opt Year1	
CLIN 3 Infrastructure Services/NIPRNet/Opt Year2	
CLIN 3 Infrastructure Services/NIPRNet/Opt Year3	
CLIN 3 Infrastructure Services/NIPRNet/Opt Year4	
CLIN 3 Infrastructure Services/SIPRNet/Base Year	- When Available
CLIN 3 Infrastructure Services/SIPRNet/Opt Year1	- When Available
CLIN 3 Infrastructure Services/SIPRNet/Opt Year2	- When Available
CLIN 3 Infrastructure Services/SIPRNet/Opt Year3	- When Available
CLIN 3 Infrastructure Services/SIPRNet/Opt Year4	- When Available
CLIN 4: PLATFORM AS A SERVICE (PaaS)	
CLIN 5: MIGRATION SERVICES	

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OMS xStream Dashboard



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OMS xStream Environment

xStream

DoD Dashboard Compute VM Instances

oms cloud Support Logout Search

+ Add Multiple Instances + Add Instance

VMs: 10 Month To Date: 12.87µVM, 762.05GB Expand

Instances

<input type="checkbox"/>	Name	Site	Status	Business Group	Compute Profile	OS	Tags	Primary IP
<input type="checkbox"/>	DISWWWXSM001	DOD01	🟢	APAN	Enterprise Basic uVM	Red Hat Enterprise Linux 6 ...		
<input type="checkbox"/>	DISSTRMED001	DOD01	🟢	Enterprise Services	Enterprise Basic uVM	Microsoft Windows Server ...	DEPS	169.254.131.154
<input type="checkbox"/>	DISWWWXSM002	DOD01	🟢	APAN	Enterprise Basic uVM	Red Hat Enterprise Linux 6 ...		
<input type="checkbox"/>	DISAPPMED001	DOD01	🟢	APAN	Enterprise Basic uVM	Red Hat Enterprise Linux 6 ...		
<input type="checkbox"/>	DISFNPSML001	DOD01	🟢	Enterprise Services	Enterprise Basic uVM	Microsoft Windows Server ...	DEPS	fe80::7081:b7d3:
<input type="checkbox"/>	DISCDNSML001	DOD01	🟢	APAN	Enterprise Basic uVM	Red Hat Enterprise Linux 6 ...		
<input type="checkbox"/>	DISDBSXLG001	DOD01	🟢	APAN	Enterprise Basic uVM	Red Hat Enterprise Linux 6 ...		
<input type="checkbox"/>	DISAPPLRG001	DOD01	🟢	APAN	Enterprise Basic uVM	Red Hat Enterprise Linux 6 ...		
<input type="checkbox"/>	DISSTRXLG002	DOD01	🟢	Enterprise Services	Enterprise Basic uVM	Microsoft Windows Server ...	RACE	
<input type="checkbox"/>	AFAPFX001	DOD01	🟢	USAF	Enterprise Basic uVM	Microsoft Windows Server ...		169.254.146.9

virtustream

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OMS Services Catalog

xStream oms.cloud Support Logout Search

DoD Dashboard Compute Network Scheduling **Catalog** Order History Cart Supply Chain

Catalog > Products

Products Show / hide columns Search

Image	Product Name	Tags	Price	Actions
	VPN Gateway 5 Min Increment/Device		\$1/Ea Monthly	+
	Virtual Private Network (VPN) 5 Min Increment/Mbps		\$1/Mbps Monthly	+
	Standard Daily Backup (Protected)		\$1/Gb Monthly	+
	On-Demand Backup		\$1/Gb Monthly	+
	Object Storage		\$1/Gb Monthly	+
	Load Balancing 5 Min Increment/Mbps		\$1/Mbps Monthly	+
	Archival Storage		\$1/Gb Monthly	+
	Application Gateway 5 Min Increment/VM		\$1/VM Monthly	+

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OMS Support Portal

virtustream OMS

Global | Jack Hughes

Change Request CHG0049317

Follow | Update | Save | Cancel Workflow | Copy Change | Pending | Cancel Change | Delete

Draft | **Review** | Scheduled | In Progress | Closed

Number: CHG0049317

Requested By: andrew taylor

* Service: IaaS Storage & Backup

Affected Tenants: Army

* Category: Standard Daily Backup (Protected)

* Configuration Item: fklus052vcs001

Risk: Moderate

* Impact: 2 - Medium

* Short Description: Daily Storage Backup

* Description: Daily Storage Backup

* Type: Simple SOP / Standard - Non-Security Relevant Chan

State: Peer Review

* Assignment group: Storage Admins

* Assigned To: Dawn Carter - Privileged

Virtustream SR Ticket: [Empty]

Requested Item: RITM0017121

Emergency Change: [Unchecked]

Coordination Required With: Backup

Outage: -- None --

Thank you for requesting daily backup services be added for your OMS environment. Our engineering team is working on your request and will update this ticket when complete.

Schedule | Planning | Conflicts | Service Desk Integration | Notes

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