



# MANAGED CISCO UNIFIED COMPUTING SYSTEMS - SERVICE GUIDE

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# 1 OVERVIEW

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The Managed Cisco Unified Computing System (UCS) service covers monitoring, support and management of the designated UCS chassis, fabric Interconnects, blades and/or C-series servers.

In addition to the physical equipment, this service also covers the following associated software and firmware components: UCS Manager, Cisco NX-OS, IO module firmware, and server firmware.

This service is available for UCS components and models currently under vendor support.

This service description assumes that all components of the UCS are covered by the managed service. Service described in this service description are not available unless all components are covered.

These components include: server blades or rack mount servers connected to the Fabric Interconnect(s), the UCS chassis, Fabric Interconnect, and Hypervisor or OS running on each blade or server.

This is a managed service for client-owned equipment or Hosted Cafe' hosted equipment which may be located in client operated facility, co-location facility or in a Hosted Cafe' data center.

# 2 SERVICE SPECIFICATION - MANAGED CISCO UNIFIED COMPUTING SYSTEMS

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The Managed UCS service is designed to pick up day-to-day monitoring and management of Cisco UCS after it has been initially installed and configured. Design and installation services may be obtained via professional services.

The Managed UCS service covers the following:

- Ongoing monitoring, configuration and troubleshooting performed by knowledgeable server and network OpsCenter staff
- Lifecycle management of your Cisco UCS environment – modify, add, change, replace and removal of servers and components within the software and management of the systems. This includes:
  - User management
  - Service profile management
  - UCS server management
  - UCS network management
  - UCS software and firmware security patching, bug fixes and software updates. This may include coordinated changes to the Hypervisor software or OS.
  - 24/7 Operations Center coverage to troubleshoot and assist with remediation of issues
  - Summary reporting delivered via our Hosted Cafe' portal to help you understand health, performance and capacity of your USC components
  - Assistance with warranty replacement and vendor escalations

The Managed UCS service covers all the components of the UCS system. Some service events and system upgrades may be dependent upon changes to upstream network, SAN and to VMware components. Changes to these systems may incur incremental fees or require additional managed services. This service is inclusive of a full system update as often as every 12-months. The systems update will be scoped and scheduled via our professional service team and executed based upon an agreed upon schedule.

Mass (greater than 5) additions/deletions or changes are not covered via NetTend and will be considered project billable tasks.



### 3 ROLES AND RESPONSIBILITIES MATRIX

	Client	Hosted Cafe'	Extended Services*
<b>General</b>			
Provide device information for monitoring and support (account password, SNMP string,...)	X		
Client escalation information	X		
Vendor support contracts	X		
<b>Installation and Configuration</b>			
Physical Device Install	X		X
Initial system configuration	X		X
Configure upstream network	X		X
Create vLAN on upstream network	X		X
Configure SAN to support server	X		X
<b>Monitoring</b>			
Setup monitoring and logging		X	
Update monitoring thresholds per client requirements		X	
Manage notification profiles		X	
Setup UCS dashboard in the customer portal		X	
Setup UCS reports		X	
<b>Incident and Problem Management</b>			



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	Client	Hosted Cafe'	Extended Services*
Incident management		X	
Root cause analysis		X	
Vendor management (Escalations, RMA,...)		X	
Troubleshoot down device		X	
Troubleshoot performance issues		X	
<b>Patch Management</b>			
UCS Manager – Update, Patch		X	
Cisco NX-OS – Update, Patch		X	
IO Module firmware – Update, Patch		X	
Server firmware – Update, Patch		X	
Server OS/Hypervisor – Update, Patch	X		X
<b>Management**</b>			
Administer UCS Manager users, password policy, roles		X	
Create service profile / vNIC / vHBA templates		X	
Create service profile / vNIC / vHBA		X	
Manage service profile / vNIC / vHBA templates		X	
Manage service profile / vNIC / vHBA		X	
Manage server / LAN / SAN policies		X	



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	Client	Hosted Cafe'	Extended Services*
Configure server links to fabric interconnects		X	
Configure network uplinks from fabric interconnect		X	
Configure a UCS network		X	
Configure a UCS server		X	
Add blocks of addresses / identifiers (e.g. MAC addresses)		X	
Add vLAN within UCS (not to upstream network)		X	
Add server to UCS	X		X
Add memory to server	X		X
Add physical connection (wire/cable)	X		X
Replace chassis HW – Fans, power supply, IO module		X Enhanced***	
Replace server HW – Server, disks, DIMMs, fan, power supply, CMOS battery, option cards		X Enhanced***	
Replace Fabric Interconnect HW – Interconnect, fan, power supply, port expansion modules		X Enhanced***	
Life Cycle management notification (EOL, EOS)	X		
<b>Change Management</b>			
Log changes information		X	



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	Client	Hosted Cafe'	Extended Services*
Backup configuration prior to change		X	
Review of changes prior to making the change		X	
<b>Reporting</b>			
Standard Operations Reports		X	
Custom Operations Reports			X

\* Extended services are optional services that can be provided with incremental fees. These service may be additional managed services or professional services

\*\* May be dependent upon coordinated upstream network and SAN changes.

\*\* Enhanced offers on-site dispatch for designated service items

## 4 MONITORING

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Managed UCS will monitor the following:

- Device failure
- Ping and port monitors
- Over 500 event and service notifications – including utilization levels, service response, change events, etc.

## 5 REPORTING

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Customized server availability and performance as requested by client.

*This service is part of the Managed Infrastructure Services. Details listed below.*

## 6 MANAGED INFRASTRUCTURE SERVICES

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Managed Infrastructure and Monitoring Services provides organizations with the management and monitoring of their infrastructure, whether the infrastructure is on premises, a third party datacenter or the cloud. The service can support servers, file storage and specified applications. Managed Infrastructure and Monitoring Services allows businesses to extend their IT departments with experienced and expert resources. Managed Infrastructure and Monitoring Services can help drive down costs associated with infrastructure management, using a proven Information Technology Infrastructure Library (ITIL) framework for service delivery. ITIL consists of service desk, incident management, problem management, configuration management, change management and reporting.

**Hosted Cafe's responsibilities for Managed Infrastructure and Monitoring Services include:**

- Service and Support center with 24/7/365 coverage
- Hosted Cafe' offers management and monitoring of devices and software according to the agreement between customer and Hosted Cafe' to aid in resuming normal operations.



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- Additional requests above and beyond will be based upon Time and Material expense to the customer, with no SLA.
- Detection, isolation, diagnosis of each fault and restoration to normal operating conditions, testing and documenting each fault within the Hosted Cafe' trouble ticket system
- Ownership of resolution of the problem on behalf of the Customer and act as an agent for the Customer under executed letters of agency
- Notify the Customer of the progress of all faults per Customer provided contact process.
- Critical software and firmware updates.
- Summary reports delivered via our Managed Services monitoring portal to help you understand performance, utilization and device details
- Assistance with warranty replacement and vendor escalations.
- Changes to individual devices. Mass additions/deletions or changes (greater than 5) are not covered via the Managed Network Services agreement and will be considered project billable tasks.
- Safeguard customer's proprietary information using commercially reasonable efforts to securely access client network and manage the infrastructure.
- Monthly Server OS Patching. For greater detail of InterVision server OS patching service see the Managed OS Patching Service Guide.

### Out of Scope

- Hardware or Software installation, major upgrade or non-RMA replacement is not included with network support. Professional services may be purchased to assist with installation, upgrade or replacement.
- Software license and subscriptions are not included. Devices provided by InterVision to provide the service will be licensed.
- Mass additions/deletions or changes (greater than 5) are not covered via the Managed Network Services agreement and will be considered project billable tasks.
- Coverage for devices not under agreement are ineligible for support of any type.

### Customer Requirements

To allow for successful monitoring and management of devices customer responsibilities include:

- Providing all network and device information for Hosted Cafe' to discover the contracted devices and enable monitoring. This information includes: network diagrams, site information, circuit information and Customer vendors, Letters of Agency, and current software levels.
- Providing resources to run Hosted Cafe's monitoring and collection tools, and the means for the Hosted Cafe' Collector to contact the Hosted Cafe' Data Center.
- Performing configuration of devices and network, as necessary, to facilitate monitoring and management of the contracted devices. In the event the customer is unable or does not have the personnel to enable monitoring and management of devices, Hosted Cafe's Professional Services can be engaged for assistance at an incremental cost.
- Provide devices access - Remote access to devices must be available for support. The client is responsible for out of band access, along with in-band access.
- Provide a distribution list of Customer contacts to receive alarm triggered emails and reports
- Supply InterVision with all the necessary security information including dial-in numbers, access ID's, passwords, SNMP community names necessary for InterVision to perform the Services
- Provide notification contact and escalation lists for use by InterVision during business and non-business hours.
- Provide InterVision with site contact to facilitate InterVision's access to Equipment and connection terminations, along with out-of-hours access procedures
- Notify InterVision within 72 hours of any changes to the contracted Devices.
- Execute letters of agency notifying vendors, such as carriers, that InterVision will represent the Customer by isolating and troubleshooting Customer's network problems





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- All devices and applications must have vendor support contracts (example = Cisco SmartNet) and operate at currently supported vendor versions. Exceptions include Hosted Cafe'-hosted infrastructure, and devices with lifetime warranty support from the vendor for hardware replacement.
- All devices must be in a supportable state, including current versions of software supported by vendor, with all critical patches applied, in a production capable state with no known failures or functions in order to be covered. Remediation efforts to bring software to current version including patches to make a device production capable will be billable to the customer.

### 6.1 SERVICE LEVEL OFFERS - MANAGED INFRASTRUCTURE

Service	Monitor Only	Standard	Enhanced
<b>Phone Support 24/7/365</b>	Not Included	Unlimited	Unlimited
<b>Onsite Support 24/7/365</b>	Not Included	Not Included	Included <sup>1,2</sup>

**Figure 1 – Managed Infrastructure Service Levels**

<sup>1</sup> Applies to devices covered under Managed Infrastructure Services in the continental US. International onsite coverage may be added via a custom scope of work.

<sup>2</sup> Onsite support is at the discretion of Hosted Cafe'

### 6.2 SERVICE LEVELS

Monitor Only levels of service are detailed below.

Service	Monitor Only	Standard	Enhanced
<b>Phone Support 7AM-7PM, MON-FRI*</b>	Not Included, No SLA	Included, with SLA	Included, with SLA
<b>Phone Support Off-Hours</b>	Not Included, No SLA	Included, with SLA	Included, with SLA
<b>Onsite Support 7AM-7PM MON-FRI**</b>	Not Included	Not Included, No SLA.	Included, with SLA
<b>Onsite Support Off-Hours**</b>	Not Included	Not Included, No SLA	Included, with SLA
<b>Phone Support – Devices Not Covered by NetTend</b>	Not Included	Not Included	Not Included



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Service	Monitor Only	Standard	Enhanced
Onsite Support – Devices Not Covered by NetTend	Not Included	Not Included	Not Included

All coverage times are based on the local time zone of the supported device.

\*\*Applies to devices covered under Managed Infrastructure Services in the continental US. International onsite coverage may be added via a custom scope of work.

- In the event that an outage or network problem occurs which is determined to be a site related issue Hosted Cafe' will document the Incident within its ticketing system. Examples of site related Incidents are: Loss of power to site, damage to premise cabling, accidental disconnection of site cabling or Equipment.
- In the event that an outage or network problem occurs which is determined to be a Broadband Carrier circuit failure, Hosted Cafe' will, via a Letter of Agency from Customer, contact the relevant Carrier or ISP and report the Incident for resolution. Hosted Cafe' will then continue to manage the problem and follow up with the Carrier or ISP to ensure service is restored as quickly as possible.
- In the event that an outage or network problem occurs which is determined to be a failure of CPE, Hosted Cafe' will diagnose and attempt to resolve the issue remotely. If the outage cannot be resolved remotely, Hosted Cafe' will escalate to the Customer and/or technician dispatch when needed. Determination of the necessity of on-site services is at the sole discretion of Hosted Cafe'. If dispatch is requested and cancelled within 48 hours of requested dispatch time, a \$250 cancellation fee will be applied.

### 6.3 REPORTING

- Hardware availability
- Device performance and capacity
- Trouble tickets
- Change tickets
- Monthly overview reports
- SLA reports

### 6.4 SERVICE ACTIVATION

Hosted Cafe' employs a structured process to help ensure a smooth transition to Managed Infrastructure and Monitoring services. Our Project Management Office (PMO) owns the process with the Onboarding Engineer (OE), holding the ultimate responsibility and serving as the single point of contact (SPOC).

### 6.5 STEPS TO ACTIVATE SERVICE

1. Data gathering
  - a. Customer service manual
  - b. Order form
2. Collector/ Support workstation Deployment and Configuration
3. Onboard customer devices
4. Add data from step one into systems
5. Finalize customer onboarding
6. Send any found issues with onboarding for client to review
7. Go Live/ Customer training
8. Perform true up / Project Closeout



## 6.6 SERVICE DELIVERY

### 6.7 INCIDENT AND DEVICE IMPACT CLASSIFICATION

The Managed Infrastructure and Monitoring service employs a sophisticated algorithm called the Ticket Enrichment Engine that utilizes the severity of the incident, and the business criticality of the device to determine the appropriate priority levels. Devices such as routers and firewalls are defaulted to classification as critical devices, and are automatically prioritized higher than other devices. Customers are able to designate other devices as critical, to decrease/increase their prioritization based upon their business impact

Severity 1	No Ticket	
Severity 2	No Ticket	
Severity 3	No Ticket	
Severity 4	Notification Ticket Closed State	
Severity 5	Notification Ticket Closed State	Upgrade Eligible
Severity 6	P3 Ticket	
Severity 7	P3 Ticket	Upgrade Eligible
Severity 8	P2 Ticket	
Severity 9	P2 Ticket	Upgrade Eligible
Severity 10	P1 Ticket	

*Emergency (P1 or P2) services require a phone call to create an incident.*

## 7 DEFINITIONS

**Monitor only-** Hosted Cafe' will place the Customer premise equipment ("CPE"), Cloud Servers, and Software under support and monitoring only service. The Service covers the specific IT infrastructure devices as detailed in an applicable Service Order . There is no phone support or onsite support with this service.

**Standard-** Hosted Cafe' will place the Customer premise equipment ("CPE"), Cloud Servers, and Software under support and monitoring service. The Service covers the specific IT infrastructure devices as detailed in an applicable Service Order and includes unlimited phone support.

**Enhanced-** Hosted Cafe' will place the Customer premise equipment ("CPE"), Cloud Servers, and Software under support and monitoring service. With this version of the Service the customer receives both unlimited phone support and onsite support as detailed in an applicable Service Order.



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