

## Firefly Unified Computing System and Unified Communications Mentored Deployment (5 days)

This Mentored Service is targeted at providing a proof of concept for deployment of a simple Cisco Unified Computing System (UCS) B-Series (blade server) environment and migration of an existing Cisco Unified Communications Manager (CUCM) cluster from physical hardware to virtual machines running in the UCS environment.

Services include:

- Configuring the UCS environment from a racked and provisionally cabled state
- Setting up UCS management
- Upgrading UCS firmware if needed
- Installing virtual hosts
- Installing Cisco voice applications to run on virtual hosts
- Backing up the UCS configuration
- Knowledge transfer covering UCS system and network architecture, UCS Service Profile concepts and operations, and the process of virtualizing the Unified Communications environment, including migration concepts and planning.

During the proof of concept deployment, your engineers will have an opportunity to learn how to set up and manage a Cisco UCS environment and how to migrate existing CUCM deployment into the virtualized environment.

This mentored deployment assumes the client is in the process of provisioning a UCS environment with little-to-no prior UCS experience. Additionally it is assumed the client has an existing Cisco Unified Communications architecture and plans to migrate it to the UCS platform. The client will come away with a functioning UCS environment, an understanding of how to manage it going forward, an understanding of the concepts for deploying virtualized voice applications in the UCS environment and be well on the way toward migrating the existing Cisco Unified Communications Manager cluster.



## Service Deliverables

- Physical cabling of up to two (2) Fabric Interconnects to up to two (2) UCS chassis, if necessary.
- Initial configuration of up to two (2) Fabric Interconnects, to include management IP addressing, DNS services, NTP configuration, and chassis and uplink port configuration.
- Upgrade all components to latest firmware/software versions.
- Creation of one (1) management IP address block.
- Creation of up to two (2) organizations.
- Creation of up to two (2) locales.
- Creation of up to four (4) user accounts.
- Creation of up to two (2) MAC address pools.
- Creation of up to two (2) WWNN address pools.
- Creation of up to two (2) WWPN address pools.
- Creation of up to two (2) UUID pools.
- Creation of up to two (2) service profile templates.
- Creation of up to eight (8) service profiles.
- Creation of up to two (2) server pools.
- Creation of one (1) firmware policy.
- Creation of up to two (2) named policies of customer's choosing.
- Installation of up to two (2) instances of Vmware on in-scope UCS blades.
- Installation of up to two (2) virtual CUCM nodes (CUCM Publisher plus one Subscriber) using Cisco-supported templates.
- Migration of data from old CUCM Publisher database to new virtual CUCM Publisher database.
- Database replication check for new virtual CUCM nodes.
- Creation of up to two (2) UCS database backup jobs.
- Demonstrate Vmotion of virtual CUCM nodes between UCS blades\*
- Demonstrate switchover of Fabric Interconnect cluster.

\* Vmotion is only supported while virtual CUCM nodes are powered down.

## Assumptions

Customer will supply all necessary equipment and software.

The UCS chassis should be racked and provisionally cabled prior to our arrival.

Required network and storage resources must be available at time of the engagement. Customer should also be in possession of a valid copy of the installable media for VMware ESXi and Cisco Unified Communications Manager.

## Important!

This is a proof-of-concept deployment exercise. It is not a production cutover from the existing physical Unified Communications environment to the new virtualized Unified Communications environment. The existing physical Unified Communications environment will remain in service to avoid disruption of service. Accordingly, all phones, gateways and other voice endpoint devices will remain with the production environment. The purpose of the engagement is for the UC engineering team to become skilled in the necessary concepts for virtualizing the Unified Communications environment, and acquire confidence in their ability to complete the migration process.