CISCO UCS
Unified Computing System

Unify your network, computing and virtualization resources.

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Unified Computing and Servers

Product Overview >>

Cisco R Series Racks: *Make Your Infrastructure Highly Secure.*

- Has an innovative design to deliver exceptional power, cooling, and cable management, as well as strength and stability
- Is optimized and certified for use with the Cisco Unified Computing System
- Is part of a complete Cisco infrastructure solution, including
- computing, network, rack, power, and services

Cisco RP Series Power Distribution Units: *Get Reliable Power Distribution and Protection.*

Easily Manage and Troubleshoot Power Cabling

solution, including compute, network, rack, and power services

The Cisco RP208-30-U-1 Power Distribution Unit offers:

- **Improved power distribution**, with cost-effective and efficient distribution to up to 24 outlets
- **Simplified cabling from the rack**, replacing up to two dozen input power cords with just one
- **Decreased clutter, improved airflow, and simplified power distribution** as

   a result of fewer cables
- **Easy installation and deployment**, with a 0RU and 1RU design to preserve valuable rack space for IT equipment
- **Protection against overload conditions**, with two 20A circuit breakers for groups of receptacles

Cisco UCS 6200 Series Fabric Interconnects: *Lower Costs with Efficient Interconnects*

Lower Total Cost of Ownership
♦ Additional bandwidth up to 960 Gbps, increased port density up to 48 ports in one rack unit (1RU)
♦ Reduced port-to-port latency from 3.2 microseconds (ms) to 2 ms
♦ Centralized, unified management with Cisco UCS Manager software
♦ Efficient cooling and serviceability including front-to-back cooling, redundant front-plug fans and power supplies, and rear cabling
♦ Fiber Channel and 10 Gigabit Ethernet uplink connectivity with expansion module option

Highly Scalable Architecture

The Fabric Extender architecture scales up to 40 chassis in a single unified system without additional complexity, eliminating dedicated chassis management and blade switches, and reducing cabling. Scalable hardware can support Layer 3, Cisco Fabric Path, 4000 VLANs, and 40 Gigabit Ethernet uplinks in the future.

VM-FEX Technology

Helps enable a consistent operational model and visibility between physical and virtual environments; it simplifies enforcement of security and network policy when moving virtual machines across hosts

Cisco UCS 6100 Series Fabric Interconnects: *Centralized Management and I/O Consolidation*

A core part of the Cisco Unified

Computing System, the Cisco UCS 6100 Series Fabric Interconnects provide both network connectivity and management capabilities to all attached blades and chassis.

Cisco UCS 5100 Series Blade Server Chassis: *Simplified Server Deployment*

The Cisco UCS 5100 Series Blade Server Chassis is a crucial building block of the Cisco Unified Computing System, delivering a scalable and flexible architecture for current and future data center needs, while helping reduce total cost of ownership.

Have fewer physical components

Require no independent management

Be more energy efficient than traditional blade-server chassis

Cisco UCS 2100 Series Fabric Extenders: *Simplifying I/O, Cabling, and Management*

View Interactive 3D Model: Unified Computing System

Cisco UCS 2100 Series Fabric Extenders connect the Cisco UCS 5100 Series Blade Server Chassis to the Cisco UCS 6100 Series Fabric Interconnects and help simplify cabling, management, and diagnostics.

The fabric extender extends the I/O fabric between the fabric interconnects and the blade-server chassis, enabling a lossless and deterministic Fiber Channel over Ethernet (FCoE) fabric to connect all blades and chassis together.

The first product in the series, the Cisco UCS 2104XP Fabric Extender

Cisco UCS B-Series Blade Servers: *Deploy Innovative Blade Servers*

Significantly reduce capital and operating expenses with the converged network fabrics and integrated systems management of Cisco UCS B-Series Blade Servers.

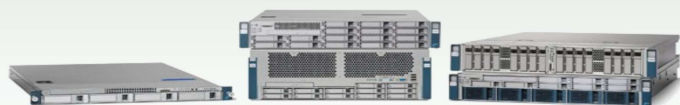Enhance Performance with 2-Socket Servers

Based on Intel® Xeon® processor 5500 and Xeon 5600 series, these servers work with virtualized and non virtualized applications to increase:

- Performance
- Energy efficiency
- Flexibility

Cisco UCS C-Series Rack-Mount Servers: *Unique Benefits in a Familiar Package*

- **Compare C-Series Rack Mount Server Models**

- **Access 3-D Interactive Models of C-Series Products**

- **Reduce total cost of ownership (TCO) and increase business agility with Cisco UCS C-Series Rack-Mount Servers**

Cisco UCS Express: *Simplify Branch Office Infrastructure*

Now multisite organizations can increase business agility, lower total cost of ownership (TCO), and get more from their branch office infrastructure. The Cisco Unified Computing System Express (UCS Express) is a converged networking, computing, and virtualization platform for hosting essential infrastructure services and mission-critical business applications in the lean branch office.

Key Features

- Compact, all-in-one computing and networking system
- Easy-to-provision x86 blade servers
- Enterprise- and production-class bare-metal hypervisor
- Remote management with network and server separation
- Microsoft WHQL and SVVP certified for Windows Server

Key Benefits

- Simplified branch office infrastructure and lower TCO
- Faster, easier physical server deployment
- Consolidated servers and better application deployment time
- Converged infrastructure with separate functional domains
- Right-sized platform for essential branch office applications

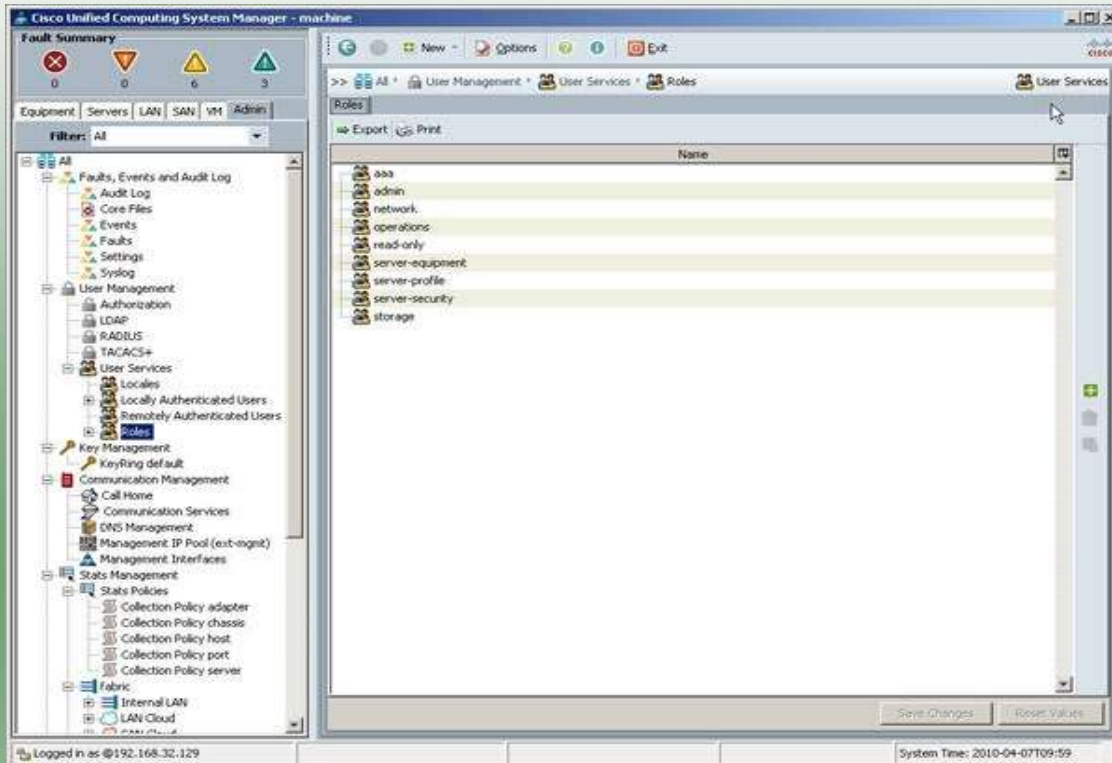# Cisco UCS Manager: *Unify and Embed Management for Unified Computing*

Cisco Unified Computing System (UCS) Manager provides unified, embedded management of all software and hardware components of the Cisco UCS. It controls multiple chassis and thousands of virtual machines.

Increase Agility and Reduce Complexity

By promoting better process automation, Cisco UCS Manager delivers greater agility and scale for server operations, while reducing complexity and risk. It provides flexible role - and policy-based management, using service profiles and templates. In addition, it facilitates processes based on IT Infrastructure Library (ITIL) concepts.

Improve Visibility and Control

Focused integration with industry-leading systems management partners helps you easily adopt Cisco UCS, using existing IT staff skills, tools, and processes. An extensive XML API exposing 9000 points of integration facilitates custom development to achieve new levels of system visibility and control.

Reduce IT Costs

Through its simplified, ecosystem-friendly approach, Cisco UCS Manager helps reduce management and administration expenses, which are among the largest costs in most IT budgets.

Cisco Unified Computing System Adapters: *Converge LAN and SAN Traffic in One Interface*

The Cisco Unified Computing System supports converged network adapters (CNAs) from a broad set of technology leaders such as Emulex, Q logic, Broadcom, Intel, and Cisco. CNAs obviate the need for multiple network interface cards (NICs) and host bus adapters (HBAs) by converging LAN and SAN traffic in a single interface.

Compare Models
Learn about the similarities and differences of the models within this product series.

Models
Cisco UCS M81KR Virtual Interface Card

Cisco UCS Virtual Interface Card 1280