New hardware features

New Hardware Features in Infrastructure Firmware Release 6.0(1.251005)

Cisco UCS XE9305 Chassis

Cisco Unified Edge brings together computing, storage, routing, switching, and security into a single configurable solution to help IT organizations simplify the deployment, operations, and lifecycle management of edge infrastructure at a global scale.

The foundation of Cisco Unified Edge is the Cisco UCS XE9305 modular system. A 3RU, short-depth, multi-mountable chassis, the Cisco UCS XE9305 provides five front-facing slots that can accommodate modules (nodes) that are easy to service and adaptable to deliver a range of capabilities, from computing to storage and networking to security.

The Cisco UCS XE9305 is designed to operate in an extended range of temperatures (5° to 45°C) while maintaining a quiet noise level (40s dBA with 20% fan load at 25°C) and is protected by an optional locking bezel with an independently replaceable air filter, allowing deployments in a wide range of physical spaces and flexible mounting options. High-bandwidth inter-node connectivity is achieved through active-active 25 Gbps switches embedded on the Cisco UCS Edge Chassis Management Controller

Key Features and Benefits

- **Five slots:** 3 RU-high, 17-inch-wide, and 18-inch-deep chassis with five front-facing flexible slots for compute nodes and future modules that may include networking nodes for routing, switching, and secure access service edge (SASE) capabilities.

  Compute node support: Support for 1-CPU single-slot compute nodes. For more information, see Cisco UCS XE130c M8 Compute Node Data Sheet.

- **Hot-swappable controllers:** Two hot-swappable Cisco Edge Chassis Management Controllers (eCMCs), forming a unified fabric that provides connectivity between all nodes within the chassis and with upstream networks, and provides local chassis management and a secure control plane connection with Cisco Intersight.

  Each eCMC features:

  - An embedded 25 Gbps switch with 145 Gbps of switching bandwidth with five rear-facing 25 Gbps switch ports connecting to nodes within the chassis through the chassis mid-plane and two front-panel 10 Gbps SFP+ uplink ports for data traffic.
  - One front-panel 1 Gbps RJ-45 uplink port for management traffic.
  - Two front-panel USB-C ports for management console and external storage connectivity.

- **Two power supplies:** Two hot-swappable 2400W Titanium Power Supply Units (PSUs) providing N+N (**Grid** mode) redundancy, removable from the front for service via a latching mechanism without special tooling. Non-redundant mode is also supported.
- **Acoustically optimized fans:** Five 80 mm by 56 mm hot-swappable fan modules with acoustically optimized cooling controls, removable from both the top and the rear for servicevia a latchingmechanism without special tooling.
- **Locking bezel:** One optional locking bezel with a separately replaceable air filter covering the entire front of the server, providing protection against physical tampering and filtration against ambient particulate matter.
- **Near Field Communication (NFC) identifier:** NFC capability embedded in the chassis to aid chassis identification, claiming, and troubleshooting when used in conjunction with the Cisco Intersight mobile app.
- **Multiple mounting options:**

  Accessories for flexible server mounting options: sliding rail kit for 4-post racks, static mount kit for 2-post racks, brackets for wall mounting, and brackets for shelf mounting (horizontally or vertically positioned).
- **Fabric bandwidth:**
  - Data fabric connectivity to compute nodes of 50 Gbps Ethernet speeds per compute node.
  - Modular eCMC design allows for future hardware upgrades.

For more information, see Cisco UCS XE9305 Data Sheet and Release Notes for Cisco Intersight Managed Mode Server Firmware, Release 6.0.