# Purpose of the Cisco UCS MIBs

This chapter describes the purpose of the Cisco UCS MIBs.

## Purpose of the Cisco UCS MIBs

The following table describes the purpose of each Cisco UCS MIB.

*Table 1: MIB Purposes*

| MIB | Purpose |
| --- | --- |
| CISCO-UNIFIED-COMPUTING-AAA-MIB | This package contains data about configuring and monitoring the AAA operation within Cisco UCS.<br><br>It includes the following information:<br><br>• Identities of external AAA servers such as LDAP, TACACS, and RADIUS. These servers are used as authoritative repositories to authenticate UCS users.<br><br>• Local Cisco UCS users<br><br>• User Roles and locales<br><br>• Mappings between users, roles and locales<br><br>• Pre-login banner configuration<br><br>• Audit Logs<br><br>• AAA policies, such as password policies |

| MIB | Purpose |
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| CISCO-UNIFIED-COMPUTING-ADAPTOR-MIB | This package contains configuration and statistics information that reflect the state of physical network adapters within Cisco UCS.<br><br>It includes the following information:<br><br>• Ethernet and Ethernet port channel Interfaces<br><br>• FC and FC port channel Interfaces<br><br>• Network statistics per adapter |
| CISCO-UNIFIED-COMPUTING-BIOS-MIB | This package contains configuration objects for BIOS settings.<br><br>It includes the following information:<br><br>• Boot order parameters for the Cisco UCS Servers<br><br>• Policy based BIOS parameters that can be applied to service profiles |
| CISCO-UNIFIED-COMPUTING-BMC-MIB | This package contains configuration objects for capability catalog entries for BMC. Currently, this package contains a single object for the System Event Log (SEL) characteristics. |
| CISCO-UNIFIED-COMPUTING-CALLHOME-MIB | This package contains configuration objects for the Call Home feature.<br><br>It includes the following information:<br><br>• Contact information<br><br>• Customer ID and contract ID<br><br>• E-mail address<br><br>• SMTP servers<br><br>• Call Home profiles and policies<br><br>• System Inventory |

| MIB | Purpose |
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| CISCO-UNIFIED-COMPUTING-CAPABILITY-MIB | This package contains configuration objects for the capability catalog. This catalog contains the characteristics of various physical components in Cisco UCS, including fabric interconnect, network adapters, blade servers, rack-mount servers, chassis, IO Modules, CPUs, memory units, FAN modules, local disks, power supply units, and storage controllers. Cisco UCS is designed to support new hardware by uploading a new capability catalog that includes the following information: • Capability catalog objects • Objects to manage the capability catalog, such as uploading a new catalog to an existing system |
| CISCO-UNIFIED-COMPUTING-CHANGE-MIB | This package contains the following objects used by Cisco UCS Central to communicate with Cisco UCS: • ChangedObject • QueryResult |
| CISCO-UNIFIED-COMPUTING-COMM-MIB | This package contains configuration objects that control global configurations, such as DNS, HTTP, and SNMP. It includes the following information: • Date and time management • DNS management • Configuration of XML API over HTTP and HTTPS • NTP management • Shell access configuration • SNMP management • Telnet management |

| MIB | Purpose |
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| CISCO-UNIFIED-COMPUTING-COMPUTE-MIB | This package contains configuration, inventory, and statistics objects for computing resources, including blade and rack servers.<br><br>It includes the following information:<br><br>• Inventory objects for blade servers and components<br><br>• Inventory objects for rack servers and components<br><br>• Chassis connectivity policies<br><br>• Compute discovery and auto-configuration policies<br><br>• Compute pool objects |
| CISCO-UNIFIED-COMPUTING-CONFORM-MIB | This package contains SNMP MIB compliance groups. These compliance statements provide a systematic method to describe a group of managed objects that must be implemented for conformance to a standard. |
| CISCO-UNIFIED-COMPUTING-DCX-MIB | This package contains operational information about virtual interfaces and circuits.<br><br>It includes the following information:<br><br>• Virtual interfaces configured for each server network adapter<br><br>• Virtual circuits configured for each server adapter, chassis, IO module, or FEX |
| CISCO-UNIFIED-COMPUTING-DHCP-MIB | This package contains DHCP subsystem details.<br><br>It includes information on DHCP leases obtained by the Cisco UCS subcomponents such as, BMC, blade, and mount servers. |
| CISCO-UNIFIED-COMPUTING-DIAG-MIB | This package contains diagnostics information about Cisco UCS sub-components.<br><br>• Diagnostic policies<br><br>• Network test objects<br><br>• Diagnostic results |

| MIB | Purpose |
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| CISCO-UNIFIED-COMPUTING-DOMAIN-MIB | This package contains details about feature compatibility between Cisco UCS Central and Cisco UCS which is used to indicate the capabilities and requirements of the Cisco UCS Domain.<br><br>It includes the following information:<br><br>• Netflow<br><br>• IPv6 management<br><br>• Global service profiles |
| CISCO-UNIFIED-COMPUTING-DPSEC-MIB | This package contains objects that specify the MAC security policy.<br><br>It includes details about the MAC security policy, which is a part of the network control policy. This policy specifies whether to allow or deny packets with forged MAC addresses. |
| CISCO-UNIFIED-COMPUTING-EPQOS-MIB | This package contains details about network Quality of Service (QoS).<br><br>It includes the following information:<br><br>• Egress QoS policy<br><br>• Internal object to manage the network QoS |
| CISCO-UNIFIED-COMPUTING-EQUIPMENT-MIB | This package contains details about the Cisco UCS inventory. Objects in this package are defined to model the physical components.<br><br>It includes the following information:<br><br>• Network adapters<br><br>• Beacon LEDs<br><br>• Board controllers<br><br>• Fabric Interconnect fixed and extension modules<br><br>• Cisco UCS chassis<br><br>• FAN<br><br>• FEX<br><br>• Hard drive<br><br>• IO card<br><br>• Memory unit<br><br>• Power supply unit |

| MIB | Purpose |
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| CISCO-UNIFIED-COMPUTING-ETHER-MIB | This package contains details about the Ethernet port inventory and statistics about the Ethernet ports.<br><br>It includes the following information:<br><br>• Objects that represent inventoried Ethernet ports and port channels<br><br>• Statistics about Ethernet ports |
| CISCO-UNIFIED-COMPUTING-EVENT-MIB | This package contains details about the event log. An event is any significant occurrence in the Cisco UCS that may require users to be notified. Events can help users identify and diagnose the source of problems.<br><br>It includes the following information:<br><br>• Object to model the event log<br><br>• Object to model an entry in the event log<br><br>• Event log policy, which specifies the number of events that need to be maintained in the event log and the event retention policy. |
| CISCO-UNIFIED-COMPUTING-EXTMGMT-MIB | This package contains details about management interfaces.<br><br>It includes the following information:<br><br>• Management interfaces<br><br>• Gateway ping policy<br><br>• Interface monitoring policy<br><br>• ARP targets |
| CISCO-UNIFIED-COMPUTING-EXTPOL-MIB | This package contains details about external clients that are connected to Cisco UCS Manager |
| CISCO-UNIFIED-COMPUTING-EXTVMM-MIB | This package contains information about certificate and private key stores. |

| MIB | Purpose |
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| CISCO-UNIFIED-COMPUTING-FABRIC-MIB | This package contains information about the configuration and policies on the Cisco UCS fabric. The Cisco UCS fabric defines Ethernet, storage, Fibre Channel and FCoE policies, desired port configuration, VLANs, and VSANs. <br><br> It includes the following information: <br><br> • VLANs <br><br> • VSANs <br><br> • Required Ethernet configuration for uplink ports, port channels, server ports, NAS storage ports, FCoE ports, and SPAN ports <br><br> • Required Fibre Channel configuration for FC uplink ports, FC port channels, FC direct attach storage ports, and FC span ports <br><br> • VLAN and VSAN port membership <br><br> • Ethernet Pin groups <br><br> • Fibre Channel pin groups <br><br> • VCON policies |
| CISCO-UNIFIED-COMPUTING-FAULT-MIB | This package provides information about Cisco UCS faults. A fault is an abnormal condition or defect at the component, equipment, or subsystem level, which may lead to a failure as defined in ISO/CD 10303-226. <br><br> Each managed object in the management tree may have one or more faults that indicate a particular problem with this object. <br><br> It includes the following information: <br><br> • Fault objects <br><br> • Fault policy, including fault retention, flapping, and clear action |
| CISCO-UNIFIED-COMPUTING-FC-MIB | This package contains data about the Fibre Channel statistics and FC interface configuration. <br><br> It includes the following information: <br><br> • Fibre Channel statistics <br><br> • Fibre Channel interface configuration |

| MIB | Purpose |
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| CISCO-UNIFIED-COMPUTING-FCPOOL-MIB | This package contains information about Fibre Channel pools of WWNs. Service profiles VHBAs can be assigned as virtualized WWNs, which help to ensure portability of the service profile.<br><br>It includes the following information:<br><br>• Fibre Channel pool of WWNs<br><br>• Block of WWNs<br><br>• WWNs, which can be assigned to service profile vHBAs |
| CISCO-UNIFIED-COMPUTING-FIRMWARE-MIB | This package contains details about the firmware management of the Cisco UCS components. This includes objects to download firmware packages, manage firmware images and firmware packages, firmware packs, and to control firmware upgrades or downgrades.<br><br>It includes the following information:<br><br>• Downloader object to download firmware packages<br><br>• Objects to model firmware and firmware packages<br><br>• Firmware packs<br><br>• Control of firmware upgrades and downgrades |
| CISCO-UNIFIED-COMPUTING-FLOWCTRL-MIB | This package contains the network flow control policy details. |
| CISCO-UNIFIED-COMPUTING-GMETA-MIB | |
| CISCO-UNIFIED-COMPUTING-GRAPHICS-MIB | This package contains information about the graphics card properties.<br><br>It includes the following information:<br><br>• Graphics card model number<br><br>• Graphics card type<br><br>• Graphics card PCI address |
| CISCO-UNIFIED-COMPUTING-HOSTIMG-MIB | This package contains the host images policy details.<br><br>It includes the following information:<br><br>• Host image policy<br><br>• Host image targets |
| CISCO-UNIFIED-COMPUTING-IMGPROV-MIB | This packages contains the image provider policy details. |
| CISCO-UNIFIED-COMPUTING-IMGSEC-MIB | This package contains details about the image security keys. |

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| CISCO-UNIFIED-COMPUTING-IPPOOL-MIB | This package contains details about pools of IP addresses. Pools of IP addresses are used to assign IP addresses to the BMC interfaces<br><br>It includes the following information:<br>• Pool of IP addresses<br>• Block of IP addresses<br>• IP addresses which can be assigned to KVMs |
| CISCO-UNIFIED-COMPUTING-IQNPOOL-MIB | This package contains details about pools of IQN addresses.<br><br>It includes the following information:<br>• Pools of IQN addresses<br>• Block of IQN addresses<br>• IQN addresses |
| CISCO-UNIFIED-COMPUTING-ISCSI-MIB | This package contains details about iSCSI objects.<br><br>It includes the following information:<br>• iSCSI authentication profile<br>• iSCSI protocol profile |
| CISCO-UNIFIED-COMPUTING-LICENSE-MIB | This package contains the licensing information.<br><br>It includes the following information:<br>• Port licensing<br>• Licenses<br>• Objects to download and install licenses |
| CISCO-UNIFIED-COMPUTING-LLDP-MIB | This package contains details about the Link Layer Discovery Protocol object.<br><br>It includes information on the objects that provide inventory information about peer links through LLDP. |

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| CISCO-UNIFIED-COMPUTING-LS-MIB | This package contains the top-level objects for Cisco UCS service profiles.<br><br>It includes the following information:<br><br>• Cisco UCS service profile<br><br>• Binding between a service profile and a blade or rack mount server<br><br>• Requirements that a physical server must satisfy in order to be associated with a service profile |
| CISCO-UNIFIED-COMPUTING-LSBOOT-MIB | This package contains information about the boot objects for Cisco UCS service profiles.<br><br>It contains the following information:<br><br>• Service profile boot policy<br><br>• SAN and LAN boot images<br><br>• Virtual Media<br><br>• iSCSI boot policy |
| CISCO-UNIFIED-COMPUTING-LSMAINT-MIB | This package contains details aboutCisco UCS service profile maintenance policy.<br><br>It includes information about the Cisco UCS service profile maintenance policy, which specifies what you can do when a requested change requires a server reboot. |
| CISCO-UNIFIED-COMPUTING-MACPOOL-MIB | This package contains details about pools of MAC addresses. Pools of MAC addresses are used to assign virtual MAC addresses to service profile vNICs.<br><br>It includes the following information:<br><br>• Pools of MAC addresses<br><br>• Pools of MAC addresses<br><br>• MAC addresses which can be assigned to service profile vNICs |

| MIB | Purpose |
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| CISCO-UNIFIED-COMPUTING-MAPPINGS-MIB | This package contains information about the relationships between the Cisco UCS Manager Managed Objects.<br><br>It includes the following information:<br><br>• The cucsMappingsMoContainmentTable provides containment information to navigate from a parent managed object to the child managed objects.<br><br>• The cucsMappingsMoInverseContainmentTable provides information to navigate from a child managed object to the parent managed object.<br><br>• The cucsMappingsDnToOidTable provides a mapping from the Managed Object Distinguised Name to the SNMP OID. |
| CISCO-UNIFIED-COMPUTING-MEMORY-MIB | This package contains details about memory units that are installed in blade and rack-mount servers.<br><br>It includes the following information:<br><br>• Memory arrays<br><br>• Memory units<br><br>• Memory qualification<br><br>• Statistics |
| CISCO-UNIFIED-COMPUTING-MGMT-MIB | This package contains Cisco UCS provisioning details.<br><br>It includes the following information:<br><br>• Objects to perform backups and imports of Cisco UCS Management configuration<br><br>• Access policies<br><br>• Process Monitor entries |
| CISCO-UNIFIED-COMPUTING-MIB | This package defines the Cisco UCS Manager Managed Object |
| CISCO-UNIFIED-COMPUTING-NETWORK-MIB | This package provides information about Cisco UCS fabric interconnects.<br><br>It includes the following information:<br><br>• Objects to specify the IP addresses of the Cisco UCS fabric interconnects<br><br>• Network statistics |

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| CISCO-UNIFIED-COMPUTING-NOTIFS-MIB | This MIB contains the definitions of the SNMP notifications that are supported byCisco UCS Manager.<br><br>The following notifications are defined:<br>• UCS Manager Fault raised<br>• UCS Manager Fault cleared |
| CISCO-UNIFIED-COMPUTING-NWCTRL-MIB | This package provides information about network control policies. |
| CISCO-UNIFIED-COMPUTING-ORG-MIB | This package provides information about the organizational hierarchy in the Cisco UCS Manager Management Information Tree. |
| CISCO-UNIFIED-COMPUTING-OS-MIB | This package contains guest OS agent details.<br><br>It includes the following information:<br>• Guest OS instance<br>• Guest OS agent |
| CISCO-UNIFIED-COMPUTING-PCI-MIB | This package contains details about inventory PCI cards.<br><br>It includes the following information:<br>• Inventory PCI card<br>• Equipment slot |
| CISCO-UNIFIED-COMPUTING-PKI-MIB | This package contains details about Public Key Infrastructure (PKI) objects.<br><br>It includes the following information:<br>• Certificate Requests<br>• Key Ring |
| CISCO-UNIFIED-COMPUTING-PORT-MIB | This package provides information about physical ports on a fabric interconnect and the port groups on the fabric interconnect.<br><br>It includes the following information:<br>• Port groups<br>• Abstract objects for physical ports on a fabric interconnect<br>• Port Trust mode |

| MIB | Purpose |
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| CISCO-UNIFIED-COMPUTING-POWER-MIB | This package contains details about chassis power capping policies and statistics.<br><br>It includes the following information:<br><br>• Chassis power capping<br><br>• Chassis power statistics |
| CISCO-UNIFIED-COMPUTING-PROC-MIB | This package contains details about the internal components of Cisco UCS Manager.<br><br>It includes the following information:<br><br>• Statistics about Cisco Cisco UCS Manager transactions<br><br>• Information about Cisco Cisco UCS Manager processes |
| CISCO-UNIFIED-COMPUTING-PROCESSOR-MIB | This package provides information about Central Processing Units (CPUs) that can be installed on Cisco UCS servers.<br><br>It includes the following information:<br><br>• CPU characteristics<br><br>• CPU statistics |
| CISCO-UNIFIED-COMPUTING-QOSCLASS-MIB | This package provides information about QoS classes. |
| CISCO-UNIFIED-COMPUTING-QUERYRESULT-MIB | |
| CISCO-UNIFIED-COMPUTING-SOL-MIB | This package provides information about the Serial Over LAN (SOL) policies. |
| CISCO-UNIFIED-COMPUTING-STATS-MIB | This package contains details about statistics.<br><br>It includes the following information:<br><br>• Objects to specify statistics collection<br><br>• Objects to specify threshold policies |
| CISCO-UNIFIED-COMPUTING-STORAGE-MIB | This package contains details about storage elements that can be installed or accessed from a Cisco UCS server.<br><br>It includes following information:<br><br>• Local disks<br><br>• Storage controllers<br><br>• Storage enclosures<br><br>• LUNs<br><br>• RAID batteries |

| MIB | Purpose |
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| CISCO-UNIFIED-COMPUTING-SW-MIB | This package contains details about how the system should be configured. Objects in this package are created implicitly by the system based on user-specified data from the "fabric" package. For example, the "fabric" package may specify high-level fabric policies, and the "sw" package may specify individual VLAN membership for each physical port.<br><br>It includes the following information:<br><br>• VLANs<br><br>• VSANs<br><br>• VLAN membership<br><br>• Ethernet and Fibre Channel ports |
| CISCO-UNIFIED-COMPUTING-SYSDEBUG-MIB | This package provides information to help troubleshoot Cisco UCS.<br><br>It includes the following information:<br><br>• Objects for accessing and exporting core files<br><br>• Backup behavior<br><br>• Log policies<br><br>• Tech support file repository |
| CISCO-UNIFIED-COMPUTING-SYSFILE-MIB | This package provides information to manage the import or export of system files.<br><br>It includes abstract classes that support the import and export of Cisco UCS Manager files. |
| CISCO-UNIFIED-COMPUTING-TC-MIB | This MIB contains all the SNMP textual conventions that are used in other Cisco UCS Manager MIBs. |
| CISCO-UNIFIED-COMPUTING-TOP-MIB | This package contains the definition of the root object in the Cisco UCS management information tree.<br><br>It includes the definition of the Cisco UCS root objects in the Manager Information Tree. |
| CISCO-UNIFIED-COMPUTING-TRIG-MIB | This package contains information to manage scheduled and triggered activities.<br><br>It includes the following objects:<br><br>• Objects to schedule activities<br><br>• Objects to monitor activities that have been scheduled<br><br>• Objects to track activities that require user acknowledgment |

| MIB | Purpose |
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| CISCO-UNIFIED-COMPUTING-UUIDPOOL-MIB | This package contains details about the pools of UUID identifiers. Pools of UUID identifiers are used to assign virtual UUIDs to service profiles.<br><br>It includes the following information:<br><br>• Pools of UUID identifiers<br><br>• Block of UUID identifiers<br><br>• UUID identifiers, which can be assigned to service profiles |
| CISCO-UNIFIED-COMPUTING-VM-MIB | This package contains details specific to the inventory and monitoring of virtual machines. Cisco UCS Manager keeps track of virtual machines if the VM vNIC is provided by UCS.<br><br>It includes the following information:<br><br>• Virtual machines<br><br>• Virtual machines NICs |
| CISCO-UNIFIED-COMPUTING-VNIC-MIB | This package contains details about Cisco UCS network adapters, including Ethernet vNICs and Fibre Channel vHBAs.<br><br>It includes the following information:<br><br>• Objects to model a Service Profile Ethernet vNIC<br><br>• Objects to model a Service Profile Fibre Ethernet cHBA<br><br>• Objects to model a Service Profile iSCSI NIC<br><br>• Policies that control the behavior of vNICs, iSCSI NICs and vHBAs.<br><br>• Policies for dynamic vNICSs<br><br>• Boot targets |