



Cisco Unity Express SNMP MIB Support

Cisco Unity Express (CUE) integrates an SNMP agent and SNMP MIBs to monitor the health and to conduct performance monitoring, data collection, and trap management for Cisco Unity Express voice-mail and auto-attendant applications. Cisco Unity Express provides a voice-mail and auto-attendant solution for small branch offices, which typically have less than 200 users.

Cisco Unity Express functionality is provided by a network management Advanced Integration Module (AIM) card that is installed inside a router. The AIM allows the Cisco Unity Express functionality to be quickly added to supported routers. To operate, the AIM needs only IP connectivity and power from the router. CUE functionality is also supported on a network module (CUE-NM) and on the extended capacity network module (CUE-NM-EC).

By configuring SNMP to send notifications to one or more monitoring computers, the network management system (NMS) application can monitor multiple CUEs. Because notifications are event driven, they cause much less network traffic than using the SNMP GET operation repeatedly to poll a population of CUEs. The SNMP management interface provides visibility into the system through SNMP GET operations and sends SNMP v2c notifications to the NMS application when events occur.

Feature History of the Cisco CUE MIB Feature

Release	Modification
CUE 2.2	This feature was introduced.

Finding Support Information for Platforms and Cisco IOS Software Images

Use Cisco Feature Navigator to find information about platform support and Cisco IOS software image support. Access Cisco Feature Navigator at <http://www.cisco.com/go/fn>. You must have an account on Cisco.com. If you do not have an account or have forgotten your username or password, click **Cancel** at the login dialog box and follow the instructions that appear.

Contents

- [Prerequisites for the CISCO-UNITY-EXPRESS-MIB, page 1-2](#)
- [Restrictions for the CISCO-UNITY-EXPRESS-MIB, page 1-2](#)
- [Information About the CISCO-UNITY-EXPRESS-MIB, page 1-2](#)
- [CISCO-UNITY-EXPRESS-MIB Objects, page 1-5](#)
- [Cisco CUE MIB Object Groups, page 1-5](#)
- [Cisco CUE MIB Alerts, page 1-10](#)

- [How to Use the CISCO-UNITY-EXPRESS-MIB, page 1-11](#)
- [Additional References, page 1-14](#)
- [Command Reference, page 1-16](#)
- [Glossary, page 1-16](#)

Prerequisites for the CISCO-UNITY-EXPRESS-MIB

Users of the CUE MIB should ensure the following prerequisites are met.

- Administrators of the CUE must be familiar with the Cisco command-line interface (CLI).
- Use a MIB browser to interact with the CISCO-UNITY-EXPRESS-MIB.
- Upload the CISCO-UNITY-EXPRESS-MIB to the NMS.
- Ensure the SNMP Agent provides SNMP v1 and SNMPv2c compliance.

Restrictions for the CISCO-UNITY-EXPRESS-MIB

CISCO-UNITY-EXPRESS-MIB support is restricted to the following Cisco routers in Cisco Unity Express Release 2.2.

- 2600XM
- 2691
- 2801
- 2811
- 2821
- 2851
- 3725
- 3745
- 3825
- 3845

Information About the CISCO-UNITY-EXPRESS-MIB

The CUE MIB provides configuration information and usage of the Cisco Unity voice mail system:

CISCO-UNITY-EXPRESS-MIB Structure

The CISCO-UNITY-EXPRESS-MIB is uniquely identified within the Cisco management (9) group by the number 420. Therefore, the CISCO-UNITY-EXPRESS-MIB is 1.3.6.1.4.1.9.9.420.

Objects in the CISCO-UNITY-EXPRESS-MIB can be identified by either of the following methods.

- The object identifier—1.3.6.1.4.1.9.9.420.<Cisco Unity Express MIB-variable>

or

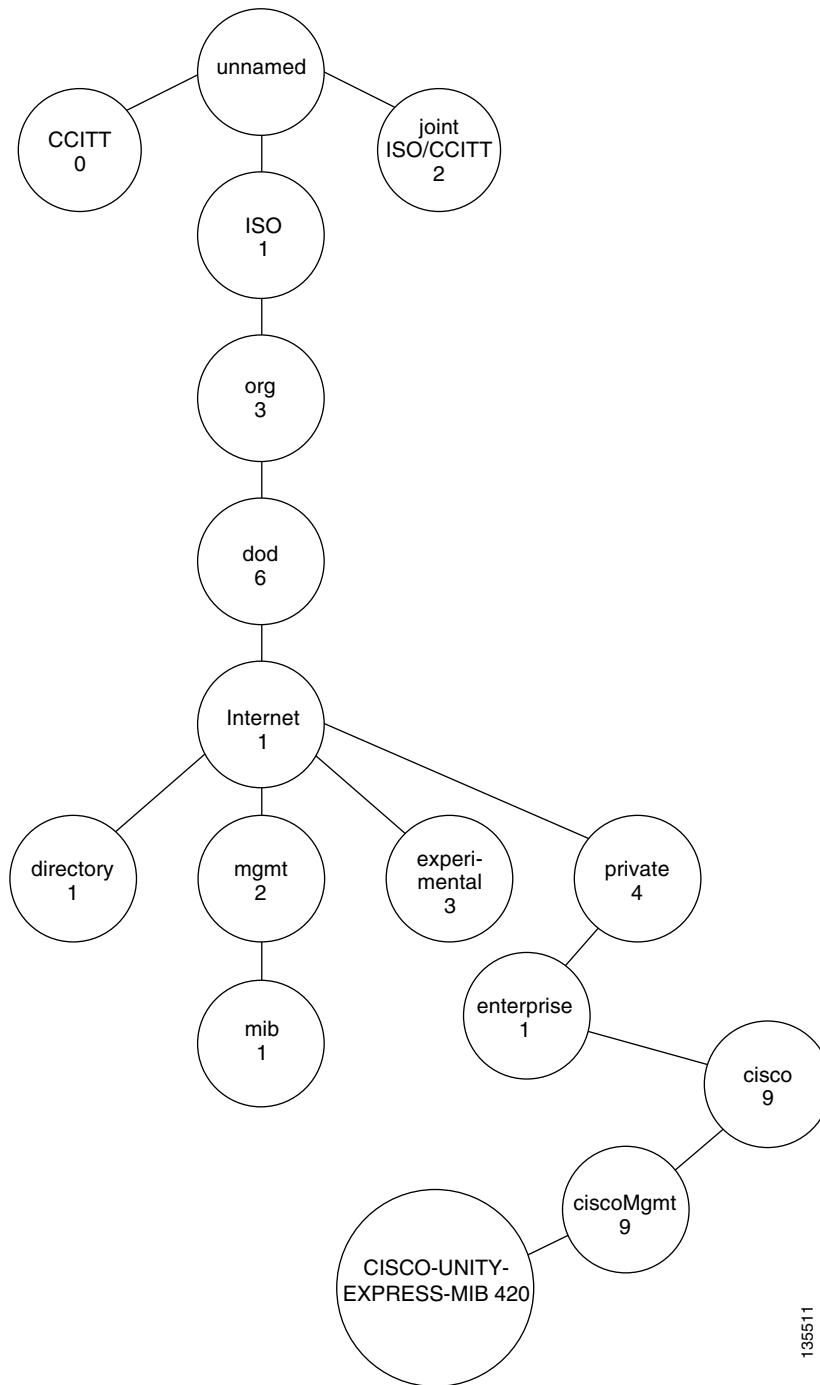
- The object name—iso(1).org(3).dod(6).internet(1).private(4).enterprise(1).cisco(9).ciscoMgmt(9).CISCO-UNITY-EXPRESS-MIB(420).<Cisco Unity Express MIB-variable>

Figure 1-1 shows the position of the CISCO-UNITY-EXPRESS-MIB in the Internet MIB hierarchy. The CISCO-UNITY-EXPRESS-MIB is part of the Cisco management (9) group, which is presented by private.enterprise.cisco.ciscoMgmt. And is shown graphically in Figure 1-1.

The CISCO-UNITY-EXPRESS-MIB uses definitions from the following MIBs:

- CISCO-SMI
- INET-ADDRESS-MIB
- SNMPv2-CONF
- SNMP-FRAMEWORK-MIB
- SNMPv2-SMI
- SNMPv2-TC

Figure 1-1 CISCO-UNITY-EXPRESS-MIB MIB Tree Structure



The CISCO-UNITY-EXPRESS-MIB structure is divided into the following groups:

- ciscoUnityExpressMIBNotifs
- ciscoUnityExpressMIBObjects
- ciscoUnityExpressMIBConform

The ciscoUnityExpressMIBObjects group is further divided into the following subgroups:

- cueSystem
- cueUsage
- cueSecurity
- cueNotif
- cueBackupRestore

CISCO-UNITY-EXPRESS-MIB Objects

This section contains the Cisco Unity Express MIB object. [Table 1-1](#) lists the CISCO-UNITY-EXPRESS-MIB objects, the maximum access for each, and their descriptions. [Table 1-5 on page 1-10](#) lists the CISCO-UNITY-EXPRESS-MIB object IDs (OIDs).

Table 1-1 CISCO-UNITY-EXPRESS-MIB Groupings and Objects

Group	Object	Max Access	Description
—	CISCO-UNITY-EXPRESS-MIB DEFINITIONS	—	This MIB allows management of Cisco Unity Express (CUE) features in Cisco IOS Release 12.4(2)T. The MIB Module for the management of the CUE service. CUE is a voice-mail service that runs in a Cisco router. CUE accepts connections from Cisco CallManager Express (CCME), or from Cisco CallManager (CCM).
—	-- CUE MIB Groups	—	The following are the CISCO-UNITY-EXPRESS-MIB groups: ciscoUnityExpressMIBNotifs ciscoUnityExpressMIBObjects ciscoUnityExpressMIBConform
—	-- CUE MIB Objects	—	The following are the CISCO-UNITY-EXPRESS-MIB objects: cueSystem cueUsage cueSecurity cueNotif cueBackupRestore

Cisco CUE MIB Object Groups

[Table 1-2](#) lists the CISCO-UNITY-EXPRESS-MIB object name and the corresponding object ID mapping.

There are three CISCO-UNITY-EXPRESS-MIB groups listed in [Table 1-2](#):

- ciscoUnityExpressMIBNotifs
- ciscoUnityExpressMIBObjects
- ciscoUnityExpressMIBConform

Table 1-2 CISCO-UNITY-EXPRESS-MIB Object ID Mapping

Object Name	Object ID
ciscoUnityExpressMIB	1.3.6.1.4.1.9.9.420
ciscoUnityExpressMIBNotifs	1.3.6.1.4.1.9.9.420.0
ciscoUnityExpressApplAlert	1.3.6.1.4.1.9.9.420.0.1
ciscoUnityExpressStorageAlert	1.3.6.1.4.1.9.9.420.0.2
ciscoUnityExpressSecurityAlert	1.3.6.1.4.1.9.9.420.0.3
ciscoUnityExpressCallMgrAlert	1.3.6.1.4.1.9.9.420.0.4
ciscoUnityExpressBackupAlert	1.3.6.1.4.1.9.9.420.0.6
ciscoUnityExpressNTPAlert	1.3.6.1.4.1.9.9.420.0.7
ciscoUnityExpressMIBObjects	1.3.6.1.4.1.9.9.420.1
cueSystem	1.3.6.1.4.1.9.9.420.1.1
cueSystemControl	1.3.6.1.4.1.9.9.420.1.1.1
cueShutdownRequest	1.3.6.1.4.1.9.9.420.1.1.1.1
cueSystemScalars	1.3.6.1.4.1.9.9.420.1.1.2
cueAVTNumber	1.3.6.1.4.1.9.9.420.1.1.2.1
cueVoicemailNumber	1.3.6.1.4.1.9.9.420.1.1.2.2
cueAANumber	1.3.6.1.4.1.9.9.420.1.1.2.3
cueHardwareModuleType	1.3.6.1.4.1.9.9.420.1.1.2.4
cueCallControlAgentType	1.3.6.1.4.1.9.9.420.1.1.2.5
cueSIPInfo	1.3.6.1.4.1.9.9.420.1.1.3
cueSIPGatewayName	1.3.6.1.4.1.9.9.420.1.1.3.1
cueSIPGatewayIPType	1.3.6.1.4.1.9.9.420.1.1.3.2
cueSIPGatewayIP	1.3.6.1.4.1.9.9.420.1.1.3.3
cueSIPPort	1.3.6.1.4.1.9.9.420.1.1.3.4
cueJTAPIInfo	1.3.6.1.4.1.9.9.420.1.1.4
cueJTAPIServerTable	1.3.6.1.4.1.9.9.420.1.1.4.1
cueJTAPIServerEntry	1.3.6.1.4.1.9.9.420.1.1.4.1.1
cueJTAPIServerIndex	1.3.6.1.4.1.9.9.420.1.1.4.1.1.1
cueJTAPIServerName	1.3.6.1.4.1.9.9.420.1.1.4.1.1.2
cueJTAPIServerIPType	1.3.6.1.4.1.9.9.420.1.1.4.1.1.3
cueJTAPIServerIP	1.3.6.1.4.1.9.9.420.1.1.4.1.1.4
cueJTAPISubsystemState	1.3.6.1.4.1.9.9.420.1.1.4.2
cueJTAPIUsername	1.3.6.1.4.1.9.9.420.1.1.4.3
cueJTAPISoftwareVersion	1.3.6.1.4.1.9.9.420.1.1.4.4
cueJTAPIPortsRegistered	1.3.6.1.4.1.9.9.420.1.1.4.5
cueSystemDefaults	1.3.6.1.4.1.9.9.420.1.1.5
cueDefaultMailboxSize	1.3.6.1.4.1.9.9.420.1.1.5.1

Table 1-2 CISCO-UNITY-EXPRESS-MIB Object ID Mapping (continued)

Object Name	Object ID
cueDefaultGreetingSize	1.3.6.1.4.1.9.9.420.1.1.5.2
cueDefaultMessageSizeMax	1.3.6.1.4.1.9.9.420.1.1.5.3
cueDefaultMessageExpiryTime	1.3.6.1.4.1.9.9.420.1.1.5.4
cueUsage	1.3.6.1.4.1.9.9.420.1.2
cueUsageScalars	1.3.6.1.4.1.9.9.420.1.2.1
cueLicensedPortsMax	1.3.6.1.4.1.9.9.420.1.2.1.1
cueActiveCalls	1.3.6.1.4.1.9.9.420.1.2.1.2
cuePersonalMailboxes	1.3.6.1.4.1.9.9.420.1.2.1.3
cueGeneralDeliveryMailboxes	1.3.6.1.4.1.9.9.420.1.2.1.4
cueOrphanedMailboxes	1.3.6.1.4.1.9.9.420.1.2.1.5
cueCapacityOfVoicemail	1.3.6.1.4.1.9.9.420.1.2.1.6
cueAllocatedCapacity	1.3.6.1.4.1.9.9.420.1.2.1.7
cueTotalTimeUsed	1.3.6.1.4.1.9.9.420.1.2.1.8
cuePercentTimeUsed	1.3.6.1.4.1.9.9.420.1.2.1.9
cueMessageTimeUsed	1.3.6.1.4.1.9.9.420.1.2.1.10
cueMessageCount	1.3.6.1.4.1.9.9.420.1.2.1.11
cueAverageMessageLength	1.3.6.1.4.1.9.9.420.1.2.1.12
cueGreetingTimeUsed	1.3.6.1.4.1.9.9.420.1.2.1.13
cueGreetingCount	1.3.6.1.4.1.9.9.420.1.2.1.14
cueAverageGreetingLength	1.3.6.1.4.1.9.9.420.1.2.1.15
cueMessagesLeft	1.3.6.1.4.1.9.9.420.1.2.1.16
cueMessagesRetrieved	1.3.6.1.4.1.9.9.420.1.2.1.17
cueMessagesDeleted	1.3.6.1.4.1.9.9.420.1.2.1.18
cueLicensedMailboxesMax	1.3.6.1.4.1.9.9.420.1.2.1.19
cueMailboxesAbove90PercentFull	1.3.6.1.4.1.9.9.420.1.2.1.20
cueMboxTable	1.3.6.1.4.1.9.9.420.1.2.2
cueMboxEntry	1.3.6.1.4.1.9.9.420.1.2.2.1
cueMboxIndex	1.3.6.1.4.1.9.9.420.1.2.2.1.1
cueMboxOwner	1.3.6.1.4.1.9.9.420.1.2.2.1.2
cueMboxPrimaryExtension	1.3.6.1.4.1.9.9.420.1.2.2.1.3
cueMboxType	1.3.6.1.4.1.9.9.420.1.2.2.1.4
cueMboxDescription	1.3.6.1.4.1.9.9.420.1.2.2.1.5
cueMboxSize	1.3.6.1.4.1.9.9.420.1.2.2.1.6
cueMboxTimeUsed	1.3.6.1.4.1.9.9.420.1.2.2.1.7
cueMboxPercentTimeUsed	1.3.6.1.4.1.9.9.420.1.2.2.1.8
cueMboxNumberOfMessages	1.3.6.1.4.1.9.9.420.1.2.2.1.9

Table 1-2 CISCO-UNITY-EXPRESS-MIB Object ID Mapping (continued)

Object Name	Object ID
cueMboxNumberOfNewMessages	1.3.6.1.4.1.9.9.420.1.2.2.1.10
cueMboxNumberOfSavedMessages	1.3.6.1.4.1.9.9.420.1.2.2.1.11
cueMboxMessageSizeMax	1.3.6.1.4.1.9.9.420.1.2.2.1.12
cueMboxMessageExpiryTime	1.3.6.1.4.1.9.9.420.1.2.2.1.13
cueMboxPlayTutorial	1.3.6.1.4.1.9.9.420.1.2.2.1.14
cueMboxGreetingType	1.3.6.1.4.1.9.9.420.1.2.2.1.15
cueMboxEnabled	1.3.6.1.4.1.9.9.420.1.2.2.1.16
cueMboxBusy	1.3.6.1.4.1.9.9.420.1.2.2.1.17
cueMboxMWIState	1.3.6.1.4.1.9.9.420.1.2.2.1.18
cueSecurity	1.3.6.1.4.1.9.9.420.1.3
cueLoginInfo	1.3.6.1.4.1.9.9.420.1.3.1
cueLoginAttempts	1.3.6.1.4.1.9.9.420.1.3.1.1
cueLoginUsernameFailures	1.3.6.1.4.1.9.9.420.1.3.1.2
cueLoginPasswordFailures	1.3.6.1.4.1.9.9.420.1.3.1.3
cuePINInfo	1.3.6.1.4.1.9.9.420.1.3.2
cuePINAttempts	1.3.6.1.4.1.9.9.420.1.3.2.1
cuePINResets	1.3.6.1.4.1.9.9.420.1.3.2.2
cuePINUidFailures	1.3.6.1.4.1.9.9.420.1.3.2.3
cuePINPasswordFailures	1.3.6.1.4.1.9.9.420.1.3.2.4
cueNotif	1.3.6.1.4.1.9.9.420.1.4
cueNotifConfig	1.3.6.1.4.1.9.9.420.1.4.1
cueNotifEnable	1.3.6.1.4.1.9.9.420.1.4.1.1
cueNotifInfo	1.3.6.1.4.1.9.9.420.1.4.2
cueNotifSeverity	1.3.6.1.4.1.9.9.420.1.4.2.1
cueNotifDate	1.3.6.1.4.1.9.9.420.1.4.2.2
cueNotifDescription	1.3.6.1.4.1.9.9.420.1.4.2.3
cueNotifDetail	1.3.6.1.4.1.9.9.420.1.4.2.4
cueNotifSecurity	1.3.6.1.4.1.9.9.420.1.4.3
cueLoginUsernameThresh	1.3.6.1.4.1.9.9.420.1.4.3.1
cueLoginPasswordThresh	1.3.6.1.4.1.9.9.420.1.4.3.2
cuePINUidThresh	1.3.6.1.4.1.9.9.420.1.4.3.3
cuePINPasswordThresh	1.3.6.1.4.1.9.9.420.1.4.3.4
cuePINResetThresh	1.3.6.1.4.1.9.9.420.1.4.3.5
cueBackupRestore	1.3.6.1.4.1.9.9.420.1.5
cueBRHistoryTable	1.3.6.1.4.1.9.9.420.1.5.1
cueBRHistoryEntry	1.3.6.1.4.1.9.9.420.1.5.1.1

Table 1-2 *CISCO-UNITY-EXPRESS-MIB Object ID Mapping (continued)*

Object Name	Object ID
cueBRHistoryIndex	1.3.6.1.4.1.9.9.420.1.5.1.1.1
cueBRHistoryOperation	1.3.6.1.4.1.9.9.420.1.5.1.1.2
cueBRHistoryDate	1.3.6.1.4.1.9.9.420.1.5.1.1.3
cueBRHistoryResult	1.3.6.1.4.1.9.9.420.1.5.1.1.4
ciscoUnityExpressMIBConform	1.3.6.1.4.1.9.9.420.2
ciscoUnityExpressMIBCompliances	1.3.6.1.4.1.9.9.420.2.1
ciscoUnityExpressMIBCompliance	1.3.6.1.4.1.9.9.420.2.1.1
ciscoUnityExpressMIBGroups	1.3.6.1.4.1.9.9.420.2.2
systemGroup	1.3.6.1.4.1.9.9.420.2.2.1
usageGroup	1.3.6.1.4.1.9.9.420.2.2.2
securityGroup	1.3.6.1.4.1.9.9.420.2.2.3
notifGroup	1.3.6.1.4.1.9.9.420.2.2.4
ciscoUnityExpressMIBNotificationsGroup	1.3.6.1.4.1.9.9.420.2.2.5
backupRestoreGroup	1.3.6.1.4.1.9.9.420.2.2.6

Table 1-3 *Cisco Unity Express MIB Groups*

Object Name	Object ID
ciscoUnityExpressMIBNotifs	1.3.6.1.4.1.9.9.420.0
ciscoUnityExpressMIBObjects	1.3.6.1.4.1.9.9.420.1
ciscoUnityExpressMIBConform	1.3.6.1.4.1.9.9.420.2

Table 1-4 *Cisco Unity Express MIB Notification Objects*

Object Name	Object ID
ciscoUnityExpressMIBNotifs	1.3.6.1.4.1.9.9.420.0
ciscoUnityExpressApplAlert	1.3.6.1.4.1.9.9.420.0.1
ciscoUnityExpressStorageAlert	1.3.6.1.4.1.9.9.420.0.2
ciscoUnityExpressCallMgrAlert	1.3.6.1.4.1.9.9.420.0.4
ciscoUnityExpressSecurityAlert	1.3.6.1.4.1.9.9.420.0.3
ciscoUnityExpressBackupAlert	1.3.6.1.4.1.9.9.420.0.6
ciscoUnityExpressNTPAlert	1.3.6.1.4.1.9.9.420.0.7

Table 1-5 Cisco Unity Express MIB Objects

Object Name	Object ID
ciscoUnityExpressMIBObjects	1.3.6.1.4.1.9.9.420.1
cueSystem	1.3.6.1.4.1.9.9.420.1.1
cueUsage	1.3.6.1.4.1.9.9.420.1.2
cueSecurity	1.3.6.1.4.1.9.9.420.1.3
cueNotif	1.3.6.1.4.1.9.9.420.1.4
cueBackupRestore	1.3.6.1.4.1.9.9.420.1.5

Table 1-6 Cisco Unity Express MIB Conformance Objects

Object Name	Object ID
ciscoUnityExpressMIBConform	1.3.6.1.4.1.9.9.420.2
ciscoUnityExpressMIBCompliances	1.3.6.1.4.1.9.9.420.2.1
ciscoUnityExpressMIBGroups	1.3.6.1.4.1.9.9.420.2.2

Cisco CUE MIB Alerts

Table 1-7 lists the CUE MIB alerts.

Table 1-7 CISCO-UNITY-EXPRESS-MIB Alerts

Trap Name	Severity	Date	Description	Detail
ciscoUnityExpressApplAlert	Info	<date>	Online Alert	<detail>
	Warning	<date>	Offline Alert	<detail>
	Info	<date>	Auto Attendant Enabled	<detail>
ciscoUnityExpressStorageAlert	Warning	<date>	Flash Wear Alert	<detail>
	Warning	<date>	Auto Attendant Disabled	<detail>
ciscoUnityExpressSecurityAlert	Warning	<date>	Login Security Alert	<detail>
	Warning	<date>	PIN Security Alert	<detail>
ciscoUnityExpressCallMgrAlert	Error	<date>	JTAPI Alert	<detail>
ciscoUnityExpressBackupAlert	Error	<date>	Backup Alert	<detail>
ciscoUnityExpressNTPAlert	Warning	<date>	NTP Alert	<detail>

Using Alerts

Using alerts allows more efficient use of network resources by reducing the number of messages sent and received by the NMS.

How to Use the CISCO-UNITY-EXPRESS-MIB

The following sections contain information regarding configuring and using the CISCO-UNITY-EXPRESS-MIB.

**Note**

See the *Cisco Unity Express System Monitoring Guide Release 2.2* for a list of CLI commands for use with Cisco Unity Express.

The **snmp-server community string** command provides access control for SNMPv1 and SNMPv2c but also continues to provide backward compatibility between different versions. The previous version of this command did not have an option to create a community string that allows SNMP messages to execute a set operation on a MIB object. An **rw** or **ro** option has been introduced for this purpose. The SNMP agent is disabled by default, and a community string is not configured.

The following example enables the SNMP agent and assigns the community string *comaccess* to SNMP:

```
507-1(config)# snmp-server community comaccess ro
```

The preceding example defines a community string *comaccess* used as a password for authentication when you access the SNMP agent. Any SNMP message sent to the SNMP agent must have the “Community Name” field of the message match the community string defined here in order to be authenticated. Entering a community string enables the SNMP agent.

The following example disables the SNMP agent and removes the previously defined community string.

```
507-1(config)# no snmp-server community comaccess ro
```

Locating the CISCO-UNITY-EXPRESS-MIB

To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL:

<http://tools.cisco.com/ITDIT/MIBS/servlet/index>

If Cisco MIB Locator does not support the MIB information that you need, you can also obtain a list of supported MIBs and download MIBs from the Cisco MIBs page at the following URL:

<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

To access Cisco MIB Locator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank e-mail to cco-locksmith@cisco.com. An automatic check will verify that your e-mail address is registered with Cisco.com. If the check is successful, account details with a new random password will be e-mailed to you. Qualified users can establish an account on Cisco.com by following the directions found at the following URL:

<http://tools.cisco.com/RPF/register/register.do>

Enabling the SNMP Agent

The SNMP agent for the CISCO-UNITY-EXPRESS-MIB is disabled by default.

To enable the SNMP agent for the CISCO-UNITY-EXPRESS-MIB, perform the following steps.

Prerequisites

Be sure the router platform is a supported router and the required MIBs are installed.

DETAILED STEPS

	Command or Action	Purpose
Step 1	telnet <ip> <port>, or session in from the router.	Telnet to the router identified by the specified IP address (represented as <i>xxx.xxx.xxx.xxx</i>).
Step 2	User name: Password:	Enter your user ID and password for the router.
Step 3	Router# service-module service-engine 1/0 session	Enters the CUE command environment.
Step 4	se-10-0-0-0# config terminal	Enters configuration terminal mode.
Step 5	se-10-0-0-0 <config>#> enable	Enters privileged EXEC mode.
Step 6	se-10-0-0-0 <config># snmp-server community <password> RO	Enables the read-only (RO) community string, where <password> represents the read-only community/password string.
Step 7	se-10-0-0-0 <config>#> snmp-server community <password> RW	Enables the read-write (RW) community string, where <password> represents the read-write community/password string.
Step 8	se-10-0-0-0 <config>#> write memory	Writes the modified configuration to NVRAM, permanently saving the settings.
Step 9	se-10-0-0-0 <config>#> exit	Exits global configuration mode and returns to privileged EXEC mode.

Verifying the Enabling of the SNMP Agent

To verify that the SNMP agent has been enabled on a given network device, perform the following steps.

DETAILED STEPS

- Step 1 Telnet to the target device.
- Step 2 Display the running configuration on the device and examine the output for any displayed SNMP information:



Note If your CUE system is large, using the show running config command can take several minutes to display the SNMP information. As an alternative, you can use the show snmp configuration command to display only SNMP-related configuration information.

```
Router# show running-config
.
.
.
snmp-server community public RO
snmp-server community private RW
.
.
.
```

Any “snmp-server” statement appearing in the output that takes the form shown before verifies that SNMP has been enabled on the specified device.

Or alternately, use the following show snmp command to verify the SNMP agent is enabled.

```
se-10-30-20-100> show snmp configuration
Contact: Kaiser Souza
Location: SanJose
Community 1 RO: public
Community 1 RW: cue
Traps: enabled
Host Community 1: 1.3.69.100 pop
Host Community 2: 10.30.25.100 oo
cueShutdownRequest: disabled
se-10-30-20-100>
```

Configuring the MIB Browser to Read MIB Values

For the MIB browser to read the MIB values, configure the CUE using the following CLI commands.

MIB Browser Configuration

For the MIB browser to read the CUE MIB values, the browser must be configured.

Prerequisites

Be sure the router platform is a supported router and the required MIBs are installed.

SUMMARY STEPS

1. enter password
2. end the configuration

DETAILED STEPS

	Command or Action	Purpose
Step 1	enter password Example: se-10-0-0-0 (config)# snmp-server community <password> RO	Allows the use of a MIB browser to read MIB values, you must configure the CUE using CLI. <ul style="list-style-type: none"> • Where <password> can be any password you choose.
Step 2	end configuration Example: se-10-0-0-0 (config)# end	Ends the configuration mode.

Configuring the MIB Browser to Write MIB Values

For the MIB browser to write the MIB values, configure the CUE using the following CLI commands.

MIB Browser Configuration

For the MIB browser to write the CUE MIB values, the browser must be configured.

Prerequisites

Be sure the router platform is a supported router and the required MIBs are installed.

SUMMARY STEPS

1. **enter password**
2. **end the configuration**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enter password Example: se-10-0-0-0 (config)# snmp-server community <password> RW	Allows the use of a MIB browser to write MIB values, you must configure the CUE using CLI. <ul style="list-style-type: none"> • Where <password> can be any password you choose.
Step 2	end oonfiguration Example: se-10-0-0-0 (config)# end	Ends the configuration mode.

What to Do Next

Begin monitoring your network.

Additional References

The following sections provide references related to the CISCO-UNITY-EXPRESS-MIB.

Related Documents

Related Topic	Document Title
List of CLI commands for use with CUE	<i>Cisco Unity Express System Monitoring Guide Release 2.2</i>

Related Topic	Document Title

Standards

Standard	Title
No new or modified standards are supported by this feature and support for existing standards has not been modified by this feature.	—

MIBs

MIB	MIBs Link
<ul style="list-style-type: none"> • CISCO-VOICE-CONNECTIVITY-MIB • CISCO-UNITY-EXPRESS-MIB • CISCO-PROCESS-MIB • IF-MIB • IP-MIB • SNMPv2-MIB • SYSAPPL-MIB 	<p>To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use the Cisco MIB Locator found at the following URL:</p> <p>http://www.cisco.com/go/mibs</p>

RFCs

RFC	Title
No new or modified RFCs are supported by this feature and support for existing standards has not been modified by this feature.	—

Technical Assistance

Description	Link
The Cisco Technical Support website contains thousands of pages of searchable technical content, including links to products, technologies, solutions, technical tips, and tools. Registered Cisco.com users can log in from this page to access even more content.	http://www.cisco.com/techsupport

Command Reference

See the *Cisco Unity Express System Monitoring Guide Release 2.2* for a list of new and modified CLI commands.

Glossary

AA—Auto Attendant.

AIM—Advanced Integration Module.

CCM—Cisco CallManager.

CCME—Cisco CallManager Express.

CLI—Command Line Interface.

CUE—Cisco Unity Express.

CUE-NM—Cisco Unity Express Network Module.

CUE-NM-EC—Cisco Unity Express extended capacity network module.

JTAPI—Java Telephony Application Programming Interface.

MIB—Management Information Base.

NMS—Network Management System.

SIP—Session Initiation Protocol.

SNMP—Simple Network Management Protocol.

**Note**

See [Internetworking Terms and Acronyms](#) for terms not included in this glossary.
