



APPENDIX **B**

Using Net-SNMP

The CDE110 servers that host VQE-S and VQE Tools use Net-SNMP, a third-party product, for Simple Network Management Protocol (SNMP) support for some basic, non-VQE system services. Net-SNMP offers a set of built-in MIBs for Linux platforms. This appendix provides information about using Net-SNMP on the Cisco CDE110 that hosts VQE-S and on the CDE110 that hosts VQE Tools.

Net-SNMP provides tools and libraries relating to the Simple Network Management Protocol including an extensible agent, an SNMP library, tools to request or set information from SNMP agents, and tools to generate and handle SNMP traps. For information on configuring and using Net-SNMP, see the Net-SNMP web site:

<http://www.net-snmp.com/docs/readmefiles.html>

Net-SNMP provides a set of built-in MIBs for Linux platforms, but no VQE-specific MIBs are included in the set. The built-in MIBs cover GETs and TRAPs for some areas of the Linux distribution, such as interface status and statistics, SNMP protocol-related counters, and host resources.

On the CDE110s that host VQE-S and VCPT, only the SNMPv2 client is supported. Also, configuration through the SNMP interface is disabled.

The sysDescr and sysObjectID objects in the SNMPv2-MIB identify a VQE system. The following values can be used to identify a CDE110 hosting VQE-S or VCPT:

- SNMPv2-MIB::sysDescr.0 = STRING: "Cisco VQE (Video Quality Experience) offers service providers a set of technologies and products associated with the delivery of IPTV video services."
- SNMPv2-MIB::sysObjectID.0 = OID: SNMPv2-SMI::enterprises.9.1.942

Table B-1 lists the standard MIBs that are supported on the CDE110s that host a VQE-S and a VCPT. For information on the supported MIBs, see the MIB area of the Net-SNMP web site:

<http://www.net-snmp.com/docs/mibs/>

Table B-1 **MIBs for CDE110s That Host VQE-S and VCPT**

MIB/Table	Description
SNMPv2-MIB/system	System contact, location, etc.
SNMPv2-MIB/snmp	SNMP protocol-related counters, including cold/warm start and authentication failure traps
SNMP-NOTIFICATION-MIB/snmpNotifyTable	Used to configure TRAP listeners
IF-MIB	Interface status and statistics
RMON/etherStatsTable	Statistics for each Ethernet interface

Table B-1 *MIBs for CDE110s That Host VQE-S and VCPT (continued)*

MIB/Table	Description
RMON/alarmTable	Stores configuration entries that each define a variable, polling period, and threshold parameters
RMON/eventTable	Controls the generation and notification of events from this device
HOST-RESOURCE-MIB (except hrPrinterTable)	System, memory, storage, device, processor, network, disc, partition, FS, and software version information about Linux host
INTEL-SERVER-BASEBOARD5	Supports the Intel Server Baseboard SNMP subagent for monitoring baseboard components, providing SNMP access to GET information for baseboard components, SET sensor thresholds and support events through the NOTIFICATION-TYPE construct. See: http://people.redhat.com/peterm/IPMI/sw/basebrd5.mib