CHAPTER 35

Physical Components

This chapter describes the level of support that Cisco ANA provides for basic physical components of network elements, as follows:

Information Model Objects (IMOs)

This section describes the following IMOs:

Please see Part 1: Cisco VNEs in this guide for information about which devices support the various technologies.

Chassis

The Chassis object represents an equipment chassis. Its Contained Equipment Holders attribute binds it to other equipment holder objects, such as a Shelf.

Table 35-1 Chassis (IChassis)

Attribute Name	Attribute Description	Scheme	Polling Interval
Description	Chassis description	Any	Configuration
Equipment Holder Type	Equipment holder type (*Chassis*)	Any	Configuration
Contained Equipment Holders	Contained equipment holders	Any	Configuration
Contained Equipments	Contained equipment	Any	Configuration
Serial Number	Serial number of the chassis	Any	Configuration
Flash Device	Flash device	Any	Configuration

Shelf

The Shelf object represents a shelf. Its Contained Equipment Holders and Contained Equipments attributes bind it to other equipment holders and equipment objects it contains.

Table 35-2 Shelf (IShelf)

Attribute Name	Attribute Description	Scheme	Polling Interval
Description	Chassis description	Any	Configuration
Status	Shelf status	Any	Configuration
Equipment Holder Type	Equipment holder type (*Shelf*)	Any	Configuration
Contained Equipment Holders	Contained equipment holders	Any	Configuration
Contained Equipments	Contained equipment	Any	Configuration
Serial Number	Serial number of the shelf	Any	Configuration

Module

The Module object represents a module or board. Its Contained Equipment Holders and supported Physical Termination Points attributes bind it to other equipment holders (subslots) and supported physical termination points (Port Connectors) objects it may contain.

Table 35-3 Module (IModule)

Attribute Name	Attribute Description	Scheme	Polling Interval
Module Name	Module name	Any	Configuration
Module Description	Module description	Any	Configuration
Software Version	Software version	Any	Configuration
Operational Status	Operational status (*Unknown, OK, Warning, Minor, Major, Critical, UnManaged, Enabled, Disabled, Information, Cleaning, Standby*)	Any	Configuration
Hardware Type and Version	Hardware type and version	Any	Configuration
Managed IP Address	Managed IP address	Any	Configuration
Redundant Equipment	Redundant equipment number	Any	Configuration
Configured Redundancy	Configured redundancy (*Null, Working, Protecting, None*)	Any	Configuration
Redundancy Status	Redundancy status (*Null, Active, Standby, None*)	Any	Configuration
Operational Status Last Change	Date of last operational status change	Any	Configuration
Contained Equipment Holders	Contained equipment holders	Any	Configuration
Supported Physical Termination Points	Supported physical termination points	Any	Configuration
Serial Number	Serial number of the module	Any	Configuration

Table 35-3 Module (IModule) (continued)

Attribute Name	Attribute Description	Scheme	Polling Interval
Slots Number	Number of slots in the module	Any	Configuration
CGN Service	Reference to the CGN service that is associated with this module.	IpCore	Configuration

Power Supply

The Power Supply object represents a power supply. Its Contained Equipment Holders attribute binds it to other equipment holder objects it may contain.

Table 35-4 Power Supply (IPowerSuply)

Attribute Name	Attribute Description	Scheme	Polling Interval
Operational Status	Operational status (*Unknown, OK, Warning, Minor, Major, Critical, UnManaged, Enabled, Disabled, Information, Cleaning, Standby*)	Any	Status
Hardware Type and Version	Hardware type and version	Any	Configuration
Management IP Address	Management IP address	Any	Configuration
Redundant Equipment	Redundant equipment number	Any	Configuration
Configured Redundancy	Configured redundancy (*Null, Working, Protecting, None*)	Any	Configuration
Redundancy Status	Redundancy status (*Null, Active, Standby, None*)	Any	Configuration
Operational Status Last Change	Date of last operational status change	Any	Configuration
Contained Equipment Holders	Contained equipment holders	Any	Configuration

Port Connector

The Port Connector object represents a port connector physical termination point. It is accessed by the Module containing it.

Table 35-5 Port Connector (IPortConnector)

Attribute Name	Attribute Description	Scheme	Polling Interval
Location	Port connector location	Any	Configuration
Alias	Port alias	Any	Configuration
Type	Port connector type (*Unknown, BNC, RJ11, RJ45, Fiber Optic, RJ48, Fiber Optic FC, Fiber Optic SC, Fiber Optic ST, Fiber Optic LC, Internal, Backplane, Fiber Optics MT RJ, DB 15 Pin, SMB, DB 60 Pin, DB 50 Pin, 34-pin Winchester, Generic, DB 9 Pin*)	Any	Configuration
Pluggable Port State	A port may be fixed or may have a pluggable transceiver.	Any	Configuration

Table 35-5 Port Connector (IPortConnector) (continued)

Attribute Name	Attribute Description	Scheme	Polling Interval
Port IPs	Represents information associated with a specific L2/ L3 subinterface, specifically, the set of L2/L3 sub interfaces that are configured on the physical port.		
Status	The status of a port is maintained in the AdminStatus and OperStatus in the IPhysicalLayer IMO, representing the port physical layer. In addition, a status property is maintained in the IPortConnector IMO which represents the combination of the Admin and Oper status, as follows: Admin Status: Up Oper Status: Up Status: OK Admin Status: Up Oper Status: Down Status: MAJOR Admin Status: Down Oper Status: Down Status: DISABLED		
Sub Ports	Subconnection termination points (currently being used only for Lucent SONET/SDH equipment)	Any	Configuration
Supporting Equipment	Supporting equipment in which this port connector resides	Any	Configuration
Contained Connection Termination Points	Bound connection termination points	Any	Configuration

Service Alarms

The following alarms are supported for this technology:

- Card Out, page 41-14
- Card Down, page 41-14