



# CHAPTER 17

## Physical Equipment

This chapter describes the level of support that Cisco ANA provides for physical equipment, as follows:

- [Inventory and Information Model Objects \(IMOs\), page 17-1](#)
- [Service Alarms, page 17-4](#)

## Inventory and Information Model Objects (IMOs)

This section includes the following tables:

- [Chassis \(IChassis\)](#)
- [Shelf \(IShelf\)](#)
- [Module/Board \(IModule\)](#)
- [Power Supply \(IPowerSupply\)](#)
- [Port Connector \(IPortConnector\)](#)

## Chassis

The following [Chassis](#) object describes a chassis equipment holder, which is bound by its Contained Equipment Holders attribute to other equipment holders such as shelves and slots.

**Table 17-1**      *Chassis (IChassis)*

| Attribute Name              | Attribute Description                    |
|-----------------------------|------------------------------------------|
| Description                 | Chassis description                      |
| Equipment Holder Type       | Equipment holder type ( <i>Chassis</i> ) |
| Contained Equipment Holders | Contained equipment holders              |
| Contained Equipments        | Contained equipment                      |

## Shelf

The following [Shelf](#) object describes a shelf equipment holder, which is bound by its Contained Equipment Holders and Contained Equipments attributes to other equipment holders and equipments objects it contains respectively.

**Table 17-2 Shelf (IShelf)**

| Attribute Name              | Attribute Description                  |
|-----------------------------|----------------------------------------|
| Description                 | Chassis description                    |
| Status                      | Shelf status                           |
| Equipment Holder Type       | Equipment holder type ( <i>Shelf</i> ) |
| Contained Equipment Holders | Contained equipment holders            |
| Contained Equipments        | Contained equipment                    |

## Module

The following [Module](#) object describes a module/board equipment, which is bound by its Contained Equipment Holders and supported Physical Termination Points attributes to other equipment holders (sub slots) and supported physical Termination Points ([Port Connectors](#)) objects it contains respectively.

**Table 17-3 Module/Board (IModule)**

| Attribute Name                        | Attribute Description                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Module Name                           | Module name                                                                                                                              |
| Module Description                    | Module description                                                                                                                       |
| Software Version                      | Software version                                                                                                                         |
| Operational Status                    | Operational status ( <i>Unknown, OK, Warning, Minor, Major, Critical, UnManaged, Enabled, Disabled, Information, Cleaning, Standby</i> ) |
| Hardware Type and Version             | Hardware type and version                                                                                                                |
| Management IP Address                 | Management IP address                                                                                                                    |
| Redundant Equipment                   | Redundant equipment number                                                                                                               |
| Configured Redundancy                 | Configured redundancy ( <i>Null, Working, Protecting, None</i> )                                                                         |
| Redundancy Status                     | Redundancy status ( <i>Null, Active, Standby, None</i> )                                                                                 |
| Operational Status Last Change        | Date of last operational status change                                                                                                   |
| Contained Equipment Holders           | Contained equipment holders                                                                                                              |
| Supported Physical Termination Points | Supported physical termination points                                                                                                    |

## Power Supply

The following [Power Supply](#) object describes a power supply equipment, which is bound by its Contained Equipment Holders attributes to other equipment holders objects that it contains.

**Table 17-4** *Power Supply (IPowerSupply)*

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

## Port Connector

The following [Port Connector](#) object describes a port connector physical termination point, which is being accessed by the [Module](#) containing it.

**Table 17-5** *Port Connector (IPortConnector)*

| Attribute Name                          | Attribute Description                                                                                                                                                                                                                                           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location                                | Port connector location                                                                                                                                                                                                                                         |
| Alias                                   | Port alias                                                                                                                                                                                                                                                      |
| Type                                    | Port connector type ( <i>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</i> ) |
| Sub Ports                               | Sub connection termination points (currently being used only for Lucent SONET/ SDH equipment)                                                                                                                                                                   |
| Supporting Equipment                    | Supporting equipment in which this port connector resides in                                                                                                                                                                                                    |
| Contained Connection Termination Points | Bound Connection Termination Points                                                                                                                                                                                                                             |

# Service Alarms

The following alarms are supported for this technology:

- Card Out/Card In
- Card Down/Card Up

**Note**

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For a detailed description of these alarms and for information about correlation see the *Cisco Active Network Abstraction Fault Management User Guide, 3.6*.

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