Cisco Device Fault Manager

Supports Management Module SM-CIS1012
Contents

INTRODUCTION 4
  Purpose and Scope ......................................................4
  Required Reading ......................................................4
  Supported Devices ......................................................5
  Supported Functions ....................................................5
  The SPECTRUM Model ..................................................6

MODEL INFORMATION VIEW 7

INDEX 8
Introduction

This section introduces the SPECTRUM Device Management documentation for the Cisco Device Fault Manager.

This introduction contains the following topics:

- **Purpose and Scope**
- **Required Reading**
- **Supported Devices** (Page 5)
- **The SPECTRUM Model** (Page 6)

**Purpose and Scope**

Use this document as a guide for managing the Cisco device described on Page 5 with SPECTRUM management module SM-CSI1012. This document describes the icons, menus, and views that enable you to remotely monitor, configure, and troubleshoot Cisco devices through software models in your SPECTRUM database.

Information specific to SM-CSI1012 is what is primarily included in this document. For general information about device management using SPECTRUM and explanations of SPECTRUM functionality and navigation techniques, refer to the topics listed under **Required Reading**.

**Required Reading**

To use this documentation effectively, you must be familiar with the information covered by the other SPECTRUM online documents listed below.

- **Getting Started with SPECTRUM for Operators**
- **Getting Started with SPECTRUM for Administrators**
- **How to Manage Your Network with SPECTRUM**
- **SPECTRUM Views**
- **SPECTRUM Menus**
- **SPECTRUM Icons**
- **SPECTRUM Software Release Notice**
Supported Devices

SPECTRUM management module SM-CIS1012 currently lets you model the Cisco Device Fault Management Support. The Device Fault Manager (DFM) is a CiscoWorks2000 module that monitors Cisco devices. This software analyzes faults and monitors performance of Cisco devices in a network.

Supported Functions

The Device Fault Management has two levels of functionality.

- It can be implemented so that DFM trap recognition is added to the GnSNMPDev model type. A system running CiscoWorks2000 DFM can be modeled as a GnSNMPDev, and show all DFM traps sent to the NMS. This solution can be immediately incorporated into any currently installed version of SPECTRUM.

- The second level of DFM functionality is that a DFM management module is created that will forward DFM traps to the appropriate devices. The DFM model type will replace the GnSNMPDev as the model for the CiscoWorks2000 machine. An inference handler (IH) will be attached that will read the DFM trap and send it on to the appropriate DFM Cisco device model.

Note:

There are major discrepancies between the DFM-MIB that is included with the Cisco DFM, and the actual MIB objects that are used by the Cisco DFM. This information is included in the CiscoWorks2000 DFM release notes.
The SPECTRUM Model

The model type for Cisco DFM devices is \texttt{Cisco_DFM}.

Modeling results in the creation of Device icons that represent the devices and Application icons that represent their supported applications.

\textbf{Figure 1: Device Icon}

The device-specific Icon Subviews menu option available for the Device icon is the \textit{Model Information View} (Page 7).

\textbf{Note:} Alarms for models of \texttt{Cisco_DFM} are \texttt{Disabled} by default. When alarms are disabled, loss of contact results in the model transitioning to a suppressed state which is reflected by the icon turning gray. This alarm functionality can be enabled globally by setting the \texttt{Enable_Alarms} attribute to \texttt{TRUE} in the database.
This section provides a brief overview of the Model Information view.

This view displays administrative information about the device.

Figure 2 shows the Model Information view for models of Cisco_DFM devices. The layout of this view is the same for all model types in SPECTRUM but some information will vary depending on the model it defines. Refer to the SPECTRUM Views documentation for a complete description of this view.
Index

A
Alarms for CMs 6

C
Cisco_DFM 6

D
Documentation 4

E
Enable_Alarms, attribute 6

G
Gray Condition 6

H
Hardware 5

I
Icons
Device 6

M
Model
Information 7
Types of 6