Readme for CiscoWorks Device Fault Manager 3.1.3 on Solaris

This Readme is for CiscoWorks Device Fault Manager (DFM) 3.1.3 on Solaris. It contains the following sections:

Description

DFM 3.1.3 is a collection of updated files necessary to provide support for the devices listed in New Device Support.

Caution You cannot remove DFM 3.1.3 after installing it; to return to your original configuration, you will have to uninstall and reinstall DFM. Therefore, you should save your configuration before installing DFM 3.1.3 as described in Installing DFM 3.1.3.

DFM 3.1.3 contains only the updated files, not a complete DFM image.

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Related Documentation

Information about DFM is available from Cisco.com. Go to http://www.cisco.com/en/US/products/sw/cscowork/ps2421/tsd_products_support_series_home.html.

Note You should print out and read this document before installing DFM 3.1.3.

New Device Support

Table 1 lists the devices supported in Device Fault Manager 3.1.3.

For a list of all devices supported in Device Fault Manager 3.1, see the common LMS SDT, *Supported Devices Tables for LMS 3.1* on Cisco.com. To access this, go to:

http://www.cisco.com/en/US/products/sw/cscowork/ps2425/products_device_support_tables_list.html

Table 1 Device Support Provided in DFM 3.1.3

Device Type	Devices/ Modules Supported	sysObjectID	Class
Cisco MWR 2900 Series Mobile Wireless Routers	Cisco MWR 2941-DC Mobile Wireless Router (MWR-2941-DC)	1.3.6.1.4.1.9.1.1014	Router
Data Center Switches	Cisco Nexus 5020 Switch (N5K-C5020P-BF)	1.3.6.1.4.1.9.12.3.1.3.719	Switch
	Cisco Nexus 7000 10-Slot Switch (N7K-C7010)	1.3.6.1.4.1.9.12.3.1.3.612	Switch
	Cisco Nexus 7000 18-Slot Switch (N7K-C7018)	1.3.6.1.4.1.9.12.3.1.3.777	Switch
Cisco ME 3400 Series Ethernet Access Switches	Cisco ME 3400-24TS-D Switch (ME3400-24TS-D)	1.3.6.1.4.1.9.1.737	Switch
	Cisco ME 3400EG-2CS-A Switch (ME-3400EG-2CS-A)	1.3.6.1.4.1.9.1.1007	Switch
	Cisco ME 3400EG-12CS-M Switch (ME-3400EG-12CS-M)	1.3.6.1.4.1.9.1.1008	Switch
	Cisco ME 3400E-24TS-M Switch (ME-3400E-24TS-M)	1.3.6.1.4.1.9.1.1009	Switch
Cisco Wide Area Application Engine (WAE) Appliances	Cisco WAE-7371 Wide Area Application Engine (WAE-7371)	1.3.6.1.4.1.9.1.908	Host
Cisco 7300 Series Content Engines	Cisco WAE-7341 Wide Area Application Engine (WAE-7341)	1.3.6.1.4.1.9.1.907	Host
Cisco NAM 2204 Appliance	Cisco NAM 2204 Appliance (NAM2204)	1.3.6.1.4.1.9.1.1032	Probe
Cisco NAM 2220 Appliance	Cisco NAM 2204 Appliance (NAM2220)	1.3.6.1.4.1.9.1.1033	Probe
Cisco Catalyst 2975 Switch	Cisco Catalyst 2975 Switch (WS-C2975GS-48PS-L)	1.3.6.1.4.1.9.1.1067	Switch
	Cisco Catalyst 2975 Switch (WS-C2975GS-48PS-L Stack)	1.3.6.1.4.1.9.1.1068	Switch

Table 1 Device Support Provided in DFM 3.1.3

Device Type	Devices/ Modules Supported	sysObjectID	Class
Cisco 800 Series Routers	Cisco 888G/888GW Integrated Services Router (CISCO888G-K9, CISCO888GW-G-AN-K9, CISCO888GW-G-EN-K9)	1.3.6.1.4.1.9.1.853	Router
	Cisco 887 Integrated Services Routers (C887VDSL2-K9)	1.3.6.1.4.1.9.1.1040	Router
	Cisco 891/891W Integrated Services Router (CISCO891-K9, CISCO891W-AGN-A-K9, CISCO891W-AGN-C-K9, CISCO891W-AGN-N-K9)	1.3.6.1.4.1.9.1.857	Router
	Cisco 892/892W Integrated Services Router (CISCO892-K9, CISCO892J-K9, CISCO892W-AGN-E-K9, CISCO892W-AGN-P-K9)	1.3.6.1.4.1.9.1.858	Router
	Cisco 851/851W Integrated Services Router (CISCO851-K9, CISCO851W-G-A-K9, CISCO851W-G-E-K9, CISCO851W-G-J-K9)	1.3.6.1.4.1.9.1.566	Router
Cisco 4400 Series Wireless LAN Controllers	Cisco 4402,4404 Wireless LAN Controller (AIR-WLC4402-12-K9, AIR-WLC4402-25-K9, AIR-WLC4402-50-K9, AIR-WLC4404-100-K9)	1.3.6.1.4.1.14179.1.1.4.3	Host
Cisco 3800 Series Integrated Services Routers	Cisco 3825 NOVPN Integrated Services Router (3825-NOVPN)	1.3.6.1.4.1.9.1.1103	Router
	Cisco 3845 NOVPN Integrated Services Router (3845-NOVPN)	1.3.6.1.4.1.9.1.1102	Router
Cisco Catalyst 2350 Series Switches	Cisco Catalyst 2350-48TD-S Switch	1.3.6.1.4.1.9.1.1104	Switch
Cisco 600 Series Content Engines	Cisco 674 Content Engine (WAE 674)	1.3.6.1.4.1.9.1.996	Host
Cisco Catalyst 3560 Series Switches	Cisco Catalyst 3560-12PC-S Compact Switch	1.3.6.1.4.1.9.1.1015	Switch
Cisco Catalyst 2960 Series Switches	Cisco Catalyst 2960-48TT-S Switch	1.3.6.1.4.1.9.1.1005	Switch
	Cisco Catalyst 2960-8TC-S Compact Switch	1.3.6.1.4.1.9.1.1006	Switch

Hardware and Software Requirements

DFM 3.1.3 can be installed on DFM 3.1. Installing DFM 3.1.3, provides instructions on how to verify the DFM version that is on your system.

For information on installing DFM, refer to the documents on Cisco.com at the URL:

http://www.cisco.com/en/US/products/sw/cscowork/ps2421/prod_installation_guides_list.html

Device Packages

Cisco's routers and switches are referred to as network devices. Routers and switches must be physically installed in the appropriate chassis and connected to your network (using each specific device's hardware installation guide). A software update that enables Device Fault Manager to support new features for a particular device is called a device package.

Device Package Updates

Device Fault Manager provides support for a considerable range of devices by installing device packages. Additional device packages can be added to Device Fault Manager anytime after the initial product release or installation. When new device packages become available, they are placed on Cisco.com. Check http://www.cisco.com/cgi-bin/tablebuild.pl/cw2000-dfm to ensure that you have the latest device release. You can add or update device packages using Software Center. Software Center is a component of Common Services.

For more information on using Software Center, see *User Guide for Common Services 3.x*.

Downloading DFM 3.1.3

DFM 3.1.3 files are downloaded in a compressed form. To prevent overwriting of files in existing directories as well as ensure that adequate disk space is available, you should download the files to a temporary working area of your server, and then uncompress the files.

Note You can also use the Common Services Device Update function to download DFM 3.1.3. For more information, from the Common Services home page, select **Software Center > Software Update** and click **Help**.

Step 1 Make sure you have adequate free space, then, from the DFM download page at http://www.cisco.com/cgi-bin/tablebuild.pl/cw2000-dfm click the link to cwdfm3_1_3_sol.zip, and follow the instructions to download the zip file to a temporary working area of your server.

Step 2 Unzip all files into the temporary working area.

Installing DFM 3.1.3

Caution You cannot remove DFM 3.1.3 after installing it; to return to your original configuration, you will have to uninstall and reinstall DFM. Therefore, you should save your configuration before installing DFM 3.1.3 as described in Step 1.

Step 1 Make sure that you have a backup of your configuration, in case you need to revert back to it. (DFM 3.1.3 cannot be uninstalled.)

Step 2 Verify that DFM 3.1 is installed:

a. From the Common Services home page, select **Software Center > Software Update**.

b. In the Products Installed table, verify that the Device Fault Manager row lists Version 3.1.

Step 3 Move to the directory in which the unzipped DFM 3.1.3 files reside, run the installation script:

```
# cd cwdfm3_1_3_sol
# ./setup.sh
```

Note You can run the installation remotely. For information on mounting and unmounting disks, refer to *Installation and Setup Guide for Device Fault Manager on Solaris.* You can view this document by logging onto Cisco.com and going to http://www.cisco.com/en/US/products/sw/cscowork/ps2421/prod_installation_guides_list.html

Step 4 Follow the prompts in the installation script. The options displayed by the installation script depend on your configuration.

Step 5 Verify the installation:

a. From the Common Services home page, select **Software Center > Software Update**.

b. In the Products Installed table, click Device Fault Manager.

c. In the Patches Installed table, verify that the version corresponding to Device Fault Manager is 3.1.3.

You may have to stop and restart the CiscoWorks daemon manager. This is required if you applied DFM 3.1.3 to the following scenario:

a. You were running DFM 3.0.2 with the Device Support Patch, and then

b. You upgraded to DFM 3.1

If either of these scenarios apply to you, stop and restart the CiscoWorks daemon manager:

```
# /etc/init.d/dmgtd stop
# /etc/init.d/dmgtd start
```

Note You must run these commands if these scenarios apply to you. Otherwise, some previously-supported devices may not be managed.

Step 6 Rediscover any devices that are in the Unsupported state using **Device Management > Rediscover/Delete** from the DFM home page.

Step 7 Remove the distribution files from the temporary working area on your server.

Known DFM 3.1.3 Problems

The following table describes the known problems in DFM 3.1.3. Unless otherwise specified, there is no workaround for these problems.

For a list of known problems in Device Fault Manager 3.1, refer to the Release Notes. You can view them on Cisco.com by going to:

http://www.cisco.com/en/US/products/sw/cscowork/ps2421/prod_installation_guides_list.html

For the status of other DFM bugs that are due to device-specific problems, refer the documents on Cisco.com at this URL:
http://www.cisco.com/en/US/products/sw/cscowork/ps2421/prod_release_notes_list.html.

Table 2 Known Problems in DFM 3.1.3

Bug ID	Summary	Explanation
CSCso70605	IDU20 and IDU21: Warning alert is not generated for Operationally Down Card.	When the Module Status is set to 3 for 1.3.6.1.4.1.9.5.1.3.1.1.10, Warning alert should be generated for an Operationally Down Card as per the Syntax of the MIB. It is not generated. But a Critical alarm is generated when the Module Status is set to 4.
CSCso52084	Support for revised MIB values should be provided.	Alerts are not generated for the Environment components like temperature, power, fan, and voltage of some revised Mib values. Warning alert is not generated for Fan in IDU21. Support for revised MIB values should be provided.
CSCsy47093	IDU22: InstrumentedBy class is not created for Chassis component	InstrumentedBy class is not created under Chassis component for generating HighBackplaneUtilization alerts for some of the devices.
CSCsx93914	IDU22: TemperatureSensor component status is displayed as Not Applicable (NA)	TemperatureSensor component status is displayed as Not Applicable. This is applicable only to Cisco 4402 Wireless LAN Controller (AIR-WLC4402-25-K9).
CSCsy26143	IDU22: MIB support is not available for Memory component	Memory alerts are not generated because MIB support is not available for Memory component. This is applicable only to Cisco WAE-7341 Wide Area Application Engine.

Resolved DFM Problems

The following table describes DFM problems that are resolved in DFM 3.1.3.

Table 3 Problems Resolved in DFM 3.1.3

Bug ID	Summary	Explanation
CSCsq35972	sysOIDs 1.3.6.1.4.1.9.1.900 and 1.3.6.1.4.1.9.1.901 were wrongly mapped to C1840 and C1880 instead of MCS7816H and MCS7828H.	This problem has been resolved.
CSCsq36121	NM-CUE (1.3.6.1.4.1.9.1.622) and AIM-CUE (1.3.6.1.4.1.9.1.623) type was Host instead of Router.	This problem has been resolved.
CSCsv13865	Upgrading to LMS 3.x (DFM 3.x) adds new localhost entry to the trapd.conf file.	This problem has been resolved.
CSCsv21221	When Device A is managed in Smarts instance DFM and Device B is managed in Smarts instance DFM1, DFM was unable to discover trunks between them.	This problem has been resolved.
CSCsx23678	Polling does not stop even after disabling polling.	This problem has been resolved.