C H A P T E R **15**

Administering DCNM Server Log Settings

This chapter describes how to administer the DCNM Server Log Settings feature in Cisco Data Center Network Manager (DCNM).

This chapter includes the following section:

Information About Administering DCNM Server Log Settings

The Cisco DCNM server maintains a log file of its operations. The log file contains information from Cisco DCNM features and server components.

> **Note** The DCNM Server Log Settings feature does not affect logging levels of Cisco NX-OS devices. Cisco DCNM does not support the configuration of device logging levels.

This section includes the following topics:

Logging Levels

The Cisco DCNM server supports a hierarchy of logging levels, ordered by the severity of log messages. Each level includes messages for that level in addition to all log messages from levels of higher severity. The logging levels, in order from the highest to the lowest severity, are as follows:

- Fatal Errors
- Errors
- Warnings
- Information
- Debugging
- Verbose

Log File and Location

The Cisco DCNM server writes server log messages to the sys.pipe file at the following location:

INSTALL_DIR\log

By default, when you install the Cisco DCNM server on Microsoft Windows Server, INSTALL_DIR is C:\Program Files\Cisco Systems\dcnm.

Virtualization Support

Cisco DCNM server logs do not contain log messages from Cisco NX-OS devices; therefore, this feature has no effect on virtualization support.

Licensing Requirements for Administering DCNM Server Log Settings

The following table shows the licensing requirements for this feature:

Product	License Requirement
Cisco DCNM	DCNM Server Log Settings requires no license. Any feature not included in a license package is bundled with the Cisco DCNM and is provided at no charge to you. For information about obtaining and installing a Cisco DCNM LAN Enterprise license, see the *Cisco DCNM Installation and Licensing Guide, Release 5.x.*

Prerequisites for Administering DCNM Server Log Settings

Administering Cisco DCNM server log settings has the following prerequisites:

- You should be familiar with a Cisco DCNM feature before you configure server log settings for it.

Guidelines and Limitations for Administering DCNM Server Log Settings

Administering Cisco DCNM server log settings has the following configuration guidelines and limitations:

- Setting a logging level to a lower severity results in more messages in the log file.

- We recommend using the default logging settings unless you are troubleshooting an issue.

- When you are troubleshooting an issue, consider lowering the logging level severity of the affected feature or server component.

- After you resolve an issue, consider restoring the logging level of the affected feature or server component to a higher severity.

Configuring DCNM Server Log Settings

This section includes the following topics:

- Configuring the Default Logging Level, page 15-3
- Configuring a Unique Logging Level for a Feature or Server Component, page 15-3
- Configuring a Feature or Server Component to Use the Default Logging Level, page 15-4

Configuring the Default Logging Level

You can configure the default logging level for all Cisco DCNM features and server components.

BEFORE YOU BEGIN

Determine what the default logging level should be. For more information, see the "Logging Levels" section on page 15-2.

DETAILED STEPS

Step 1	From the Feature Selector pane, choose **DCNM Server Administration > DCNM Server Log Settings**.

The log settings appear in the Contents pane. |
| **Step 2** | From the Default Logging Level drop-down list, choose the logging level. |
| **Step 3** | From the menu bar, choose **File > Deploy** to apply your changes to the Cisco DCNM server. |

Configuring a Unique Logging Level for a Feature or Server Component

You can configure a logging level of a feature or server component that is independent of the default logging level.

BEFORE YOU BEGIN

Determine what the logging level of the feature or service should be. For more information, see the "Logging Levels" section on page 15-2.

DETAILED STEPS

Step 1	From the Feature Selector pane, choose **DCNM Server Administration > DCNM Server Log Settings**.
	The log settings appear in the Contents pane.
Step 2	Find the feature or server component that you want to configure with a unique logging level.
Step 3	Uncheck **Default** to the right of the feature or server component.
	The logging level drop-down list for the feature or server component becomes available.
Step 4	From the logging level drop-down list, choose the logging level. For more information, see the "Logging Levels" section on page 15-2.
Step 5	From the menu bar, choose **File > Deploy** to apply your changes to the Cisco DCNM server.

Configuring a Feature or Server Component to Use the Default Logging Level

You can configure a feature or server component to use the default logging level.

BEFORE YOU BEGIN

Ensure that the default logging level is appropriate for the feature or service. For more information, see the "Logging Levels" section on page 15-2.

DETAILED STEPS

Step 1	From the Feature Selector pane, choose **DCNM Server Administration > DCNM Server Log Settings**.
	The log settings appear in the Contents pane.
Step 2	Find the feature or server component that you want to use the default logging level.
Step 3	Check **Default** to the right of the feature or service.
	The logging level drop-down list for the feature or server component becomes unavailable.
Step 4	From the menu bar, choose **File > Deploy** to apply your changes to the Cisco DCNM server.

Viewing DCNM Server Log Settings

To view Cisco DCNM server user accounts, from the Feature Selector pane, choose **DCNM Server Administration > DCNM Server Log Settings**.

The default logging level, feature logging settings, and server component logging settings appear in the Contents pane. For information about the fields that appear, see the "Field Descriptions for DCNM Server Log Settings" section on page 15-5.

Field Descriptions for DCNM Server Log Settings

This section includes the following field descriptions for Cisco DCNM server log settings:

- DCNM Server Log Settings Content Pane, page 15-5

DCNM Server Log Settings Content Pane

Table 15-1   DCNM Server Log Settings Content Pane

Field	Description
Default Logging Level	Logging level for the features or server components whose Default check box is checked. The default value for this list is Informational. For more information about logging levels, see the "Logging Levels" section on page 15-2.
Cisco DCNM Features	
Default	Whether logging for the corresponding feature uses the default logging level or the logging level specified for the feature. When a Default check box is checked, the logging level list for the corresponding feature is unavailable. By default, these check boxes are unchecked.
AAA	Logging level for the AAA feature.
ACL	Logging level for the access control list feature.
Dot1X	Logging level for the 802.1X feature.
GLBP	Logging level for the Gateway Load-Balancing Protocol feature.
Interfaces	Logging level for the Interfaces feature.
Key Chain	Logging level for the keychain management feature.
Layer 2 Security	Logging level for the layer 2 security feature, which are as follows: • Dynamic ARP inspection • Port security • DHCP snooping • IP Source Guard • Traffic storm control
Object Tracking	Logging level for the object tracking feature.
Port Channel	Logging level for the port security feature.
SPAN	Logging level for the SPAN feature.
Spanning Tree	Logging level for the STP feature.
Tunnel	Logging level for the tunnel interface management feature.
Virtual Devices	Logging level for the virtual device context feature.
VLAN	Logging level for the VLAN feature.
FabricExtender	Logging level for the FabricExtender feature.
VPC	Logging level for the vPC feature.

Table 15-1   DCNM Server Log Settings Content Pane (continued)

Field	Description
HSRP	Logging level for the HSRP feature.
DEVICE GROUP	Logging level for the Device Groups feature.
Cisco DCNM Server Components	
Default	Whether logging for the corresponding server component uses the default logging level or the logging level specified for the component. When a Default check box is checked, the logging level list for the corresponding component is unavailable. By default, these check boxes are unchecked.
Event	Logging level for the event component, which includes messages about how Cisco DCNM processes the system and accounting logs it retrieves from devices and also events generated by Cisco DCNM.
Statistics Collection	Logging level for the statistical data collection component.
Config Archive	Logging level for the configuration archive component, used by the Configuration Change Management feature.
Device Connections	Logging level for the component that connects the Cisco DCNM server to devices.
Device Discovery	Logging level for the component that performs device discovery.

Additional References

For additional information related to administering Cisco DCNM server log settings, see the following sections:

- Related Documents, page 15-6
- Standards, page 15-6

Related Documents

Related Topic	Document Title
Troubleshooting Cisco DCNM	*Chapter 18, "Troubleshooting Cisco DCNM"*

Standards

Standards	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	—

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Feature History for DCNM Server Log Settings

Table 15-2 lists the release history for this feature.

Table 15-2   Feature History for DCNM Server Log Settings

Feature Name	Releases	Feature Information
Device Groups logging	5.0(2)	Support was added for configuring the logging level for the Device Groups feature.

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