



CHAPTER 17

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, page 17-1](#)
- [Licensing Requirements for Administering DCNM Server Log Settings, page 17-2](#)
- [Prerequisites for Administering DCNM Server Log Settings, page 17-2](#)
- [Guidelines and Limitations for Administering DCNM Server Log Settings, page 17-2](#)
- [Configuring DCNM Server Log Settings, page 17-3](#)
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- [Field Descriptions for DCNM Server Log Settings, page 17-5](#)
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Information About Administering DCNM Server Log Settings

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



Note

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

This section includes the following topics:

- [Logging Levels, page 17-1](#)
- [Log File and Location, page 17-2](#)
- [Virtualization Support, page 17-2](#)

Logging Levels

The DCNM server supports a hierarchy of logging levels, ordered by 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 highest to lowest severity, are as follows:

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

Log File and Location

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

`INSTALL_DIR\log`

By default, when you install the DCNM server on Microsoft Windows Server 2003, `INSTALL_DIR` is `C:\Program Files\Cisco Systems\DCNM`.

Virtualization Support

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
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 DCNM LAN Enterprise license, see the “Installing Licenses” section on page 2-7 .

Prerequisites for Administering DCNM Server Log Settings

Administering DCNM server log settings has the following prerequisites:

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

Guidelines and Limitations for Administering DCNM Server Log Settings

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

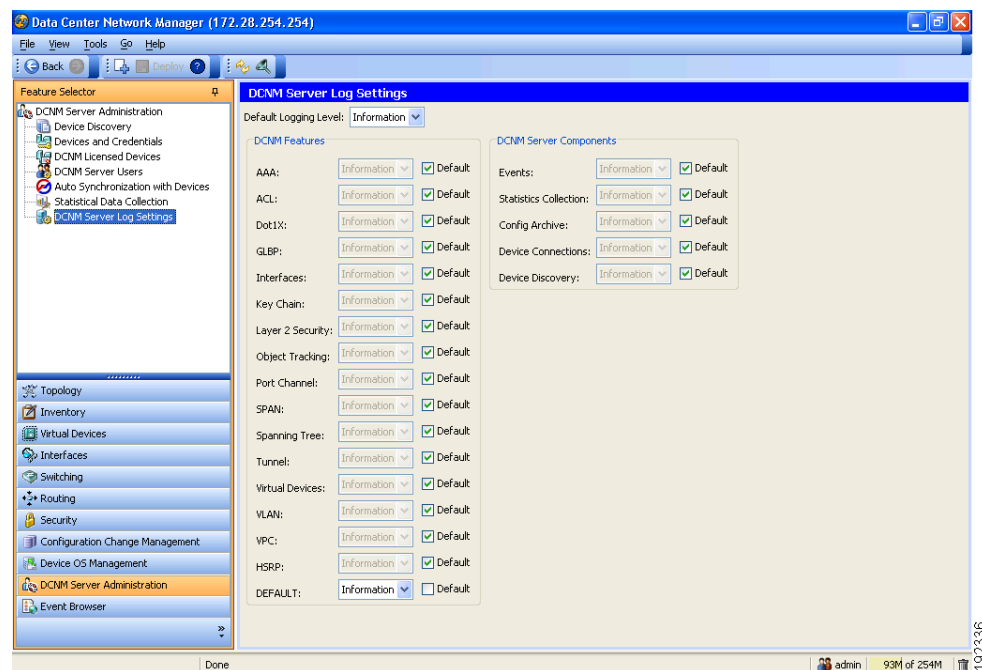
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- Setting a logging level to a lower severity results in more messages in the log file.
- We recommend using the default logging settings unless you are troubleshooting an issue.
- When you are troubleshooting an issue, consider lowering the logging 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

Figure 17-1 shows the DCNM Server Log Settings content pane.

Figure 17-1 DCNM Server Log Settings Content Pane



This section includes the following topics:

- [Configuring the Default Logging Level, page 17-3](#)
- [Configuring a Unique Logging Level for a Feature or Server Component, page 17-4](#)
- [Configuring a Feature or Server Component to Use the Default Logging Level, page 17-4](#)

Configuring the Default Logging Level

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

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BEFORE YOU BEGIN

Determine what the default logging level should be. For more information, see the [“Logging Levels” section on page 17-1](#).

DETAILED STEPS

To configure the default logging level for all DCNM features and server components, follow these 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 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 17-1](#).

DETAILED STEPS

To configure a unique logging level for a feature or server component, follow these 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 17-1](#).
 - Step 5** From the menu bar, choose **File > Deploy** to apply your changes to the 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.

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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 17-1.

DETAILED STEPS

To configure a feature or server component to use the default logging level, follow these 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 DCNM server.
-

Viewing DCNM Server Log Settings

To view 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 17-5.

Field Descriptions for DCNM Server Log Settings

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

- [DCNM Server Log Settings Content Pane, page 17-5](#)

DCNM Server Log Settings Content Pane

Table 17-1 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 17-1.
DCNM Features	

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Table 17-1 DCNM Server Log Settings Content Pane (continued)

Field	Description
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.
Layer2 Security	Logging level for the layer 2 security feature, which are as follows: <ul style="list-style-type: none"> • 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 tunnel interface management feature.
Virtual Devices	Logging level for the virtual device context feature.
VLAN	Logging level for the VLAN feature.
VPC	Logging level for the vPC feature.
HSRP	Logging level for the HSRP feature.
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 DCNM processes the system and accounting logs it retrieves from devices and also events generated by 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 DCNM server to devices.
Device Discovery	Logging level for the component that performs device discovery.

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Additional References

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

- [Related Documents, page 17-7](#)
- [Standards, page 17-7](#)

Related Documents

Related Topic	Document Title
Troubleshooting DCNM	<i>Chapter 19, "Troubleshooting DCNM"</i>

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.	—

Feature History for DCNM Server Log Settings

[Table 17-2](#) lists the release history for this feature.

Table 17-2 Feature History for DCNM Server Log Settings

Feature Name	Releases	Feature Information
DCNM Server Log Settings	4.1(2)	No change from Release 4.0.

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