

## Chapter 3

# Configuring System Logging for a C-series Controller with the C-Web Interface

This chapter describes how to configure the system log server (also called a syslog server) on a C-series Controller with the C-Web interface.

You can also configure system logging with the SRC CLI. See *SRC-PE Getting Started Guide, Chapter 17, Configuring System Logging for a C-series Controller with the SRC CLI*.

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## Overview of the C-series Controller Log Server

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The C-series Controller includes a system log server that you can configure to manage messages generated on the system. These messages record events that occur to system processes and components.

You can configure the system log server on a C-series Controller to send messages about events to:

- A local file
- Other hosts that are running a system log server
- Users who need to be notified about particular error conditions

You configure which groups of messages are to be forwarded by message type and severity level.

## **Message Groups**

Message groups (also called facilities) define sets of messages generated by the same software process or concerned with a similar condition or activity (such as authentication attempts).

You can configure the following message groups for the system log server:

- any—Messages from all facilities.
- authorization—Authentication and authorization attempts.
- daemon—Actions performed or errors encountered by various system processes.
- ftp—Actions performed or errors encountered by an FTP process.
- kernel—Actions performed or errors encountered by the kernel.
- user—Actions performed or errors encountered by various user processes.
- local7—Actions performed or errors encountered by different SRC processes.

## **Severity Levels**

You can specify the following severity levels for groups of messages to be forwarded:

- any—Messages for all severity levels.
- emergency—System panic or other condition that causes the system to stop functioning.
- alert—Conditions that require immediate correction.
- critical—Critical conditions, such as hard drive errors.
- error—Error conditions that generally have less serious consequences than errors in the emergency, alert, and critical levels.
- warning— Conditions that warrant monitoring.
- notice—Conditions that are not errors but might warrant special handling.
- info—Events or nonerror conditions of interest.
- none—Messages are not generated for any condition.

## Before You Configure System Logging with the C-Web Interface

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Before you configure the syslog server on a C-series Controller, you should be familiar with:

- The syslog protocol
- Logging for SRC components

See *SRC-PE Monitoring and Troubleshooting Guide, Chapter 2, Configuring Logging for SRC Components*.

## Saving System Log Messages to a File with the C-Web Interface

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To save system log messages to a file:

1. Click **Configure**, expand **System**, and click **Syslog**.

The Syslog pane appears.

2. From the Create new list, select **File**.
3. Type a name for the file in the dialog box, and click **OK**.

The File pane appears.

4. To configure a message group, select the message group that you want to configure from the Create new list.

You can configure multiple message groups in the log file.

5. To configure a severity level:
  - a. In the side pane, click the log file.
  - b. From the Severity box, select the severity level that you want to track with the log file, and click **Apply**.

## Sending System Log Messages to Other Servers with the C-Web Interface

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Before you configure the system log server to send messages to other system log servers, ensure that the remote system log server is configured to receive messages on the standard UDP port, 514.

To configure the system log server to send messages to another system log server:

1. Click **Configure**, expand **System**, and click **Syslog**.

The Syslog pane appears.

2. From the Create new list, select **Host**.

3. Type a name for the file in the dialog box, and click **OK**.

The Host pane appears.

4. To configure a message group, select the message group that you want to configure from the Create new list.

You can configure multiple message groups in the log file.

5. To configure a severity level:
  - a. In the side pane, click the log file.
  - b. From the Severity box, select the severity level that you want to track with the log file, and click **Apply**.

## **Sending Notifications for System Log Messages to Users with the C-Web Interface**

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To configure the system log server to send notifications to users:

1. Click **Configure**, expand **System**, and click **Syslog**.

The Syslog pane appears.

2. From the Create new list, select **User**.

3. Type a name for the file in the dialog box, and click **OK**.

The User pane appears.

4. To configure a message group, select the message group that you want to configure from the Create new list.

You can configure multiple message groups in the log file.

5. To configure a severity level:
  - a. In the side pane, click the log file.
  - b. From the Severity box, select the severity level that you want to track with the log file, and click **Apply**.