



## Operations Control Logger

23.2

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# Release Notes

The release notes describes the new and enhanced functionality available for Operations Control Logger, providing an overview of the most significant changes.

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**Note:** The product documentation is now available on the AVEVA documentation portal. To comply with the portal guidelines, the style and tone of the documentation content has been modified. Hence, the content available on the portal may differ slightly from the documentation delivered with the product release.

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## Operations Control Logger 23.2

This Readme provides information about Operations Control Logger version 23.2. Carefully review this section for issues that have been resolved in this release, and some known issues you may encounter while using Operations Control Logger.

### New Features and Enhancements

This release supports the installation of the Operations Control Logger 23.2. It contains various fixes and improvements since its last release.

The following new and enhanced functionality is delivered as part of Operations Control Logger 23.2 release.

- Integrated the latest Visual Studio 2022 Redistributable.
- This version incorporates several security fixes.

### Resolved Issues

Operations Control Logger 23.2 includes corrections for the issues listed in the following table. These issues are listed by their Defect ID (IMS number), any assigned Service Request (SR) or Case Number with a brief description of the defect.

Defect ID	SR/ Case Number	Description
3288511	960332429	Challenge on recovering redundant app engine when one of the nodes restarted.
3278933	960407901	Memory Leak 2023 R2: PCS.Agent.Exe continuously increased memory consumption.
2998763	960372780	Archestra Logger stopped logging.
3242602	960395770	Investigated high CPU usage by the aaEngine process after reboot.

3338604	960412383	AVEVA data store had high memory consumption.
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## Known Issues

This section describes known issues in this release of Operations Control Logger.

Defect ID	Service Request/ Case Number	Description
2974924	960362794	Objects suddenly stopps generating logs in the SMC with the LogMessage function.

# Get Started with Operations Control Logger

Operations Control Logger includes key components such as Log Viewer for viewing logged messages, Log Flag Editor for managing message categories, and Log Monitor for monitoring the status of local and remote Loggers, all of which enhance data management and operational efficiency.

## System requirements

This section describes the operating system, hardware, and software requirements to install Logger.

### Supported Operating Systems

Below are the Operating System minimum requirements:

- Client Operating System (x86 and x64):
  - Windows 8.1 Professional
  - Windows 10 Version 1607
- Server Operating System (x64 only):
  - Windows Server 2012

### Hardware Requirements

Below are the basic hardware requirements to install Operations Control Logger.

- CPU Cores: 4
- RAM: 4 GB

### Software Requirements

- A clean installation of Operations Control Logger requires .NET Framework 4.8 and supported Visual C++ redistributable 2019 as prerequisite.

### Port List

The following ports are used by default:

- 57727: ocLogger service port

**Important:** If you want to change the default ports, be very careful when changing port settings. Doing so may impact product operation.

## Operations Control Logger installation

This section describes the installation steps of Operations Control Logger.

## Install Operations Control Logger

1. Right-click the **setup.exe** file and select Run as administrator.  
The **Operations Control Logger** Agreement screen appears.
2. Accept the End User License Agreement and then select **Next**.
3. Select the components that you want to install:
  - Select **Operations Control Logger**.
4. Select **Next**.  
The **Ready to Install the Application** screen appears.
5. Select **Install** to start the installation.  
Once the installation is complete, the installation successful dialog box appears.
6. Select **Finish**.

## Install Operations Control Logger silently

You can install Operations Control Logger silently through command line mode.

### Install Operations Control Logger silently from the command line

1. Open the command prompt (cmd.exe) as Administrator.
2. Change the working directory to the folder where you downloaded Operations Control Logger **Setup.exe**.
3. Run one of the following commands, depending on whether or not you want the computer to reboot automatically.

To automatically restart the node when installation is complete, enter the following command:

```
"C:\...\CD-OCLoggerStandalone\Setup.exe" /silent "C:\Response.txt"
```

If you do not want to automatically restart after installation, use the /Silentnoreboot option:

```
"C:\...\CD-OCLoggerStandalone\Setup.exe" /silentnoreboot "C:\Response.txt"
```

---

**Note:** Sample response files, "SampleResponseFiles" are present in CD-OCLoggerStandalone media folder.

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### Uninstall Operations Control Logger silently

You can uninstall Operations Control Logger silently through command line mode.

### Uninstall Operations Control Logger silently from the command line

1. Open the command prompt (cmd.exe) as Administrator.
2. Change the working directory to the folder where you downloaded Operations Control Logger **Setup.exe**.
3. Run one of the following commands, depending on whether or not you want the computer to reboot automatically: To automatically restart the node when uninstallation is complete, enter the following command:

```
"C:\...\CD-OCLoggerStandalone\Setup.exe" /silentuninstall {64484352-2B13-4C3C-94E6-4AA582C80EB6}
```

### Uninstall Operations Control Logger

1. Select the **Uninstall or Change a Program** option in Windows **Control Panel**. The list of software installed on

your computer appears.

2. Select Operations Control Logger, and then select the **Uninstall/Change**. The **Modify, Repair or Remove Installation** dialog box appears.
3. Select the **Remove** option, and then Select **Next**. The confirmation dialog box appears.
4. Select **Uninstall**. The component is uninstalled, and the complete uninstallation dialog box appears.
5. Select **Finish**.

## Repair Operations Control Logger

1. Select the **Uninstall or Change a Program** option in Windows **Control Panel**. The list of software installed on your computer appears.
2. Select Operations Control Logger, and then select the **Uninstall/Change**. The **Modify Repair or Remove Installation** dialog box appears.
3. Select the **Repair** option, and then select **Next**. The Confirm Repair dialog box appears.
4. Select **Repair**. The complete repair dialog box appears.
5. Select **Finish**.

### Installation update

If all nodes are not upgraded from a lower version to a newer version, you might encounter compatibility issues while connecting to a remote log viewer/log monitor from older to newer version and vice versa. To resolve the issue, you need to set the registry key value. This action will disable some security changes and work in a non authentication mode.

### Set registry key value

1. For 64-bit node:
  - a. Navigate to Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\Archestra\Framework\Logger.
  - b. Create a DWORD key **EnableCompatibleMode** and set the key value to 1.
  - c. Navigate to Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\Archestra\Framework\Logger.
  - d. Create a DWORD key **EnableCompatibleMode** and set the key value to 1.
2. For 32-bit node:
  - a. Navigate to Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\Archestra\Framework\Logger.
  - b. Create a DWORD key **EnableCompatibleMode** and set the key value to 1.
3. Restart the machine.

# Get Started with Log Viewer

You can use the the **Log Viewer** to view messages logged to the **Logger**. The **Logger** is a system service that records, maintains, and manages messages from **Logger-enabled** components. Additionally, the **Log Viewer** records the date and time when **HMI/SCADA** related components start and any error conditions that occur.

## Start Log Viewer

The **Logger** and **Log Viewer** utilities are automatically installed on any computer when you install a **Logger** enabled component.

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**Caution:** Do not disable the **Logger** service at any time.

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The **Logger** is a background process that stores messages in the system log file. You can manually start the **Logger** or configure it to start automatically.

- Automatic means the **Logger** starts when the computer starts.
- Manual means you must start the **Logger** from the **System Services** utility in the **Windows Control Panel**.

You can also customize which messages you want to log with the **Log Flag Editor**. For more information, see **Log Flag Editor**.

---

**Note:** Always check logged messages before calling technical support.

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You use the **Log Viewer** to view messages sent to the **Logger**. You can customize the format of this utility. For more information about customizing the **Log Viewer**, see **Configuring the Log Viewer**

### Start Log Viewer (system management method)

1. Select **Start**, navigate to **AVEVA**.
2. Select **Operations Control Management Console**.  
The **Operations Control Management Console** appears with the **Log Viewer** listed in the left pane.
3. Double-click **Log Viewer** to expand its groups. The **Local** group is listed beneath the **Default Group**.

### Executable method

1. Navigate to **C:\Program Files (x86)\Common Files\ArchestrA**.
2. Right-click **aaLogViewer.exe**, and then select **Run as Administrator**. Alternatively, double-click **aaLogViewer.exe**.

The **User Account Control** dialog box appears.

3. Select **Yes**.

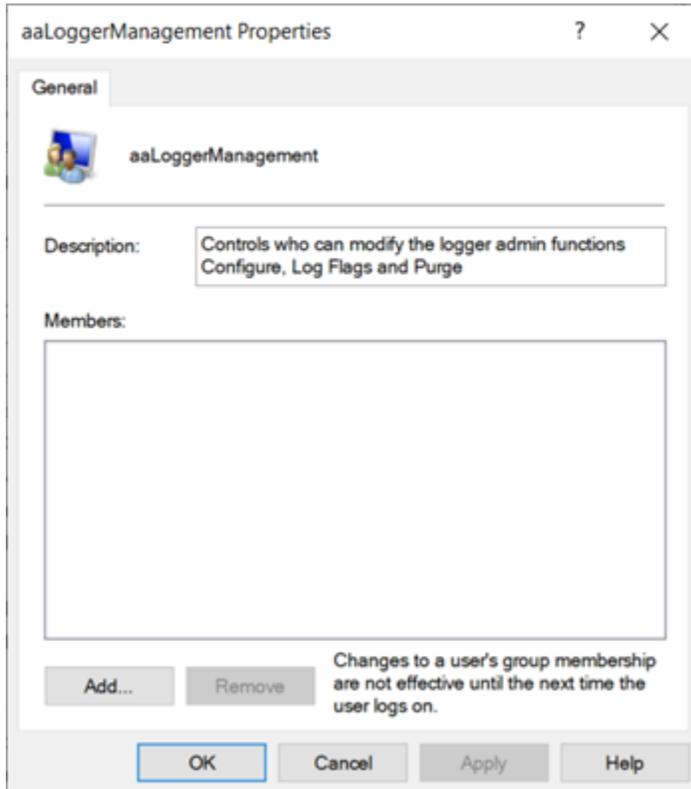
The **Log Viewer** window appears

During installation, users are added by default to the **aaLoggerProcess** group. To perform operations like configuring, setting **Log Flags**, and purging, you need to be an administrator or member of **aaLoggerManagement** group.

If a user is not a part of the aaLoggerManagement group, they must be manually added it.

### Add user to aaLoggerManagement group

1. Open the Run dialog and type `lusrmgr.msc`, and select **OK**.
2. Under **Groups**, select aaLoggerManagement group.
3. Double-click on the aaLoggerManagement group.



4. Add the user as a member and select **Add**.

## Work with Log Viewer

You use the **Log Viewer** to view messages sent to the Logger. By using the filter, mark, find, time range, and other functions of the Log Viewer, you can simplify and specify the messages that are shown. Additionally, you can use the Log Viewer to save logged messages to a file and view logged messages previously saved to a file.

## Troubleshoot problems

The Log Viewer is a diagnostic tool that you can use to gather information about potential issues in your ArchestrA-enabled program. By examining logged messages, you can determine whether all processes are functioning correctly.

- Error messages are highlighted in red, indicating malfunctioning processes.
- Warning messages appear in yellow, indicating major system events.

## Troubleshoot problems using Log Viewer

1. Gather as much information about the process that is malfunctioning.  
For example, if you attempted to deploy an object in the IDE and a message was shown stating the deployment was not completed.
2. Note the function you attempted and the message you received.
3. Open **Log Viewer**.
4. Select the node your product is located on.
5. Look for red and yellow messages.

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**Note:** Use the information you collected about the failed process to search for clues in the logged messages.

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6. Find or filter data. Do any of the following:
  - On the **View** menu, select **Find** to single out messages by message text or other category of data.
  - On the **View** menu, select **Filter** to reduce the number of shown messages based on message, time range, or terminal session criteria.

## Configure Logger storage options

You can specify the location of the files containing the Logger messages and other options related to Logger storage.

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**Caution:** If you change the **Store Log Messages In This Path** setting, you may no longer be able to view previously logged messages. Before changing this setting, you should **Export** the current messages to a log file. This path must be on your local hard drive.

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### Configure Logger storage options

1. In the **Log Viewer**, select an Logger node.
2. On the **Action** menu, select **Configure**.  
The **Configure** dialog box appears.
3. Select the **Storage** tab.
4. In the **Store Log Messages in this Path** box, change the location of your logged files.
5. Limit the quantity of messages and the amount of disk space used to store messages with two additional storage page options:

**Delete Log Messages older than \_ days.**

**Limit the total disk space used for storing log messages to \_ MB.**

---

**Note:** The Logger deletes messages beginning with the oldest ones first. These two options perform an **OR** operation. In other words, when either setting is encountered, messages are deleted. If your computer has a large hard drive, you can set these options at or near their maximum allowed values (365 days, 10 GB disk space).

---

6. Select **OK** to save the new configuration or **Cancel** to revert to the current settings.

## Search for messages

You can use either the **Find** or **Go To** dialog box to locate a message.

- **Find** is a general search function based on five categories of criteria that map to column headings in the message window.
- **Go To** is a search function based on bookmarks you previously set. For instructions about using the **Go To** dialog box, see [Use bookmarks](#).

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**Note:** The **Process ID** and **Thread ID** categories require numeric data; the others accept alphanumeric characters. You can use both AND and OR operations (multiple categories on multiple rows) to perform complex search functions.

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### Find a message

1. On the **View** menu, select **Find**.
2. On the first row, choose a category you can use to logically isolate a particular set of messages. Double-click the category box in the data entry window and type the desired criteria. After typing search data, select outside of the category box to exit edit mode. You can repeat this step over multiple categories to perform an **AND** operation. In other words, the search function finds only those messages that meet all criteria.
3. To add another row of criteria, right-click anywhere in the data entry window and select **Add**. Columns perform an **OR** operation. In other words, the search function finds those messages that meet the criteria on one row or the criteria on other rows.
4. To remove criteria you have entered in a category box, right-click the box and select **Clear Field**. To remove an entire row, right-click the row and select **Delete**. To remove all search criteria, select the **Clear All**.
5. After you have set search criteria, select **Find Next**. The first message that meets your criteria is highlighted in the message window.
6. Select **Find Next** again to move to the next message that meets the criteria.
7. Select **Cancel** to close the dialog box.

## Use bookmarks

You can apply labels to individual messages so that you can easily find them. These labels are called bookmarks. They differ from marks in that bookmarks are associated with specific messages while marks are messages added below the message that is currently last in the log. For more information, see [Mark message log](#).

You cannot enter duplicate bookmark names, and a message can have only one bookmark.

The message window can display a **Bookmark** column, which is initially hidden by default.

### Show bookmarks

1. Right-click the column header of the message window and select **Show**.
2. In the **Choose Columns** dialog box, select **Bookmarks** in the **Columns Hidden** box, select the **Show** button to move it to the **Columns Shown** box, and then select **OK**.

The **Bookmark** column is added at the far right of the column header.

3. Select and drag it to another position if you want. When the text of a bookmark in the **Bookmark** column is partially obscured, point to it to display the entire bookmark like a tooltip.

## Add a regular or fast bookmark

You can set bookmarks in two ways: adding a regular bookmark that you can name, and setting a fast bookmark that is named for you.

### Add a regular bookmark

1. Right-click the message, and then select **Add Bookmark** on the **Bookmark** submenu.
2. In the **Add Bookmark** dialog box, either accept the default name (Bookmarkx where x is a number in an ascending sequence) or change it with something more descriptive. You can change the bookmark name in the **Bookmarks** dialog box at a later time.
3. Select **OK** to set the bookmark or **Cancel** to terminate the process.

### Set a fast bookmark

1. Right-click the message and select **Fast Bookmark** on the **Bookmark** submenu. A default naming sequence is applied to the message (Bookmarkx where x is a number in an ascending sequence). Alternatively, you can set a fast bookmark by selecting the message and clicking the **Fast Bookmark** icon on the toolbar.
2. Change the bookmark name to something more descriptive, if necessary, in the **Bookmarks** dialog box at a later time.

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**Note:** You cannot go to bookmarked messages that are currently hidden by a filter. If you cannot find the desired message, remove the filter and try again.

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### Find a bookmarked message

1. On the **View** menu, select **Go To**.
2. In the **Go To** dialog box, enter the name of the message's bookmark by typing it in the box or selecting from the list.
3. Select **Go To**. The **Go To** dialog box remains open.
4. Use the **Previous** and **Next** to go to the nearest bookmarked message above and below, respectively.
5. When you are done searching, select **Close**.

---

**Note:** Bookmarks are not saved when you quit the Log Viewer application. To mark your message log more permanently, use the **Mark** command on the **View** menu.

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## Manage bookmarks

To manage bookmarks:

1. On the **View** menu, select **Bookmarks**.  
The **Bookmarks** dialog box appears.
2. You can manage current bookmarks and create new ones. The bookmark list shows the current set of bookmark names and associated **Message No.** (the same number as the **No.** column in the message window). The bookmark list provides several functions.
3. For example, to rename a bookmark, select it, press **F2**, and then type the new name.

Each bookmark must have a unique name. You cannot bookmark two messages with the same name.

4. To go to a bookmarked message, double-click on the message from the list or select it and select **Go To**.
5. To remove one or all bookmarks from your logged messages, select a message and select **Remove**, or select **Remove All**.
6. To add a new bookmark, select the message you want to bookmark in the message window and select **Add**. This function is comparable to a fast bookmark. Rename it by pressing **F2**.
7. When you are done, select **Close**.

## Mark message log

Marks are messages you can insert into your message log to designate events or segments of messages. They differ from bookmarks in that marks are messages added below the message that is currently last in the log while bookmarks are labels associated with existing messages. For more information, see [Use bookmarks](#).

You can create marked messages in two ways: adding a regular mark that you can name and adding a fast mark that is named for you.

### Add a regular mark message

1. On the **View** menu, select **Mark**.  
The **Mark** dialog box appears.
2. Either accept the default name (Mark) or overwrite it with something more descriptive. You cannot change the marker name at a later time.
3. Select **OK** to add the marker message to the end of all logged messages.

### Add a fast mark message

- Select the **Fast Mark** icon on the toolbar. A marker message with the default name (Mark) is added to the end of all logged messages.

## Filter messages

During normal operations in an ArcestrA environment, many messages are logged to the Logger. If a program is malfunctioning or some component has been configured outside of acceptable ranges, the number of messages can increase significantly. You can reduce the number of messages being shown in the message window with the **Filter** dialog box.

Use filtering to display a subset of all logged messages based on specified criteria. The **Filter** dialog box provides three sets of criteria you can use to reduce the number of messages shown. You can use one or more of these sets of criteria at a time to help troubleshoot problems in the ArcestrA environment

---

**Note:** Filtering does not delete logged messages, but only affects the display of messages in the message window. To view all logged messages again, disable the filter by clicking the **Enable/Disable Message Filter** icon on the toolbar or clearing the **Show Time** and **End Time** check boxes. You can enable the filter at a later time because the filtering specifications are still set in the background.

---

### Filter messages based on message characteristics

1. On the **View** menu, select **Filter**.

2. On the Filter dialog box, select the **Messages** page. The first column in the data entry window is **Type**. There are two possible types of criteria: **Show** and **Hide**. When a row is type **Show**, messages that meet the criteria set are shown in the message window. When a row is type **Hide**, messages that meet the criteria set are not shown in the message window. All other columns in the data entry window map to columns shown in the message window. The first row in the data entry window is not editable and cannot be deleted, although you can disable it by clearing the check box.

### Add filtering criteria

1. Select the **New Filter** icon.  
A new **Show** type row appears.
2. Select the **Type** box and double-click to switch to **Hide** type.
3. Double-click a category, and type filtering criteria.
4. Add another row by right-clicking a category header and select **Add** on the shortcut menu.  
The new row is added and the category box is set to edit mode automatically.
5. When you are finished typing the filtering criteria, select outside of the box.

To filter messages based on multiple criteria, use more than one category box in a row or more than one row. Data rows perform an AND operation that filters messages that meet both criteria. Data columns perform an OR operation that filters messages that meet either criteria.

### Delete a row

- Select a row and select the **Delete Filter** icon.

### Delete all rows

- Select **Delete All**.

### Remove a filter criteria

1. Right-click in the box and select **Clear Field**.
2. Select **OK** to set the filtering criteria and close the **Filter** dialog box. Alternatively, select **Cancel** to close the **Filter** dialog box without setting filtering criteria.

---

**Note:** After you have set filtering criteria, you can switch filtering on and off with the **Enable/Disable Message Filter** icon on the toolbar. Enable the filter to show only the messages that match the filtering criteria. Disable the filter to show all logged messages.

---

## Filter messages based on time range

To filter messages based on a time range:

1. On the **View** menu, select **Filter**. The **Filter** dialog box appears.
2. Select the **Time Range** page.
3. To filter based on a start time, select **Messages On** in the From box. The date and time options appear.
4. Select in any field and type the target date. Alternatively, select the arrow in the **date box** to display a

calendar of the current month. Use the right and left arrows to select the target date.

5. Select the **Time Box** and scroll up or down.
6. To filter based on an end time, select **Messages On** in the **To** box. The date and time options appear. Use same steps described in steps 4 and 5.
7. Select **OK** to set the filtering criteria and close the **Filter** dialog box.

The message window immediately shows messages based on this time range criteria. If you use a **From** setting, the **Start Time** check box in the time header is automatically selected and the new filter settings are shown. If you use a **To** setting, the **End Time** check box in the time header is automatically selected and the new filter settings are shown.

## Filter messages based on terminal session

To filter messages based on a terminal session:

1. On the **View** menu, select **Filter**.
2. On the **Filter** dialog box, select the **Terminal Sessions** page. The first column in the data entry window is **Type**. There are two possible types of criteria: **Show** and **Hide**. When a row is type **Show**, messages that meet the criteria set are shown in the message window. When a row is type **Hide**, messages that meet the criteria set are not shown in the message window. The first row in the data entry window is not editable and cannot be deleted, although you can disable it by clearing the check box.

### Add filtering criteria

1. Select the **New Filter** icon.  
A new **Show** type row is shown.
2. Select the **Type** box to switch to **Hide** type.
3. Double-click the **Session ID** box and type filtering criteria. Alternatively, add another row by right-clicking a column header and clicking **Add**.

The new row is added and the box is set to edit mode automatically. When you finish typing the filtering criteria, select outside of the box.

### Filter messages based on multiple sessions

- Use more than one row. Data columns perform an OR operation to filter messages that meet either criteria

### Delete a row

- Select the row and select the **Delete Filter** icon.

### Delete all rows except the first one

- Select **Delete All**.

### Delete session filtering criteria

1. Right-click in a **Session ID** cell and select **Clear Field** from the shortcut menu.

2. Select **OK** to set the filtering criteria and close the **Filter** dialog box.

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**Note:** After you set filter criteria, you can switch filtering on and off with the **Enable/Disable Message Filter** icon on the toolbar.

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## Purge messages

Logged messages are purged automatically according to parameters set on the **Storage** page of the **Configure** dialog box. You can use the **Purge** dialog box to remove messages before reaching those limits. For more information, see [Configuring Log Viewer](#).

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**Caution:** You cannot undo the **Purge** function. Several Log Viewer functions like **CTRL+R** clear the messages shown in the message window, but have no effect on the messages logged to the Logger. If you want to simply clear the Log Viewer's message window, do not use **Purge**. **Purge** actually deletes the messages from the Logger.

---

### Purge existing messages from the Logger

1. From the **Action** menu, select **Messages**, and then **Purge**.  
The **Purge** dialog box appears.
2. Select the option you want. Alternatively, select **Purge All Log Messages** to clear all messages from the Logger.
3. Select **Purge Log Message Created Before** to clear all messages from the Logger before a specified date and time.

---

**Caution:** In the next step, after you select **OK**, you cannot reverse this process.

---

4. Select **OK** to execute the type of purge you selected.  
You are prompted to create a log file of the messages to be purged.
5. Select **Yes** to create a backup file or **No** to continue with the purge. Do one of the following:
  - If you select **Yes**, the **Create Back-Up As** dialog box appears. Set the path and file name for the backup file and select **Save**.
  - If you select **Cancel**, the purge is executed without making a backup file.

## Log Viewer user interface

This section describes the Log Viewer user interface.

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**Note:** Aspects of the Log Viewer may vary in appearance when installed on computers running different versions of Microsoft Windows. Also, the version of the MMC installed on your computer may affect the appearance of the Log Viewer.

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## Menu bar

Log Viewer commands are on the **Action** and **View** menus. These menus are dynamic depending on which item is selected in the **Console Tree** or **Message Window**.

See the lists below.

<b>Action Menu</b>	
<b>About Log Viewer</b>	Opens a dialog box showing software version and other information
<b>Configure</b>	Opens a dialog box to set global parameters for your local Log Viewer and the Logger you are currently connected to.
<b>Connect</b>	This command provides a submenu containing <b>Local</b> and <b>Remote</b> commands. Use the <b>Local</b> command to connect to the Logger on your computer. Use the <b>Remote</b> command to open the <b>Connect</b> dialog box to specify a remote computer from which to view its logged messages. The remote node is always added under <b>Default Group</b> .
<b>LogFlags</b>	Starts the Log Flag Editor to select the types of messages logged by the Logger.
<b>Messages</b>	Opens a submenu containing <b>Export</b> , <b>Purge</b> and <b>Print</b> commands. <ul style="list-style-type: none"> <li>• <b>Export:</b> Saves all currently shown messages to another file.</li> <li>• <b>Purge:</b> Deletes messages from the Logger.</li> <li>• <b>Print:</b> Prints current messages.</li> </ul>
<b>New</b>	Opens a submenu containing <b>Node</b> and <b>Node Group</b> commands. Use these two commands to organize local and remote nodes to monitor and manage logged messages. <ul style="list-style-type: none"> <li>• <b>Node:</b> Adds a node under a node group.</li> <li>• <b>Node Group:</b> Creates a new node group under which you can add and group nodes.</li> </ul>
<b>Open Log File</b>	Opens a log file containing logged messages.
<b>View Menu</b>	
<b>Filter</b>	Set criteria for displaying sets of logged messages.
<b>Find</b>	Search through messages according to specified criteria.

<b>View Menu</b>	
<b>Go To</b>	Go to a message based on its bookmark name.
<b>Bookmarks</b>	Manage bookmarks in your message log.
<b>Mark</b>	Add a marker line after the last message. Enter explanatory text for setting the mark in that position.
<b>Choose Columns</b>	Customize the column headings in the message window.

## Toolbar

The Log Viewer **Toolbar** gives quick access to frequently used commands. The toolbar is dynamic depending on which item is selected in the console tree or message window. Here is a list of all possible **Toolbar** icons.

<b>Icon</b>	<b>Icon Name</b>	<b>Description</b>
	<b>Back</b>	Jump backwards through previous selections in the console tree. Helpful if you have hidden the console tree.
	<b>Forward</b>	Jump forward through previous selections in the console tree. Helpful if you have hidden the console tree.
	<b>Up One Level</b>	Select the next item up in the console tree. Helpful if you have hidden the console tree.
	<b>Show/Hide Console Tree</b>	Toggle the console tree on and off.
	<b>Delete</b>	Delete the selected item in the console tree.
	<b>Refresh</b>	Update the messages in the message window.
	<b>Export List</b>	Export the console tree as an ASCII (.txt) file.
	<b>Help</b>	Open <b>help</b> for the MMC, the Log Viewer and other OCMC utilities.

Icon	Icon Name	Description
	<b>Filter</b>	Set filtering criteria for viewing only certain logged messages.
	<b>Enable/Disable Message Filter</b>	Toggle filtering on and off.
	<b>Find (Ctrl+F)</b>	Search for a logged message.
	<b>Fast Bookmark</b>	Set a bookmark for the highlighted message.
	<b>Fast Mark</b>	Mark sections of messages for special purposes.
	<b>Export</b>	Export all messages currently shown in the message window.
	<b>Print (Ctrl+P)</b>	Allows you to print all messages shown in the message window.
	<b>Print Preview</b>	Show messages as they would be printed. This icon is the only access to this function.

**Note:** You can select the MMC **Customize** command on the **View** menu to add and remove icons on the toolbar.

## Console tree

The console tree is the hierarchical structure displaying the items available to the console, such as the Default Group, the Local node, remote nodes, and a log file folder. Other items can include folders, snap-ins, controls, web pages, and other tools.

If the Local node is part of a Galaxy, the Galaxy is shown as a group. All platforms in the Galaxy are automatically shown beneath the Galaxy group.

- You can rename the Default Group.
- You can delete nodes from the Default Group.
- You cannot rename the Local node, the Galaxy group, nor any platform nodes.
- You cannot delete the Local node, the Galaxy group, nor any platform nodes.
- You cannot add or remove nodes in the Galaxy group.

The contents of the message window change as you select items in the console tree.

## Details pane

The details pane has four main elements.

Element	Description
<b>Description Bar</b>	Shows the name of the item selected in the console tree. This element is hidden by default. Select <b>Customize</b> on the <b>View</b> menu to display it.
<b>Time Header</b>	Shows the time range set in the Filter dialog box. To enable each time setting, <b>Start Time and End Time</b> , select the check box. To disable either time range setting, clear the check box.
<b>Column Header</b>	Shows descriptive titles for each shown column. You can rearrange the headers by clicking and dragging. To further customize headers, select <b>Choose Columns</b> on the <b>View</b> menu.
<b>Message Window</b>	Shows all logged messages, just those messages determined by filtering criteria, or just messages contained in a log file. To view details of a specific message, double-click it.

## Shortcut menus

A shortcut menu is a set of commands that appear when you right-click an item in the user interface. The Log Viewer provides several shortcut menus in the console tree and message window areas. The shortcut menus are dynamic depending on which item is in focus, which item you right-click, and which commands apply to the item.

The same commands in shortcut menus are sometimes shown in the menu bar. Some dialog boxes also use shortcut menus, and those commands do not appear on the menu bar. For more information about individual dialog boxes, see [Configure dialog boxes](#).

## Shortcut keys

The following table lists shortcut keys you can use to issue Log Viewer commands.

Shortcut Key	Associated Menu Command	Description
<b>ALT+F2</b>	<b>Bookmarks</b> on the <b>View</b> menu	Opens the <b>Bookmarks</b> dialog box.
<b>CTRL+A</b>		Selects all messages in the message window.
<b>CTRL+C</b>	<b>Copy</b> on <b>Shortcut</b> menu in text box or on selected message	Copies the selected messages to clipboard.

Shortcut Key	Associated Menu Command	Description
CTRL+F	Find on the View menu	Opens the <b>Find</b> dialog box to search messages in the message window.
CTRL+F2		Sets or removes a bookmark.
CTRL+G	Go To on the View menu	Opens the <b>Go To</b> dialog box to choose a bookmark to go to.
CTRL+P	Print on Messages submenu of the Action menu	Prints displayed log messages.
CTRL+R		Clears the message window by setting and enabling the current time as the <b>Start Time</b> for the filter.
CTRL+SHIFT+F2		Removes all bookmarks in the message window.
DELETE	Delete on the Action menu	Deletes the selected Node or Node Group from the console tree.
ENTER	Details on shortcut menu on selected message	Opens the <b>Message Details</b> dialog box for the selected message.
F2		From the <b>console tree</b> , renames the selected node group. From the <b>message window</b> , goes to the next bookmark. In <b>Bookmarks</b> dialog box, puts selected bookmark in rename mode.
F5	Refresh on the Action menu	Refreshes the message window.
SHIFT+F2		Goes to the previous bookmark.

## Configure Log Viewer

See the following dialog boxes to configure the Log Viewer.

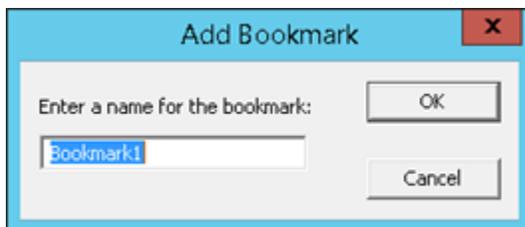
### Add bookmarks

You can insert a bookmark to return to a message later.

#### Add bookmarks

1. Right-click a message in the message window.
2. On the **Bookmark** menu, select **Add Bookmark**.

The **Add Bookmark** dialog box appears.



3. Accept the default name or create your own.
4. Select **OK**.

You cannot enter the same bookmark name for more than one message, and each message can have only one bookmark.

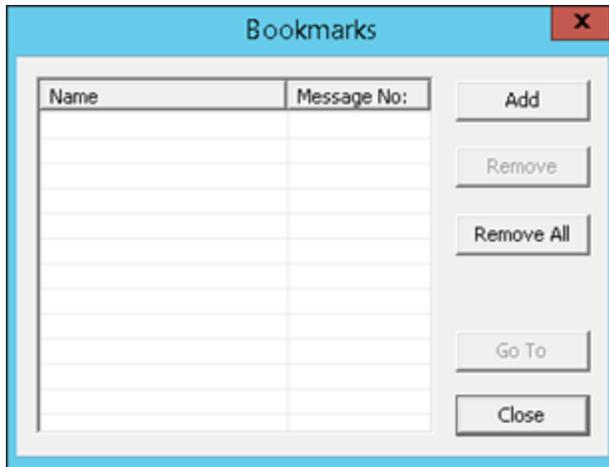
### Manage bookmarks

Manage bookmarked messages in your message log.

#### Manage bookmarks

1. On the **View menu**, select **Bookmarks**.

The **Bookmarks** dialog box appears.



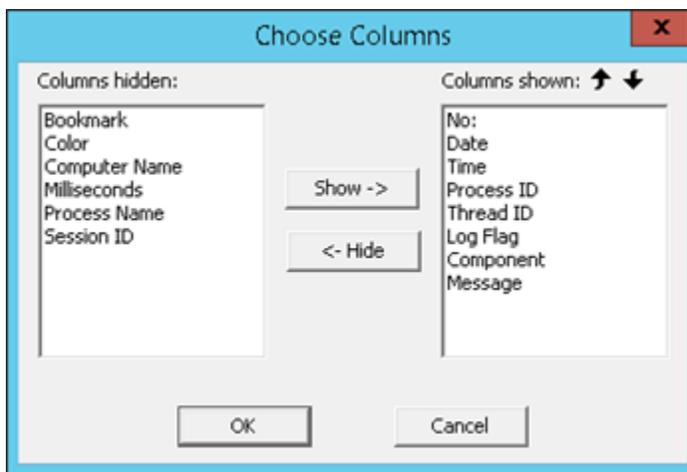
2. Do any of the following:
  - **Rename** a bookmark by selecting it and pressing **F2**.
  - **Go to** a message by double-clicking the bookmark in the list or by selecting it and clicking the **Go To** button.
  - **Add** a bookmark to the list that is associated with the message selected in the message window. The new bookmark is given a default name; press **F2** to rename it.
  - **Remove** the selected bookmark from the list.
  - **Remove All** bookmarks from your logged messages.
3. Select **Close**.

## Manage columns

Manage columns in the **Message** window or in the **Message Details** window.

### Manage columns

1. On the **View** menu, select **Choose Columns**. Alternatively, right-click a column heading, and select **Show**. The **Choose Columns** dialog box appears.



### Show a column

- Select a column name in the **Columns hidden** box and select **Show**.

### Hide a column

- Select a column name in the **Columns shown** box and select **Hide**.

### Shift the position of a column

- To move a column left or right, select a column name in the **Columns shown** box and select the **Up** or **Down** arrow.

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**Note:** These settings are saved to your user profile, and are shown on subsequent uses of the Log Viewer.

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## Configure dialog boxes

Use this dialog box to set global parameters for your local Log Viewer and Logger.

The **Configure** dialog box has two pages: Log Viewer and **Storage**.

Changes to settings on the **Storage** page of this dialog box affect the Logger you are currently connected to, including any Loggers located on remote computers.

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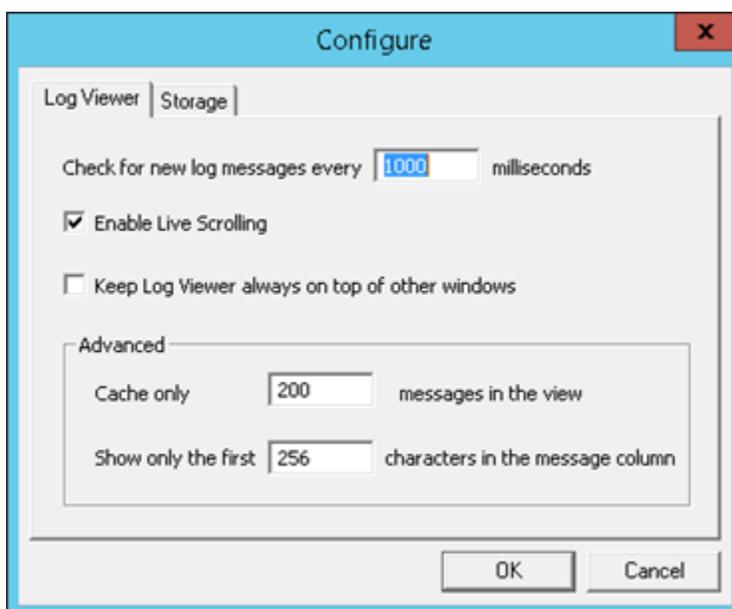
**Caution:** If you intend to change storage parameters for your local Logger, ensure that you are connected to it (select **Local** in the console tree). Also, be careful when changing default values on either page of this dialog box (such as the total disk space allowed for storing messages). Changes to these values can impact overall system performance.

---

For more information about configuring the Log Viewer, see [Configuring the Logger Storage Options](#)

To Open the dialog box, select **Action**, and then select **Configure**.

The **Configure** dialog box appears.



## Log Viewer page

The Log Viewer tab has the following options:

- **Check for new log messages every ... milliseconds:** Set how often your local Log Viewer checks for new messages logged to the Logger you are connected to. The default value is 1000 ms, the minimum is 100 ms, and the maximum is 3600000 ms (1 hour).

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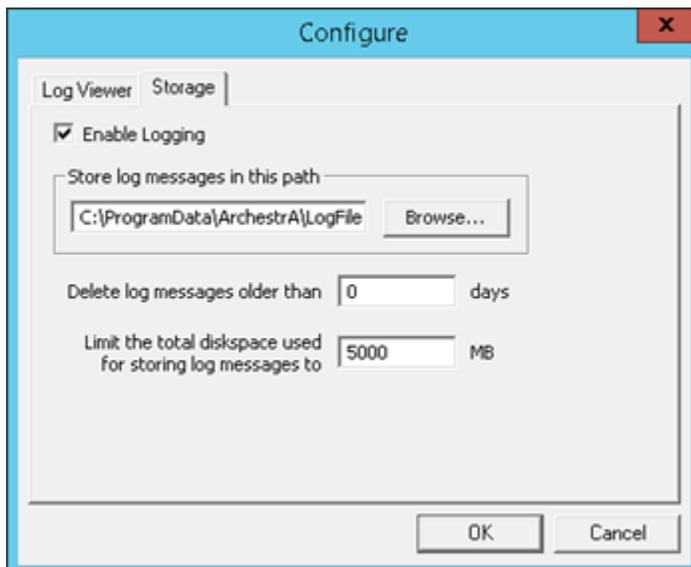
**Caution:** Setting a very small millisecond interval can impact system performance.

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- **Enable Live Scrolling:** Enable or disable live scrolling in the message window.
  - When live scrolling is enabled and you are viewing the end of the shown logged messages, a new message that appears on-screen causes the message at the top of the message window to disappear from view.
  - When live scrolling is disabled, you must scroll down to see new messages appended to the list of messages.
- **Keep Log Viewer Always on Top of Other Windows:** Keep the Log Viewer on your screen when you switch programs or windows.
- **Cache Only ... Messages in the View:** Set the maximum number of messages stored in cache.
- **Show Only the First ... Characters in the Message Column:** Set the maximum number of characters for any message in the **Message** column. The maximum is 8,192.

## Storage page

Select the **Storage** tab on the **Configure** page to open the **Storage** page.



The **Storage** tab has the following options:

- **Store Log Messages in this Path:** Set the path to the folder for all logged messages.

---

**WARNING!** In the next step, if you change the path, you will no longer be able to view messages previously logged to files in the current path. Before changing this path, we recommend that you first export all messages to a file. Use the Export command on the Messages submenu of the Action menu to create the

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export log file (.aaLGX extension). Then, you can view those messages by clicking Open Log File on the Action menu and opening the export log file.

1. Either type the path. Alternatively, **Browse** to explore. Network drives are not selectable. Select **OK**.
2. **Delete Log Messages Older Than ... Days:** Type the number of days after which logged messages are deleted, beginning with the oldest ones. Default value is 0 days (unlimited), maximum is 365 days.

**WARNING!** In the next field, if you set the value to zero (0) it could compromise the integrity of the components of the application running on that computer.

- **Limit the Total Diskspace Used for Storing Log Messages to ... MB:** Type the size limit (in megabytes) of disk storage allowed for all logged messages. The maximum value is 10000 (10 GB).

**Note:** The **Delete Log Messages Older Than ... Days** and **Limit the Total Diskspace Used for Storing Log Messages to ... MB** parameters operate as an OR function. When either condition is met, logged messages are deleted, beginning with the oldest.

## View remote logger messages

You can view messages stored by a Logger on a remote computer.

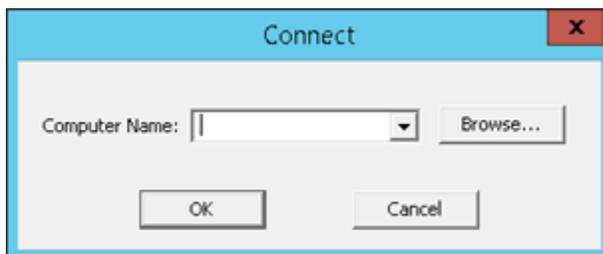
After you connect to the remote Logger, you can use the **Filter**, **Find**, and other Log Viewer functions to customize the messages.

The Log Flag Editor does not work with remote Loggers.

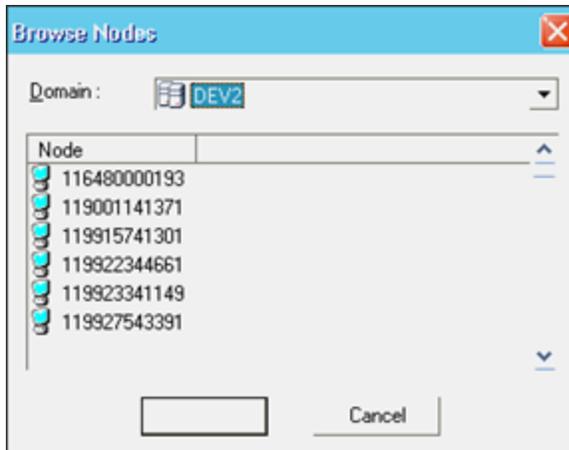
### Connect to a remote Logger

1. Select the **Action** menu, point to **Connect**, then select **Remote**.

The **Connect** dialog box appears.



2. Type a remote computer name in the text box, choose one from the drop down list, or Select **Browse**. The **Browse Nodes** dialog box appears.



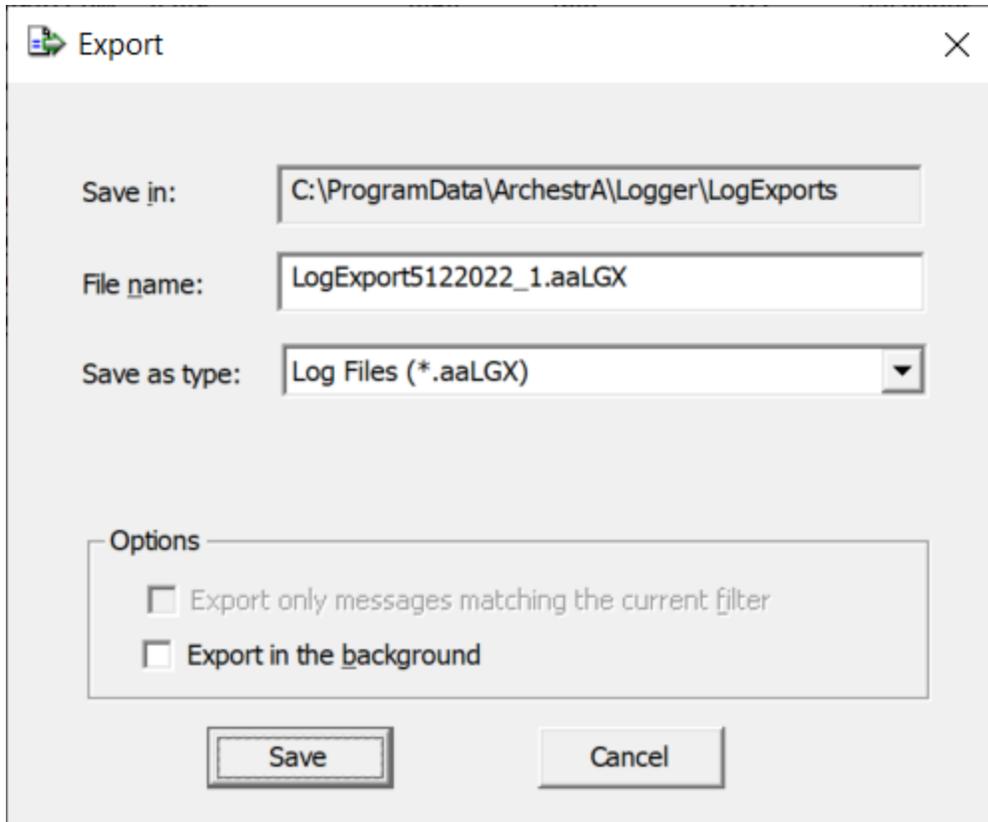
3. Select one of the nodes and select **OK**.  
Your selection appears in the **Computer Name** field of the **Connect** dialog box.
4. Select **OK** to establish the connection and display messages from that Logger.

## Export log messages

You can export the currently shown log messages to a log file. Log files have an .aaLGX extension. The default file name is LogExport with the current date in the format (mddyymm) appended as a suffix. You can edit the name of a log file but not its extension.

### Export log messages

1. From the **Action** menu, select **Messages**, then **Export**.  
The **Export** dialog box appears.



You can update the file name, but the Log file location cannot be changed.

The Log Viewer provides two additional options:

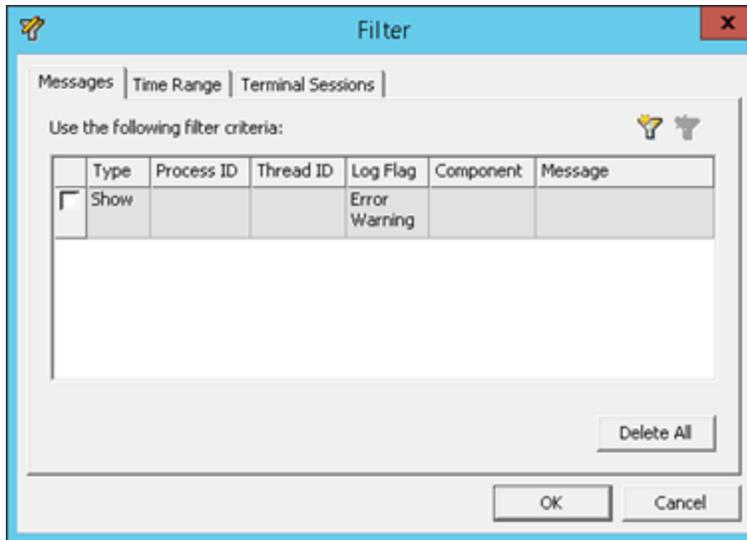
- **Export only messages matching the current filter:** Export only messages that meet the current filtering criteria.
- The **Export in the background** option is useful when you export a large number of logged messages, which could take a long time to complete.
  - If you clear this check box, Log Viewer commands and functions are unavailable until all messages are exported.
  - If you select this check box, you can then use all of the commands and functions of the Log Viewer while export is in progress.

## Filter messages

Filter logged messages according to criteria you select.

### Filter messages

- From the **View** menu, select **Filter**.  
The **Filter** dialog box appears.



## Messages page

Select the **Messages** tab to open the Messages page.

The **Messages** page has the following options:

- Each column, except **Type**, maps to a column heading in the Message Window.
- The first row (Error Warning in the **LogFlag** column) is not editable and cannot be deleted, although you can clear the **Show** check box.
- **Data rows** perform an **AND** operation (filter for messages that meet both criteria).
- **Data columns** perform an **OR** operation (filter for messages that meet either criteria).
- Use both **AND** and **OR** operations (multiple categories on multiple rows) to set complex filters.
- **New Filter** icon: Use to add a new row of filter criteria. After setting filtering criteria, the check box is automatically enabled for that row.
- **Delete Filter** icon: Use to remove a highlighted row of filter criteria.
- **Delete All**: Use this button to clear all filter criteria from this page.

### Set a filter

1. Select the **check box** of a new row to toggle between **Show** and **Hide**.
2. Double-click a category cell to type the filter criteria.
3. Select outside of the cell to set that criteria.

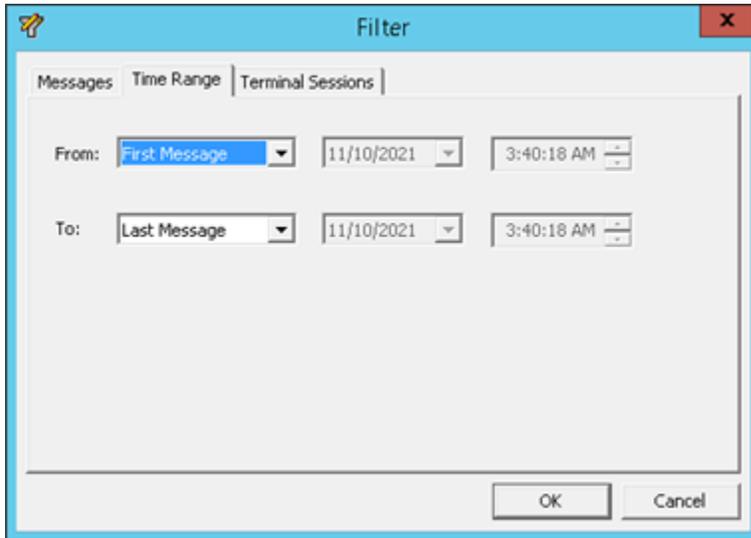
The **Messages** page also has two shortcut menus. When a category cell is in edit mode, right-click in the cell to display Microsoft® edit commands, such as copy and paste. Right-click outside a category cell to display the following commands:

- **Clear Field**: Erase the data in a category cell.
- **Add**: Add another row of filtering criteria.
- **Delete**: Delete a row of filtering criteria.

Use the **Enable/Disable Message Filter** icon on the toolbar to toggle on and off the filtering criteria you have set.

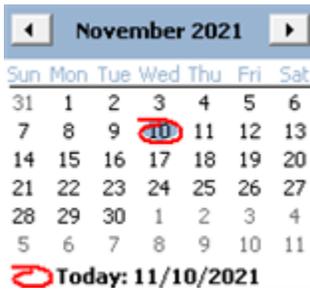
### Time range page

Select the **Time Range** tab to open the **Time Range** page.



The **Time Range** page has the following options:

- **From** and **To**: Set start and end points to display Logger messages. Select between **First Message**, **Last Message** and **Messages On**.
- Select **First Message** to display messages beginning with the first one stored in the current log file.
- Select **Last Message** to display messages ending with the last one stored in the current log file.
- Select **Messages On** to enable the beginning **date** and **time** for messages you want to display.
- To change **date** and **time** settings, scroll up or down to the target value.
- Select the **down arrow** in the **date** box to display a **calendar** in which you can select the desired **date**.



- Use the **right** and **left** arrows in the **calendar** to move between months.

The filter specifications you configure on this page are immediately shown in the time header of the details pane.

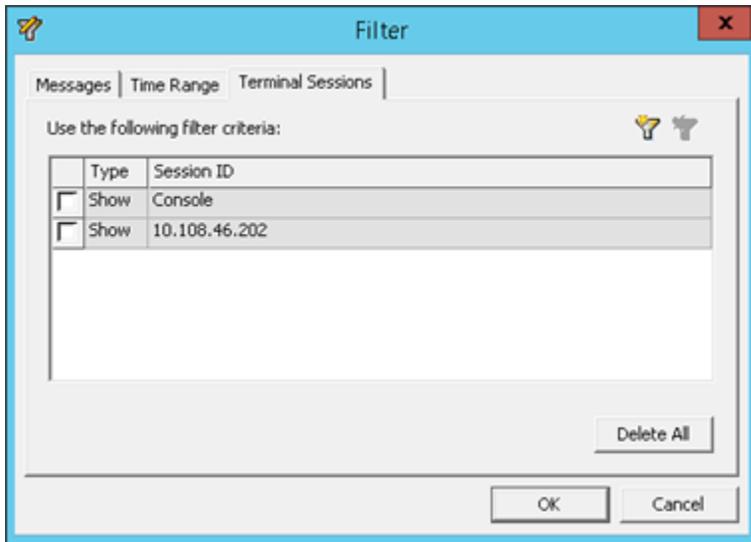
- If you used a **From** setting, the **Start Time** check box in the time header is automatically selected and the settings on this page of the Filter dialog box are shown.
- If you used a **To** setting, the **End Time** check box in the time header is automatically selected and the settings

on this page of the Filter dialog box are shown.

**Note:** This function does not delete logged messages, but only affects the display of messages in the message window of the Log Viewer. To view all logged messages again, clear the Start Time and End Time check boxes.

## Terminal sessions page

Select the **Terminal Sessions** tab to display the **Terminal Sessions** page.



The **Terminal Sessions** page has the following options:

- The **Session ID** column maps to a column heading you can display in the message window.
- The **Type** column and its enabling check box determine whether the criteria set in the **Session ID** column is shown or not.
- The first row is not editable and cannot be deleted, but you can select or clear the **Show** check box.
- Double-click in the **Session ID** cell to type filter criteria.
- Select outside of the cell to set that parameter. Data columns perform an **OR** operation. That is, they filter for messages that meet either criteria.
- **New Filter** icon: Add a new row of filter criteria.
- **Delete Filter** icon: Remove a highlighted row.
- **Delete All**: Clear all filter criteria from this page.

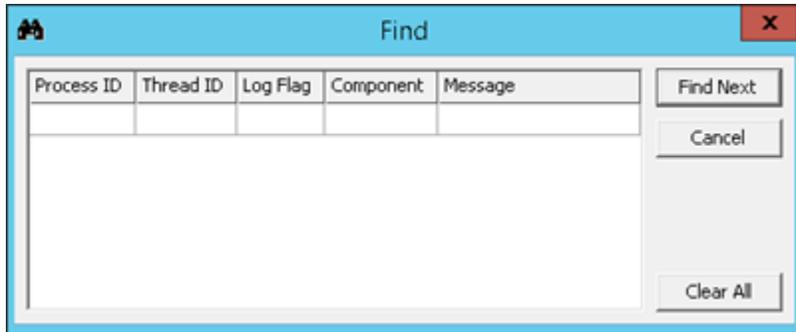
The **Terminal Sessions** page has two shortcut menus. When a **Session ID** cell is in edit mode, right-click in the cell to display Microsoft® edit commands, such as copy and paste. Right-click outside a **Session ID** cell in edit mode to display the following commands:

- **Clear Field**: Erase the data in a **Session ID** cell.
- **Add**: Add another row of filtering criteria.
- **Delete**: Delete a row of filtering criteria.

Use the **Enable/Disable Message Filter** icon on the toolbar to toggle on and off the filtering criteria you have set.

## Find a message

- From the **View** menu, select **Find**.  
The **Find** dialog box appears.



Use the five search categories, **Process ID**, **Thread ID**, **LogFlag**, **Component**, and **Message** to search through messages shown in the message window. These categories map to column headings in the Log Viewer message window.

---

**Note:** The **Find** function searches only through messages currently shown. If you have applied a filter, only those messages are included in your search. If you want to search all logged messages, select the **Enable/Disable Message Filter** icon on the toolbar, and then run your search. Also, if you are currently viewing messages saved in a log file, only those messages are included in your search. If you want to search runtime messages, select the node in the console tree under Default Group, and then run your search.

---

For more information, see [Search for messages](#).

The Find dialog box has the following options:

- **Data entry window:** Use this window to specify search criteria. The **Process ID** and **Thread ID** categories require numeric data; the others accept alphanumeric characters. Double-click a category box to type search data. Select **Add** on the shortcut menu to specify another row of search criteria. Data rows perform an **AND** operation (search for messages that meet both criteria). Data columns perform an **OR** operation (search for messages that meet either criteria). Use both **AND** and **OR** operations (multiple categories on multiple rows) to perform complex searches.
- **Find Next:** Select to search for the first message that meets the search criteria in the data entry window. Repeat to find the next message that also meets the search criteria.
- **Cancel:** Select to close the Find dialog box without searching for a message.
- **Clear All:** Select to erase all search criteria from the data entry window.

The **Find** dialog box provides two shortcut menus. When a category box is in edit mode, right-click in the cell to show standard Windows edit commands, such as **copy** and **paste**. Right-click outside a category cell to display the following commands:

- **Clear Field:** Use to erase the data in a category box. This command is only available when you right-click in a category cell that has data.
- **Add:** Use to add another row of search criteria. The column you right-click is put in edit mode.
- **Delete:** Use to delete a row of search criteria. The row you right-click is deleted.

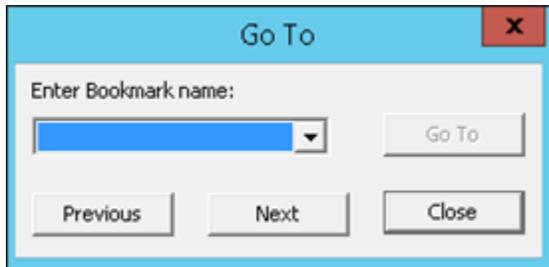
## Go to a specific message

You can go to a specific message in the message window that has been bookmarked.

**Note:** You cannot go to bookmarked messages that are currently hidden by a filter. If you cannot find the desired message, disable filtering and try again.

For more information, see [Manage bookmarks](#).

- From the **View** menu, select **Go To**. The **Go To** dialog box appears.



The **Go To** dialog box has the following options:

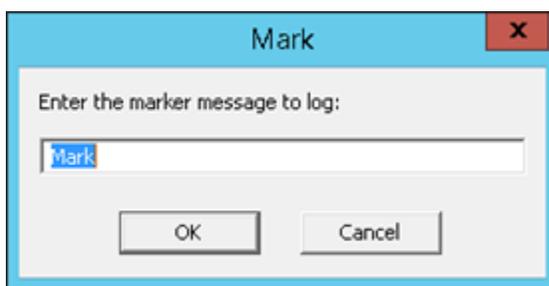
- **Enter Bookmark Name:** Type the bookmark name or select one from the list.
- **Go To:** Select to go to the message highlighted.
- **Previous:** Highlight the previous bookmarked message.
- **Next:** Highlight the next bookmarked message.

## Enter a marker message

Enter a time stamped entry in the Logger.

- From the **View** menu, select **Mark**.

The **Mark** dialog box appears.



The text you type in the **Enter the Marker Message to Log** box is shown in the Message column of the resulting marked message in the Logger. The marked message becomes a time stamped entry as shown in the message window below.

Default text is **Mark**. Two marked messages are shown in the image below.

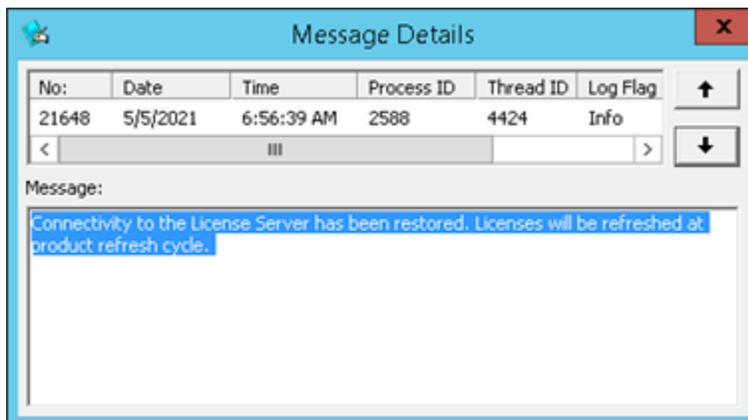
No:	Date	Time	Process ID	Thread ID	Log Flag	Component	Message
21634	5/5/2021	4:25:47 AM	2888	2812	Info	LicServer SamSer...	License Server Sam Agent Started.
21635	5/5/2021	4:25:49 AM	1564	904	Info	LicServer	License Server Agent Service Started.
21636	5/5/2021	4:25:50 AM	1564	904	Info	LicServer	License Server Started.
21637	5/5/2021	4:25:51 AM	1564	904	Info	LicServer	AELicServer Monitor Thread Started
21638	5/5/2021	4:34:56 AM	5468	5104	Info	LMWeb.Controller	MAGELLANDEY2000\jwuser Authorization
21639	5/5/2021	4:34:58 AM	5468	5104	Info	LMWeb.Controller	The License Server you are trying to add is
21640	5/5/2021	4:36:44 AM	5468	1504	Info	LicServAPI	Activation operation Completed.
21641	5/5/2021	4:36:45 AM	5468	1504	Error	LMWeb.Repository	Activation ID (5SKN-T1Z6-SO7M-8P0U) is ir
21642	5/5/2021	4:36:45 AM	5468	1504	Error	LMWeb.Repository	Activation ID (F630-4DE7-2W4M-DPK9) is
21643	5/5/2021	4:36:45 AM	5468	1504	Error	LMWeb.Repository	Activation ID (46RD-MWU0-MSYS-1A1L) is
21644	5/5/2021	4:36:46 AM	2588	4424	Info	ProductLicenseSe...	Connectivity to the License Server has bee
21645	5/5/2021	6:27:41 AM	5468	4908	Info	LMWeb.Controller	MAGELLANDEY2000\jwuser Authorization
21646	5/5/2021	6:27:43 AM	5468	1316	Info	LMWeb.Controller	The License Server you are trying to add is
7	11/9/2021	9:09:22 AM	1324	1492	Info	LicServer	License Server Started.
8	11/10/2021	3:46:43 AM	4332	3372	Mark	Log Viewer	Mark

**Caution:** When connected to a remote node, the **Mark** command places a message in the remote computer’s log file. If you do not want to make actual changes to the remote log file, use the **Bookmark** or other Log Viewer commands that affect only your display of those messages and do not actually affect the remote log file.

## View message details

View messages and details about messages in the **Message Details** dialog box.

Double-click a message in the message window to open the **Message Details** dialog box.



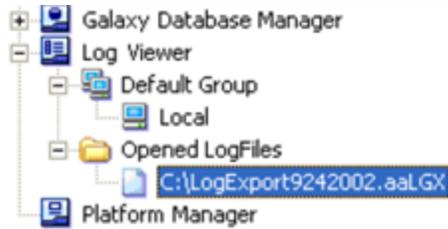
- Scroll through messages by clicking the up and down arrows.
- Select one of the five column heads, **Process ID**, **Thread ID**, **LogFlag**, **Component**, or **Message** to sort messages according to category.

## Open a log file

From the **Action** menu, select **Open Log File**. The typical Microsoft open dialog box appears. Use this dialog box to locate and open a log file of saved messages.

After you select the desired log file and select **Open**, the saved log messages appear in the message window.

The path and name of the opened log file are shown and highlighted in the console tree below **Opened Log Files**.




---

**Note:** Opening a log file does not affect the message logging process in the background, and you can view those messages by clicking **Local** or another node in the console tree.

---

When you are viewing an opened log file, you can do filtering, searching, printing, and exporting functions on the messages. For example, you can filter the contents of the log file and then export just that subset of messages to another log file. After you apply a filter to the contents of a log file, you must select **Refresh** on the **Action** menu to see the results.

## Print dialog box

### Print shown log messages

- From the **Action** menu, select **Messages**, and then **Print**.  
The Microsoft **Print** dialog box appears.

## Purge dialog box

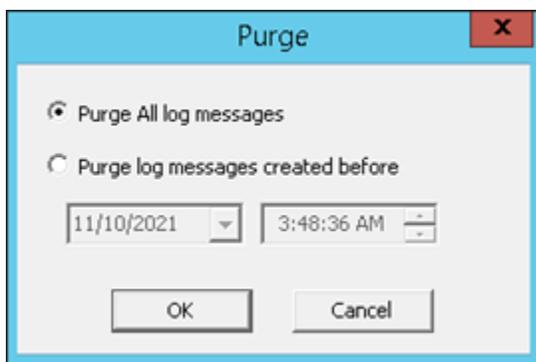
Older messages are automatically purged from the Log Viewer after they exceed the maximum number of days specified with the **Delete Log Messages Older Than ... Days** option of the **Configure** dialog box. Also, you can manually delete messages from the Logger using the **Purge** dialog box.

---

**Caution:** Export all logged messages before you purge messages from the Logger. The purge function deletes messages from the Logger.

---

1. From the **Action** menu, select **Messages**, and then select **Purge**.  
The **Purge** dialog box appears.



2. Select the messages you want to purge by doing one of the following:
  - Select **Purge All Log Messages** to delete all messages currently stored in the Logger.
  - Select **Purge Log Messages Created Before** to purge messages created before a date and time you

specify.

3. Select **OK** to purge the messages you selected.

# Get Started with Log Flag Editor

The Log Flag Editor is a utility within the Log Viewer. It allows you to assign flag values to each category of messages issued by a System Platform component. By switching flags on or off, you can control which message categories are saved to the Logger. Additionally, log flags can be used to assign message categories to other System Platform components.

Most message categories are not logged by default. Typically, a component only issues error, warning, and informational messages. Other message categories remain inactive.

The Log Flag Editor is primarily used as a troubleshooting tool. It enables you to activate additional message categories when a component begins logging error messages. This allows more diagnostic messages to be saved to the Logger.

## Start Log Flag Editor

You can access Log Flag Editor utility from Log Viewer. This procedure explains how to start Log Flag Editor from a node in which the Operations Control Management Console has been installed.

### Start Log Flag Editor

1. Open the **Log Viewer**.
2. Expand the **Log Viewer** list to show nodes.
3. Select the node from the **Log Viewer** list that you want to enable with logging flags.
4. On the **Action** menu, select **Log Flags**.

The **Log Flag Editor** dialog box appears with a list of System Platform components associated with the node you selected.

---

**Note:** To perform operations like configure, Log Flags, and Purge, you need to be an administrator or member of aaLoggerManagement group.

---

## Work with Log Flag Editor

You can use the Log Flag Editor to manage the messages saved to the Logger.

Log Flag Editor tasks include the following:

- Starting the Log Flag Editor
- Enabling log flags for a single component
- Enabling global log flags
- Enabling log flags for multiple components
- Using shortcut menus
- Saving log flag settings to a file
- Using the Log Flag Editor on remote nodes

## Understand log flags

Each message sent to the Logger by an installed component belongs to a specific message category. Each message category has an associated log flag.

The status of a log flag indicates whether messages that belong to the message category are logged or not. When a log flag is active, the messages from the category are logged. Conversely, an inactive log flag prevents messages from being logged.

There are two types of log flags:

- **Default log flags**  
All installed components include default log flags, which are associated with standard message categories.
- **Custom log flags**  
Custom log flags apply to unique message categories that are used by only a few installed components.

## Default log flags

All installed components include a set of default log flags for standard categories of messages. For example, all HMI/SCADA components can produce error, warning, and informational messages. These standard message categories have associated default log flags.

The following table lists default log flags for the standard message categories.

Default Log Flag	Description
Error	The Error log flag determines if error messages are logged. By default, the Error log flag is active for all HMI/SCADA components.
Warning	The Warning log flag determines if warning messages are logged. A warning message indicates that an unexpected event occurred, but the component was able to recover. By default, the Warning log flag is active for all HMI/SCADA components.
Info	<p>The Info log flag determines if informational messages are logged.</p> <p>An informational message describes the outcome of normal program events.</p> <p>By default, the Info log flag is active for all installed components.</p>

Default Log Flag	Description
Trace	The Trace log flag determines if trace messages are logged. Trace messages describe internal object states, variable values, and other low level data from the component.
Scan On Demand	The Scan On Demand log flag determines whether scan on demand-related MxConnection calls, reference counts, and suspend counts are logged. Also, the Scan On Demand log flag determines whether the routing of scan on demand messages to on-engine and off-engine objects are logged.
SOD_BRO	The SOD_BRO log flag determines whether tracing is enabled between the Lmx and the BRO.
SOD_BROProxy	The SOD_BROProxy log flag enables tracing when an interface is used to route a scan on demand message between a primitive and another primitive within the current object.
SOD_PrimProxy	The SOD_PrimProxy log flag determines whether tracing is enabled for the scan on demand interface between the BRO or a BRO proxy and a primitive proxy.
Start-Stop	The Start-Stop log flag determines if messages are logged that show when a component is started or stopped.
Entry-Exit	The Entry-Exit log flag determines if messages are logged that show when a program function was invoked.
ThreadStart-Stop	The ThreadStart-Stop log flag determines if messages are logged that indicate a program thread has started or stopped.
SQL	The SQL log flag determines if SQL messages are logged. Typically, SQL messages show SQL query strings issued by the component.

Default Log Flag	Description
Connection	The Connection log flag determines if communication messages are logged. Communication messages describe the status of network connections between installed components.
Ctor-Dtor	The Ctor-Dtor log flag determines if constructor/ destructor messages are logged. These messages describe the status of objects as they are created and deleted from memory.
RefCount	The RefCount log flag determines if reference count messages are logged. Reference messages show the counts from objects that manage their life span by counting their clients.

For more information about setting log flags, see [Control logged messages](#).

## Custom log flags

Most System Platform components have unique messages that do not belong to a default log flag category. In those cases, you must create custom log flags and assign them to unique component messages.

Several components can share a custom log flag if they send similar messages that fit into that category and if they assign those messages to the custom log flag. Another component cannot use a custom log flag if it did not assign a message to that log flag.

For more information about creating custom log flags, see [Use shortcut menus](#).

## Manage log flags

This chapter outlines procedures for managing log flags. It covers topics such as enabling log flags, controlling logged messages, and handling log settings at various levels (individual components, global, and multiple components).

## Control logged messages

The Log Flag Editor provides several ways to select messages for logging.

- You can enable log flags for an individual System Platform component.
- You can set global log flags that apply to all System Platform components.
- You can set log flags for multiple components, but not on a global basis.

You can select a specific component from the **Component List** view to specify which categories of messages are

logged for that component.

### Enable a log flag

- Select its check box.

### Disable a log flag

- Clear its check box.

You can select **Global** in the **Component List** view to enable a log flag for all components. If the check box for a log flag appears shaded, that log flag is enabled for at least one component, but not globally.

## Enable log flags for single component

You can set log flags for a single System Platform component. The scope of the log flags apply to the message categories of a single System Platform component.

Log flags for the Error, Warning, and Info message categories are active for all components. When you select a component, you should see these log flags already set.

### Set log flags for a single component

1. Select a component from the **Component List** view.  
The **Log Flags** view shows the log flags for the component you selected.
2. In the **Log Flags** view, select the check boxes of the log flags you want to enable.
3. On the **File** menu, select **Apply**.  
All component messages from the selected categories are logged.

## Enable global log flags

You can globally enable log flags to log the messages from all components installed on the selected node.

### Use log flags on a global basis

1. In the **Component List**, select **Global**.  
The **Log Flags** view shows the log flags from all System Platform components installed on the selected node.
2. In the **Log Flags** view, select the check box of the log flag you want to enable.
3. On the **File** menu, select **Apply**.  
All messages associated with the selected log flag are logged.

## Enable log flags for multiple components

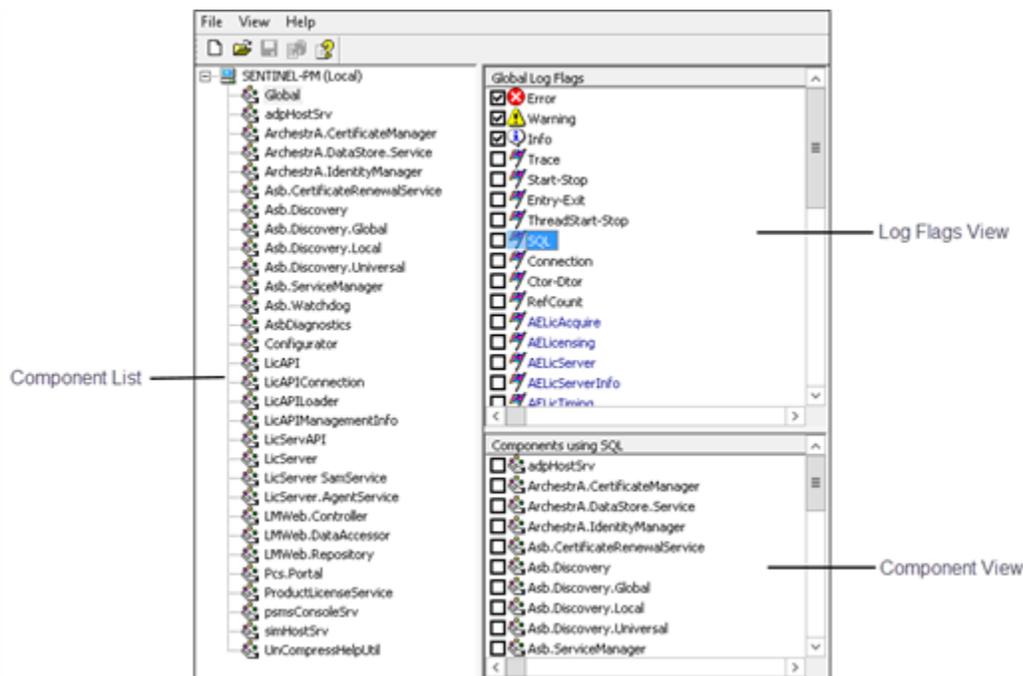
If you want to log messages for multiple components, you can enable the log flags globally and select only those log flags for the components whose messages you do not want logged.

### Enable log flags for multiple components

1. In the **Component List**, select **Global**.  
The **Log Flags** view shows the log flags for all System Platform components installed on the selected node.
2. In the **Log Flags** view, select the name of the log flag you want to enable.  
The **Component** view shows all components that use the selected log flag.
3. In the **Component** view, select only the check boxes of the components for which you want to enable the selected log flag.  
The check box for the selected log flag appears shaded, indicating that at least one component that uses this log flag is enabled.
4. On the **File** menu, select **Apply**.  
All messages from the enabled components that are associated with the selected log flags are logged.

### Use shortcut menus

The Log Flag Editor includes two shortcut menus. Each menu includes a set of commands that apply to either log flags or System Platform components. You can show both shortcut menus by right-clicking in a view area of the Log Flag Editor dialog box.



### Log flags view

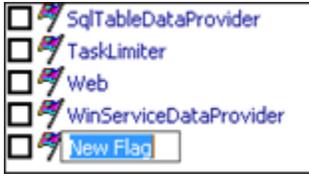
After right-clicking in the **Log Flags** view, a shortcut menu shows the following commands:

- **All Flags ON**  
This command enables all log flags shown in the view for the component selected in the Component List.
- **All Flags OFF**

This command disables all log flags shown in this view for the component selected in the Component List.

- **Add Custom Flag**

Use this command to create a new custom log flag. The new custom log flag appears at the bottom of the list of the Log Flags view.



Assign another name to the custom log flag.

You cannot use the **Add Custom Flag** command to create a functioning log flag. The Log Flag Editor updates the permanent set of log flags for each component when you install new System Platform components on the selected node.

You can create a custom flag to add a custom flag that exists on another computer, save the log flag settings to file, and then use the file to control messages on that other computer (if you could not do so remotely).

- **Remove Custom Flag**

Use this command to remove a custom log flag from the Log Flags view. Select the custom log flag from the list and right-click within the Log Flags view to show the shortcut menu. Select the **Remove Custom Flag** command. You are prompted to confirm the deletion.

## Component list view

After right-clicking in the **Component List** view, a shortcut menu shows the following commands:

- **Add Component**

This command adds a new component to the Component List view. The new component appears at the bottom of the Component List view. You should assign another name to the new component.

You can not use the **Add Component** command simply to create a functioning component. The Log Flag Editor only updates the Component List with new components when you install new System Platform components on the selected node.

You can use this command to add a component that exists on another computer, save the log flag settings to file, and then use the file to control messages on that other computer (if you could not do so remotely).

- **Remove Component**

This command deletes a component from the list. You are prompted to confirm the deletion before the component is removed. Right-click anywhere in the Component List to show this command, although it is unavailable for Local or Global selections.

If you remove a component from the list that exists on your computer, it reappears in the list when you restart the Logger and Log Flag Editor. Typically, you remove components from the Log Flag Editor after you remove System Platform components from the computer.

## Save log flag settings to a file

The Log Flag Editor provides the capability to save your current log flag settings to a file. Generally, you save

current log flag settings to a file when you want to:

- Back up commonly used log flag settings
- Store special-purpose log flag settings
- Use log flag settings on another computer

After you save the log flag settings, you can import the file settings to another instance of the Log Flag Editor. The components and log flags shown in the Log Flag Editor reflect those of the selected node.

When you use the Log Flag Editor to edit a log flag settings file, the name of the file appears in the tree view root. The title bar and status bar continue to show the node to which you are currently connected. You can apply the file's settings to the selected node or select the New command on the File menu to return to the selected node's active configuration.

## Save log flag settings

You can save the current settings of the Log Flag Editor to a file. After you save the file, you can copy these settings to the Log Flag Editor on another computer.

By default, the Log Flag Editor saves the file with name of the node where the Operations Control Management Console is installed. You must save the file with an .aaLGF extension.

### Save log flag settings to a file

1. Open the **Log Flag Editor** dialog box.
2. Set all components and log flags as desired.
3. On the **File** menu, select **Save As**.  
The **Microsoft Save As** dialog box appears.
4. In the **Save As** dialog box, enter a path and name for the file. The file name must use the .aaLGF extension.
5. Select **Save**.

## Import log flag files

You can import log flag settings from a file to an Log Flag Editor session. The imported log flag settings exist for the duration of the current Log Flag Editor session. The original log flag settings return after you close and then re-open the Log Flag Editor. But, you can edit the imported log flag settings from the session and save them to a file again.

---

**Note:** You can open a log flag settings file by right-clicking it from Windows Explorer and selecting **Edit** on the shortcut menu. Also, you can apply new log flag settings from a file to the selected node by double-clicking it from Windows Explorer. You are prompted to confirm that you want to apply the log flag settings.

---

### Open a log flag settings file

1. From **Windows Explorer**, navigate to the folder where the file containing log flag settings is located.
2. Right-click the file name to show an **Action** menu.
3. On the **Action** menu, select **Apply**.

A dialog box asks you to confirm that you want to apply the log flag settings to the node.

4. Select **Yes**.

A dialog box appears and confirms that the log flag settings have been successfully applied to the node.

## Log Flag Editor on a remote node

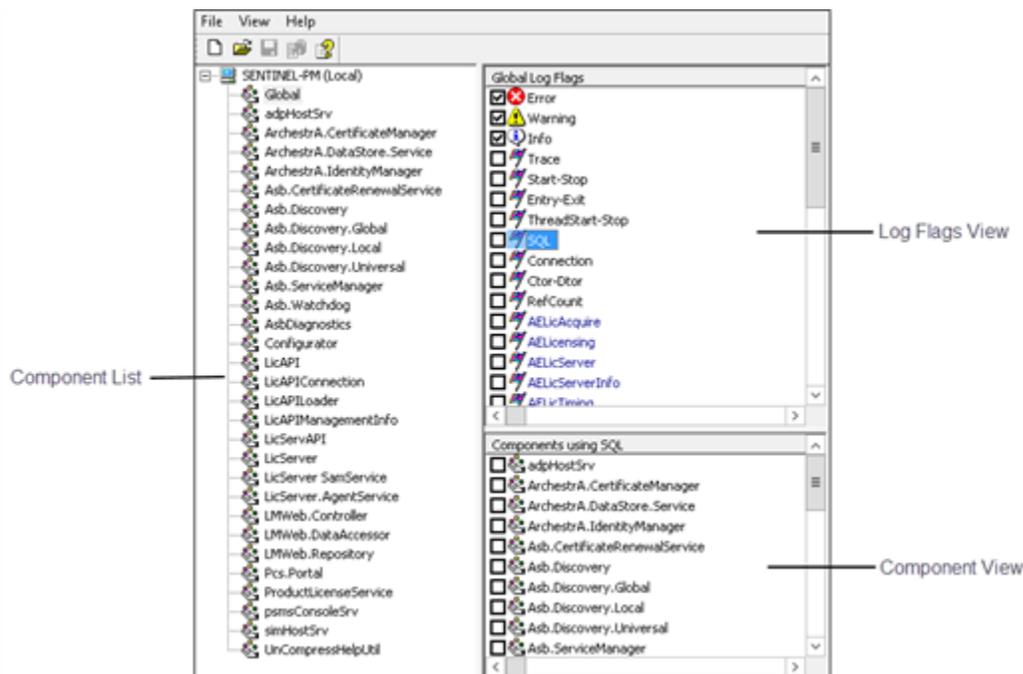
You can connect to a remote Log Flag Editor from your local node. After you connect to the remote node, you can use the remote Log Flag Editor to complete all standard tasks as if they were done on a local computer.

### Use Log Flag Editor on a remote node

1. Open the **Operations Control Management Console** installed on your local node.
2. Select **Log Viewer**.
3. On the **Action** menu, select **Connect** and then **Remote**.  
The **Connect** dialog box appears.
4. In the **Computer Name** box, enter the node name of the remote computer and select **OK**.  
The **Log Viewer** list refreshes and shows the remote node.
5. Select the remote node from the **Log Viewer** list.
6. On the **Action** menu, select **Log Flags** to open the Log Flag Editor dialog box.  
The node name of the remote Log Flag Editor appears in the title bar.

## Log Flag Editor user interface

The Log Flag Editor lists all System Platform components installed on the node you selected. You enable or disable message logging by setting the log flags associated with the selected component's message categories.



## Work with the Log Flag Editor

1. Select a System Platform component from the **Component List**.
2. Set the status of log flags assigned to the component from the **Log Flags View**.
3. Assign any additional System Platform component to the log flags you have selected.
4. Select **Save**.

## Component list

The left pane of the main window shows the list of System Platform components installed on the node you selected from the Log Viewer. The root of the component list is the node you selected from the Log Viewer list.

After you select a component, only those log flags associated with that component's message categories appear in the Log Flags View pane. You can select Global from the component list and show all log flags associated with all message categories in the Log Flags View pane.

The Log Flag Editor does not dynamically update the component list. You must restart the Log Flag Editor to show a new component installed on the node. When you remove an System Platform component from the selected node, you must use the Log Flag Editor's Remove Component command to remove it from the component list.

## Log flags view

The top right pane of the Log Flag Editor dialog box is the **Log Flags** view. This view shows all log flags associated with the message categories of the component selected from the Component List.

The log flags shown in this view correspond to the items shown in the Log Flag column of the Log Viewer.

### Log component messages

- Select the check box of a log flag to log component messages that belong to that message category.  
The title of the view shows the name of the component you selected. The **Log Flags** view lists the default log flags in black text followed by the custom log flags in blue text.

## Component view

The bottom right pane of the main window is the **Component** view. This view shows all components with messages associated with the log flag selected in the Log Flags view. You can use the Component view to select only those components that log messages of the log flag type selected.

The Log Flags view and Component view dynamically interact depending on your selections. For example:

- Select a log flag (just the log flag name) and all components with messages associated with that log flag appear in the Component view.
- Select a log flag's check box and the check boxes of all components in the Component view are enabled. Clear the log flag's check box and the check boxes of the components are cleared.
- Select a log flag's check box and the check boxes of all components in the Component view are enabled. Clear one component's check box and the log flag's check box appears shaded, indicating that at least one component that uses this log flag is disabled.

# Get Started with Log Monitor

The Log Monitor provides a centralized utility for monitoring the status of a Local Logger as well as remote Loggers on all Platforms under the Galaxy group and user-configured node groups.

The primary purpose of the Log Monitor is to provide a single place for you to determine whether any error/warning conditions exist in the ArcestrA environment. The user interface provides icon and, if configured, audible notification if errors arise on a node.

The list of Loggers shown in the Log Monitor is derived from the list of nodes in the Console Tree of the Log Viewer utility. It includes all Platforms under the Galaxy group, the Local node (your computer) and all configured node groups. Each node appears once in the Log Monitor's logger list even if a node has been included in more than one node group in the Log Viewer.

The Log Monitor dynamically changes when a user modifies the node group hierarchy in the Operations Control Management Console. For instance, adding new nodes or deleting existing ones is automatically updated in the Log Monitor logger list. This list of nodes is not persisted when you quit the Log Monitor, but rather is created when the utility is started.

## Start Log Monitor

### Start the Log Monitor

1. Browse to **C:\Program Files (x86)\Common Files\ArcestrA**.
2. Right-click **aaLogMonitor.exe**, and then select **Run as Administrator**. Alternatively, double-click **aaLogMonitor.exe**.

The **User Account Control** dialog box appears.

3. Select **Yes**.

The **Log Monitor** window appears.

If you attempt to start the Log Monitor when it is already running, the existing instance of Log Monitor is activated and its main window is brought to the foreground.

---

**Important!** If the Monitor command is unavailable on the **Action** menu, you have not installed Microsoft's .NET Framework on your computer. The .NET Framework must be installed for the Log Monitor utility to operate.

---

### Minimize and restore the Log Monitor utility

- To minimize the utility, select the **Minimize (–)**. A minimized Log Monitor does not appear on the task bar. It is represented by an icon in the System Tray. For more information, see [System tray icon](#).

---

**Note:** When the main window is minimized, the utility continues monitoring the status of all listed Loggers in the background.

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- Double-click the **System Tray** icon to restore the Log Monitor.

### Quit the Log Monitor

- Select **Close (X)** to quit the Log Monitor.

## Work with Log Monitor

You can use the Log Monitor to monitor the status of a Local Logger as well as remote Loggers.

### Shortcut keys

Shortcut Key	Associated Option Menu Command	Description
CTRL+A		Selects all nodes.
CTRL+R	Reset	Resets selected nodes
CTRL+N	Connect	Reconnects to selected nodes.
F5	Refresh	Refreshes the status of selected nodes.
F1	Help	Starts Help.

### Support dialog boxes

In the process of using the Log Monitor, you may open one of the following dialog boxes. These dialog boxes allow you to understand and configure the underlying functions of the Log Monitor.

- About Log Monitor Dialog Box
- Configure Dialog Box

#### About Log Monitor dialog box

You can determine the software version and other information about the Log Monitor.

- Select **About Log Monitor** on the utility's **Option** menu.  
The **About Log Monitor** dialog box appears.

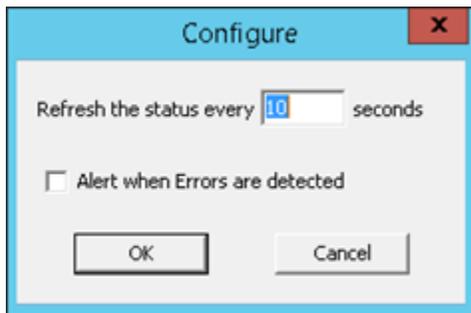


## Configure dialog box

You can set auto-refresh and error alert parameters. These settings are the only Log Monitor parameters persisted over a quit/restart of the utility.

- Select **Configure** on the utility’s **Option** menu.

The **Configure** dialog box appears.



The **Configure** dialog box is comprised of the following options:

<p><b>Refresh the status every ... seconds</b></p>	<p>Sets how often the Log Monitor refreshes the data for each node it has successfully made a connection with. Default value is 10 seconds, minimum is zero (turns off automatic refresh), and maximum is 9,999 seconds.</p>
<p><b>Alert when Errors are detected</b></p>	<p>Enables/disables an audible signal when a node’s Logger changes to Errors condition. The alert is in the form of a system beep lasting for one (1) second. Default setting is unchecked (disabled).</p>

## Log Monitor user interface

The Log Monitor user interface is comprised of the following components:

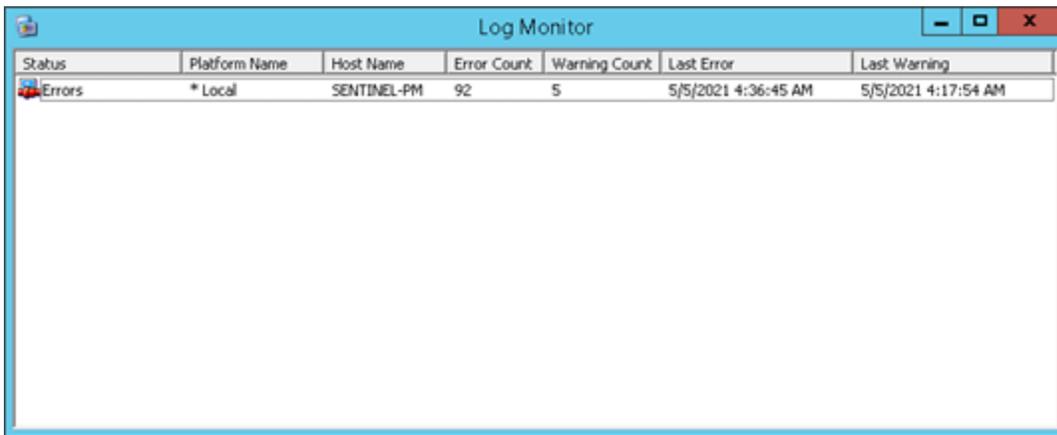
- Main window

- System tray icon
- Option menus
- Supporting dialog boxes

## Main window

The main window is comprised of the following components:

- Title bar
- Column headings
- Logger list



The title bar displays the utility’s name. The logger list displays, by default, the list of nodes shown in the Console Tree of the Log Viewer utility, including all Platforms under the Galaxy group, the Local node (your computer) and all configured node groups. The column headings display descriptive titles for each column, include the following default headings:

<p><b>Status</b></p>	<p>Indicates the current status of the Logger, including the following states:</p> <ul style="list-style-type: none"> <li>• Errors – Indicates the Logger contains error messages and may contain warning messages.</li> <li>• Warnings – Indicates the Logger contains warning messages but no error messages.</li> <li>• OK – Indicates either the Logger has no error/warning messages or that it has been reset (see the Reset command in Option Menus for more information about resetting a node).</li> <li>• Connecting – Indicates the Log Monitor is attempting to establish a connection with a node for the purpose of querying its status.</li> <li>• Unable to connect – Indicates the Log Monitor was not able to establish a connection with a</li> </ul>
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	node.
	<ul style="list-style-type: none"> <li>• Connection lost – Indicates the connection between the Log Monitor and a node has been broken. The icon indicates the last known status of the node’s Logger.</li> </ul>
<b>Platform Name</b>	Indicates the name of the node. If the node represents a Platform in a Galaxy, it is the name of the Platform. If the node is not a Platform, it is the name of the node with a leading asterisk.
<b>Host Name</b>	Indicates the name of the node.
<b>Error Count</b>	Indicates the number of error messages recorded by the node’s Logger. Using the Reset command on a node sets its Error Count to zero (0).
<b>Warning Count</b>	Indicates the number of warning messages recorded by the node’s Logger. Using the Reset command on a node sets its Warning Count to zero (0).
<b>Last Error</b>	Indicates the timestamp of the most recent error message recorded by the Logger (in local time). Using the Reset command on a node does not change this data.
<b>Last Warning</b>	Indicates the timestamp of the most recent warning message recorded by the Logger (in local time). Using the Reset command on a node does not change this data.

**Note:** Right-clicking on any column heading or in the logger list displays an option menu. For more information, see [Option menus](#).

## Column sorting

By default, the Log Monitor displays the list of Logger nodes in the same order that they appear in the Log Viewer’s Tree Console.

- You can resort the nodes by clicking the column headings. The heading button displays an up or down arrow, representing ascending and descending, respectively.

Sorting logic is defined as follows:

<b>Status column</b>	Nodes in Error state, followed in order by nodes in the following states: Warning, OK, Connecting, Unable to connect, and Connection lost.
<b>Platform Name column</b>	Alphabetical order.
<b>Host Name column</b>	Alphabetical order.
<b>Error Count and Warning Count columns</b>	Based on the number of errors or warnings for each node.
<b>Last Error and Last Warning columns</b>	Based on the timestamp (newest to oldest and vice versa).

- You can select and drag any column to a different position in the column heading bar. The columns support resizing by dragging the dividers or by double-clicking on a divider to auto-size the column to the widest data in the column.
- You can hide a column by clicking its divider and dragging it to the preceding divider. To recover the column heading, select-and-drag the column divider to its original position.

## System tray icon

When minimized, the Log Monitor main window hides from the task bar. Instead, it is represented by an icon in the System Tray.

**Important!** When the main window is hidden in the System Tray, the utility continues to monitor node Logger status in the background.

- To display the Log Monitor again, double-click the icon.

The **System Tray** icon indicates the cumulative status of all nodes being monitored. Hovering your mouse over the icon displays the cumulative status as a tooltip. This status is updated automatically anytime there is a change in status information. The cumulative status reflects the following logic:

	Error status	At least one node has Error status. One or more nodes may have Warning status.
	Warning status	At least one node has Warning status but no node has Error status.
	OK status	At least one node has OK status and no node has error or warning status.
	Unable to connect status	The Log Monitor is unable to connect with all nodes in the logger list.

	<p>Connection lost status</p>	<p>The Log Monitor has lost connection with all nodes in the logger list. The icon reflects the last cumulative status of all nodes.</p>
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**Note:**

- There is no Connecting cumulative status because this is transitory, to be followed eventually by one of the other five statuses.
- Right-clicking on the System Tray icon displays an option menu. For more information, see [Option menus](#).

## Option menus

An option menu is a set of commands displayed when you right-click in the user interface. The Log Monitor provides two option menus.

Right-clicking any column heading or in the logger list of the Log Monitor user interface displays the following option menu:

<p><b>Launch Log Viewer</b></p>	<p>Starts the Log Viewer for the selected node. If this command is used again, the same Log Viewer is reactivated.</p>
<p><b>Connect</b></p>	<p>Attempts to connect to a node that currently has one of the following statuses: Unable to connect or Connection lost. If the Log Monitor currently has a connection to a node, this command is unavailable.</p>
<p><b>Reset</b></p>	<p>Changes the Status of a node to OK and its Error and Warning counts to zero (0). Used typically to acknowledge that a node has errors and/or warnings. Resetting a node's displayed condition in the Log Monitor has no effect on the content of the logged messages in that node's Logger.</p>
<p><b>Undo Reset</b></p>	<p>Returns the status of the node to its actual status.</p>
<p><b>Refresh</b></p>	<p>Forces the Log Monitor to do a manual refresh of the status information for the selected node. Only those nodes to which the Log Monitor has already connected are refreshed. Use the Connect command to attempt to reconnect to a node.</p>
<p><b>Configure</b></p>	<p>Opens the Configure dialog box (for more information, see <a href="#">Configure dialog box</a>).</p>
<p><b>Help</b></p>	<p>Starts the online help for the Log Monitor utility.</p>
<p><b>About Log Monitor</b></p>	<p>Opens the utility's About Log Monitor dialog box, which displays information about the application (for more information, see <a href="#">About Log Monitor dialog box</a>).</p>

Right-clicking the Log Monitor’s System Tray icon displays the following option menu:

<b>Open Log Monitor</b>	Restores the Log Monitor. The same as double-clicking the icon.
<b>Close</b>	Quits the utility.
<b>View Errors on</b>	This command is available if the cumulative status of the nodes is Errors. Displays a submenu list of all nodes that have Errors status. Selecting a node from the list starts the Log Viewer for that node.
<b>View Warnings on</b>	This command is available if the cumulative status of the nodes is Warnings. Displays a submenu list of all nodes that have Warnings status. Selecting a node from the list starts the Log Viewer for that node.
<b>Reset All</b>	Does a global reset of all nodes in the logger list. This command is available only if the cumulative status of all nodes is Errors or Warnings.



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