Micro Focus Security ArcSight Logger

Software Version: 7.2.2

Release Notes

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Legal Notices

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Documentation Updates

The title page of this document contains the following identifying information:

- Software Version number
- Document Release Date, which changes each time the document is updated
- Software Release Date, which indicates the release date of this version of the software

To check for recent updates or to verify that you are using the most recent edition of a document, go to:

https://www.microfocus.com/support-and-services/documentation

Support

Contact Information

Phone	A list of phone numbers is available on the Technical Support Page: https://softwaresupport.softwaregrp.com/support-contact-information
Support Web Site	https://softwaresupport.softwaregrp.com/
ArcSight Product Documentation	https://community.softwaregrp.com/t5/ArcSight-Product-Documentation/ct-p/productdocs

Logger 7.2.2 Release Notes

Standalone ArcSight Logger version 7.2.2 (L8402) release is available in two form factors: Appliance and Software. Read this document in its entirety before using the Logger release.

> **Note:** Where there are no specific differences, all types of Logger are called *Logger* in this document. Where there are differences, the specific type of Logger is indicated.

What's New in this Release

The Security ArcSight Logger 7.2.2 (L8402) is a maintenance release, addressing security vulnerabilities and other issues found in Logger 7.2.1.

In addition, the following improvements have been made:

- Exporting search events is processed 8.42 times faster when compared to the previous release.
- Time synchronization is now handled by NTP instead of Chrony. This improvement, previously released as a standalone patch, is now integrated into the product.

For more information about this release, review the following sections:

- "Fixed Issues" on page 23
- "Open Issues" on page 26

For details about these features, see the ArcSight Logger 7.2.2 Administrator's Guide, available from the Micro Focus Community.

Technical Requirements

Logger requires the following minimum system setup.

Specification	Details
CPU, Memory, and Disk Space for Enterprise Version of Software Logger	• CPU: 2 x Intel Xeon Quad Core or equivalent • Memory: 12–24 GB (24 GB recommended) • Disk Space: 65 GB (minimum) in the Software Logger installation directory. If you allocate more space, you can store more data. • Root partition: 40 GB (minimum) • Temp directory: 1 GB **Note:** Using a network file system (NFS) as primary event storage is not recommended.
CPU, Memory, and Disk Space for Trial Logger and VM Instances	• CPU: 1 or 2 x Intel Xeon Quad Core or equivalent • Memory: 4 –12 GB (12 GB recommended) • Disk Space: 10 GB (minimum) in the Logger installation directory • Temp directory: 1 GB
Server	For Software form factor: • Red Hat Enterprise Linux (RHEL) 7.9, 8.4. For more information, see Editing the logind Configuration File for RHEL 7.X. • CentOS 7.9 For appliance upgrade: Red Hat Enterprise Linux 7.9.
VM Instances	• You can deploy the Logger virtual machine (VM) on a VMware ESXi server, version 5.5. The VM image includes the Logger installer on a 64-bit CentOS 7.9 configured with 12 GB RAM and four physical (and eight logical) cores. • Micro Focus ArcSight strongly recommends allocating a minimum of 4 GB RAM per VM instance. • The sum of memory configurations of the active VMs on a VM server must not exceed the total physical memory on the server.
Other Applications	• To avoid file permissions, ownership, ports, and resource consumption issues, make sure no third-party applications are installed on the same system as Logger. • For optimal performance, make sure no other applications are running on the system where Logger is installed.

Supported Platforms

> **Note:** Be sure to upgrade your operating system (OS) to get the latest security updates. Upgrade your OS first, and then upgrade Logger. For Logger Appliances, an OS upgrade file is included in your upgrade package.

The following table lists the supported appliance models, operating systems, supported browsers, and upgrade paths for each currently supported Logger version.

Guidelines:

- An asterisk (*) next to a browser version indicates that the browser version supported is the one current at the date of release.
- The appliance models L350X, L750X, L750X-S and L7600 are no longer supported.
- The OS 6.x versions are no longer supported.
- The VM image on 32-bit is no longer supported.

Version	Release Date	Appliance Models	Operating Systems	Supported Browsers	Upgrade Path
7.2.2	August, 2022	L7700	**Certified on** : CentOS/RHEL Linux 7.9 RHEL Linux 8.4 **Supported on:** CentOS/RHEL Linux 7.8 RHEL Linux 8.2 **VM instance** The VM image includes the Logger installer on a 64-bit CentOS 7.9.	Microsoft Edge * Firefox ESR 52 Chrome	7.2.1 (L8395)

Connecting to the Logger User Interface

The Logger user interface (UI) is a password-protected web browser application that uses an encrypted HTTPS connection.

Ensure that Logger's publicly-accessible ports are allowed through any firewall rules that you have configured.

- For root installs, allow access to port 443/tcp as well as the ports for any protocol that the logger receivers need, such as port 514/udp for the UDP receiver and port 515/tcp for the

TCP receiver.

- For non-root installs, allow access to port 9000/tcp as well as the ports for any protocol that the Logger receivers need, such as port 8514/udp for the UDP receiver and port 8515/tcp for the TCP receiver.

> **Note:** The ports listed here are the default ports. Your Logger may use different ports. While logged in to the Logger UI, be careful not to click on suspicious links from external sources (e.g. emails, websites) as they may contain malicious code that could get executed by the browser.

Logger Documentation

The new documentation for this release comprises these Release Notes, and the complete Logger 7.2.2 documentation set also applies to this release. All documents are available for download from the Micro Focus Community.

> **Tip:** The most recent versions of these guides are not included with your download. Please check Micro Focus Community for updates.

- Logger 7.2.2 Online Help: Provides information on how to use and administer Logger. It is integrated in the Logger product and accessible through the user interface. Click the help hyperlink on any user interface page to access context-sensitive Help for that page.
- *Logger* 7.2.2 *Administrator's Guide:* Provides information on how to administer and use Logger. Also accessible from the integrated online Help.
- *Logger* 7.2.2 *Web Services API Guide:* Provides information on how to use Logger's web services. Also accessible from the integrated online Help.
- *Logger* 7.2.2 *Installation Guide:* Provides information on how to initialize the Logger Appliance and how to install Software Logger on Linux or VMware VM.
- *Logger* 7.2.2 *Best Practices Guide:* Provides information on how to configure and use Logger for best performance.

Additional Logger documentation, including the Logger Data Migration can be downloaded from the Micro Focus Community.

Localization Information

Localization support for these languages is available for this release:

- Japanese
- Traditional Chinese
- Simplified Chinese

You can either install Logger in one of the above languages as a fresh install or upgrade an existing English installation to one of these languages. The locale is set when you first install Logger. Once set, it cannot be changed.

Known Limitations in Localized Versions

The following are the currently known limitations in the localized versions of Logger:

- Only ASCII characters are acceptable for full-text search and the Regex Helper tool. Therefore, full-text search is not supported for Japanese, Simplified Chinese, or Traditional Chinese characters.
- The Login field on the Add User page does not accept native characters. Therefore, a Logger user cannot have a login name that contains native characters.
- The Report Parameter and the Template Style fields do not accept native characters.
- The Certificate Alias field for ESM Destinations cannot contain native characters. Use only ASCII characters in the Certificate Alias field. (To open the Certificates page, type Certificates in the **Take me to...** search box, and click **Certificates** in the dropdown list.)

Upgrading to Logger 7.2.2 (L8402)

This section includes upgrade information for the Logger Appliance, Software Logger, and Logger on VMWare VM.

- "Verifying Your Upgrade Files" below
- "Upgrading the Logger Appliance" on the next page
- "Upgrading Software Logger and Logger on a VMWare VM" on page 13

> **Note:** Be sure to review the sections "Fixed Issues" on page 23, and "Open Issues" on page 26 before upgrading your logger.

Upgrade Paths

The following table lists the upgrade paths to Logger 7.2.2. For more information about upgrading from a version of another appliance model or an earlier software version, review the documents available in Micro Focus Community or contact Micro Focus Support.

> **Note:** To determine your current Logger version, point to the ArcSight Logger logo in the upper-left corner of the screen.

Logger 7.2.2 Upgrade Paths	
Software Versions	7.2.1
Appliance Models	L7700
Operating System Upgrades	• The OS your Logger is running on may vary. Be sure to check the OS version and upgrade the OS to a supported version if necessary, before upgrading Logger.

Verifying Your Upgrade Files

Micro Focus provides a digital public key to enable you to verify that the signed software you received is indeed from Micro Focus and has not been manipulated in any way by a third party.

Visit the following site for information and instructions:
https://entitlement.mfgs.microfocus.com/ecommerce/efulfillment/digitalSignIn.do

Upgrading the Logger Appliance

This section describes how to upgrade the Logger appliance. For fresh installation instructions, refer to the Installation Guide for Logger 7.2.2.

Prerequisites

Be sure that you meet these prerequisites before upgrading Logger:

- When upgrading to Logger 7.2.2 version, the event flow will be automatically stopped.
- Make a configuration backup before upgrading to this release. For instructions, refer to the Logger Administrator's Guide for the Logger version you are currently running.
- You must be on 7.2.1.8395 Logger version prior to upgrading to Logger 7.2.2.
- Logger requires a root password. If your Logger does not have a root password already, set one before performing the upgrade.
- Upgrade your OS to the latest supported RHEL distribution to fix additional security vulnerabilities. Logger 7.2.2 includes OS Upgrade files for this purpose.
- Download the upgrade files from the Micro Focus Entitlement Site to a computer from which you connect to the Logger UI.
- For local or remote appliance upgrades, download the following file:

  logger-8402.enc.
- Verify the upgrade files, as described in Verifying Your Upgrade Files.
- Modify the timeout value in the logger.properties file in the ArcMC as described in To upgrade Logger Appliances remotely through ArcMC

Logger documentation is not included in your download package. Download your documentation from the Micro Focus Community.

Upgrade Instructions

Follow the instructions listed below to upgrade your Logger. Ensure that you meet the "Upgrading the Logger Appliance" above before you begin.

- To upgrade Logger from ArcMC, see "To upgrade Logger Appliances remotely through ArcMC:" on the next page
- To upgrade Logger locally, see "To upgrade a Logger Appliance locally:" on the next page

To upgrade Logger Appliances remotely through ArcMC:

1. Modify the timeout value in the `logger.properties` file in the ArcMC following the steps below:

   - Run the following command: `cd /$ARCMC_HOME/userdata/arcmc`
   - If `<install_dir>/userdata/arcmc/logger.properties` does not exist, create the file as a non-root user.
   - Add the new property: `node.upgrade.thread.timout= 10800` (unit value in seconds).
   - Update the `logger.properties` file using the following commands:
     `Chown <non –root user>:<non-root user> logger.properties`
     `Chmod 660 logger.properties`
   - Restart ArcMC.

2. Deploy the Logger upgrade using the `logger-8402.enc` file and following the instructions in the ArcSight Management Center Administrator's Guide.
3. Make a configuration backup immediately after the upgrade is complete. For instructions, refer to the Logger Administrator's Guide of the Logger version you are currently running.

To upgrade a Logger Appliance locally:

1. Make a configuration backup before the upgrade. For instructions, refer to the Logger Administrator's Guide of the Logger version you are currently running.
2. Log into Logger and click **System Admin >System > License & Update**.
3. Upgrade your OS as appropriate. If you are upgrading an L7700 series appliance, deploy the OS upgrade by using the file:

   `osupgrade-logger-rhel79_202206_20220616164735.enc`

4. Look for the `logger-8402.enc` file you previously downloaded and click **Upload Update**.

The **ArcSight License & System Update** page displays the update progress. Once the upgrade is complete, Logger reboots automatically.

Upgrading Software Logger and Logger on a VMWare VM

This section describes how to upgrade Logger. For fresh installation instructions, refer to the Installation Guide for Logger 7.2.2, available for download from the Micro Focus Community.

Prerequisites

Be sure that you meet these prerequisites before upgrading Logger:

- When upgrading to Logger 7.2.2 version, the event flow will be automatically stopped.
- Make a configuration backup before upgrading to this release. For instructions, refer to the Logger Administrator's Guide for the Logger version you are currently running.
- You must be on 7.2.1.8395 Logger version prior upgrading to Logger 7.2.2.
- Remote OS upgrade is not supported for Software Logger. Instead, manually upgrade your Operating System (OS) to a supported version before upgrading Logger. The latest OS distribution fixes additional security vulnerabilities.
- If your system is running on RHEL or CentOS 7.X, upgrade to the latest version of 7.9.
- Before installing or upgrading to Logger 7.2.2 (and when upgrading from CentOS/RHEL 7.X to RHEL 8.4), you must connect through SSH to the Logger console to validate the presence of the packages in the following table. Use the command in the **Verification command** column for each package.

  If all packages are already installed, you already comply with the requirements and can proceed with the Logger 7.2.2 installation/upgrade (make sure to check the rest of the prerequisites in this list).

  If any of the packages are missing, proceed to install them by using the command in the **Installation command** column. Once the installation of all the packages is finished, restart the Logger processes and proceed with the upgrade (make sure to check the rest of the prerequisites in this list).

Package	Verification command	Installation command
libnsl	`rpm -qa | grep libnsl`	`yum install libnsl`
compat-openssl10	`rpm -qa | grep compat-openssl10`	`yum install compat-openssl10`
ncurses-compat-libs	`rpm -qa | grep ncurses-compat-libs`	`yum install ncurses-compat-libs`
net-tools	`rpm -qa | grep net-tools`	`yum install net-tools`

- Before installing or upgrading Logger in Linux, you must modify four TCP properties of the OS environment as described in "Configuring TCP keepalive parameters for Linux OS" on page 16.
- Before installing or upgrading Logger, you must add the `rng-tools` package and enable the `rngd.service` as described in "Install package rng-tools" on page 16.
- If not already done on the system, perform the following procedures:
  - Increase the user process limit on the Logger's OS. (This is not required for a VMWare VM installation). For more information, see "Increasing the User Process Limit" below.
  - If you are on RHEL 7.X , modify the login configuration file. For more information, see "Editing the logind Configuration File for RHEL 7.X" on the next page.
- A non-root user account must exist on the system in which you are installing Logger. The installer will ask you to provide one, even if you install as root. The user id and its primary group id should be the same for this account. The UID for the non-root user should be 1500 and the GID should be 750. For example, to create the non-root user, run these commands as `root`:

  ```
  groupadd –g 750 arcsight
  useradd –m –g arcsight –u 1500 arcsight
  ```

  These commands create a non-root user named `arcsight` that will work with a Logger software installation.
- Download the Software Logger upgrade files from the Micro Focus Customer Support Site.
  - For remote upgrades using ArcMC, download the following file: `logger-sw-8402-remote.enc`
  - For local upgrades, download the following file: `ArcSight-logger-7.2.2.0.8402.0.bin`
- Verify the upgrade files, as described in "Verifying Your Upgrade Files" on page 10

Logger documentation is not included in your download package. Download your documentation from the Micro Focus Community

Increasing the User Process Limit

Before installing or upgrading Logger, you must increase default user process limit while logged in as user *root*. This ensures that the system has adequate processing capacity.

> **Note:** This change is only necessary when installing Software Logger on your own Linux system. It has already been done for Logger on VMWare VM.

To increase the default user process limit:

1. Open the file `/etc/security/limits.d/<NN>-nproc.conf`.
   (<NN> is 20 for RHEL and CentOS 7.9.)
   - If you do not already have a `/etc/security/limits.d/<NN>-nproc.conf file`, create one (and the `limits.d` directory, if necessary).
   - If the file already exists, delete all entries in the file.
2. Add the following lines:

```
*    soft     nproc     10240
*    hard     nproc     10240
*    soft     nofile    65536
*    hard     nofile    65536
```

> **Caution:** Be sure to include the asterisk (*) in the new entries. It is important that you add all of the entries exactly as specified. Any omissions can cause system run time errors.

3. Reboot the machine.
4. Run the following command to verify the new settings:

```
ulimit -a
```

5. Verify that the output shows the following values for “open files” and “max user processes”:

```
open files                      65536
max user processes              10240
```

Editing the logind Configuration File for RHEL 7.X

Before installing or upgrading Logger on Red Hat Enterprise Linux (RHEL) 7.X, you must modify the inter-process communication (IPC) setting of the `logind.conf` file.

To modify the logind.conf file for RHEL 7.X:

1. Navigate to the `/etc/systemd` directory, and open the `logind.conf` file for editing.
2. Make sure the `RemoveIPC` line is active and set to **no**. Remove the # (if it appears).

   The correct entry is: `RemoveIPC=no`
3. Save the file.
4. From the `/etc/systemd` directory, enter the following command to restart the `systemd-logind` service and put the change into effect:

```
systemctl restart systemd-logind.service
```

Configuring TCP keepalive parameters for Linux OS

Before installing or upgrading Logger, you must modify four TCP properties of the OS environment in `/etc/sysctl.conf` file. Add the TCP OS configuration properties using the following steps:

1. Edit the system file by executing this command: `vi /etc/sysctl.conf`, and then press Shift + G to reach the end of file.
2. Add and modify the following timeout properties and their recommended values:
   - `net.ipv4.tcp_fin_timeout = 30`
   - `net.ipv4.tcp_keepalive_time = 60`
   - `net.ipv4.tcp_keepalive_intvl = 2`
   - `net.ipv4.tcp_keepalive_probes = 2`
3. Exit and save (`wq!`)
4. Apply the changes by running the command `sysctl -p`

Install package rng-tools

Before installing or upgrading Logger, you must add the `rng-tools` package and enable the `rngd.service`.

Make sure to follow the steps below:

1. Install the package by running the following command:

   `yum install -y rng-tools`.
2. To see the status of the `rngd.service` after an install, run:

   `systemctl status rngd`
3. Run the commands to start or enable the service:

   `systemctl start rngd.service`.

   `systemctl enable rngd.service`.

Upgrade Instructions

Follow the instructions listed below to upgrade Logger. Ensure that "Upgrading Software Logger and Logger on a VMWare VM" on page 13 are met before you begin.

- To upgrade Logger from ArcMC, see "To upgrade Software or VMWare Loggers remotely through ArcMC: " below.
- To upgrade Software Logger locally, see "To upgrade Software Logger locally:" below.
- To upgrade Logger on VMWare locally, see "Upgrade Instructions" above.

To upgrade Software or VMWare Loggers remotely through ArcMC:

1. Modify the timeout value in the `logger.properties` file in the ArcMC following the steps below:
   - Run the following command: `cd /$ARCMC_HOME/userdata/arcmc`
   - If `<install_dir>/userdata/arcmc/logger.properties` does not exist, create the file as a non-root user.
   - Add the new property: `node.upgrade.thread.timout= 10800` (unit value in seconds).
   - Update the `logger.properties` file using the following commands:
     `Chown <non –root user>:<non-root user> logger.properties`
     `Chmod 660 logger.properties`
   - Restart ArcMC.
2. Upgrade your OS to the latest distribution as it fixes additional security vulnerabilities.
3. Deploy the downloaded upgrade file `logger-sw-8402-remote.enc`. Follow the instructions in the ArcSight Management Center Administrator's Guide.

To upgrade Software Logger locally:

1. Log in with the same user name as the one used to install the previous version of Logger.
2. Run the following commands from the below directories:
   - Software:

   ```
   chmod u+x ArcSight-logger-7.2.2.0.8402.0.bin
   ./ArcSight-logger-7.2.2.0.8402.0.bin
   ```

   This wizard also upgrades your Software Logger installation. Click **Next**. You can click **Cancel** to exit the installer at any point during the upgrade process.

> **Caution:** Do not use the **Ctrl+C** to close the installer. If you use Ctrl+C to exit the installer and then uninstall Logger, this may delete your `/tmp` directory.

- VMWare:

From the `/opt/arcsight/installers` directory,

```
chmod u+x ArcSight-logger-7.2.2.0.8402.0.bin
./ArcSight-logger-7.2.2.0.8402.0.bin -i console
```

The installation wizard launches in command-line mode, as shown below. Press **Enter** to continue.

```
===============================================================================

Introduction
------------

InstallAnywhere will guide you through the installation of ArcSight Logger
7.2.2.

It is strongly recommended that you quit all programs before continuing
with this installation.

Respond to each prompt to proceed to the next step in the installation. If
you want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE:
```

3. The License Agreement screen is displayed. To review the agreement

```
DO YOU ACCEPT THE TERMS OF THIS LICENSE AGREEMENT? (Y/N):
```

Software: Scroll to the bottom of the license agreement and enable the “I accept the terms of the License Agreement” button.

VMWare: Press **Enter** to display each part of the license agreement.

4. To accept the terms :

Software: Select **I accept the terms of the License Agreement** and click **Next**

VMWare: Type **Y** and press **Enter**. To exit the installer at any point during the installation process, type **quit** and press **Enter**.

5. If Logger is currently running on this machine, an intervention required message is displayed. Click **Continue** to stop all current Logger processes and proceed with the upgrade, or click **Quit** to exit the installer.

6. Once all Logger processes are stopped, the installer checks that the installation prerequisites are met:
   - Operating system check—The installer checks to see if your device is running a supported operating system, otherwise, a warning will be displayed (this will not prevent the installation process).

   To proceed with the upgrade:

   Software: Click **Continue**. To exit the installer, click **Quit** and upgrade your OS.

   VMWare: Type 1 and press **Enter**. To exit the installer and continue to upgrade the OS, type 2 and press **Enter**.

   > **Note:** Micro Focus ArcSight strongly recommends that you upgrade to a supported OS before upgrading Logger.

   - Installation prerequisite check—If the check fails, Logger will display a warning. Make sure to address the issue before proceeding.

   Example

   ```
   ===============================================================================
   Intervention Required
   ---------------------
   ArcSight Logger processes are active.
   All ArcSight Logger processes must be stopped to allow installation to
   proceed.
   Type 'Quit' to exit this installer or 'Continue' to stop all ArcSight
   Logger processes and continue with the installation.
   ->1- Continue
     2- Quit
   ENTER THE NUMBER OF THE DESIRED CHOICE, OR PRESS <ENTER> TO ACCEPT THE
   DEFAULT:
   ```

   Once all checks are complete, the installation continues.

7. The Choose Install Folder screen is displayed. Navigate to or specify the location where you want to install Logger.

   Software: The default installation path is `/opt`, Logger can be installed at another location if needed.

> **Note:** When you upgrade Logger, it will continue to have access to the data store of the previous version, however, a fresh install (Logger installed in a new location) will not.

VMWare: Type the installation path for Logger `/opt/arcsight/logger` and press **Enter**. Do not specify a different location.

8. To confirm the installation location:

   VMWare: Type **Y** and press **Enter**. To exit the installer and configure the console, type **Quit** and press **Enter**.

   Software: Click **Next**.

   - If there is not enough space to install the software at the specified location, a message will be displayed. To proceed with the installation, specify a different location or make sufficient space available. Click **Previous** to specify another location or **Quit** to exit the installer.
   - If Logger is already installed at the location you previously specified, a user intervention message will be displayed warning about the selected directory already containing an installation of Logger, and asking if you want to upgrade.

     Software: To continue with the operation, click **Upgrade**. Click **Back** to specify another location.

     VMWare: Type **2** and press **Enter** to continue with the upgrade.

9. Review the pre-install summary and install:

   Software: Click **Install**

   VMWare: Press **Enter**

   Installing Logger may take a few minutes. Please wait. Once installation is complete, the next screen is displayed.

10. To initialize Logger components:

    Software: Click **Next**

    VMWare: Type **Enter**

    Initialization may take a few minutes. Please wait. Once initialization is complete, the next screen is displayed.

11. Upgrade Logger:

    Software: Click **Next**

    VMWare: Type **Enter**

    Upgrading Logger may take a few minutes. Please wait. Once the upgrade is complete, the next screen displays the URL you should use to connect to Logger.

12. Make a note of the URL. To exit the installer:

Software: Click **Done**

VMWare: Press **Enter**

13. Restart Logger to save changes.
14. You can now connect to the upgraded Logger.
15. Make a configuration backup immediately after the upgrade. For instructions, refer to the Logger Administrator's Guide.

Reverting a Logger Upgrade

Whenever a Logger upgrade fails, it is necessary to reverse the changes and go back to the previous version. After reverting the changes, Logger might not initialize correctly due to incorrect permissions. Fix the Logger permissions for non-root loggers by following steps below:

To uninstall the Logger software upgrade:

1. Set Logger as non-root

   ```
   find /opt/ -type f -name "httpd.conf"
   ```

   ```
   /opt/logger/current/local/apache/conf/httpd.conf
   ```

2. Confirm the ServerName property is `arcsight:9000`:

   ```
   grep "ServerName" /opt/logger/current/local/apache/conf/httpd.conf
   ```

3. Make sure the `<Installation path>` folder has the right permission:

   ```
   sudo chown -fR arcsight:arcsight /opt/logger/
   ```

4. Run the following command from the `/opt/logger/current/arcsight/logger/bin/` folder:

   ```
   chmod 755 arcsight filetransfer loggerd permissionFix receiverstart
   retrievelogs runner scripts
   ```

5. Run the following command from the `/opt/logger/current/local/monit/watchdog` folder:

   ```
   chmod 600 apache.monitrc aps.monitrc monitrc mysql.monitrc
   postgresql.monitrc
   ```

   ```
   chmod 700 logger.monitrc
   ```

   ```
   chmod 664 connector.monitrc
   ```

6. Run the following command from the `/opt/logger/current/local/monit/bin` folder:

```
chmod 755 monit
```

7. Run the following command from the `/opt/logger/data/pgsql` folder:

```
chmod 700 base global pg_commit_ts pg_dynshmem pg_logical pg_multixact pg_
notify pg_replslot pg_serial pg_snapshots pg_stat
```

```
pg_stat_tmp pg_subtrans pg_tblspc pg_twophase pg_wal pg_xact
```

```
chmod 664 dbinit.log init.store.log pg_hba.conf postgresql.conf
```

```
chmod 600 pg_hba.conf.orig pg_ident.conf PG_VERSION postgresql.auto.conf
postgresql.conf.orig postmaster.opts postmaster.pid
```

8. Run the following command from the `/opt/logger/current/arcsight/service` folder:

```
chmod 775 apache aps arcsight_logger functions monit mysql mysql_ctl
postgresql postgresql_ctl snmp
```

```
chmod 664 arcsight.config
```

Fixed Issues

The following issues are fixed in this release.

Installation

Issue	Description
384017	When upgrading Logger, the Logger UI will be disabled while processes restart. However, the upgrade is executed as expected. This issue has been fixed.

Localization

Issue	Description
370065	Log-in banner is not displayed in Chinese or Japanese languages. This issue has been fixed.

Configuration

Issue	Description
378104	After uploading the license and update the process start, the system will display and error message. This issue has been fixed.
378033 & 379024	SNMP functionality fails with authentication user errors. This issue has been fixed.
348246 & QS452039	After a restore backup, the appliance IP address returned to default factory IP address causing data logs to not be sent or received. This issue has been fixed.
299231	When client authentication is enabled, Logger connects to one TH cluster only. If client authentication is disabled, Logger connects to an indefinite number of TH clusters. This issue has been fixed.

Issue	Description
298124	Logger drops the non-cef events sent to a UDP receiver configured using an encoding different than UTF-8 or ASCII. A basic requirement is that UDP receivers are configured UTF-8 or ASCII encoding to keep events from being dropped.
296731	When deleting a Logger TCP or UDP receiver, the XML file (receiver parameters) is not deleted. This issue has been fixed.
296070	NIC bonding information does not appear in the UI after configuring NIC bonding. This issue has been fixed.

Analyze/ Search

Issue	Description
303398	If the value for a discovered field contains a colon (:), an ampersand (&), or angle brackets (<>), the query generated by clicking on it will escape the character with an added backslash (\ ). This issue is not reproducible in version 7.2.2
297532	After running a search from the Live Event Viewer in Internet Explorer or Firefox, searches that are loaded by clicking a dashboard from the Summary page may fail. This issue has been fixed.
296865	Pipeline queries that include the 'where' operator, and exclude the 'user' field from a custom field list, display no results for the custom fields. For example, this query is missing the 'user' field from the custom field list and therefore has no results: _deviceGroup IN ["192.164.16.202 [SmartMessage Receiver]"])) | where deviceEventClassId = "agent:050" Does not return the value 'agent:050' in the deviceEventClassId field of the search results. This issue is not reproducible in version 7.2.2
296581	If an insubnet parameter has the wrong syntax, no error is reported when running peer searches. For local searches, the error is reported as expected. This issue was fixed.
295754	If the chart and span operators are used together without any query before the pipe (e.g "| chart count by deviceEventCategory span (deviceReceiptTime) = 5m") and with a time range that includes many days (e. g. $CurrentMoth), Logger has to scan a lot of events for that search. This caused high levels of CPU usage causing the search to fail. This issue was fixed.

Issue	Description
295565	When a search result with peers is retrieved in the search dashboard, the page shows a wrong alias instead of the name chosen when persisting the search. This issue is not reproducible in version 7.2.2
294699	In the search persistence, a validation error occurs when you add an incorrect value. If you enter the correct values before the success message is displayed, there is a short period of time where a message with the last validation error is shown. Otherwise, if no changes are made, the window closes automatically without having the option of correcting the invalid value. This issue is not reproducible in version 7.2.2
294661	ESM triggers a failed peer with a Logger prior than 7.1.1 version or ESM working as a node. This issue is not reproducible in version 7.2.2

Reports

Issue	Description
384151	When publishing a smart report in CSV format from the Explorer right upper menu, it shows no data. This issue was fixed.
295991	When creating a Logger Search Report based on a Logger filter with a peer operator, the system does not recognize the peer operator and checks the "local-only" option in the parameters form. This issue was fixed.
294702	When installing Software Logger in ReHat and CentOS version 8. X, data science cannot be enabled. This issue was fixed.

Open Issues

This release contains the following open issues.

Dashboards

Issue	Description
299394	When creating a new dashboard, Logger might show the error message "Dashboard name already exists," even though the user does not have a dashboard with that name. Workaround: Name the dashboard differently.

Analyze/Search

Issue	Description
501012	Search results are not automatically sorted by endTime Workaround: Add **| sort - endTime** to the search query
313444	The insubnet operator is not supported in the Advanced Search query editor. Workaround: To add a condition with insubnet operator, enter the search manually.
312588	When using a filter or a saved search to create reports from Logger Search Queries, the report is executed correctly. However, when the user updates the filter or the saved search with a different query, the report does not run properly. Workaround: Re-create reports using the same query object.
304066	When using the auto complete feature on the search page, if the inserted query has a double quote followed by a bracket ("[ ), it will not be executed. Workaround: Remove the backslash followed by a double quote on both sides of the string. You can also do this when a double quote is followed by any special character such as "\, "/, "[, "], or ",.
303494	Unable to view the fields you are looking for in the search results when searching non-default fields. Workaround: Create a custom field set or use the "All Fields" field set.
303442	A search with a query that includes the rename operator and the original field name included in the fieldset will display the original field renamed by the operator as a column in the search results, but with no values. Workaround: Remove any renamed fields from the fieldset.

Issue	Description
302592	Command Center search will return the error message "There is a problem: null" when charting the aggregation results certain fields, if you fail surround the field name with parenthesis. Workaround: If you receive this error message, check your query, and add parenthesis if needed.
301666	When a system has more than one peer and a peer stops responding, some pages in the user interface can become slow to display. The delay happens regardless of the reason the peer system is not responding. Workaround: Identify the peer that is not responding and remove its peer relationship. You can re-add the peer later when it is back in service.
296859	When exporting Source Types with common dependent parsers and the property "overwrite.same.content" enabled, Logger only imports the latest Source Type with its parser. The other Source Types do not include their parsers. Workaround: Turn off "overwrite same content" before importing.
296739	When exporting search results around the hit limit with the re-run query checked, Logger may display the “Download results” link before the export file has finished populating. If you download the report during this period, the downloaded file might be incomplete. Workaround: Wait a few minutes before downloading to get the full export file.
296401	Split charts cannot be exported. Workaround: None available at this time.
294698	When trying to persist a search result (with a name chosen by another user), the dialog window shows an error in the database while the search was saving. Workaround: Use a different name for the search result.

Configuration

Issue	Description
502005	Enhance Logger CSR (Certificate Signing Request) to include S.A.N. (Subject Alternative Name) fields Workaround: Create a certificate directly from CA and place it in the /opt/arcsight/userdata/platform/ssl.crt
315172	When the logger generates a new certificate connector can no longer forward events to it since it has lost the secure communication channel with the Logger destination. Workaround: Re-import the new certificate and restart the connector.

Issue	Description
303258	A user can edit a Forwarder while the feature is enabled. This can cause the Forwarder to stop sending events. Workaround: Before editing the Forwarder, disable it. Then edit it and re-enable it to have the Forwarder send events to its target destination.
301823	When using the Setup Wizard to enter a Logger Appliance initial configuration, Logger does not check that you have entered all the required information before submitting it. This can cause the setup program to fail. Workaround: Enter valid values for all required Setup Wizard fields.
298825	You cannot export a filter that has been previously imported. The export fails and Logger displays an error. This issue does not affect other export contents, such as Alerts, Saved Searches, or Dashboards. Workaround: None available at this time.
294922	Logger License is displaying error messages on Reports using peers. Workaround: Restart the Logger.

Installation

Issue	Description
302670	Installation of multiple Solution Packages in Software Loggers with a root user may fail if the SOX v4.0 solution package is installed before others. Workaround: If you are installing the SOX v4.0 solution package on Software Logger with a root user, leave this step for the end.

Reports

Issue	Description
295783	Duplicate columns name will not display in a logger search based report. Workaround: None available at this time.
292898	Schedule MaxMind reports are failing email delivery. Workaround: Log into logger and extract the report manually.

Security Fixes

The following security fixes were implemented in this release.

Description	CVE
Information Disclosure	CVE-2022-26330
Self Cross-Site Scripting	CVE-2022-26331

Micro Focus would like to give a special thanks to Michał Skowron for responsibly disclosing these vulnerabilities.

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