



HP Cloud Service Automation 4.20

Integration with ArcSight Logger

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Introduction

This white paper describes the integration of ArcSight Logger with HP Cloud Service Automation. Because HP Cloud Service Automation interacts with multiple datacenter management and automation products, each product must be configured to complete the integration. Step-by-step instructions for each product are provided to easily guide you through the configuration. As a result, you will be able to view all the log events generated by different products on a single dashboard in ArcSight Logger.

HP Operations Orchestration, HP SiteScope, HP Universal CMDB, and HP Matrix Operating Environment are integrated with HP Cloud Service Automation. Each of these products has its own logging mechanism. To troubleshoot in such a complex environment, you would have to log in to each server and check the respective product log file, which is a tedious and time consuming process. Hence, there is a need for an integrated view of all the product logs. This can be achieved by integrating HP Cloud Service Automation with ArcSight Logger. The log events from each product can be sent and stored in ArcSight Logger, facilitating search and further analysis. Log events across products can be displayed in a single view, which significantly reduces troubleshooting effort.

This implementation is designed for an audience that has working knowledge and hands-on experience with HP Cloud Service Automation, HP Matrix Operating Environment HP SiteScope HP Operations Orchestration, and HP Universal CMDB. You must understand the core concepts and have demonstrated proficiency with these products discussed. Others may benefit from this document, but many background details found in other HP documentation are omitted. The [References](#) section includes additional information that might be helpful to those who need it.

About ArcSight Logger

ArcSight Logger is the first Universal Log Management solution that unifies searching, reporting, alerting, and analysis across any type of enterprise log data, making it unique in its ability to collect, analyze, and store massive amounts of data generated by modern networks. It supports multiple deployment options and can be deployed as an appliance and as software.

About Log4j Appender

Log4j Appender is a tool that integrates the ArcSight Logger with any product that uses Log4j utility for logging. Integration is done by altering the log4j.properties file of the specific product rather than modifying the application code. The Log4j utility forwards the product logs to the Log4j Appender, which in turn sends it to ArcSight Logger. ArcSight Logger indexes and performs search analysis on these log events.

Assumptions

This implementation requires that the HP CloudSystem Enterprise environment is installed, configured, and functioning correctly. Each component must be verified to work alone and as an integrated HP CloudSystem Enterprise environment. The major components include the following:

- HP Cloud Service Automation (HP CSA)
- HP Operations Orchestration (HP OO)
- HP SiteScope
- HP Matrix Operating Environment (HP MOE)
- HP Universal CMDB

Links to the documents that provide information for installing, configuring, and verifying these components and their interoperability are found in the [References](#) section. Supported versions can be found in the *HP Cloud Service Automation Support Matrix*.

Limitations of the free version

ArcSight Logger is available as free downloadable software that brings true enterprise-class log management functionality to everyone. You can download, install, and start getting instant value out of their logs within minutes. Using the free version, you can collect up to 750 MB of log data per day and store up to 500 GB of uncompressed logs (assuming average compression 10:1). The free version also comes with 90 days of phone and email support, followed by access to the ArcSight Logger user community.

As shown below, the downloadable version of ArcSight Logger provides access to all enterprise features for a full 12 months.

In order not to exceed the daily limit of the logger, it is highly recommended that you adhere to the default log levels provided in the log4.properties file for all the products. You can contact HP Support for further assistance with changing log levels.

Installation and configuration

The major steps required to integrate ArcSight Logger with HP Cloud Service Automation include the following:

- Installing and Configuring ArcSight Logger
- Configuring HP Cloud Service Automation
- Configuring HP SiteScope
- Configuring HP Operations Orchestration
- Configuring HP Universal Configuration Management Database
- Configuring HP Matrix Operating Environment
- Searching for events in the ArcSight Logger portal

Installing and configuring ArcSight Logger

The free version of ArcSight Logger is included on the HP Cloud Service Automation product media. It is also available for download from the following URL:

<http://www8.hp.com/us/en/software-solutions/arcsight-logger-log-management/>

ArcSight logger is supported on the following platforms:

- Red Hat Enterprise Linux, version 5.4, 64-bit
- Oracle Enterprise Linux, version 5.4, 64-bit
- CentOS, version 5.4, 64-bit

Prerequisites for ArcSight logger are:

- CPU: 1 or 2 x Intel Xeon Quad Core or equivalent
- Memory: 4–12 GB
- Disk Space: 100–120 GB

Follow the instructions provided in **Section 2: Installing the Software Version of Logger** in the *ArcSight Logger Administrator's Guide*, which is available in the HP Cloud Service Automation media.

Configuring HP Cloud Service Automation

To configure HP Cloud Service Automation, complete the steps in the following sub-procedures in the order presented.

Basic HP CSA ArcSight Logger Configuration

1. Log in to the HP Cloud Service Automation server.
2. Open log4j.properties, which is in C:\Program Files\Hewlett-Packard\CSA\jboss-as\standalone\deployments\csa.war\WEB-INF\classes.
3. In log4j.properties, uncomment the following lines:

```
#log4j.rootLogger=ERROR, C, fileappender, cef1
#log4j.logger.com.hp.csa.ui.vaadin=ERROR,fileappender,cef1
```
4. By default, the log level is set to ERROR, so only error logs will be generated and transferred to ArcSightLogger. If detailed logs are required, then change the log level to INFO for rootLogger as follows:

```
log4j.rootLogger=INFO, C, fileappender, cef1
```
5. In log4j.properties, comment out the following lines:

```
log4j.logger.com.hp.csa.ui.vaadin=ERROR,fileappender
log4j.rootLogger=ERROR, C, fileappender
log4j.appenders.cef1.appenders.threshold=off
```
6. In log4j.properties, change the following properties to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:

```
log4j.appenders.cef1.hostName=192.x.x.x
log4j.appenders.cef1.port=515
```

The logs sent to C:\Program Files\Hewlett-Packard\CSA\jboss-as\standalone\log\csa.log by HP Cloud Service Automation will now be transferred to ArcSight Logger.
7. Open csa.properties from C:\Program Files\Hewlett-Packard\CSA\jboss-as\standalone\deployment\csa.war\WEB-INF\classes.
8. In csa.properties change the line loggerEnabled=false to loggerEnabled=true
9. Restart the HP Cloud Service Automation service from the service manager.
10. Verify that the ArcSight Logger has been integrated correctly with HP Cloud Service Automation by:
 - a. Open the logger portal URL: <https://<loggerHostname>:<logger port>/>.
 - b. In the Summary tab, check that the IP address of the HP Cloud Service Automation server appears in the Devices tab.
 - c. Check that the HP Cloud Service Automation IP address is in the Devices tab.
 - d. Check that the events are shown in the search screen.

Integration of HP CSA Core Logs with the ArcSight Logger

1. Add following content to the log4j.properties file:

```
#Update Start
log4j.appenders.coreArcsightAppender=com.hp.esp.arcsight.cef.appenders.Log4jAppender
log4j.appenders.coreArcsightAppender.deviceVendor=HP
log4j.appenders.coreArcsightAppender.deviceProduct=CSA
log4j.appenders.coreArcsightAppender.deviceVersion=4.2
log4j.appenders.coreArcsightAppender.transportType=SYSLOG
log4j.appenders.coreArcsightAppender.hostName=192.x.x.x
log4j.appenders.coreArcsightAppender.port=515
```

```

log4j.appenders.coreArcsightAppender.layout=org.apache.log4j.PatternLayout
log4j.appenders.coreArcsightAppender.layout.ConversionPattern=%d [%t] %-5p %c %x - %m%n
log4j.appenders.coreArcsightAppender.useCefHeader=true
log4j.appenders.coreArcsightAppender.eventName=CORE
#Update End

```

2. Modify the following properties to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:

```

log4j.appenders.coreArcsightAppender.hostName=192.x.x.x
log4j.appenders.coreArcsightAppender.port=515

```

3. Append “, fileappender,coreArcsightAppender” to the end of the existing log4j.rootlogger property in the log4j.properties file.

Integration of CCUE Logs with the ArcSight Logger

1. Add following content to the log4j.properties file:

```

#Update Start

log4j.appenders.ccueArcsightAppender=com.hp.esp.arcshift.cef.appenders.Log4jAppender
log4j.appenders.ccueArcsightAppender.deviceVendor=HP
log4j.appenders.ccueArcsightAppender.deviceProduct=CSA
log4j.appenders.ccueArcsightAppender.deviceVersion=4.2
log4j.appenders.ccueArcsightAppender.transportType=SYSLOG
log4j.appenders.ccueArcsightAppender.hostName=192.x.x.x
log4j.appenders.ccueArcsightAppender.port=515
log4j.appenders.ccueArcsightAppender.layout=org.apache.log4j.PatternLayout
log4j.appenders.ccueArcsightAppender.layout.ConversionPattern=%d [%t] %-5p %c %x - %m%n
log4j.appenders.ccueArcsightAppender.eventName=CCUE
log4j.appenders.ccueArcsightAppender.useCefHeader=true
#Update End

```

2. Modify the following properties to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:

```

log4j.appenders.ccueArcsightAppender.hostName=192.x.x.x
log4j.appenders.ccueArcsightAppender.port=515

```

3. Uncomment the log4j.logger.com.hp.ccue.csa property in the log4j.properties file, and append it with “, ccueArcsightAppender”, so it appears as follows:

```

log4j.logger.com.hp.ccue.csa=ERROR, ccue, ccueArcsightAppender

```

4. Append “, ccue,ccueArcsightAppender” to the end of the existing log4j.rootlogger property in the log4j.properties file.

Integration of Marketplace Portal Logs with the ArcSight Logger

1. Add following content to the log4j.properties file:

```

#Update Start

log4j.appenders.mppArcsightAppender=com.hp.esp.arcshift.cef.appenders.Log4jAppender
log4j.appenders.mppArcsightAppender.deviceVendor=HP
log4j.appenders.mppArcsightAppender.deviceProduct=CSA
log4j.appenders.mppArcsightAppender.deviceVersion=4.2
log4j.appenders.mppArcsightAppender.transportType=SYSLOG
log4j.appenders.mppArcsightAppender.hostName=192.x.x.x

```

```

log4j.appenders.mppArcsightAppender.port=515
log4j.appenders.mppArcsightAppender.layout=org.apache.log4j.PatternLayout
log4j.appenders.mppArcsightAppender.layout.ConversionPattern=%d [%t] %-5p %c %x - %m%n
log4j.appenders.mppArcsightAppender.eventName=MPP
log4j.appenders.mppArcsightAppender.useCefHeader=true
#Update End

```

2. Modify the following properties to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:

```

log4j.appenders.mppArcsightAppender.hostName=192.x.x.x
log4j.appenders.mppArcsightAppender.port=515

```

3. Uncomment the log4j.logger.com.hp.ccue.mpp property in the log4j.properties file, and append it with ", mppArcsightAppender", so it appears as follows:

```
log4j.logger.com.hp.ccue.mpp=ERROR, mpp, mppArcsightAppender
```

4. Append ", mpp, mppArcsightAppender" to the end of the existing log4j.rootlogger property in the log4j.properties file.

Integration of the Designer Logs with the ArcSight Logger

1. Add following content to the log4j.properties file:

```

#Update Start
log4j.appenders.designerArcsightAppender=com.hp.esp.arcsight.cef.appenders.Log4jAppender
log4j.appenders.designerArcsightAppender.deviceVendor=HP
log4j.appenders.designerArcsightAppender.deviceProduct=CSA
log4j.appenders.designerArcsightAppender.deviceVersion=4.2
log4j.appenders.designerArcsightAppender.transportType=SYSLOG
log4j.appenders.designerArcsightAppender.hostName=192.x.x.x
log4j.appenders.designerArcsightAppender.port=515
log4j.appenders.designerArcsightAppender.layout=org.apache.log4j.PatternLayout
log4j.appenders.designerArcsightAppender.layout.ConversionPattern=%d [%t] %-5p %c %x - %m%n
log4j.appenders.designerArcsightAppender.eventName=DESIGNER
log4j.appenders.designerArcsightAppender.useCefHeader=true
#Update End

```

2. Modify the following properties to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:

```

log4j.appenders.designerArcsightAppender.hostName=192.x.x.x
log4j.appenders.designerArcsightAppender.port=515

```

3. Uncomment the log4j.logger.com.hp.ccue.designer property in the log4j.properties file, and append it with ", designerArcsightAppender", so it appears as follows:

```
log4j.logger.com.hp.ccue.designer=ERROR, designer, designerArcsightAppender
```

4. Append ", designer, designerArcsightAppender" to the end of the existing log4j.rootlogger property in the log4j.properties file.

Configuring HP SiteScope

To configure HP SiteScope, complete the following steps:

1. Log in to the HP SiteScope server.

2. Copy the Log4j Appender jar file named `arcsight-cef-library-1.0.0.release.8.jar`, which is available in the HP Cloud Service Automation media, to the `C:\SiteScope\WEB-INF\lib` directory on the HP SiteScope server.
3. Open `log4j.properties` from `C:\SiteScope\conf\core\Tools\log4j\PlainJava\log4j.properties`.
4. Replace the contents of `log4j.properties` with the contents provided in [Appendix A](#).
5. In `log4j.properties`, change the following properties to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:


```
log4j.appenders.cef1.hostName=192.x.x.x
log4j.appenders.cef1.port=515
```
6. Restart the SiteScope service from the service manager.
 The logs that are sent to `C:\Sitescope\logs\RunMonitor.log` and `C:\Sitescope\logs\error.log` by HP SiteScope are also sent to the ArcSight Logger.
7. Verify that the ArcSight Logger has been integrated correctly with HP SiteScope:
 - a. Open the logger portal at `https://<loggerHostname>:<logger port>/`.
 - b. Select the Summary tab and check that the IP address of the HP SiteScope server appears in the Devices tab.
 - c. Click the HP SiteScope server IP address in the Devices tab.
 - d. Check that the events are shown in the search list.

Configuring HP Operations Orchestration (pre-10.x versions)

To configure HP Operations Orchestration versions prior to version 10.x, complete the following steps:

1. Copy the Log4j Appender jar file named `arcsight-cef-library-1.0.0.release.8.jar`, which is available in the HP Cloud Service Automation media, to the following directories on the HP Operations Orchestration server:


```
C:\Program Files\Hewlett-Packard\Operations Orchestration\RAS\Java\Default\webapp\WEB-INF\lib
C:\Program Files\Hewlett-Packard\Operations Orchestration\jetty\lib
```
2. Copy `log4j-1.2.8.jar` from `C:\Program Files\Hewlett-Packard\Operations Orchestration\RAS\Java\Default\webapp\WEB-INF\lib` to `C:\Program Files\Hewlett-Packard\Operations Orchestration\jetty\lib`.
3. Go to the following locations:


```
C:\Program Files\Hewlett-Packard\Operations Orchestration\RAS\Java\Default\webapp\conf
C:\Program Files\Hewlett-Packard\Operations Orchestration\jetty\resources
```
4. Replace the contents of the `log4j.properties` files with the content provided in [Appendix B](#) for the corresponding HP Operations Orchestration version.
5. In the `log4j.properties` files, change the following properties to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:


```
log4j.appenders.cef1.hostName=192.x.x.x
log4j.appenders.cef1.port=515
```
6. Restart the RSCentral and RSJLAS services from the service manager.
 The logs sent to `$(iconclude_home)\Central\logs\CentralWrapper.log` and `$(iconclude_home)\RAS\Java\Default\webapp\logs\iConcludeJRAS.log` by HP Operations Orchestration are also sent to ArcSight Logger.

7. Verify that ArcSight Logger has been integrated correctly with HP Operations Orchestration:
 - a. Open the logger portal at <https://<loggerHostname>:<logger port>/>.
 - b. Select the Summary tab and check that the IP address of the HP Operations Orchestration server appears in the Devices tab.
 - c. Click the HP Operations Orchestration server IP address in the Devices tab.
 - d. Check that the events are shown in the search screen.

Configuring HP Operations Orchestration (version 10.x)

To configure HP Operations Orchestration version 10.x, complete the following steps:

1. Copy the jar file named `arcsight-cef-library-1.0.0.release.8.jar`, which is available in the HP Cloud Service Automation media, to the following directories on the HP Operations Orchestration server:

```
C:\Program Files\Hewlett-Packard\Operations Orchestration\Central\lib
C:\Program Files\Hewlett-Packard\Operations Orchestration\Central\tomcat\lib
```

2. Add following content to the `log4j.properties` file that is in the `C:\Program Files\Hewlett-Packard\Operations Orchestration\Central\conf` directory:

```
#Update Start
log4j.appenders.arcsightAppender=com.hp.esp.arcsight.cef.appenders.Log4jAppender
log4j.appenders.arcsightAppender.deviceVendor=HP
log4j.appenders.arcsightAppender.deviceProduct=CSA
log4j.appenders.arcsightAppender.deviceVersion=4.2
log4j.appenders.arcsightAppender.transportType=SYSLOG
log4j.appenders.arcsightAppender.hostName=192.x.x.x
log4j.appenders.arcsightAppender.port=515
log4j.appenders.arcsightAppender.layout=org.apache.log4j.PatternLayout
log4j.appenders.arcsightAppender.layout.ConversionPattern=%d [%t] %-5p %c %x - %m%n
log4j.appenders.arcsightAppender.eventName=OO_EVENT
log4j.appenders.arcsightAppender.useCefHeader=true
#Update End
```

3. Modify the following properties to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:

```
log4j.appenders.ArcsightAppender.hostName=192.x.x.x
log4j.appenders.ArcsightAppender.port=515
```

4. Uncomment as necessary and append “`arcsightAppender`” to the end of the existing

```
log4j.rootlogger, log4j.logger.com.hp.oo, and log4j.logger.com.hp.oo.execution
properties in the log4j.properties file so that they appear as follows.
log4j.rootLogger=WARN, general.appenders, arcsightAppender
log4j.logger.com.hp.oo= server.appenders, arcsightAppender
log4j.logger.com.hp.oo.execution=execution.appenders, arcsightAppender
```

Configuring HP Universal CMDB

To configure HP Universal CMDB, complete the following steps:

1. Copy the Log4j Appender jar file named `arcsight-cef-library-1.0.0.release.8.jar`, which is available in the HP Cloud Service Automation media, to the `C:\hp\UCMDB\UCMDBServer\lib` directory on the HP Operations Orchestration server.

2. Open the log4j.properties named as root.properties file from C:\hp\UCMDB\UCMDBServer\conf\log\root\root.properties.
3. Replace the contents of root.properties with the contents provided in [Appendix C](#).
4. In root.properties, change the following properties to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:


```
log4j.appenders.cef1.hostName=192.x.x.x
log4j.appenders.cef1.port=515
```
5. Restart the UCMDB Server, UCMDB_Probe_DB, and UCMDB Probe services from the service manager.
The logs sent to C:\hp\UCMDB\UCMDBServer\runtime\log\error.log by HP Universal CMDB are also sent to the ArcSight Logger.
6. Verify that the ArcSight Logger has been integrated correctly with HP Universal CMDB:
 - a. Open the logger portal at https://<loggerHostname>:<logger port>/.
 - b. Select the Summary tab and check that the IP address of the HP Universal CMDB server appears in the Devices tab.
 - c. Click the HP UCMDB server IP address in the Devices tab.
 - d. Check that the events are shown in the search screen.

Configuring the Identity Management Service (IdM)

To integrate the IdM logs with the ArcSight Logger, complete the following steps:

1. Copy the jar file named arcsight-cef-library-1.0.0.release.8.jar, which is available in the HP Cloud Service Automation media, to the following directory on the HP CSA server:
C:\Program Files\Hewlett-Packard\CSA\jboss-as\standalone\deployments\idm-service.war\WEB-INF\lib
2. Add following content to the log4j.properties file that is in the C:\Program Files\Hewlett-Packard\CSA\jboss-as\standalone\deployments\idm-service.war\WEB-INF\classes directory:

```
#Update Start

log4j.appenders.arcsightAppender=com.hp.esp.arcsight.cef.appenders.Log4jAppender
log4j.appenders.arcsightAppender.deviceVendor=HP
log4j.appenders.arcsightAppender.deviceProduct=CSA
log4j.appenders.arcsightAppender.deviceVersion=4.2
log4j.appenders.arcsightAppender.transportType=SYSLOG
log4j.appenders.arcsightAppender.hostName=192.x.x.x
log4j.appenders.arcsightAppender.port=515
log4j.appenders.arcsightAppender.layout=org.apache.log4j.PatternLayout
log4j.appenders.arcsightAppender.layout.ConversionPattern=%d [%t] %-5p %c %x - %m%n
log4j.appenders.arcsightAppender.eventName=IDM
log4j.appenders.arcsightAppender.useCefHeader=true

#Update End
```
3. Modify the following properties to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:


```
log4j.appenders.arcsightAppender.hostName=192.x.x.x
log4j.appenders.arcsightAppender.port=515
```
4. Append ", arcsightAppender" to the end of the existing log4j.rootlogger property in the log4j.properties file.

Configuring HP Matrix operating environment

To configure HP MOE, complete the following steps:

1. Copy the Log4j Appender jar file named `arcsight-cef-library-1.0.0.release.8.jar`, which available in the HP Cloud Service Automation media) to the `C:\Program Files\HP\Matrix infrastructure orchestration\lib` directory on the HP MOE server.

2. Open `log4j.properties` from `C:\Program Files\HP\Matrix infrastructure orchestration\conf`.

3. Replace the contents of `log4j.properties` with the content provided in [Appendix D](#).

4. In `log4j.properties`, change the following properties to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:

```
log4j.appender.cefl.hostName=192.x.x.x  
log4j.appender.cefl.port=515
```

5. Restart the HP Matrix infrastructure orchestration service from the service manager.

The logs sent to `C:\Program Files\HP\Matrix infrastructure orchestration\logs\hpio.log` and `C:\Program Files\HP\Matrix infrastructure orchestration\logs\hpio-controller.log` by the Insight Orchestration application are also sent to the ArcSight Logger.

6. Verify that the ArcSight Logger has been integrated correctly with HP MOE:

- a. Open the logger portal URL: `https://<loggerHostname>:<logger port>/`.
- b. In the **Summary** tab, check that the IP address of the HP MOE server appears in the **Devices** tab.
- c. Click the HP MOE server IP address in the **Devices** tab.
- d. Check that the events are shown in the search screen.

Configuring HP Helion OpenStack®

To integrate the HP Helion OpenStack designer logs with the ArcSight Logger, complete the following steps:

1. Copy the jar file named `arcsight-cef-library-1.0.0.release.8.jar`, which is available in the HP Cloud Service Automation media, to the following directory on the HP Helion OpenStack server:

```
\var\lib\designer\webapps\designer\WEB-INF\lib\
```

2. Add following content to the `log4j.xml` file that is in the `\var\lib\designer\webapps\designer\WEB-INF\classes` directory:

```
<!-- Update Start -->  
  
<appender name="ARCSIGHT" class="com.hp.esp.arcsight.cef.appenders.Log4jAppender">  
    <param name="deviceVendor" value="HP" />  
    <param name="deviceProduct" value="CSA" />  
    <param name="deviceVersion" value="4.2" />  
    <param name="transportType" value="SYSLOG" />  
    <param name="hostName" value="192.x.x.x" />  
    <param name="port" value="515" />  
    <param name="eventName" value="CLOUD_OS" />  
    <param name="useCefHeader" value="true" />  
    <layout class="org.apache.log4j.PatternLayout">  
        <param name="ConversionPattern" value="%d [%t] %-5p %c %x - %m%n" />  
    </layout>  
</appender>
```

```
<!-- Update End -->
```

3. Modify the values of the following parameters to match the IP address of the ArcSight Logger and the UDP port on the ArcSight Logger portal:

```
<param name="hostName" value="192.x.x.x"/>  
<param name="port" value="515"/>
```

4. Add the ArcSight appender to the com.hp.ccue, org.springframework, and root loggers in the log4j.xml file. After this information has been added, the portion of the file affected by the change will appear as follows, with the added information shown in bold font below:

```
<logger name="com.hp.ccue" additivity="false">  
    <level value="error"/>  
    <appender-ref ref="FILE"/>  
    <appender-ref ref="CONSOLE"/>  
    <appender-ref ref="ARCSIGHT"/>  
</logger>  
  
<logger name="org.springframework" additivity="false">  
    <level value="info"/>  
    <appender-ref ref="FILE"/>  
    <appender-ref ref="CONSOLE"/>  
    <appender-ref ref="ARCSIGHT"/>  
</logger>  
  
<root>  
    <level value="warn"/>  
    <appender-ref ref="CONSOLE"/>  
    <appender-ref ref="FILE"/>  
    <appender-ref ref="ARCSIGHT"/>  
</root>
```

5. Run the following two commands to stop and then restart the HP Helion OpenStack designer:

```
\var\lib\designer\bin\shutdown.sh  
\var\lib\designer\bin\startup.sh
```

Searching for events

The most useful type of search is the timestamp-based search. Extracting logs across products in a given period will help you track the flow of events.

You can perform searches using search strings that are similar to Google searches. For example, you can search by subscription name using the name provided in the HP Cloud Service Automation Cloud Subscriber Portal when a subscription was submitted. A search for the subscription name returns all the related HP Cloud Service Automation log events for subscriptions with that name. Note that if the subscription name is not unique, the log events that are returned might not be related to the given subscription.

Another method is to use saved searches to return logs.

To create saved searches for HP Cloud Service Automation logs, complete the following steps:

1. In the ArcSight Logger Portal, click **Analyze > Search**.
2. Select the desired time period.
3. For each case, provide the regex string given in [Regular Expressions for HP Cloud Service Automation Logs](#).
4. Click **Go** to return all the HP Cloud Service Automation logs for the selected time period.

- Save the search string if you want to reuse it.

Using regular expressions

You can create, customize, and save the regular expression (regex) searches described in this section.

All HP Cloud Service Automation logs

This regular expression returns all HP Cloud Service Automation logs for the selected time period.

```
| rex "\d+ \S+ \d+ \S+\, \d+ \[\S+\] (?<status>\S+)
(?<userType>\S+)= (?<username>\S+); \S+= (?<artifactId>\S+); .*" | regex userType =
"csaUserName"
```

HP Cloud Service Automation error logs

This regular expression returns all the HP Cloud Service Automation logs that have error messages.

```
| rex "\d+ \S+ \d+ \S+\, \d+ \[\S+\] (?<status>\S+)
(?<userType>\S+)= (?<username>\S+); \S+= (?<artifactId>\S+); .*" | regex userType =
"csaUserName" | regex status = "ERROR"
```

HP Cloud Service Automation info or warning logs

This regular expression returns all the HP Cloud Service Automation logs that are either info or warning type log messages.

```
| rex "\d+ \S+ \d+ \S+\, \d+ \[\S+\] (?<status>\S+)
(?<userType>\S+)= (?<username>\S+); \S+= (?<artifactId>\S+); .*" | regex userType =
"csaUserName" | regex status = "INFO|WARN"
```

HP Cloud Service Automation logs for all users

This regular expression returns all the HP Cloud Service Automation logs for all users.

```
| rex "\d+ \S+ \d+ \S+\, \d+ \[\S+\] (?<status>\S+)
(?<userType>\S+)= (?<username>\S+); \S+= (?<artifactId>\S+); .*" | regex userType =
"csaUserName" | regex username= ".*"
```

To customize this search, replace the “.*” for the search parameter `username` with the HP Cloud Service Automation `username`. For example:

```
| rex "\d+ \S+ \d+ \S+\, \d+ \[\S+\] (?<status>\S+)
(?<userType>\S+)= (?<username>\S+); \S+= (?<artifactId>\S+); .*" | regex userType =
"csaUserName" | regex username= "CSAAdmin"
```

In the above case, `csaAdmin` is a user in HP Cloud Service Automation that has submitted a subscription.

HP Cloud Service Automation logs for all artifact IDs

This regular expression returns all the HP Cloud Service Automation logs for all artifact IDs.

```
| rex "\d+ \S+ \d+ \S+\, \d+ \[\S+\] (?<status>\S+) (?<userType>\S+)=\S+
\S+= (?<artifactId>\S+); .*" | regex userType = "csaUserName" | regex artifactId =
".*"
```

To customize this search, replace the “.*” for the search parameter `artifactid=“.*”` with the artifact ID for a particular subscription or user. The artifact ID can be obtained by filtering based on `username` and time period. For example:

```
| rex "\d+ \S+ \d+ \S+\, \d+ \[\S+\] (?<status>\S+) (?<userType>\S+)=\S+
\S+= (?<artifactId>\S+); .*" | regex userType = "csaUserName" | regex artifactId =
"402894d536c3d81b0136c43d2fffc247a"
```

When you search for a particular artifactId or csaUserName, *do not* click the ID in the log itself, which is shown in the green highlighted text in the following image.

The screenshot shows the ArcSight Logger interface. At the top, there's a search bar with a complex regex query: `| rex "\d+ \S+ \d+ \S+\d+ \S+ [\S+] (?<status>\S+) (?<userType>\S+)=\S+; \S+=(?<artifactId>\S+);.*" | regex userType = "csaUserName" | regex artifactId = ".**"`. Below the search bar is an 'Advanced Search' section with fields for 'Fields' (All Fields) and 'Auto Update' (5 min). A histogram shows event counts over time: 16:17:00, 16:57:00, and 17:37:00. The count for 16:17:00 is approximately 14, and for 16:57:00 is approximately 5. The main area displays a table of events. The first event in the table is highlighted with a red box around its artifactId value: `4028a006384603790138487398a106c0`.

	Time (Event Time)	Device	Logger	artifactId	status	userType	deviceVer
1	2012/07/02 16:17:54 UTC	[UDP Receiver]	Local	4028a006384603790138487398a106c0	WARN	csaUserName	
	02 Jul 2012 09:17:46,468 [http--...]						

If you click the ID, it will resolve to a broken query and does not show the results of the search. Instead, make note of the ID and manually type it into the query.

For more information about searching, see **Searching and Analyzing Events** in the *ArcSight Logger Administrator's Guide*.

Manually uploading log files

The reference implementation mentions integration with only the products listed in the above sections; if you want to integrate with any other product, you can use a manual upload. Manual upload of log files can be performed using File Receivers. File Receiver-type receivers read log files from a network file system (NFS), CIFS, or Storage Area Network (SAN). These receivers can read single or multi-line log files. The log file can be uploaded only once using the file receiver. If the log file has to be uploaded again, then a new file receiver has to be created.

Note: Below is an example of configuring a file receiver and uploading the log events onto the ArcSight Logger for a specific log file. You must customize the regular expression and other parameters mentioned below according to their log file.

Creating a file receiver

To create a file receiver, complete the following steps:

1. Log in to the ArcSight Logger Portal. The default credentials are admin/password.
2. Select the Configuration tab.
3. In the left pane, click **Event Input/Output**.

The screenshot shows the ArcSight Logger interface. At the top, there are four circular performance indicators: EPS In (3K), EPS Out (3K), CPU (50%), and EPS In/Out (CPU Load 32%). Below the indicators is a navigation bar with links: Summary, Analyze, Dashboards, Reports, Configuration, System Admin, Help, About, Options, and Logout. The Configuration tab is selected. On the left, a sidebar lists various management options: Devices, Event Archives, Storage, Event Input/Output, Alerts, Scheduled Tasks, Filters, Saved Search, Search Optimization, Configuration Backup, System Maintenance, License Information, Retrieve Logs, and Content Import. The main content area is titled "Receivers" and contains a table with the following data:

Name	Type	IP Address	Port
Central_wrapper.log	File Receiver		
cmdb.apiaudit.detailed.log	File Receiver		
CSALog1	File Receiver		
hp-csa.log	File Receiver		
hpio.log	File Receiver		
hpio-controller.log	File Receiver		
hp-svc.log	File Receiver		
RunMonitor.log	File Receiver		
TCP Receiver	TCP Receiver	All	514
UDP Receiver	UDP Receiver	All	515

At the bottom of the table area is a small "Add" button.

4. Click **Add** to add a new receiver.
5. In the **Name** field, type the Receiver name.
6. In the **Type** field, type **File Receiver**.

The screenshot shows the "Add Receiver" dialog box. It has two input fields: "Name" containing "ReceiverName" and "Type" set to "File Receiver". At the bottom right are "Next" and "Cancel" buttons.

7. Click **Next**.
8. In the **Folder** field, type the name of the folder where the log files exist on the ArcSight Logger server. Make sure the ArcSight Logger user has read and write permissions for the folders.
9. In the **Wildcard** field, type the name of the log file.

10. In the **Date/time loc. regex** field, type the regular expression to identify the date in an event.

For example, consider the following log event:

```
28 Feb 2012 06:02:36,646 INFO
[org.springframework.scheduling.concurrent.ScheduledExecutorFactoryBean#0-2]
(CatalogLifecycleManagerImpl.java:210) - [csa] [CATALOG] Catalog initialization
complete.
```

The regular expression for the date/timestamp in this log event is:

```
^(.*?)(\d+.*
```

11. In the **Date/time format** field, type the date/timestamp format.

For example:

If the date is:

```
28 Feb 2012 06:02:36
```

The format should be:

```
dd MM YYYY HH:mm:ss
```

12. In the **Event start (regex)** field, type the regex for event start. This tells the logger the pattern used for each event. That is, where the event starts and ends.

For example:

Consider the following log event:

```
28      Feb      2012      06:02:36,646      INFO
[org.springframework.scheduling.concurrent.ScheduledExecutorFactoryBean#0-2]
(CatalogLifecycleManagerImpl.java:210) - [csa] [CATALOG] Catalog initialization
complete.
```

The regular expression for the event start pattern is:

```
^(.*?)(\d+.*
```

Saved Search Configuration

Filters

Mode: persist

Rename extension: .done

Character encoding: US-ASCII

Delay after seen: 10

Date/time locale: English (United States)

Date/time zone: Pacific Standard Time --- America/Los_Angeles

Date/time loc. regex: `^(.*?)\.\d+.*`

Date/time format: dd MM yyyy HH:mm:ss

Event start (regex): `^(.*?)\.\d+.*`

Save **Cancel**

13. After completing the fields described in these steps, click **Save**.

14. The file receiver that you created is disabled by default. Enable the receiver by clicking the enable icon shown in the following image.

When the receiver is enabled, the log data is loaded to the logger.

ArcSight Logger

Summary Analyze Dashboards Reports Configuration System Admin

admin Logout

Devices Event Archives Storage Event Input/Output Alerts Scheduled Tasks Filters Saved Search Search Optimization Configuration Backup System Maintenance License Information Retrieve Logs Content Import

Receivers Forwarders EPM Destinators Certificates

Add

Name	Type	IP Address	Port	Enable
Central_wrapper.log	File Receiver			
cmdh.apiaudit.detailed.log	File Receiver			
CSAlog1	File Receiver			
hp-csa.log	File Receiver			
hplo.log	File Receiver			
hplo-controller.log	File Receiver			
hp-src.log	File Receiver			
RunMonitor.log	File Receiver			
TCP Receiver	TCP Receiver	All	514	
UDP Receiver	UDP Receiver	All	515	

Add

15. To look at all the log events loaded by the receiver, click **Analyze > Search**.

The screenshot shows the ArcSight Logger interface. At the top, there are performance metrics: EPS In (5K), EPS Out (5K), CPU (5%), and CPU Load (12%). The navigation bar includes Summary, Analyze, Dashboards, Reports, Configuration (which is selected), System Admin, Help, About, Options, and Logout. On the left, a sidebar lists various management options like Devices, Alerts, Event Archive, Storage, and Event Input/Output. Under Event Input/Output, there's a table of receivers:

Name	Type	IP Address	Port
Central_wrapper.log	File Receiver		
cmdb.apiaudit.detailed.log	File Receiver		
CSALog1	File Receiver		
hp-csa.log	File Receiver		
hpio.log	File Receiver		
hpio-controller.log	File Receiver		
hp-src.log	File Receiver		
RunMonitor.log	File Receiver		
TCP Receiver	TCP Receiver	All	514
UDP Receiver	UDP Receiver	All	515

At the bottom of the sidebar, there's an 'Add' button.

16. Select **Last 30 days** as the time range.

17. Enter the following search string, replacing `hp-csa.log` with the receiver name that you provided:

```
_deviceGroup in ["Logger Internal Event Device [hp-csa.log]"]
```

Every file receiver is recognized as Logger Internal Event Device by the logger. Therefore, the search should be performed on the device group and logger internal event device.

18. Click **GO**.

The screenshot shows the search results for the query. At the top, there are search filters: Fields (All Fields), Auto Update (5 min), and a timestamp range from 10,579 to 00:03:065. There's also an Export Results... button. Below this is a histogram showing event counts over time, with a legend indicating 1 bar = 1 hour.

The main area displays the search results in a table:

Events								
	Time (Event Time)	Device	Logger	deviceVendor	deviceProduct	deviceVersion	deviceEventClassId	name
3 1	20/02/2012 06:02:36,646	20/P [org.springframework.scheduling.concurrent.ScheduledExecutorFactoryBean#0-1]	[CatalogLifecycleManagerImpl.java:150]	- [csa]	[DATAG]	Catalog initialization complete.		
3 2	20/02/2012 06:02:36,734	20/P [org.springframework.scheduling.concurrent.ScheduledExecutorFactoryBean#0-1]	[CatalogLifecycleManagerImpl.java:150]	- [csa]	*****	Finished reload.		
3 3	20/02/2012 06:02:36,734	20/P [org.springframework.scheduling.concurrent.ScheduledExecutorFactoryBean#0-1]	[CatalogLifecycleManagerImpl.java:401]	- [csa]	[REL040]	Catalog reload complete.Tue Feb 20 06:		
3 4	20/02/2012 06:04:36,957	20/P [org.springframework.scheduling.concurrent.ScheduledExecutorFactoryBean#0-1]	[CatalogLifecycleManagerImpl.java:401]	- [csa]	[REL040]	Catalog reload complete.Tue Feb 20 06:		

A Field Summary panel on the left shows no selected fields.

19. You can create custom filters to analyze log events. You cannot create custom filters that filter by time.

Best practices for manual upload

During manual upload, there is a chance that log events could be uploaded repetitively. This might exceed the daily inflow limit of the free version of ArcSight Logger (750 MB per day). To avoid this situation, observe the following best practices:

1. Perform periodic uploads on a daily, weekly, monthly, or as-needed basis. Avoid more than one upload per day.
2. After each upload, rename the log file so that repetitive uploads can be avoided and fresh logs are generated in the new log file.

Upgrading ArcSight Logger

If you upgrade ArcSight but you are not upgrading HP Cloud Service Automation, then you do not need to do anything.

If you upgrade HP Cloud Service Automation, the log4j.properties file may contain duplicate entries if HP Cloud Service Automation was previously integrated with ArcSight Logger.

To update the configuration file after upgrading HP Cloud Service Automation, complete the following steps:

1. Open log4j.properties, which is found in C:\Program Files\Hewlett-Packard\CSA\jboss-as\standalone\deployments\csa.war\WEB-INF\classes.
2. Comment the following lines, which are found at the end of the file:

```
#log4j.appender.cef1=com.hp.esp.arcsight.cef.appenders.Log4jAppender
#log4j.appender.cef1.deviceVendor=HP
#log4j.appender.cef1.deviceProduct=HP Cloud Service Automation
#log4j.appender.cef1.deviceVersion=4.2
#log4j.appender.cef1.transportType=SYSLOG
#log4j.appender.cef1.hostName=192.x.x.x
#log4j.appender.cef1.port=515
#log4j.appender.cef1.layout=org.apache.log4j.PatternLayout
#log4j.appender.cef1.layout.ConversionPattern=%d{DATE} [%t] %-5p %x %C{1} : %m%n
#log4j.appender.cef1.appenders.threshold=off
```

Appendix A

HP SiteScope log4j.properties file

```
#####
#                               HP SiteScope log4j Configuration file
#
#####
log.file.path=logs
#loglevel can be any of DEBUG INFO WARN ERROR FATAL
loglevel=ERROR
monitor.loglevel=ERROR
skip.loglevel=INFO
remote_test.loglevel=INFO
def.file.max.size=1000KB
def.files.backup.count=5

#DO NOT CHANGE heartbeat.loglevel!
heartbeat.loglevel=INFO
heartbeat.log.file.path=heartbeat
def.heartbeat.file.pattern=%d{yyyy-MM-dd HH:mm:ss,SSS}\t%m%n

#set the CEF log4j appender ...
log4j.appender.cef1=com.hp.esp.arcsight.cef.appenders.Log4jAppender
log4j.appender.cef1.deviceVendor=HP
log4j.appender.cef1.deviceProduct=CSA
log4j.appender.cef1.deviceVersion=4.2
log4j.appender.cef1.transportType=SYSLOG
log4j.appender.cef1.hostName=192.x.x.x
log4j.appender.cef1.port=515
log4j.appender.cef1.layout=org.apache.log4j.PatternLayout
log4j.appender.cef1.layout.ConversionPattern=%d [%t] (%F:%L) %-5p - %m%n
log4j.appender.cef1.useCefHeader=true
log4j.appender.cef1.eventName=SiteScope Event

#
# Categories that write to error.log
#
log4j.rootCategory=${loglevel}, error.appenders, cef1
```

```

log4j.category.com.mercury.sitescope.platform.log.ErrorLogger=${loglevel},
error.appenders, cef1

log4j.category.org.apache.axis.encoding.ser=FATAL,error.appenders, cef1

#
# Bootstrap categories
#
log4j.category.com.mercury.sitescope.bootstrap=INFO, error.appenders,
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.bootstrap=false

log4j.category.com.mercury.sitescope.infra.services.ServiceController=INFO,
error.appenders, monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.infra.services.ServiceController=false

#
# HA categories
#
log4j.category.com.mercury.sitescope.ha=INFO, ha.appenders
log4j.additivity.com.mercury.sitescope.ha=false

#
# Skip Monitor log
#
log4j.category.com.mercury.sitescope.entities.monitors.AtomicMonitor.SkipMonitor=${skip.loglevel}, skip.monitor.appenders
log4j.additivity.com.mercury.sitescope.entities.monitors.AtomicMonitor.SkipMonitor=false

#
# Amazon EC2 Integration log
#
log4j.category.com.mercury.sitescope.monitors.amazon.cw=${loglevel},
amazon.ec2.integration.appenders
log4j.additivity.com.mercury.sitescope.monitors.amazon.cw=false

#
# Various categories that write to RunMonitor.log
#
log4j.category.com.mercury.sitescope.monitors=${monitor.loglevel},
monitors.appenders, cef1

```

```
log4j.additivity.com.mercury.sitescope.monitors=false

log4j.category.com.mercury.sitescope.entities.monitors=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.entities.monitors=false

log4j.category.com.mercury.sitescope.util.cmdline=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.util.cmdline=false

log4j.category.com.mercury.sitescope.util.cmdparser=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.util.cmdparser=false

log4j.category.com.mercury.sitescope.util.jdbc=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.util.jdbc=false

log4j.category.com.mercury.sitescope.util.process=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.util.process=false

# In order to view the perfex and perfex dispatcher tables in the progress move
this to debug
log4j.category.com.mercury.sitescope.util.process.ProcessMgr=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.util.process.ProcessMgr=false

log4j.category.com.mercury.sitescope.util.script=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.util.script=false

log4j.category.com.mercury.sitescope.util.ssh=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.util.ssh=false

log4j.category.wmi.protocol=${monitor.loglevel}, monitors.appenders, cef1
log4j.additivity.wmi.protocol=false

log4j.category.com.mercury.sitescope.infra.broadvision=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.infra.broadvision=false
```

```

log4j.category.com.mercury.sitescope.infra.event=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.infra.event=false

log4j.category.com.mercury.sitescope.infra.ipmi=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.infra.ipmi=false

log4j.category.com.mercury.sitescope.infra.network=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.infra.network=false

log4j.category.com.mercury.sitescope.infra.queue=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.infra.queue=false

log4j.category.com.mercury.sitescope.platform.ems=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.platform.ems=false

log4j.category.com.mercury.sitescope.platform.mdrv=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.platform.mdrv=false

log4j.category.com.mercury.sitescope.platform.mq=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.platform.mq=false

log4j.category.com.mercury.sitescope.api.adapter.ems=${monitor.loglevel},
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.api.adapter.ems=false

log4j.category.com.mercury.sitescope.platform.log.MonitorLogger=INFO,
monitors.appenders, cef1
log4j.additivity.com.mercury.sitescope.platform.log.MonitorLogger=false

log4j.category.AuthenticationLogger=FATAL, authentication.appenders, cef1
log4j.additivity.AuthenticationLogger=false

#
# Statistics Logger
#

```

```

log4j.category.com.mercury.sitescope.platform.log.statistics.StatisticsLogger=INFO
, statistics.logger.appendер

log4j.additivity.com.mercury.sitescope.platform.log.statistics.StatisticsLogger=false

log4j.category.com.mercury.sitescope.platform.log.statistics.MonitorStatisticsLogger=INFO
, statistics.logger.appendер

log4j.additivity.com.mercury.sitescope.platform.log.statistics.MonitorStatisticsLogger=false

log4j.category.com.mercury.sitescope.platform.log.statistics.MemoryStatistics=INFO
, statistics.logger.appendер

log4j.additivity.com.mercury.sitescope.platform.log.statistics.MemoryStatistics=false

log4j.category.com.mercury.sitescope.platform.log.statistics.PoolStatistics=INFO
, statistics.logger.appendер

log4j.additivity.com.mercury.sitescope.platform.log.statistics.PoolStatistics=false

log4j.category.com.mercury.sitescope.platform.log.statistics.StatisticsLoggerRaw=W
ARN, statistics.logger.raw.appendер

log4j.additivity.com.mercury.sitescope.platform.log.statistics.StatisticsLoggerRaw=false

#
# SSH Trace log
#
log4j.category.SSHTrace=INFO, monitors.appendер
log4j.additivity.SSHTrace=false

#
# Perfex log
#
log4j.category.PerfexLogger=${monitor.loglevel}, monitors.appendер, cef1
log4j.additivity.PerfexLogger=false

#
# Template Silent Deployment log
#
log4j.category.TemplateDeploymentLogger=INFO, template.silent.deployment.appendер

```

```

log4j.additivity.TemplateDeploymentLogger=false

#
#com.mercury.sitescope.api.PreferenceProxy.multiTest
#
log4j.category.com.mercury.sitescope.api.util.RemoteMultiTestUtil=${remote_test.lo
glevel}, remote_test.appendер
log4j.additivity.com.mercury.sitescope.api.util.RemoteMultiTestUtil=false

#
# High Availability and initial configuration copy write to mirror.log
#
log4j.category.com.mercury.sitescope.entities.actions.MirrorConfiguration=${loglev
el}, mirror.appendер
log4j.additivity.com.mercury.sitescope.entities.actions.MirrorConfiguration=false
log4j.category.com.mercury.sitescope.entities.actions.CopyInitialConfiguration=${l
oglevel}, mirror.appendер
log4j.additivity.com.mercury.sitescope.entities.actions.CopyInitialConfiguration=f
alse
log4j.category.com.mercury.sitescope.entities.actions.CopyConfiguration=${loglevel
}, mirror.appendер
log4j.additivity.com.mercury.sitescope.entities.actions.CopyConfiguration=false

# Audit Log category - ver SIS 10.0
log4j.category.NewAuditLog=INFO, newaudit.log.appendер
log4j.additivity.NewAuditLog=false

#
# Dynamic monitors changes category
log4j.category.DynamicMonitoringChanges=${loglevel},
dynamic.monitoring.changes.appendер
log4j.additivity.DynamicMonitoringChanges=false

#
# Primary Heartbeat category
log4j.category.PrimaryHeartbeatLog=${heartbeat.loglevel},
primary.heartbeat.appendер
log4j.additivity.PrimaryHeartbeatLog=false

#
# Failover Heartbeat category
log4j.category.FailoverHeartbeatLog=${heartbeat.loglevel},
failover.heartbeat.appendер
log4j.additivity.FailoverHeartbeatLog=false

```

```

# Failover Manager Heartbeat category
log4j.category.FailoverManagerHeartbeatLog=${heartbeat.loglevel},
failover.manager.heartbeat.appenders
log4j.additivity.FailoverManagerHeartbeatLog=false

# Upgrade category
log4j.category.com.mercury.sitescope.upgrade.UpgradeManager=INFO, upgrade.appenders
log4j.additivity.com.mercury.sitescope.upgrade.UpgradeManager=false
log4j.category.com.mercury.sitescope.integrations.bac.upgrade.BACIntegrationUpgrader=INFO, upgrade.appenders
log4j.additivity.com.mercury.sitescope.integrations.bac.upgrade.BACIntegrationUpgrader=false
log4j.category.com.mercury.sitescope.integrations.bac.upgrade.BACIntegrationUpgradersFactory=INFO, upgrade.appenders
log4j.additivity.com.mercury.sitescope.integrations.bac.upgrade.BACIntegrationUpgradersFactory=false

# Change ${loglevel} to DEBUG to enable baselining component logging
log4j.category.BaseliningComponent=${loglevel}, baselining.appenders
log4j.additivity.BaseliningComponent=false

# Tomcat request statistics filter
log4j.category.com.mercury.topaz.webinfra.filters.UserStatsLogFilter=${loglevel},
request.statistics.appenders
log4j.additivity.com.mercury.topaz.webinfra.filters.UserStatsLogFilter=false

log4j.category.dataIntegration=${loglevel}, data.integration.appenders
log4j.additivity.dataIntegration=false

# Change to enable Template Persistency Upgrade logging
log4j.category.com.mercury.sitescope.platform.configmanager.treenodes.template.upgrader=INFO, templates.persistency.upgrade.appenders
log4j.additivity.com.mercury.sitescope.platform.configmanager.treenodes.template.upgrader=false

# OA metric integration logger
log4j.category.operationAgentIntegration=${loglevel},
oa.metric.integration.appenders
log4j.additivity.operationAgentIntegration=false
log4j.category.com.mercury.sitescope.integrations.om.metric=${loglevel},
oa.metric.integration.appenders

```

```

log4j.additivity.com.mercury.sitescope.integrations.om.metric=false

# Downtime logger
log4j.category.com.mercury.sitescope.integrations.bac.downtime=${loglevel},
downtime.appenders
log4j.additivity.com.mercury.sitescope.integrations.bac.downtime=false

log4j.category.com.mercury.sitescope.platform.downtime=${loglevel},
downtime.appenders
log4j.additivity.com.mercury.sitescope.platform.downtime=false

#
# Log Appenders
#

log4j.appenders.monitors.appenders=org.apache.log4j.RollingFileAppender
log4j.appenders.monitors.appenders.File=../${log.file.path}/RunMonitor.log
log4j.appenders.monitors.appenders.MaxFileSize=${def.file.max.size}
log4j.appenders.monitors.appenders.MaxBackupIndex=${def.files.backup.count}
log4j.appenders.monitors.appenders.layout=org.apache.log4j.PatternLayout
log4j.appenders.monitors.appenders.layout.ConversionPattern=%d [%t] (%F:%L) %-5p -
%m%n

#
# Statistics Logger appender
#
log4j.appenders.statistics.logger.appenders=org.apache.log4j.RollingFileAppender
log4j.appenders.statistics.logger.appenders.File=../${log.file.path}/server_statistics.log
log4j.appenders.statistics.logger.appenders.MaxFileSize=${def.file.max.size}
log4j.appenders.statistics.logger.appenders.MaxBackupIndex=${def.files.backup.count}
log4j.appenders.statistics.logger.appenders.layout=org.apache.log4j.PatternLayout
log4j.appenders.statistics.logger.appenders.layout.ConversionPattern=%d [%t] %-5p -
%m%n

#
# Statistics Logger Raw appender
#
log4j.appenders.statistics.logger.raw.appenders=org.apache.log4j.RollingFileAppender
log4j.appenders.statistics.logger.raw.appenders.File=../${log.file.path}/server_statistics_raw.log
log4j.appenders.statistics.logger.raw.appenders.MaxFileSize=30000KB

```

```

log4j.appenders.statistics.logger.raw.appenders.MaxBackupIndex=${def.files.backup.count}
log4j.appenders.statistics.logger.raw.appenders.layout=org.apache.log4j.PatternLayout
log4j.appenders.statistics.logger.raw.appenders.layout.ConversionPattern=%d[%t],%m%n

#
# Template Silent Deployment appender
#
log4j.appenders.template.silent.deployment.appenders=org.apache.log4j.DailyRollingFileAppender
log4j.appenders.template.silent.deployment.appenders.File=../${log.file.path}/silent_deployment.log
log4j.appenders.template.silent.deployment.appenders.DatePattern='yyyy-MM-dd'
log4j.appenders.template.silent.deployment.appenders.layout=org.apache.log4j.PatternLayout
log4j.appenders.template.silent.deployment.appenders.layout.ConversionPattern=%d{yyyy-MM-dd HH:mm:ss} - %m%n

####
# Use the DatedFileAppender *INSTEAD* of RollingFileAppender to create date-named logs
##
#log4j.appenders.monitors.appenders=com.mercury.sitescope.util.DateFormatFileAppender
#log4j.appenders.monitors.appenders.FilePattern='../${log.file.path}/error'yyyy_MM_dd'.log'

# file buffering for the error log to help performance of logging operations
#log4j.appenders.monitors.appenders.BufferedIO=true
#log4j.appenders.monitors.appenders.BufferSize=8192

log4j.appenders.error.appenders=org.apache.log4j.RollingFileAppender
log4j.appenders.error.appenders.File=../${log.file.path}/error.log
log4j.appenders.error.appenders.MaxFileSize=${def.file.max.size}
log4j.appenders.error.appenders.MaxBackupIndex=${def.files.backup.count}
log4j.appenders.error.appenders.layout=org.apache.log4j.PatternLayout
log4j.appenders.error.appenders.layout.ConversionPattern=%d [%t] (%F:%L) %-5p - %m%n

log4j.appenders.mirror.appenders=org.apache.log4j.RollingFileAppender

```

```

log4j.appender.mirror.appender.File=../${log.file.path}/mirror.log
log4j.appender.mirror.appender.MaxFileSize=${def.file.max.size}
log4j.appender.mirror.appender.MaxBackupIndex=${def.files.backup.count}
log4j.appender.mirror.appender.layout=org.apache.log4j.PatternLayout
log4j.appender.mirror.appender.layout.ConversionPattern=%d [%t] (%F:%L) %-5p -
%m%n

log4j.appender.ha.appender=org.apache.log4j.RollingFileAppender
log4j.appender.ha.appender.File=../${log.file.path}/ha.log
log4j.appender.ha.appender.MaxFileSize=${def.file.max.size}
log4j.appender.ha.appender.MaxBackupIndex=${def.files.backup.count}
log4j.appender.ha.appender.layout=org.apache.log4j.PatternLayout
log4j.appender.ha.appender.layout.ConversionPattern=%d [%t] (%F:%L) %-5p - %m%n

#
# Audit Log appender
#
log4j.appender.newaudit.log.appendер=org.apache.log4j.DailyRollingFileAppender
log4j.appender.newaudit.log.appendер.File=../${log.file.path}/audit.log
log4j.appender.newaudit.log.appendер.DatePattern='.'yyyy-MM-dd
log4j.appender.newaudit.log.appendер.layout=org.apache.log4j.PatternLayout
log4j.appender.newaudit.log.appendер.layout.ConversionPattern=%d{yyyy-MM-dd
HH:mm:ss} - %m%n

#
# Dynamic monitors changes tracking appender
#
log4j.appender.dynamic.monitoring.changes.appendер=org.apache.log4j.DailyRollingFi
leAppender
log4j.appender.dynamic.monitoring.changes.appendер.File=../${log.file.path}/dynami
c_monitoring_changes.log
log4j.appender.dynamic.monitoring.changes.appendер.DatePattern='.'yyyy-MM-dd
log4j.appender.dynamic.monitoring.changes.appendер.layout=org.apache.log4j.Pattern
Layout
log4j.appender.dynamic.monitoring.changes.appendер.layout.ConversionPattern=%d{yyy
y-MM-dd HH:mm:ss} - %m%n

#

```

```

# Request statistics appender
#
log4j.appender.request.statistics.appender=org.apache.log4j.RollingFileAppender
log4j.appender.request.statistics.appender.File=../../${log.file.path}/request_statistics.log
log4j.appender.request.statistics.appender.MaxFileSize=10000KB
log4j.appender.request.statistics.appender.MaxBackupIndex=${def.files.backup.count}
}
log4j.appender.request.statistics.appender.layout=org.apache.log4j.PatternLayout
log4j.appender.request.statistics.appender.layout.ConversionPattern=%d [%t]
(%F:%L) %-5p - %m%n

#
# Baselining appender
#
log4j.appender.baselining.appender=org.apache.log4j.RollingFileAppender
log4j.appender.baselining.appender.File=../../${log.file.path}/baselining.log
log4j.appender.baselining.appender.MaxFileSize=${def.file.max.size}
log4j.appender.baselining.appender.MaxBackupIndex=${def.files.backup.count}
log4j.appender.baselining.appender.layout=org.apache.log4j.PatternLayout
log4j.appender.baselining.appender.layout.ConversionPattern=%d [%t] (%F:%L) %-5p -
%m%n

#
# Generic data integration appender
#
log4j.appender.data.integration.appender=org.apache.log4j.RollingFileAppender
log4j.appender.data.integration.appender.File=../../${log.file.path}/data_integration.log
log4j.appender.data.integration.appender.MaxFileSize=${def.file.max.size}
log4j.appender.data.integration.appender.MaxBackupIndex=${def.files.backup.count}
log4j.appender.data.integration.appender.layout=org.apache.log4j.PatternLayout
log4j.appender.data.integration.appender.layout.ConversionPattern=%d [%t] (%F:%L)
%-5p - %m%n

#
# Template Persistency appender
#
log4j.appender.templates.persistency.upgrade.appender=org.apache.log4j.RollingFile
Appender
log4j.appender.templates.persistency.upgrade.appender.File=../../${log.file.path}/tem
plate_persistency_upgrade.log
log4j.appender.templates.persistency.upgrade.appender.MaxFileSize=${def.file.max.s
ize}

```

```

log4j.appenders.templates.persistence.upgrade.appenders.MaxBackupIndex=${def.files.backup.count}

log4j.appenders.templates.persistence.upgrade.appenders.layout=org.apache.log4j.PatternLayout
log4j.appenders.templates.persistence.upgrade.appenders.layout.ConversionPattern=%d [%t] (%F:%L) %-5p - %m%n

#
# upgrade appender
#
log4j.appenders.upgrade.appenders=org.apache.log4j.RollingFileAppender
log4j.appenders.upgrade.appenders.File=../../${log.file.path}/upgrade.log
log4j.appenders.upgrade.appenders.MaxFileSize=1000KB
log4j.appenders.upgrade.appenders.MaxBackupIndex=5
log4j.appenders.upgrade.appenders.layout=org.apache.log4j.PatternLayout
log4j.appenders.upgrade.appenders.layout.ConversionPattern=%d [%t] (%F:%L) %-5p - %m%n

#
# OA metric integration appender
#
log4j.appenders.oa.metric.integration.appenders=org.apache.log4j.RollingFileAppender
log4j.appenders.oa.metric.integration.appenders.File=../../${log.file.path}/oa_metric_integration.log
log4j.appenders.oa.metric.integration.appenders.MaxFileSize=1000KB
log4j.appenders.oa.metric.integration.appenders.MaxBackupIndex=5
log4j.appenders.oa.metric.integration.appenders.layout=org.apache.log4j.PatternLayout
log4j.appenders.oa.metric.integration.appenders.layout.ConversionPattern=%d [%t] (%F:%L) %-5p - %m%n

#
# Amazon EC2 integration appender
#
log4j.appenders.amazon.ec2.integration.appenders=org.apache.log4j.RollingFileAppender
log4j.appenders.amazon.ec2.integration.appenders.File=../../${log.file.path}/amazon_ec2_integration.log
log4j.appenders.amazon.ec2.integration.appenders.MaxFileSize=1000KB
log4j.appenders.amazon.ec2.integration.appenders.MaxBackupIndex=5
log4j.appenders.amazon.ec2.integration.appenders.layout=org.apache.log4j.PatternLayout
log4j.appenders.amazon.ec2.integration.appenders.layout.ConversionPattern=%d [%t] (%F:%L) %-5p - %m%n

```

```

#OA Event integration log file - this is the file where the events are written to.
log4j.category.operationAgentIntegrationFile=INFO,
oa.event.integrationFile.appendер
log4j.additivity.operationAgentIntegrationFile=false

log4j.appendер.oа.event.integrationFile.appendер=org.apache.log4j.RollingFileAppen
der
log4j.appendер.oа.event.integrationFile.appendер.File=../../${log.file.path}/HPSiteSc
opeOperationsManagerIntegration.log
log4j.appendер.oа.event.integrationFile.appendер.encoding=UTF-8
log4j.appendер.oа.event.integrationFile.appendер.MaxFileSize=5000KB
log4j.appendер.oа.event.integrationFile.appendер.MaxBackupIndex=0
log4j.appendер.oа.event.integrationFile.appendер.layout=org.apache.log4j.PatternLa
yout

#OA Event integration log file for HA mode - this is the file where the events are
written to.
log4j.category.operationAgentIntegrationHAFile=INFO,
oa.event.integrationFile.HA.appendер
log4j.additivity.operationAgentIntegrationHAFile=false

log4j.appendер.oа.event.integrationFile.HA.appendер=org.apache.log4j.RollingFileAp
pender
log4j.appendер.oа.event.integrationFile.HA.appendер.File=../../${log.file.path}/HPSit
eScopeOperationsManagerIntegration.HA.log
log4j.appendер.oа.event.integrationFile.HA.appendер.encoding=UTF-8
log4j.appendер.oа.event.integrationFile.HA.appendер.MaxFileSize=5000KB
log4j.appendер.oа.event.integrationFile.HA.appendер.MaxBackupIndex=0
log4j.appendер.oа.event.integrationFile.HA.appendер.layout=org.apache.log4j.Patter
nLayout

#
# Downtime appendер
#
log4j.appendер.downtime.appendер=org.apache.log4j.RollingFileAppender
log4j.appendер.downtime.appendер.File=../../${log.file.path}/downtime.log
log4j.appendер.downtime.appendер.MaxFileSize=1000KB
log4j.appendер.downtime.appendер.MaxBackupIndex=5
log4j.appendер.downtime.appendер.layout=org.apache.log4j.PatternLayout
log4j.appendер.downtime.appendер.layout.ConversionPattern=%d [%t] (%F:%L) %-5p -
%m%n

```

```

#
# Skip monitor appender
#
log4j.appender.skip.monitor.appendер=org.apache.log4j.RollingFileAppender
log4j.appender.skip.monitor.appendер.File=.../${log.file.path}/skip_monitor.log
log4j.appender.skip.monitor.appendер.MaxFileSize=${def.file.max.size}
log4j.appender.skip.monitor.appendер.MaxBackupIndex=${def.files.backup.count}
log4j.appender.skip.monitor.appendер.layout=org.apache.log4j.PatternLayout
log4j.appender.skip.monitor.appendер.layout.ConversionPattern=%d [%t] %-5p - %m%n

#
# Multi test appender
#
log4j.appender.remote_test.appendер=org.apache.log4j.RollingFileAppender
log4j.appender.remote_test.appendер.File=.../${log.file.path}/remotes_multi_test.lo
g
log4j.appender.remote_test.appendер.MaxFileSize=${def.file.max.size}
log4j.appender.remote_test.appendер.MaxBackupIndex=${def.files.backup.count}
log4j.appender.remote_test.appendер.layout=org.apache.log4j.PatternLayout
log4j.appender.remote_test.appendер.layout.ConversionPattern=%d [%t] (%F:%L) %-5p
- %m%n

#
# Primary heartbeat appender
#
log4j.appender.primary.heartbeat.appendер=org.apache.log4j.RollingFileAppender
log4j.appender.primary.heartbeat.appendер.File=.../${heartbeat.log.file.path}/prim
ary_heartbeat.log
log4j.appender.primary.heartbeat.appendер.MaxFileSize=${def.file.max.size}
log4j.appender.primary.heartbeat.appendер.MaxBackupIndex=${def.files.backup.count}
log4j.appender.primary.heartbeat.appendер.layout=org.apache.log4j.PatternLayout
log4j.appender.primary.heartbeat.appendер.layout.ConversionPattern=${def.heartbeat
.file.pattern}

#
# Failover heartbeat appender
#
log4j.appender.failover.heartbeat.appendер=org.apache.log4j.RollingFileAppender
log4j.appender.failover.heartbeat.appendер.File=.../${heartbeat.log.file.path}/fail
over_heartbeat.log
log4j.appender.failover.heartbeat.appendер.MaxFileSize=${def.file.max.size}
log4j.appender.failover.heartbeat.appendер.MaxBackupIndex=${def.files.backup.count
}

```

```

log4j.appender.failover.heartbeat.appenders.layout=org.apache.log4j.PatternLayout
log4j.appender.failover.heartbeat.appenders.layout.ConversionPattern=${def.heartbeat.file.pattern}

#
# Failover Manager heartbeat appender
#
log4j.appender.failover.manager.heartbeat.appenders=org.apache.log4j.RollingFileAppender
log4j.appender.failover.manager.heartbeat.appenders.File=../${heartbeat.log.file.path}/heartbeat.log
log4j.appender.failover.manager.heartbeat.appenders.MaxFileSize=${def.file.max.size}
log4j.appender.failover.manager.heartbeat.appenders.MaxBackupIndex=${def.files.backup.count}
log4j.appender.failover.manager.heartbeat.appenders.layout=org.apache.log4j.PatternLayout
log4j.appender.failover.manager.heartbeat.appenders.layout.ConversionPattern=${def.heartbeat.file.pattern}

#
# Authentication appender
#
log4j.appender.authentication.appenders=org.apache.log4j.RollingFileAppender
log4j.appender.authentication.appenders.File=../${log.file.path}/authentication.log
log4j.appender.authentication.appenders.MaxFileSize=${def.file.max.size}
log4j.appender.authentication.appenders.MaxBackupIndex=${def.files.backup.count}
log4j.appender.authentication.appenders.layout=org.apache.log4j.PatternLayout
log4j.appender.authentication.appenders.layout.ConversionPattern=%d [%t] %-5p - %m%n

```

Appendix B

HP Operations Orchestration 9.05 RAS log4j Configuration File

```

#####
#          HP Operations Orchestration - RAS log4j Configuration
file          #
#####

# uncomment this if you want to see what log4j does when it reads this file.
#log4j.debug=true

log4j.rootLogger=INFO, stdout, R, cef1

```

```

#
# trim down the logging levels for org. and net. packages.
# these values can be overridden below for more specific packages.
#
log4j.logger.org=WARN, stdout, R, cef1
log4j.additivity.org=false
log4j.logger.org.acegisecurity.intercept=WARN, stdout, R, cef1
log4j.additivity.org.acegisecurity.intercept=false
log4j.logger.net=WARN, stdout, R, cef1
log4j.additivity.net=false

log4j.appendер.cef1=com.hp.esp.arcsight.cef.appendер.Log4jAppender
log4j.appendер.cef1.deviceVendor=HP
log4j.appendер.cef1.deviceProduct=CSA
log4j.appendер.cef1.deviceVersion=4.2
log4j.appendер.cef1.transportType=SYSLOG
log4j.appendер.cef1.hostName=192.x.x.x
log4j.appendер.cef1.port=515
log4j.appendер.cef1.layout=org.apache.log4j.PatternLayout
log4j.appendер.cef1.layout.ConversionPattern=%d [%t] (%F:%L) %-5p - %m%n
log4j.appendер.cef1.useCefHeader=true
log4j.appendер.cef1.eventName=OO Event

#
# Spring logging
#
log4j.category.org.springframework=WARN, stdout, cef1
log4j.additivity.org.springframework=false
log4j.category.org.mortbay=INFO, stdout, cef1
log4j.additivity.org.mortbay=false

#
# apache logging
#
log4j.logger.org.apache.commons.httpclient=WARN, stdout, cef1
log4j.additivity.org.apache.commons.httpclient=false
log4j.logger.httpclient.wire=WARN, stdout, cef1
log4j.additivity.httpclient.wire=false

#

```

```

# enable more specific logging according to the needs of the application
#
log4j.logger.com.iconclude.webservices.ras=INFO,stdout,R, cef1
log4j.additivity.com.iconclude.webservices.ras=false

#
# set up console logging
#
log4j.appendер.stdout=org.apache.log4j.ConsoleAppender
log4j.appendер.stdout.target=System.out
log4j.appendер.stdout.layout=org.apache.log4j.PatternLayout
log4j.appendер.stdout.layout.ConversionPattern=%5p [%t] (%d{HH:mm:ss,SSS}) %c -
%m%n

#
# set up file logging
#
log4j.appendер.R=org.apache.log4j.RollingFileAppender
log4j.appendер.R.File=${log.dir}/iConcludeJRAS.log
log4j.appendер.R.MaxFileSize=1000KB
log4j.appendер.R.MaxBackupIndex=10
log4j.appendер.R.layout=org.apache.log4j.PatternLayout
log4j.appendер.R.layout.ConversionPattern=%5p [%t] (%d{HH:mm:ss,SSS}) %c - %m%n

```

HP Operations Orchestration 9.03 RAS

```

#####
#      HP Operations Orchestration - RAS log4j Configuration file
#
#####

# uncomment this if you want to see what log4j does when it reads this file.
#log4j.debug=true

log4j.rootLogger=INFO, stdout, R, cef1

#set the CEF log4j appender ...
log4j.appendер.cef1=com.hp.esp.arcsight.cef.appendер.Log4jAppender
log4j.appendер.cef1.deviceVendor=HP
log4j.appendер.cef1.deviceProduct=CSA
log4j.appendер.cef1.deviceVersion=4.2
log4j.appendер.cef1.transportType=SYSLOG

```

```

log4j.appender.cef1.hostName=192.x.x.x
log4j.appender.cef1.port=515
log4j.appender.cef1.layout=org.apache.log4j.PatternLayout
log4j.appender.cef1.layout.ConversionPattern=%5p [%t] (%d{HH:mm:ss,SSS}) %c - %m%n
log4j.appender.cef1.useCefHeader=true
log4j.appender.cef1.eventName=OORASEvent

#
# trim down the logging levels for org. and net. packages.
# these values can be overridden below for more specific packages.
#
log4j.logger.org=WARN, stdout, R, cef1
log4j.additivity.org=false
log4j.logger.org.acegisecurity.intercept=WARN, stdout, R, cef1
log4j.additivity.org.acegisecurity.intercept=false
log4j.logger.net=WARN, stdout, R, cef1
log4j.additivity.net=false

#
# Spring logging
#
log4j.category.org.springframework=WARN,stdout
log4j.additivity.org.springframework=false
log4j.category.org.mortbay=INFO,stdout
log4j.additivity.org.mortbay=false

#
# apache logging
#
log4j.logger.org.apache.commons.httpclient=WARN,stdout, cef1
log4j.additivity.org.apache.commons.httpclient=false
log4j.logger.httpclient.wire=WARN,stdout, cef1
log4j.additivity.httpclient.wire=false

#
# enable more specific logging according to the needs of the application
#
log4j.logger.com.iconclude.webservices.ras=INFO,stdout,R, cef1
log4j.additivity.com.iconclude.webservices.ras=false

```

```

#
# set up console logging
#
log4j.appender.stdout=org.apache.log4j.ConsoleAppender
log4j.appender.stdout.target=System.out
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%5p [%t] (%d{HH:mm:ss,SSS}) %c -
%m%n

#
# set up file logging
#
log4j.appender.R=org.apache.log4j.RollingFileAppender
log4j.appender.R.File=${log.dir}/iConcludeJRAS.log
log4j.appender.R.MaxFileSize=1000KB
log4j.appender.R.MaxBackupIndex=10
log4j.appender.R.layout=org.apache.log4j.PatternLayout
log4j.appender.R.layout.ConversionPattern=%5p [%t] (%d{HH:mm:ss,SSS}) %c - %m%n

```

HP Operations Orchestration 9.05 Jetty

```

#####
#          HP Operations Orchestration - Jetty log4j
Configuration file          #
#####
# uncomment
this if you want to see what log4j does when it reads this file.
#log4j.debug=true

log4j.rootLogger=INFO, iconclude, cef1

#
# trim down the logging levels for org. and net. packages.
# these values can be overridden below for more specific packages.
#
log4j.logger.org=WARN, iconclude, cef1
log4j.additivity.org=false
log4j.logger.org.acegisecurity.intercept=WARN, iconclude
log4j.additivity.org.acegisecurity.intercept=false
log4j.logger.org.acegisecurity.providers.dao.ldap=ERROR,iconclude
log4j.additivity.org.acegisecurity.providers.dao.ldap=false
log4j.logger.net=WARN, iconclude, cef1
log4j.additivity.net=false

```

```

log4j.appender.cef1=com.hp.esp.arcshift.cef.appenders.Log4jAppender
log4j.appender.cef1.deviceVendor=HP
log4j.appender.cef1.deviceProduct=CSA
log4j.appender.cef1.deviceVersion=4.2
log4j.appender.cef1.transportType=SYSLOG
log4j.appender.cef1.hostName=192.x.x.x
log4j.appender.cef1.port=515
log4j.appender.cef1.layout=org.apache.log4j.PatternLayout
log4j.appender.cef1.layout.ConversionPattern=%d [%t] (%F:%L) %-5p - %m%n
log4j.appender.cef1.useCefHeader=true
log4j.appender.cef1.eventName=OO_Event

#
# Hibernate logging
#
log4j.category.org.hibernate=OFF,iconclude
log4j.additivity.org.hibernate=false
log4j.category.com.mchange.v2.c3p0.SQLWarnings=WARN,iconclude
log4j.additivity.com.mchange.v2.c3p0.SQLWarnings=false

# enable DEBUG here to see the SQL statements
#log4j.category.org.hibernate.SQL=DEBUG,iconclude
#log4j.additivity.org.hibernate.SQL=false

# enable DEBUG here to see collection initialization and caching
#log4j.category.org.hibernate.event.def=DEBUG,iconclude
#log4j.additivity.org.hibernate.event.def=false

#
# C3P0 logging
#
log4j.category.com.mchange=INFO,iconclude
log4j.additivity.com.mchange=false

#
# Spring logging
#
log4j.category.org.springframework=WARN,iconclude

```

```

log4j.additivity.org.springframework=false
log4j.category.org.mortbay=INFO,iconclude
log4j.additivity.org.mortbay=false

#
# apache logging
#
log4j.logger.org.apache.commons.httpclient=WARN,iconclude, cef1
log4j.additivity.org.apache.commons.httpclient=false
log4j.logger.httpclient.wire=WARN,iconclude, cef1
log4j.additivity.httpclient.wire=false

#
# audit trail logging
# audits are sent to the INFO level
#
log4j.logger.com.iconclude.dharma.commons.repo.RepositoryLoggingAuditor=INFO,audit
log4j.additivity.com.iconclude.dharma.commons.repo.RepositoryLoggingAuditor=false
log4j.appendер.audit=org.apache.log4j.RollingFileAppender
log4j.appendер.audit.File=${iconclude.home}/Central/logs/audit.log
log4j.appendер.audit.MaxFileSize=10000KB
log4j.appendер.audit.MaxBackupIndex=1
log4j.appendер.audit.layout=org.apache.log4j.PatternLayout
log4j.appendер.audit.layout.ConversionPattern=%d{ISO8601} - %m%n

#
# headless logging
# audits are sent to the INFO level
#
log4j.logger.com.iconclude.dharma.services.execution.HeadlessServiceBase=INFO,icon
clude,headless
log4j.additivity.com.iconclude.dharma.services.execution.HeadlessServiceBase=false
log4j.appendер.headless=org.apache.log4j.RollingFileAppender
log4j.appendер.headless.File=${iconclude.home}/Central/logs/headless.log
log4j.appendер.headless.MaxFileSize=10000KB
log4j.appendер.headless.MaxBackupIndex=1
log4j.appendер.headless.layout=org.apache.log4j.PatternLayout
log4j.appendер.headless.layout.ConversionPattern=%5p (%d{HH:mm:ss,SSS}) - %m%n

#

```

```

# enable more specific logging according to the needs of the application
#
log4j.logger.com.iconclude.dharma.model.operations.ModelObjectValidationCache=WARN
,iconclude
log4j.additivity.com.iconclude.dharma.model.operations.ModelObjectValidationCache=
false
log4j.logger.com.iconclude.dharma.reports.dao=INFO,iconclude
log4j.additivity.com.iconclude.dharma.reports.dao=false
log4j.logger.com.iconclude.dharma.reports.LogAggregationParameters=WARN,iconclude
log4j.additivity.com.iconclude.dharma.reports.LogAggregationParameters=false
log4j.logger.com.iconclude.dharma.tapestry=WARN,iconclude
log4j.additivity.com.iconclude.dharma.tapestry=false
log4j.logger.com.iconclude.dharma.components.ReportsBrowser=INFO,iconclu
de
log4j.additivity.com.iconclude.dharma.components.ReportsBrowser=false
#log4j.logger.com.iconclude.dharma.components.GuidedRepairPage=WARN,iconc
lude
#log4j.additivity.com.iconclude.dharma.components.GuidedRepairPage=false
log4j.logger.com.iconclude.dharma.model.execution=INFO,iconclude, cef1
log4j.additivity.com.iconclude.dharma.model.execution=false
log4j.logger.com.iconclude.dharma.services=INFO,iconclude, cef1
log4j.additivity.com.iconclude.dharma.services=false
log4j.logger.com.iconclude.dharma.services.execution=INFO,iconclude, cef1
log4j.additivity.com.iconclude.dharma.services.execution=false
log4j.logger.com.iconclude.dharma.model.library=INFO,iconclude
log4j.additivity.com.iconclude.dharma.model.library=false
log4j.category.com.iconclude.dharma.model.library.hibernate=INFO,iconclude, cef1
log4j.additivity.com.iconclude.dharma.model.library.hibernate=false
log4j.category.com.iconclude.dharma.model.library.hibernate.QueuedHibernatePersist
ence=INFO,iconclude
log4j.additivity.com.iconclude.dharma.model.library.hibernate.QueuedHibernatePersi
stence=false
log4j.category.com.iconclude.dharma.model.library.hibernate.HibernateInterceptor=W
ARN,iconclude
log4j.additivity.com.iconclude.dharma.model.library.hibernate.HibernateInterceptor
=false
log4j.logger.com.iconclude.dharma.tapestry=WARN,iconclude
log4j.additivity.com.iconclude.dharma.tapestry=false
log4j.logger.com.iconclude.dharma.tapestry.RCVisit=INFO,iconclude
log4j.additivity.com.iconclude.dharma.tapestry.RCVisit=false
log4j.logger.com.iconclude.dharma.tapestry.RCRunEngineHelper=INFO,iconclude
log4j.additivity.com.iconclude.dharma.tapestry.RCRunEngineHelper=false
log4j.logger.com.iconclude.dharma.model.library.search=INFO,iconclude

```

```
log4j.additivity.com.iconclude.dharma.model.library.search=false
log4j.logger.com.iconclude.dharma.app.SearchPanel=INFO,iconclude
log4j.additivity.com.iconclude.dharma.app.SearchPanel=false
log4j.logger.com.iconclude.dharma.services.discovery.RASRegistry=WARN,iconclude
log4j.additivity.com.iconclude.dharma.services.discovery.RASRegistry=false
log4j.logger.com.iconclude.dharma.app.debugging=INFO,iconclude
log4j.additivity.com.iconclude.dharma.app.debugging=false
log4j.logger.com.iconclude.dharma.runengine.impl=WARN,iconclude, cef1
log4j.additivity.com.iconclude.dharma.runengine.impl=false
log4j.logger.com.iconclude.dharma.runengine.registry=INFO,iconclude, cef1
log4j.additivity.com.iconclude.dharma.runengine.registry=false
log4j.logger.com.iconclude.dharma.commons.concurrent=INFO,iconclude
log4j.additivity.com.iconclude.dharma.commons.concurrent=false
log4j.logger.com.iconclude.dharma.model.execution.persistence=WARN,iconclude
log4j.additivity.com.iconclude.dharma.model.execution.persistence=false
log4j.logger.com.iconclude.dharma.commons.util.hibernate.OraDatasourceConnectionPr
ovider=INFO,iconclude
log4j.additivity.com.iconclude.dharma.commons.util.hibernate.OraDatasourceConnecti
onProvider=false
log4j.logger.com.iconclude.dharma.model.security.RCUserRepository=INFO,iconclude
log4j.additivity.com.iconclude.dharma.model.security.RCUserRepository=false
log4j.logger.com.iconclude.dharma.scheduler=INFO,iconclude
log4j.additivity.com.iconclude.dharma.scheduler=false
log4j.logger.oracle.jdbc=ERROR,iconclude, cef1
log4j.additivity.oracle.jdbc=false
log4j.logger.oracle.ons=WARN,iconclude
log4j.additivity.oracle.ons=false
```

```
log4j.logger.SCRIPTLET=DEBUG,iconclude
log4j.additivity.SCRIPTLET=false
# log4j.category.EXECUTION_LOGGER=INFO,iconclude
# log4j.additivity.EXECUTION_LOGGER=false
# log4j.category.MODEL_LOGGER=INFO,iconclude
# log4j.additivity.MODEL_LOGGER=false
# log4j.category.BASIC_LOGGER=INFO,iconclude
# log4j.additivity.BASIC_LOGGER=false

#
# set up console logging
#
```

```

log4j.appender.iconclude=org.apache.log4j.ConsoleAppender
log4j.appender.iconclude.encoding=UTF-8
log4j.appender.iconclude.target=System.out
log4j.appender.iconclude.layout=org.apache.log4j.PatternLayout
# Pattern to output the caller's file name and line number (anything %F or %L is
very expensive!).
# More patterns down below.

#log4j.appender.iconclude.layout.ConversionPattern=%-5p [%t] (%F:%L) %m%n
#log4j.appender.iconclude.layout.ConversionPattern=%5p [%t] (%F:%L) - %m%n
# pattern to output the category (last two elements of the classname).
#log4j.appender.iconclude.layout.ConversionPattern=%5p [%t] (%d{HH:mm:ss}) %c{2} -
%m%n
# pattern to output the category with full package name.
log4j.appender.iconclude.layout.ConversionPattern=%5p [%t] (%d{HH:mm:ss,SSS}) %c -
%m%n

#
# If you want a rolling file appender, this is the syntax...
#
#log4j.appender.iconclude=org.apache.log4j.RollingFileAppender
#log4j.appender.iconclude.File=logs/iConclude.log
#log4j.appender.iconclude.MaxFileSize=1000KB
#log4j.appender.iconclude.MaxBackupIndex=10
#log4j.appender.iconclude.layout=org.apache.log4j.PatternLayout
#log4j.appender.iconclude.layout.ConversionPattern=%p %t %c - %m%n
#log4j.appender.iconclude.layout.ConversionPattern=%5p [%t] (%d{HH:mm:ss,SSS}) %c
- %m%n

#####
#####
#
# Uncomment line below to enable LWSSO logging per:
# http://wiki.mercury.com/confluence/display/Arch/LW-
SSO+UI+Integration+Release+2.0
#
#####
#####

#log4j.logger.com.hp.sw.bto.ast.security=DEBUG

#

```

```

# central audit
# INFO level
#
log4j.logger.com.iconclude.dharma.util.CentralAudit=INFO,central
log4j.additivity.com.iconclude.dharma.util.CentralAudit=false
log4j.appendер.central=org.apache.log4j.RollingFileAppender
log4j.appendер.central.File=${iconclude.home}/Central/logs/Central_audit.log
log4j.appendер.central.MaxFileSize=10000KB
log4j.appendер.central.MaxBackupIndex=1
log4j.appendер.central.layout=org.apache.log4j.PatternLayout
log4j.appendер.central.layout.ConversionPattern=%d{ISO8601} - %m%n

```

HP Operations Orchestration 9.03 Jetty

```

#####
#  HP Operations Orchestration - Jetty log4j Configuration file
#
#####

# uncomment this if you want to see what log4j does when it reads this file.
#log4j.debug=true

log4j.rootLogger=INFO, iconclude, cef1

#set the CEF log4j appender ...
log4j.appendер.cef1=com.hp.esp.arcsight.cef.appendер.Log4jAppender
log4j.appendер.cef1.deviceVendor=HP
log4j.appendер.cef1.deviceProduct=CSA
log4j.appendер.cef1.deviceVersion=4.2
log4j.appendер.cef1.transportType=SYSLOG
log4j.appendер.cef1.hostName=192.x.x.x
log4j.appendер.cef1.port=515
log4j.appendер.cef1.layout=org.apache.log4j.PatternLayout
log4j.appendер.cef1.layout.ConversionPattern=%5p (%d{HH:mm:ss,SSS}) - %m%n
log4j.appendер.cef1.useCefHeader=true
log4j.appendер.cef1.eventName=OOEvent

#
# trim down the logging levels for org. and net. packages.
# these values can be overridden below for more specific packages.
#
log4j.logger.org=WARN, iconclude

```

```

log4j.additivity.org=false
log4j.logger.org.acegisecurity.intercept=WARN, iconclude
log4j.additivity.org.acegisecurity.intercept=false
log4j.logger.org.acegisecurity.providers.dao.ldap=ERROR,iconclude
log4j.additivity.org.acegisecurity.providers.dao.ldap=false
log4j.logger.net=WARN, iconclude
log4j.additivity.net=false

#
# Hibernate logging
#
log4j.category.org.hibernate=OFF,iconclude
log4j.additivity.org.hibernate=false
log4j.category.com.mchange.v2.c3p0.SQLWarnings=WARN,iconclude
log4j.additivity.com.mchange.v2.c3p0.SQLWarnings=false

# enable DEBUG here to see the SQL statements
#log4j.category.org.hibernate.SQL=DEBUG,iconclude
#log4j.additivity.org.hibernate.SQL=false

# enable DEBUG here to see collection initialization and caching
#log4j.category.org.hibernate.event.def=DEBUG,iconclude
#log4j.additivity.org.hibernate.event.def=false

#
# C3P0 logging
#
log4j.category.com.mchange=INFO,iconclude
log4j.additivity.com.mchange=false

#
# Spring logging
#
log4j.category.org.springframework=WARN,iconclude
log4j.additivity.org.springframework=false
log4j.category.org.mortbay=INFO,iconclude
log4j.additivity.org.mortbay=false

#
# apache logging

```

```

#
log4j.logger.org.apache.commons.httpclient=WARN,iconclude
log4j.additivity.org.apache.commons.httpclient=false
log4j.logger.httpclient.wire=WARN,iconclude
log4j.additivity.httpclient.wire=false

#
# audit trail logging
# audits are sent to the INFO level
#
log4j.logger.com.iconclude.dharma.commons.repo.RepositoryLoggingAuditor=INFO,audit
log4j.additivity.com.iconclude.dharma.commons.repo.RepositoryLoggingAuditor=false
log4j.appendender.audit=org.apache.log4j.RollingFileAppender
log4j.appendender.audit.File=${iconclude.home}/Central/logs/audit.log
log4j.appendender.audit.MaxFileSize=10000KB
log4j.appendender.audit.MaxBackupIndex=1
log4j.appendender.audit.layout=org.apache.log4j.PatternLayout
log4j.appendender.audit.layout.ConversionPattern=%d{ISO8601} - %m%n

#
# headless logging
# audits are sent to the INFO level
#
log4j.logger.com.iconclude.dharma.services.execution.HeadlessServiceBase=INFO,icon
clude,headless
log4j.additivity.com.iconclude.dharma.services.execution.HeadlessServiceBase=false
log4j.appendender.headless=org.apache.log4j.RollingFileAppender
log4j.appendender.headless.File=${iconclude.home}/Central/logs/headless.log
log4j.appendender.headless.MaxFileSize=10000KB
log4j.appendender.headless.MaxBackupIndex=1
log4j.appendender.headless.layout=org.apache.log4j.PatternLayout
log4j.appendender.headless.layout.ConversionPattern=%5p (%d{HH:mm:ss,SSS}) - %m%n

#
# enable more specific logging according to the needs of the application
#
log4j.logger.com.iconclude.dharma.model.operations.ModelObjectValidationCache=WARN
,iconclude
log4j.additivity.com.iconclude.dharma.model.operations.ModelObjectValidationCache=
false
log4j.logger.com.iconclude.dharma.reports.dao=INFO,iconclude

```

```
log4j.additivity.com.iconclude.dharma.reports.dao=false
log4j.logger.com.iconclude.dharma.reports.LogAggregationParameters=WARN,iconclude
log4j.additivity.com.iconclude.dharma.reports.LogAggregationParameters=false
log4j.logger.com.iconclude.dharma.tapestry=WARN,iconclude
log4j.additivity.com.iconclude.dharma.tapestry=false
log4j.logger.com.iconclude.dharma.tapestry.components.ReportsBrowser=INFO,iconclude
log4j.additivity.com.iconclude.dharma.tapestry.components.ReportsBrowser=false
#log4j.logger.com.iconclude.dharma.tapestry.components.GuidedRepairPage=WARN,iconclude
#log4j.additivity.com.iconclude.dharma.tapestry.components.GuidedRepairPage=false
log4j.logger.com.iconclude.dharma.model.execution=INFO,iconclude
log4j.additivity.com.iconclude.dharma.model.execution=false
log4j.logger.com.iconclude.dharma.services=INFO,iconclude
log4j.additivity.com.iconclude.dharma.services=false
log4j.logger.com.iconclude.dharma.services.execution=INFO,iconclude
log4j.additivity.com.iconclude.dharma.services.execution=false
log4j.logger.com.iconclude.dharma.model.library=INFO,iconclude
log4j.additivity.com.iconclude.dharma.model.library=false
log4j.category.com.iconclude.dharma.model.library.hibernate=INFO,iconclude
log4j.additivity.com.iconclude.dharma.model.library.hibernate=false
log4j.category.com.iconclude.dharma.model.library.hibernate.QueuedHibernatePersistence=INFO,iconclude
log4j.additivity.com.iconclude.dharma.model.library.hibernate.QueuedHibernatePersistence=false
log4j.category.com.iconclude.dharma.model.library.hibernate.HibernateInterceptor=WARN,iconclude
log4j.additivity.com.iconclude.dharma.model.library.hibernate.HibernateInterceptor=false
log4j.logger.com.iconclude.dharma.tapestry=WARN,iconclude
log4j.additivity.com.iconclude.dharma.tapestry=false
log4j.logger.com.iconclude.dharma.tapestry.RCVisit=INFO,iconclude
log4j.additivity.com.iconclude.dharma.tapestry.RCVisit=false
log4j.logger.com.iconclude.dharma.tapestry.RCRunEngineHelper=INFO,iconclude
log4j.additivity.com.iconclude.dharma.tapestry.RCRunEngineHelper=false
log4j.logger.com.iconclude.dharma.model.library.search=INFO,iconclude
log4j.additivity.com.iconclude.dharma.model.library.search=false
log4j.logger.com.iconclude.dharma.app.SearchPanel=INFO,iconclude
log4j.additivity.com.iconclude.dharma.app.SearchPanel=false
log4j.logger.com.iconclude.dharma.services.discovery.RASRegistry=WARN,iconclude
log4j.additivity.com.iconclude.dharma.services.discovery.RASRegistry=false
log4j.logger.com.iconclude.dharma.app.debugging=INFO,iconclude
log4j.additivity.com.iconclude.dharma.app.debugging=false
```

```

log4j.logger.com.iconclude.dharma.runengine.impl=WARN,iconclude
log4j.additivity.com.iconclude.dharma.runengine.impl=false
log4j.logger.com.iconclude.dharma.runengine.registry=INFO,iconclude
log4j.additivity.com.iconclude.dharma.runengine.registry=false
log4j.logger.com.iconclude.dharma.commons.concurrent=INFO,iconclude
log4j.additivity.com.iconclude.dharma.commons.concurrent=false
log4j.logger.com.iconclude.dharma.model.execution.persistence=WARN,iconclude
log4j.additivity.com.iconclude.dharma.model.execution.persistence=false
log4j.logger.com.iconclude.dharma.commons.util.hibernate.OraDatasourceConnectionPr
ovider=INFO,iconclude
log4j.additivity.com.iconclude.dharma.commons.util.hibernate.OraDatasourceConnecti
onProvider=false
log4j.logger.com.iconclude.dharma.model.security.RCUserRepository=INFO,iconclude
log4j.additivity.com.iconclude.dharma.model.security.RCUserRepository=false
log4j.logger.com.iconclude.dharma.scheduler=INFO,iconclude
log4j.additivity.com.iconclude.dharma.scheduler=false
log4j.logger.oracle.jdbc=ERROR,iconclude
log4j.additivity.oracle.jdbc=false
log4j.logger.oracle.ons=WARN,iconclude
log4j.additivity.oracle.ons=false

```

```

log4j.logger.SCRIPTLET=DEBUG,iconclude
log4j.additivity.SCRIPTLET=false
# log4j.category.EXECUTION_LOGGER=INFO,iconclude
# log4j.additivity.EXECUTION_LOGGER=false
# log4j.category.MODEL_LOGGER=INFO,iconclude
# log4j.additivity.MODEL_LOGGER=false
# log4j.category.BASIC_LOGGER=INFO,iconclude
# log4j.additivity.BASIC_LOGGER=false

#
# set up console logging
#
log4j.appendер.iconclude=org.apache.log4j.ConsoleAppender
log4j.appendер.iconclude.encoding=UTF-8
log4j.appendер.iconclude.target=System.out
log4j.appendер.iconclude.layout=org.apache.log4j.PatternLayout
# Pattern to output the caller's file name and line number (anything %F or %L is
very expensive!).
# More patterns down below.
#log4j.appendер.iconclude.layout.ConversionPattern=%-5p [%t] (%F:%L) %m%n

```

```

#log4j.appender.iconclude.layout.ConversionPattern=%5p [%t] (%F:%L) - %m%n
# pattern to output the category (last two elements of the classname).
#log4j.appender.iconclude.layout.ConversionPattern=%5p [%t] (%d{HH:mm:ss}) %c{2} -
%m%n
# pattern to output the category with full package name.
log4j.appender.iconclude.layout.ConversionPattern=%5p [%t] (%d{HH:mm:ss,SSS}) %c -
%m%n

#
# If you want a rolling file appender, this is the syntax...
#
#log4j.appender.iconclude=org.apache.log4j.RollingFileAppender
#log4j.appender.iconclude.File=logs/iconclude.log
#log4j.appender.iconclude.MaxFileSize=1000KB
#log4j.appender.iconclude.MaxBackupIndex=10
#log4j.appender.iconclude.layout=org.apache.log4j.PatternLayout
#log4j.appender.iconclude.layout.ConversionPattern=%p %t %c - %m%n
#log4j.appender.iconclude.layout.ConversionPattern=%5p [%t] (%d{HH:mm:ss,SSS}) %c
- %m%n

#####
#####
#
# Uncomment line below to enable LWSSO logging per:
# http://wiki.mercury.com/confluence/display/Arch/LW-
SSO+UI+Integration+Release+2.0
#
#####
#####

#log4j.logger.com.hp.sw.bto.ast.security=DEBUG

```

Appendix C

HP Universal CMDB root.properties Configuration File

```
#####
#          HP - UCMDB root.properties Configuration file
#
#####

def.file.max.size=5000KB
def.files.backup.count=10

log4j.rootCategory=WARN, error.appender, cef1

#set the CEF log4j appender ...
log4j.appender.cef1=com.hp.esp.arcsight.cef.appenders.Log4jAppender
log4j.appender.cef1.deviceVendor=HP
log4j.appender.cef1.deviceProduct=CSA
log4j.appender.cef1.deviceVersion=4.2
log4j.appender.cef1.transportType=SYSLOG
log4j.appender.cef1.hostName=192.x.x.x
log4j.appender.cef1.port=515
log4j.appender.cef1.layout=org.apache.log4j.PatternLayout
log4j.appender.cef1.layout.ConversionPattern=%d [%t] (%F:%L) %-5p - %m%n
log4j.appender.cef1.useCefHeader=true
log4j.appender.cef1.eventName=uCMDBEvent

#enable the following line (and disable the one above) to get per-thread full
trace of all logs
#Warning! Extremely heavy log usage, enable only when actively debugging.
#Note: Commenting out all usages of cmdb.per.thread.appenders releases the file
handles and allows deletion of the log files.

#log4j.rootCategory=TRACE, error.appender, cmdb.per.thread.appenders

per.thread.appenders=com.mercury.topaz.cmdb.shared.base.log.ThreadSpecificAppender
per.thread.file=${logs.dir}/threads/thread.log
per.thread.layout=org.apache.log4j.PatternLayout
per.thread.conversionpattern=%d - %m %n
per.thread.footer=====CLOSED=====
per.thread.restrictToCustomer=false
```

```

per.thread.customerIdToRestrictTo=1
per.thread.restrictToCallerApplication=false
per.thread.callerApplicationToRestrictTo=Dashboard
per.thread.prependCallerApplicationToMessage=false
per.thread.prependCallerApplicationToFilename=false
per.thread.prependCustomerIdToFilename=false

#####
### error.appendер ##

log4j.appendер.error.appendер=com.mercury.topaz.cmdb.shared.base.log.BetterRolling
FileAppender
log4j.appendер.error.appendер.File=${logs.dir}/error.log
log4j.appendер.error.appendер.MaxFileSize=${def.file.max.size}
log4j.appendер.error.appendер.MaxBackupIndex=${def.files.backup.count}
log4j.appendер.error.appendер.layout=org.apache.log4j.PatternLayout
log4j.appendер.error.appendер.layout.ConversionPattern=%d [%t] (%F:%L) %-5p - %m%n
log4j.appendер.error.appendер.Threshold=WARN

#####
### cmdb.per.thread.appendер ##

log4j.appendер.cmdb.per.thread.appendер=${per.thread.appendер}
log4j.appendер.cmdb.per.thread.appendер.File=${per.thread.file}
log4j.appendер.cmdb.per.thread.appendер.layout=${per.thread.layout}
log4j.appendер.cmdb.per.thread.appendер.layout.ConversionPattern=${per.thread.conv
ersionpattern}

log4j.appendер.cmdb.per.thread.appendер.Threshold=${per.thread.level}
log4j.appendер.cmdb.per.thread.appendер.additionalFooter=${per.thread.footer}
log4j.appendер.cmdb.per.thread.appendер.restrictToCustomer=${per.thread.restrictTo
Customer}

log4j.appendер.cmdb.per.thread.appendер.customerIdToRestrictTo=${per.thread.custom
erIdToRestrictTo}

log4j.appendер.cmdb.per.thread.appendер.restrictToCallerApplication=${per.thread.r
estrictToCallerApplication}

log4j.appendер.cmdb.per.thread.appendер.callerApplicationToRestrictTo=${per.threa
.callerApplicationToRestrictTo}

log4j.appendер.cmdb.per.thread.appendер.prependCallerApplicationToMessage=${per.th
read.prependCallerApplicationToMessage}

log4j.appendер.cmdb.per.thread.appendер.prependCallerApplicationToFilename=${per.t
hread.prependCallerApplicationToFilename}

log4j.appendер.cmdb.per.thread.appendер.prependCustomerIdToFilename=${per.thread.p
rependedCustomerIdToFilename}

```

Appendix D

HP MOE Configuration File

```
#####
#          HP MOE - Configuration file          #
#####

log4j.rootLogger=INFO, dailyFile, cef1

#set the CEF log4j appender ...
log4j.appender.cef1=com.hp.esp.arcsight.cef.appenders.Log4jAppender
log4j.appender.cef1.deviceVendor=HP
log4j.appender.cef1.deviceProduct=CSA
log4j.appender.cef1.deviceVersion=4.2
log4j.appender.cef1.transportType=SYSLOG
log4j.appender.cef1.hostName=192.x.x.x
log4j.appender.cef1.port=515
log4j.appender.cef1.layout=org.apache.log4j.PatternLayout
log4j.appender.cef1.layout.ConversionPattern=%d [%-18t -%x] %-5p %C.%M - %m%n
log4j.appender.cef1.useCefHeader=true
log4j.appender.cef1.eventName=MOEEvent

### direct log messages to file ###
log4j.appender.dailyFile=org.apache.log4j.RollingFileAppender
log4j.appender.dailyFile.File=logs/hpio-controller.log
log4j.appender.dailyFile.MaxFileSize=50MB
log4j.appender.dailyFile.MaxBackupIndex=20
log4j.appender.dailyFile.layout=org.apache.log4j.PatternLayout
log4j.appender.dailyFile.layout.ConversionPattern=%d [%-18t -%x] %-5p %C.%M - %m%n

### direct log messages to file ###
#log4j.appender.flow=org.apache.log4j.DailyRollingFileAppender
#log4j.appender.flow.File=logs/hpio-flow.log
#log4j.appender.flow.DatePattern='yyyy-MM-dd'
#log4j.appender.flow.layout=org.apache.log4j.PatternLayout
#log4j.appender.flow.layout.ConversionPattern=%d [%-18t] %-5p %C.%M - %m%n
#log4j.additivity.flow=false
```

```

### audit log appender ###
#log4j.category.fileAuditLogger=auditLog
#log4j.appenders.auditLog=org.apache.log4j.FileAppender
#log4j.appenders.auditLog.File=logs/audit-log.log
#log4j.appenders.auditLog.layout=org.apache.log4j.PatternLayout
#log4j.appenders.auditLog.layout.ConversionPattern=[%d] - %m%n
#log4j.additivity.auditLog=false

### performance log appender ###
#log4j.category.filePerfLogger=perfLog
log4j.appenders.performance=org.apache.log4j.FileAppender
log4j.appenders.performance.File=logs/hpio-performance.log.csv
log4j.appenders.performance.layout=org.apache.log4j.PatternLayout
log4j.appenders.performance.layout.ConversionPattern=%d{ yyyy-MM-dd HH:mm:ss.SSS }, %--18t,%m%n
log4j.additivity.performance=false

### ioassist log appender ###
log4j.appenders.ioassist=org.apache.log4j.FileAppender
log4j.appenders.ioassist.File=logs/hpio-assist.log
log4j.appenders.ioassist.layout=org.apache.log4j.PatternLayout
log4j.appenders.ioassist.layout.ConversionPattern=%d{ yyyy-MM-dd HH:mm s.SSS }, %--18t,%m%n
log4j.additivity.ioassist=false

# Set hibernate log4j config
log4j.logger.org.hibernate.SQL=ERROR, dailyFile, cef1
log4j.logger.org.hibernate=ERROR
log4j.additivity.org.hibernate.SQL=false

# Set quartz log4j config
log4j.logger.org.quartz=INFO, dailyFile, cef1

# Set spring config
log4j.logger.org.springframework=WARN, dailyFile, cef1

# Set per package options
log4j.category.com.hp.hpio.nbapi.servlet=WARN

# Set controller config
log4j.category.com.hp.hpio.controller=INFO

```

```
log4j.category.com.hp.hpio.controller.wrapper=INFO
log4j.category.com.hp.hpio.controller.manager.allocation=INFO
log4j.category.com.hp.hpio.controller.manager.resource.impl=INFO
log4j.category.com.hp.hpio.controller.policy=INFO

# Set sbapi config
log4j.category.com.hp.hpio.sbapi=INFO

# SOAP for APIs, supporting services
# Warning: When the below value is set to DEBUG, passwords in clear text may be
logged.
# DEBUG should be used by HP support only, and then with caution.
log4j.category.org.apache.axis=WARN

# VMM
log4j.category.com.hp.mx.vmm=WARN

#controller performance logger
log4j.category.com.hp.hpio.common.performance=INFO, performance
#ioassist logger
log4j.category.com.hp.hpio.ioassist=INFO, ioassist
```

For more information

For more information, see the following web sites:

- ArcSight Logger
<http://www8.hp.com/us/en/software-solutions/arcshift-logger-log-management/>
- HP Matrix Operating Environment
<http://h18004.www1.hp.com/products/solutions/insightdynamics/info-library.html>
- HP Software Product Documentation
<https://softwaresupport.hp.com/>
 - HP Cloud Service Automation
 - HP Operations Orchestration
 - HP SiteScope
 - HP Universal Configuration Management Database (CMDB)

Note: You need to sign-in or register to use this site. In some cases, access to the documentation is restricted and requires that you have an active HP support agreement ID (SAID) and an HP Passport sign-in. Use the **Search** function at the top of the page to find documentation, whitepapers, and other information sources.

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Table 1: Document revision history

Date or version	Change
September 2012	Initial release
December 2012	Updated for HP Cloud Service Automation 3.10
June 2013	Updated for HP Cloud Service Automation 3.20
July 2014	Updated for HP Cloud Service Automation 4.10
December 2014	Updated for HP Cloud Service Automation 4.20

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