# RSA® NETWITNESS® Logs Implementation Guide

Skyhigh Networks Skyhigh 3.3.3

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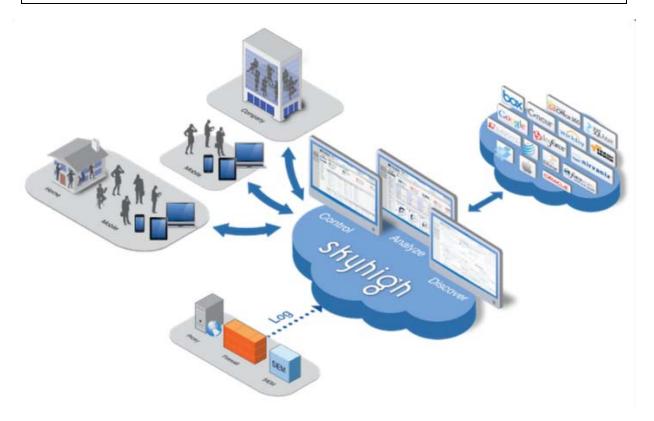




# **Solution Summary**

Skyhigh Networks integrates with RSA NetWitness to provide customers the means to identify and investigate various anomalies and incidents detected by Skyhigh's Machine Learning Algorithms. Skyhigh Enterprise Connector is an on-premise component that leverages various types of incidents generated through Skyhigh analytics and machine learning, and can integrate with customer's SIEM solutions such as RSA NetWitness. This provides users with single pane of glass for reviewing incidents generated from Skyhigh and other sources in a single console for remediation or action.

RSA NetWitness Features Skyhigh Networks Skyhigh 3.3.3				
Device display name within NetWitness	skyhigh_anomalies			
Event source class	Analysis			
Collection method	syslog cef			







# **RSA NetWitness Community**

The RSA NetWitness Community is an online forum for customers and partners to exchange technical information and best practices with each other. All NetWitness customers and partners are invited to register and participate in the **RSA NetWitness Community**.

#### **Release Notes**

Release Date	What's New In This Release
8/30/2017	Initial support for Skyhigh Networks.

! \* Important: The RSA NetWitness CEF parser is dependent on the partner adhering to the CEF Rules outlined in the *ArcSight Common Event Format (CEF) Guide*. A copy of the Common Event Format guide can be found on <a href="https://protect724.hp.com/">http://protect724.hp.com/</a>.

Eg. Jan 18 11:07:53 host CEF:Version | Device Vendor | Device Product | Device Version | Signature ID | Name | Severity | [Extension]

! Important: The time displayed in the CEF log header is parsed into evt.time.str. No other time formats are parsed by default.





## **Partner Product Configuration**

## Before You Begin

This section provides instructions for configuring the Skyhigh Networks with RSA NetWitness. This document is not intended to suggest optimum installations or configurations.

It is assumed that the reader has both working knowledge of all products involved, and the ability to perform the tasks outlined in this section. Administrators should have access to the product documentation for all products in order to install the required components.

All Skyhigh Networks components must be installed and working prior to the integration. Perform the necessary tests to confirm that this is true before proceeding.

Inportant: The configuration shown in this Implementation Guide is for example and testing purposes only. It is not intended to be the optimal setup for the device. It is recommended that customers make sure Skyhigh Networks is properly configured and secured before deploying to a production environment. For more information, please refer to the Skyhigh Networks documentation or website.

## Skyhigh Networks Configuration

Incidents can be exported from Skyhigh Networks to your SIEM systems using syslog export. This export is handled through the Enterprise Connector.

To Configure a SIEM Syslog Service

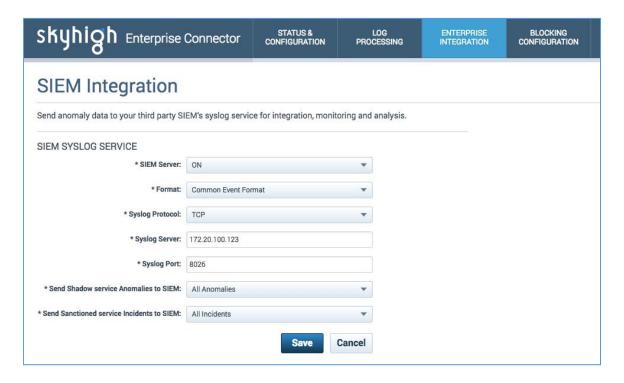
- 1. Navigate to the Enterprise Connector UI by entering the IP Address and port number configured during EC installation into your web browser's address bar.
- 2. Sign in using an email address and password with Enterprise Connector privileges.
- 3. Go to Enterprise Integration > SIEM Integration.
- 4. For **SIEM Server**, select **ON**.
- 5. In the **Format** field, choose the format for the anomaly event export, based on the requirements of your SIEM
  - Key Value Pairs
  - Log Event Extended Format (LEEF)
  - Common Event Format
- In the **Syslog Protocol** field, Select **UDP** or **TCP** for the protocol for your Syslog server exports, based on the requirements for your SIEM.
- 7. In the **Syslog Server** field, enter the Host Name or IP Address of the SIEM that will receive the anomaly exports. This information should be available from your SIEM's user interface.
- 8. In the **Syslog Port** field, set the port that your SIEM is listening on for traffic. This information should be available from your SIEM's user interface.
- 9. **Send Shadow service Anomalies to SIEM.** Select the option against which you want to send Shadow IT anomalies to the SIEM:
  - All: Send every Shadow IT anomaly to your SIEM with each export.
  - New Anomalies Only: Only send Shadow IT anomalies that have been created since your last export.





- 10. **Send Sanctioned service Incidents to SIEM.** Select the frequency at which you want to send Sanctioned IT anomalies to the SIEM:
  - All Anomalies: Send every Sanctioned IT anomaly to your SIEM with each export.
  - New Anomalies Only: Only send Sanctioned IT anomalies that have been created since your last export.

#### 11. Click Save.







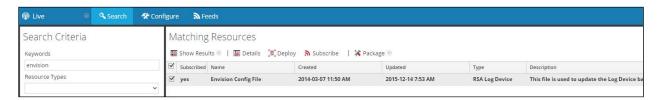
# **RSA NetWitness Configuration**

## Deploy the enVision Config File

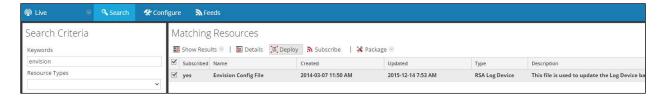
In order to use the RSA Common Event Format, you must first deploy the *enVision Config File* from the **NetWitness Live** module. Log into NetWitness and perform the following actions:

Important: Using this procedure will overwrite the existing table\_map.xml.

- 1. From the NetWitness menu, select **Live > Search**.
- 2. In the keywords field, enter: **enVision**.
- 3. NetWitness will display the **Envision Config File** in Matching Resources.
- 4. Select the checkbox next to **Envision Config File**.



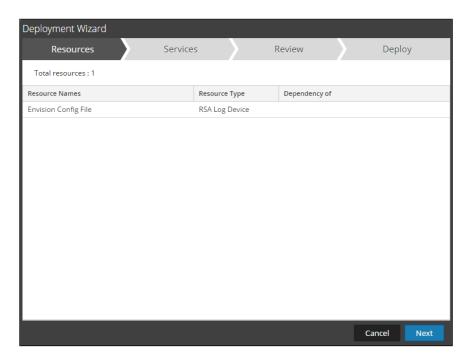
5. Click **Deploy** in the menu bar.



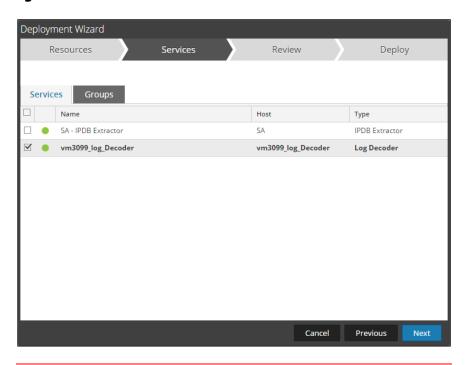




6. Select **Next**.



7. Select the **Log Decoder** and select **Next**.

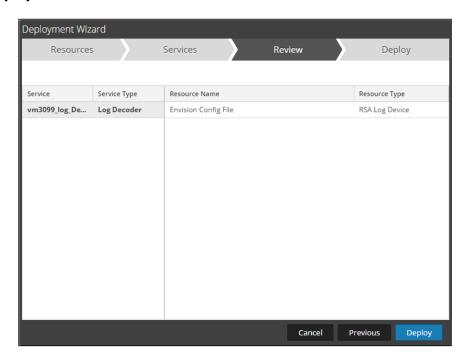


Important: In an environment with multiple Log Decoders, deploy the Envision Config File to each Log Decoder in your network.

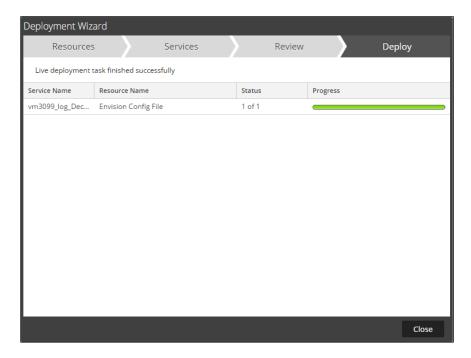




8. Select **Deploy**.



9. Select **Close**, to complete the deployment of the Envision Config file.



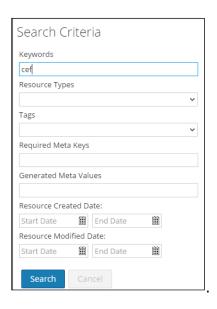




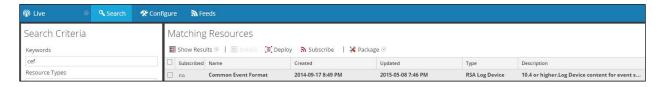
## Deploy the Common Event Format

Next, you will need to deploy the *Common Event Format file* from the **NetWitness Live** module. Log into NetWitness and perform the following actions:

- 1. From the NetWitness menu, select **Live > Search**.
- 2. In the keywords field, enter: CEF



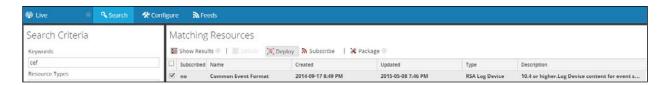
3. RSA NetWitness will display the **Common Event Format** in Matching Resources.



4. Select the checkbox next to **Common Event Format**.



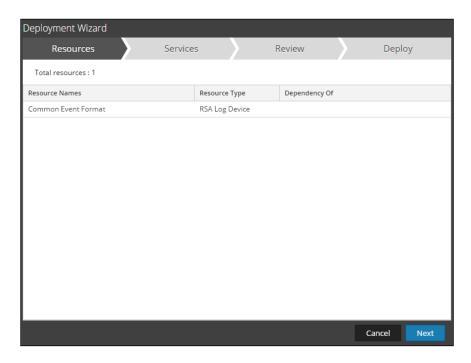
5. Click **Deploy** in the menu bar.



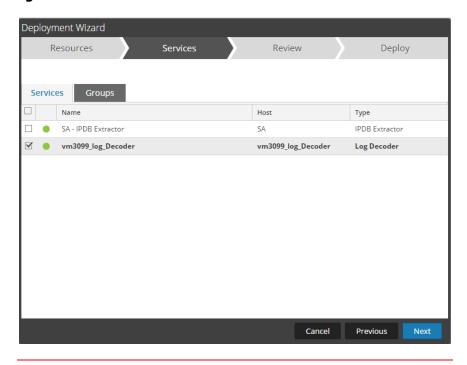




#### 6. Select **Next**.



7. Select the **Log Decoder** and Select **Next**.

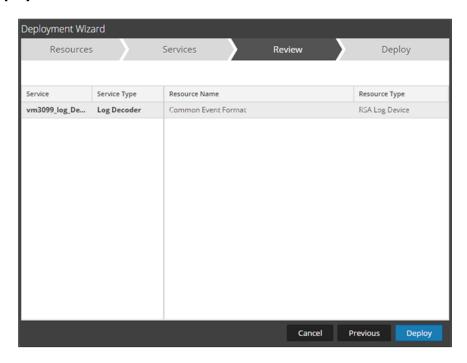


Important: In an environment with multiple Log Decoders, deploy the Common Event Format to each Log Decoder in your network.

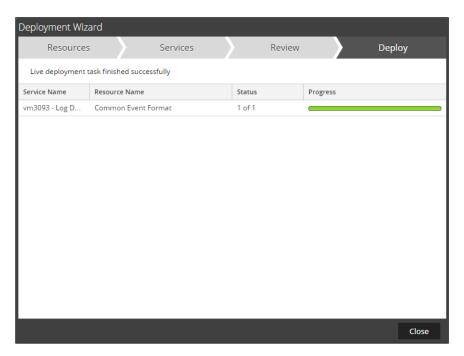




8. Select **Deploy**.



9. Select **Close**, to complete the deployment of the Common Event Format.







10. Ensure that the CEF Parser is enabled on the Log Decoder(s) by selecting **Administration, Services** from the NetWitness Dashboard.



11. Locate the Log\_Decoder and click the gear <sup>32</sup> to the right and select **View, Config**.



12. Check the box next to the cef within the Service Parsers Configuration and select Apply.



13. Restart the **Log Decoder services**.





## Edit the Common Event Format to collect Skyhigh event times

Important: The cef.xml file is overwritten by NetWitness Live during updates, it is important to maintain backups of the file in the event of a typing error or unforeseen event.

- Using WinSCP or other application to access the RSA NetWitness Log Decoder open a connection and locate the /etc/netwitness/ng/envision/etc/devices/cef folder. Backup cef.xml and edit the existing CEF.XML file.
- 2. Locate the end of the <MESSAGE section and copy/paste the following lines below into the file after the /> of the preceding <MESSAGE and contents;





## Edit the Common Event Format Custom to support custom fields

Important: The cef-custom.xml file is not overwritten by NetWitness Live during updates, however it is important to maintain backups of the file in the event of a typing error or unforeseen event.

- 1. Using WinSCP or other application to access the RSA NetWitness Log Decoder open a connection and locate the /etc/netwitness/ng/envision/etc/devices/cef folder. If the cef-custom.xml file does not exist create one. If the file exists create a backup cef-custom.xml and edit the file.
- 2. If this is a new cef-custom.xml file, copy the following into the file, otherwise copy only the required sections.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<DEVI CEMESSAGES>
<! --
# cef-custom.xml Reference: https://community.rsa.com/docs/DOC-79189
-->
    <VendorProducts>
       <! --Example <Vendor2Device
<Vendor2Devi ce vendor="Skyhi gh" product="Skyhi gh"</p>
devi ce="skyhi gh_anomal i es" group="Anal ysi s"/>
    </VendorProducts>
          <Extensi onKeys>
       <! -- Example < ExtensionKey
                   <ExtensionKey cefName="proto" metaName="protocol">
                   <devi ce2meta devi ce="rsafl ow" metaName="proto1"/>
                   </Extensi onKey>
                   <ExtensionKey cefName="updatedOn"
metaName="param_endtime"/>
                   <ExtensionKey cefName="userAction" metaName="userAction"/>
                   <Extensi onKey cefName="threshol dVal ue"
metaName="alert_id"/>
                   <ExtensionKey cefName="incidentGroupId" metaName="group"/>
                   <ExtensionKey cefName="incidentId" metaName="incidentId"/>
                   <ExtensionKey cefName="anomalyValue"
metaName="anomal yVal ue"/>
                   <ExtensionKey cefName="activityName"
metaName="acti vi tyName"/>
                    <Extensi onKey cefName="servi ceNames"</p>
metaName="servi ceNames"/>
                   <ExtensionKey cefName="response" metaName="response"/>
                   <ExtensionKey cefName="riskSeverity"
metaName="riskSeverity"/>
             </Extensi onKeys>
</DEVI CEMESSAGES>
```





#### Edit the NetWtness Table-Map-Custom.xml file

■ Important: The Table-Map-Custom.xml file is not overwritten by NetWitness Live during updates, however it is important to maintain backups of the file in the event of a typing error or unforeseen event.

- 1. Using WinSCP or other application to access the RSA Netwitness Log Decoder open a connection and locate the /etc/netwitness/ng/envision/etc/ folder.
- 2. If one exists, backup the **table-map-custom.xml** and then edit the existing table-map-custom.xml file
- 3. Copy and paste the entire section below into a new file or only the lines between the <mappings>...</mappings> if the table-map-custom.xml file exists;

```
Exampl e.
        <! --
        # attributes:
                 envisionName: The name of the column in the universal table nwName:

The name of the NetWitness meta field
                 nwName:
                                                     Optional. The language key data type. See
                 format:
         LanguageManager. Defaults to "Text
        # flags:
Defaults to "None".
                                            Optional. One of None|File|Duration|Transient.
        # failureKey: Optional. The name of the NW key to write data if conversion fails. Defaults to system generated "parse.error" meta.
# nullTokens. Optional. The list of "null" tokens. Pipe separated.
        Default is no null tokens.
         <mappi ngs>
                  <mapping envisionName="starttime" nwName="start" flags="None"</pre>
         format="TimeT" envi si onDi spl ayName="StartTime"/>
                  <mappi ng envi si onName="endti me" nwName="updatedOn" fl ags="None"</pre>
         format="TimeT" envi si onDi spl ayName="EndTime, rt, end"/>
                  <mapping envisionName="userAction" nwName="userAction" flags="None"/>
                 <mappi ng envisionName="alert_id" nwName="thresholdValue" flags="None"/>
<mappi ng envisionName="group" nwName="incidentGroupId" flags="None"/>
<mappi ng envisionName="incidentId" nwName="incidentId" flags="None"/>
        </mappi ngs>
```





#### Edit the NetWitness index-concentrator-custom file

Important: The index-custom-concentrator.xml file is overwritten by NetWitness Live during updates, it is important to maintain backups of the file in the event of a typing error or unforeseen event.

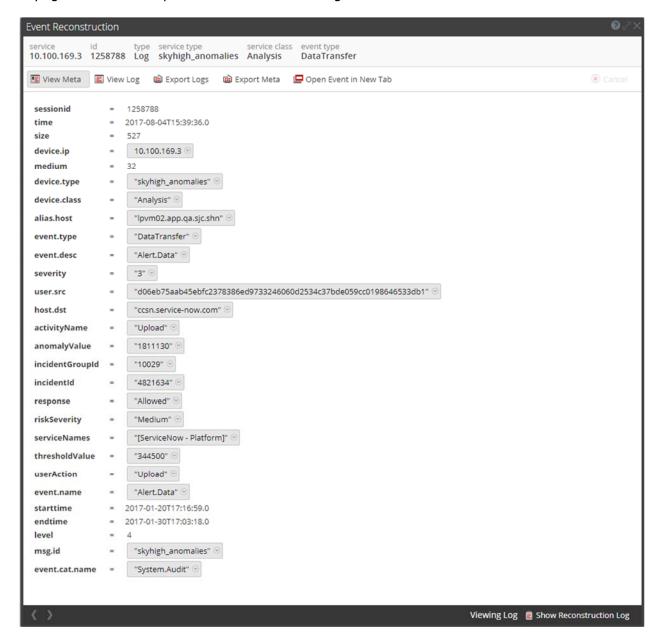
- 1. Using WinSCP or other application to access the RSA NetWitness Concentrator open a connection and locate the **/etc/netwitness/ng** folder.
- If one exists, backup the index-concentrator-custom.xml and then edit the index-concentratorcustom.xml file.
- 3. Copy and paste the entire section below into the file between the <!-- Add your custom index keys below this line -->...<!-- Add your custom index keys above this line -->;

```
Example.
```





Skyhigh Collection Example within NetWitness Investigator:







# **Certification Checklist for RSA NetWitness**

Date Tested: September 26, 2017

Certification Environment				
Product Name	Version Information	Operating System		
RSA NetWitness	10.6.4	Virtual Appliance		
Skyhigh Networks	3.3.3			
Skyriigii Networks	3.3.3			

NetWitness Test Case	Result
Device Administration	
Partner's device name appears in Device Parsers Configuration	<u> </u>
Device can be enabled from Device Parsers Configuration	<b>✓</b>
Device can be disabled from Device Parsers Configuration	<b>✓</b>
Device can be removed from Device Parsers Configuration	<b>✓</b>
Investigation	
Device name displays properly from Device Type	<b>✓</b>
Displays Meta Data properly within Investigator	<u> </u>

<sup>√ =</sup> Pass X = Fail N/A = Non-Available Function



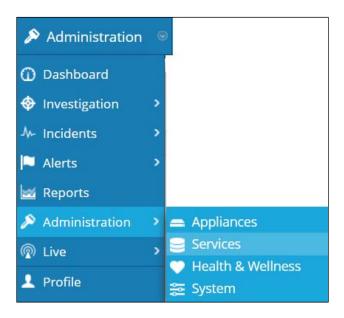


# **Appendix**

#### **NetWitness Disable the Common Event Format Parser**

To disable the NetWitness Common Event Format Parser and not delete it perform the following:

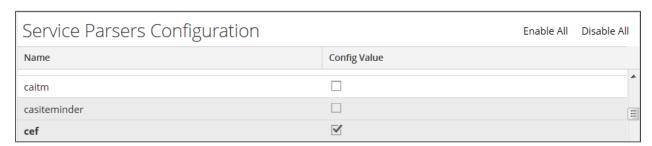
1. Select the NetWitness **Administration** > **Services menu**.



2. Select the Log Decoder, then select **View > Config.** 



3. From the **Service Parses Configuration** window, scroll down to the CEF parser and uncheck the Config Value checkbox.



4. Click **Apply** to save settings.

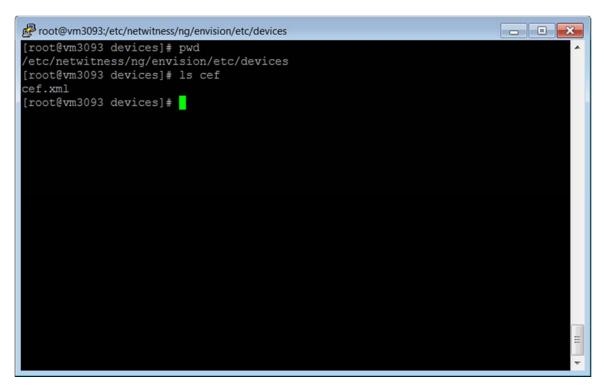




#### **NetWitness Remove Device Parser**

To remove the NetWitness Integration Package files from the environment, perform the following:

1. Connect to the NetWitness Log Decoder/Collector Server using SSH and open the /etc/netwitness/ng/envision/etc/devices folder.



2. Search for and delete the CEF folder and its contents.

