RSA® NETWITNESS®
Security Operations Implementation Guide

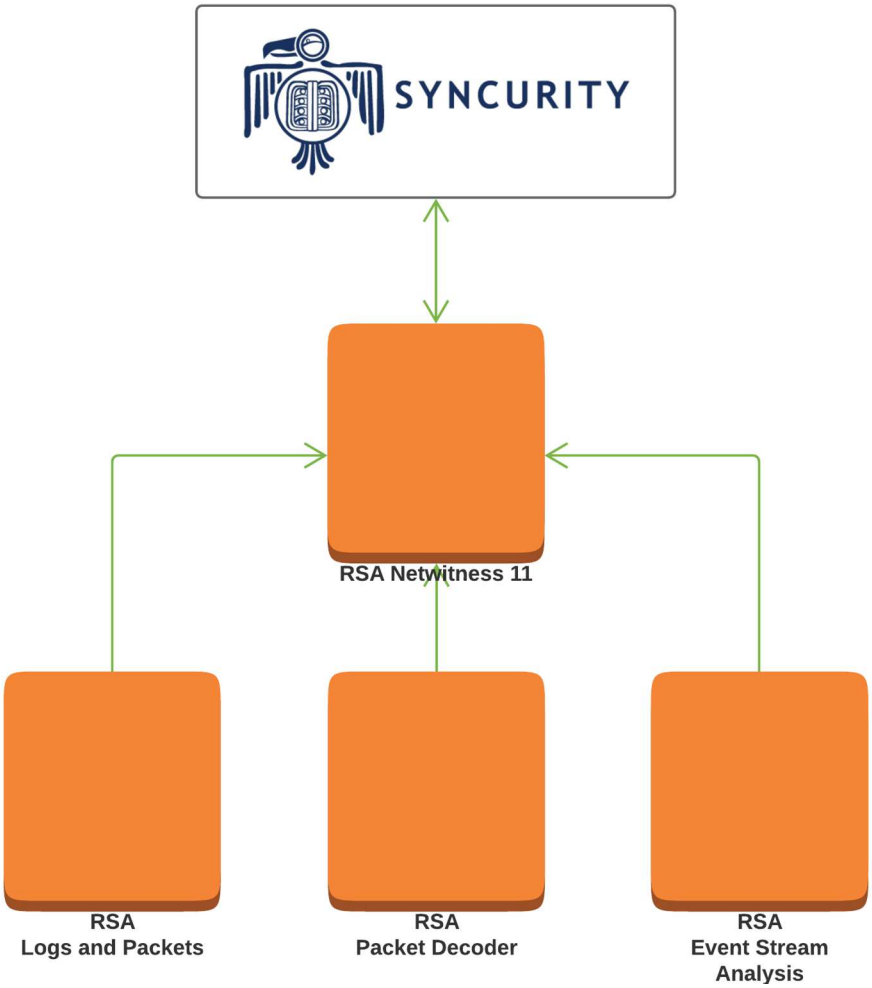
Syncurity IR Flow 5.x

Daniel R. Pintal, RSA Partner Engineering
Last Modified: October 22, 2018

RSA READY

Solution Summary

Syncurity has integrated with RSA NetWitness to provide a single pane of glass to monitor, investigate and remediate security events within the enterprise. The integration utilizes RSA NetWitness API to gather incidents and alerts administrators to address critical security related events within the network infrastructure.



Partner Product Configuration

Before You Begin

This section provides instructions for configuring the Syncurity IR Flow 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 Syncurity IR Flow components must be installed and working prior to the integration. Perform the necessary tests to confirm that this is true before proceeding.

Important: 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 Syncurity IR Flow is properly configured and secured before deploying to a production environment. For more information, please refer to the Syncurity IR Flow documentation or website.

Syncurity IR Flow Prerequisites

Prior to any configuration steps for this integration please check that your configuration meets the minimum requirements for operation:

1. RSA NetWitness instance is updated to version 11.1.0.1 or greater.
2. Syncurity IR-Flow instance is updated to version 5.1.0 or greater.
3. Any network configurations are complete for communication between RSA Netwitness and Syncurity IR-Flow. (e.g. Open Ports, Routes, etc.)
4. A user has been created in RSA NetWitness with proper privileges allowing Syncurity IR-Flow to ingest information.

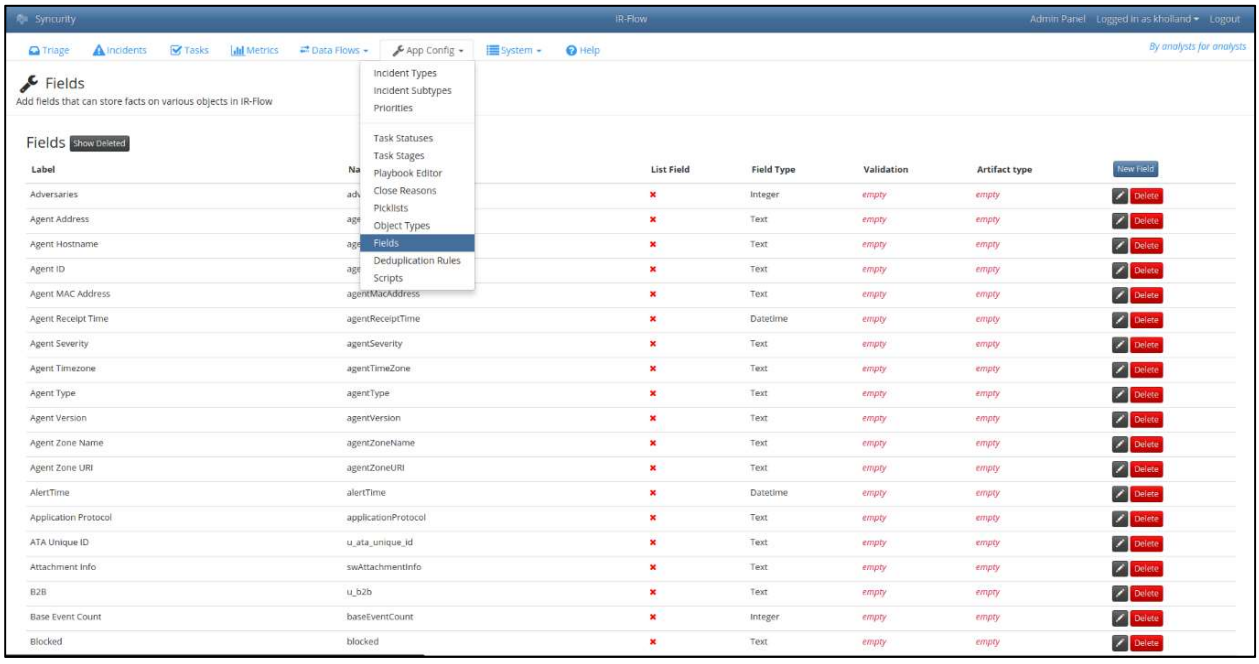
Syncurity IR Flow Configuration

Alert Object Setup

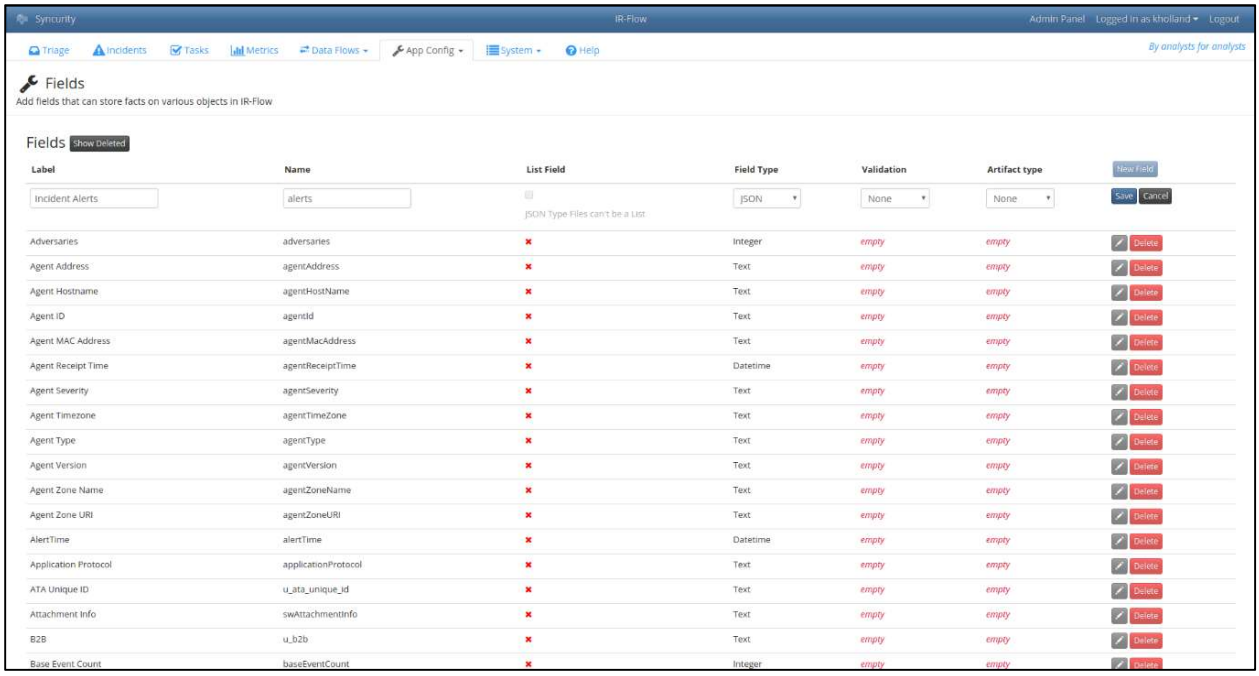
In order for this integration to submit data to IR-Flow, there must be a properly configured Alert object along with an Incoming Data Field Group. Before either of these can be configured, ensure that all required fields are present, and create any that are not. The table below contains the Label, Name, and Field Type for each field needed; none of the fields are of the list type, or require validation or an artifact type.

Label	Name	Field Type
Incident Alerts	alerts	JSON
Incident ID	incidentId	Text
Original Alert URL	originalAlertURL	URL
Results	results	JSON
Title	title	Text

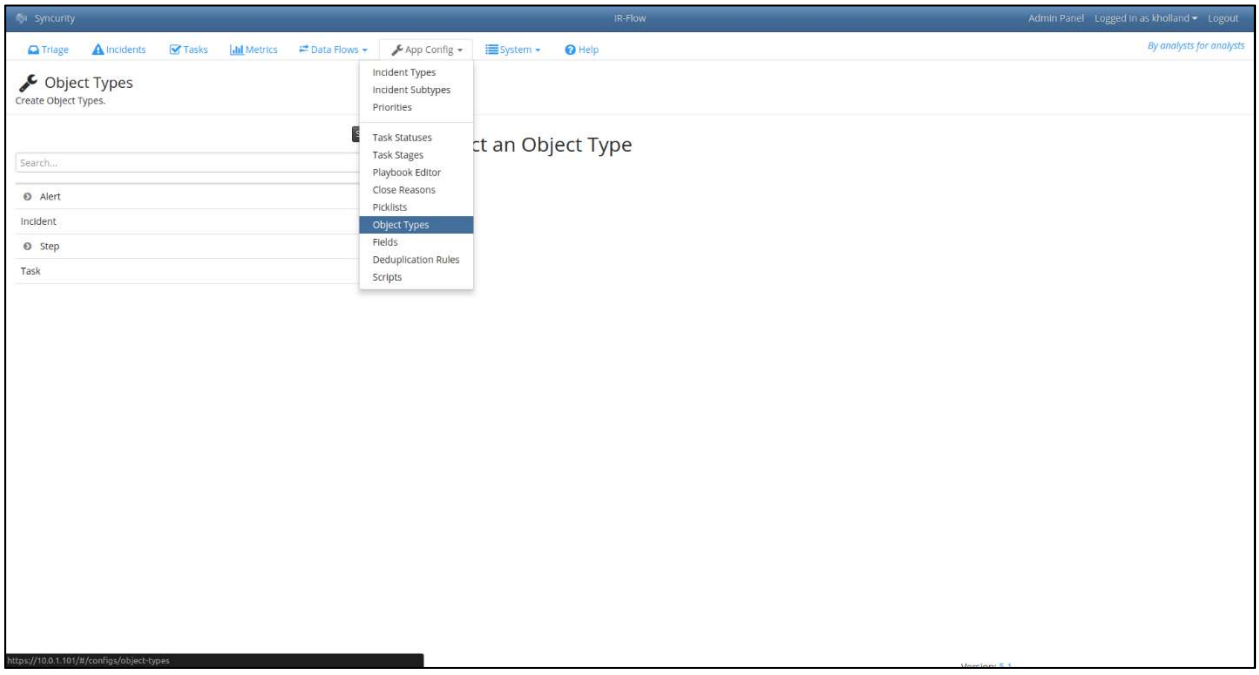
1. Locate the list of fields under **App Config > Fields** in the IR-Flow web interface**.** New fields can be created with the New Field button as needed.



2. Once everything is filled out for a new field to be created, simply click the **Save** button.

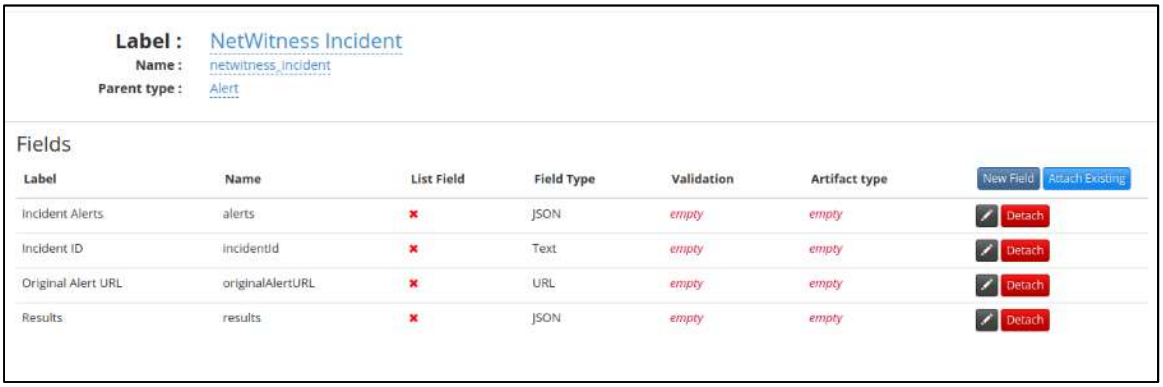


3. Configure the alert object in **App Config > Object Types**.



4. Click the **+** button next to **Alert** to create a new **Alert** object.

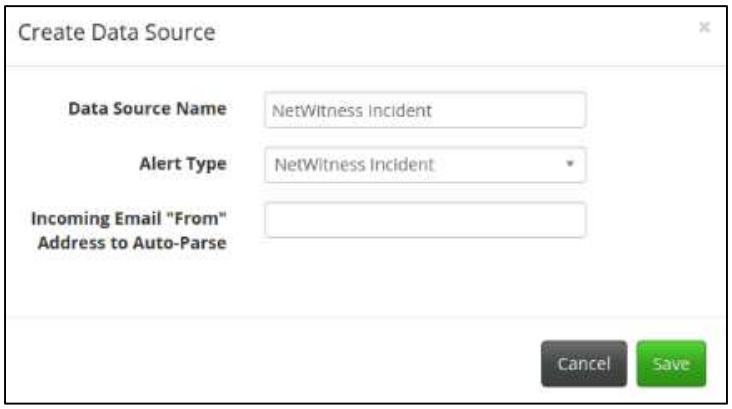
5. Complete the **Label field** with NetWitness Incident, and the **Name** field with NetWitness Incident.



6. Attach the appropriate fields using the **Attach Existing** button, and navigating to each of the required fields. The Save button will add the selected field to the Alert object.

7. Navigate to **Data Flows > Incoming Data and Triage** to setup the Incoming Data Field Group for the integration.

8. Use the **Add** button and fill out the **Data Source Name** with NetWitness Incident, and select the alert object we created previously for the **Alert Type** field. Click Save once these are filled out, and everything is set.



Download PCAP and Import to IR-Flow

NetWitness, with the Packet Decoder (or simply Decoder) configured in your infrastructure allows NetWitness to capture network traffic in the form of a PCAP. This PCAP can be attached to enrich an alert in IR-Flow. This section will only cover the required arguments. For a complete list of options please refer to the IR-Flow Integrations Documentation under NetWitness.

1. Login to IR-Flow as the **irflow** user
2. Navigate to the **irflow_integrations/integrations/netwitness**
3. Run the **netwitness_download_pcap.py** file with the required arguments

```
python3 netwitness_download_pcap.py <arguments>
```

Required Arguments

`-U / --plugin_user`

RSA NetWitness API user's username

`-p / --plugin_pass`

RSA NetWitness API user's password

`-H / --target_host`

RSA NetWitness host instance address

`-d / --decoder_host`

Host address of the decoder from which to fetch the PCAP file

`-o / --decoder_port`

REST API port over which to communicate with the decoder

`-S / --session_id`

Session ID for which to pull the relevant PCAP file

`-a / --alert_num`

IR-Flow alert number to submit results to

Example Command

```
python3 netwitness_download_pcap.py -U rsa_user -p p@55w0rd -H 10.0.0.1 -d
10.0.0.2 -o 50004 -S 12345 -a 54321
```

1. Reload the alert in IR-Flow to see the PCAP attachment
2. Once you have confirmed this is working, you can configure this as an action in IR-Flow. See IR-Flow documentation for more info.

Service Setup

Setting up the integration service to pull incidents into IR-Flow is handled from within the IR-Flow instance itself, generally through an SSH connection. Once signed in as the **irflow** user:

1. Navigate into the irflow-integrations/integrations/netwitness RSA NetWitness integration directory
2. Run the first-time-setup.sh script, and ensure that the newly created netwitness.conf and last.conf files are readable and writable by all users – chmod may be used as needed.
3. Fill in the **netwitness.conf** file's **Host** field with the host address of your RSA NetWitness instance, and **username** and **password** fields with your username and password on said instance respectively. The **disable_ssl** field should default to **False**, but can be set to **True** to disable SSL verification with the RSA NetWitness instance.

Service Setup

Setting up the integration service to pull incidents into IR-Flow is handled from within the IR-Flow instance itself, generally through an SSH connection. Once signed in as the irflow user:

1. Navigate into the **irflow-integrations/integrations/netwitness** RSA NetWitness integration directory
2. Run the **first-time-setup.sh** script, and ensure that the newly created **netwitness.conf** and **last.conf** files are readable and writable by all users – chmod may be used as needed.
3. Fill in the **netwitness.conf** file's Host field with the host address of your RSA NetWitness instance, and **username** and **password** fields with your username and password on said instance respectively. The disable_ssl field should default to False, but can be set to True to disable SSL verification with the RSA NetWitness instance.

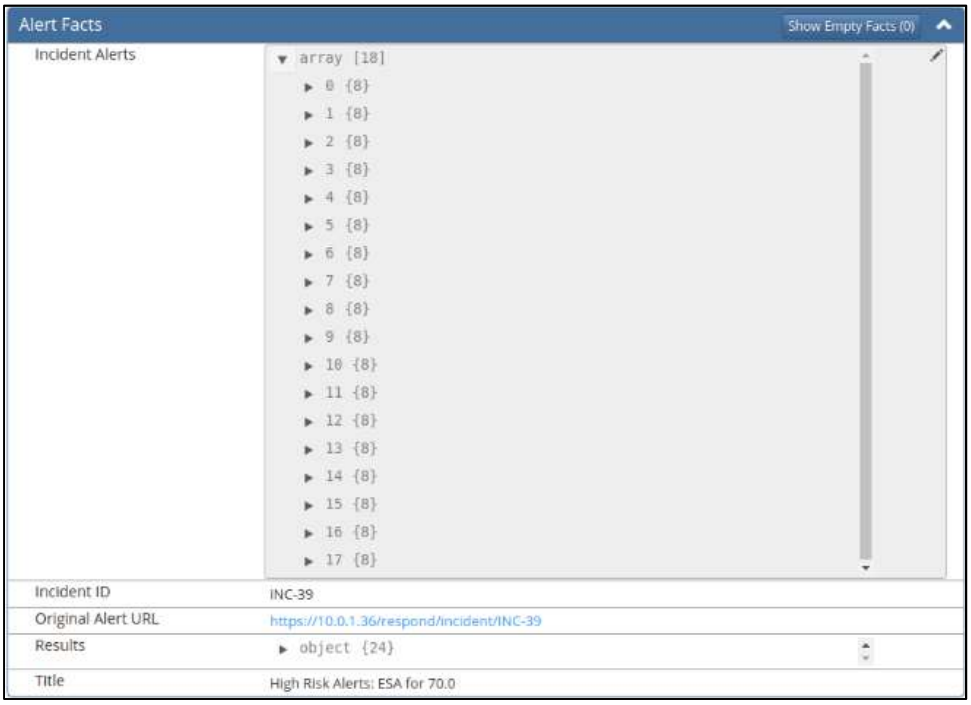
Running, Stopping, and Checking on the Service

The incident pulling service can be started by running the enable-netwitness.sh script as root within the RSA NetWitness integration directory. It will run once when this script is run, and then continuously thereafter until stopped. Stopping the service is as simple as running the disable-netwitness.sh script as root within the same directory. The status of the service can be checked on through the following command:

```
systemctl status -l irflow-netwitness.service
```

IR-Flow Alert Output

Back in the IR-Flow web interface Triage, once the service is running, you will find new alerts appearing with Source and Description values of NetWitness Incident. Within these, you will find fields representing the incident's ID and title, a URL link to the incident on the RSA NetWitness instance, and expandable data fields filled with data for the incident itself, and its list of associated alerts.



Certification Checklist for RSA NetWitness

Date Tested: October 22, 2018

Certification Environment		
Product Name	**Version Information**	**Operating System**
RSA NetWitness	11.1	Virtual Appliance
Syncurity IR Flow	5.x	AWS

RSA NetWitness Test Case	Result
Inline Query/Enrichment	
Query NetWitness for IP Info (source/destination IP)	N/A
Query NetWitness for User Info (usernames, user behavior)	N/A
Query NetWitness for Specific Meta (Other)	N/A
Retrieve NetWitness Log/Packet Data	N/A
Retrieve NetWitness PCAP files	N/A
Alerting / Incident Creation	
NetWitness alert via syslog	N/A
NetWitness alert via email	N/A
NetWitness alert via ESA/scripting	N/A
Send alert to NetWitness (Syslog, CEF, or custom parser)	N/A
Alerts and Incident Retrieval	
Collect NetWitness Alert	✓
Collect NetWitness Incident	✓
RSA NetWitness Intel Feeds	
Update NetWitness Intel Feed (CSV, STIX)	N/A

✓ = Pass ✗ = Fail N/A = Non-Available Function