

RSA

RSA[®] ARCHER[®] SUITE
Integration Guide

Panaseer Platform - RSA Archer Integration 1.0



Contact Information

Go to the RSA corporate web site for regional Customer Support telephone and fax numbers:<https://community.rsa.com/community/rsa-customer-support>.

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Chapter 1: Overview of Panaseer Platform

About Panaseer Platform

Panaseer is a Continuous Controls Monitoring platform for enterprise security. We help stakeholders to make informed, risk-based security decisions.

The Panaseer Platform shows you every asset, application, user and database across your IT estate in real-time. This identifies gaps in controls coverage, aligns security with framework standards and substantiates regulatory compliance.

About the Panaseer Platform Integration with RSA Archer

Panaseer has developed an integrated solution with RSA Archer for Automated Controls Assessment & Assurance.

Combining Panaseer's extensive data connector catalog and scalable data platform, Panaseer can integrate directly with the control systems to collect data to generate complete device inventories and compute metrics that measure control deployment and control performance. These device inventories and metrics are automatically fed into RSA Archer for continuous controls assessment.

Key Features and Benefits

Traditionally, GRC functions have relied on manual, human-driven approaches to self-assess and assure that controls are deployed and implemented correctly.

The automated and data-driven approach leads to numerous benefits:

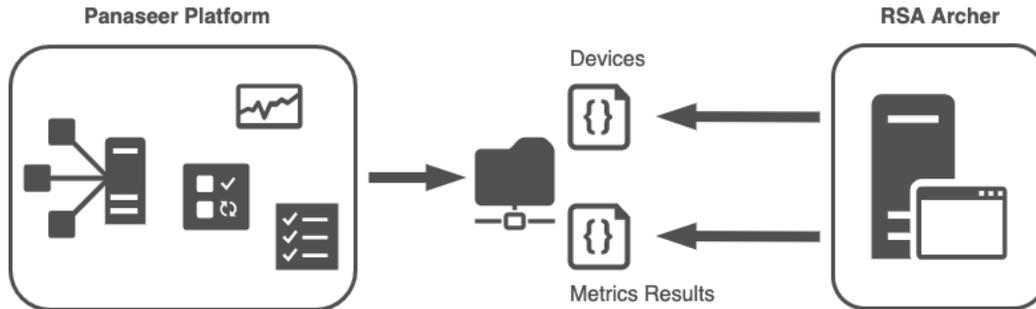
- **Reduced Costs** – Through automation, large teams doing manual assessments are no longer required.
- **Improved Accuracy** – Through data, the assessments are based on facts, rather than people's opinions.
- **Complete Assessments** – No need for sampling as you can automatically test every control instance without requiring a large team.
- **Continuous Assessments** – Have a consistently up-to-date view of your control deployment, not the view from 3 months ago when you last did an assessment.

Requirements

Components	Requirement
RSA Archer Solution	RSA Archer Enterprise & Operational Risk Management RSA Archer IT & Security Risk Management
RSA Archer Use Case	RSA Archer Key Indicator Management RSA Archer IT Controls Assurance
RSA Archer Applications	Devices Metrics Metric Results
Requires On-Demand License	No

Integration Architecture

The following diagram provides an overview of how the data flows between the Panaseer Platform and RSA Archer:



The Panaseer Platform will export Devices and Metrics Results data via an internal network location on a regular basis, with an update frequency to be determined and configured by the user.

The integration provides two Data Feeds based on a File Transporter to consume and ingest data produced by Panaseer into the relevant Device and Metrics Results applications.

Additional Resources

The following additional resources are available for this application:

- [Cron Maker](#)

Chapter 2: Configuring the Integration

This section provides instructions for integrating the Panaseer Platform with RSA Archer. 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 requisite system privileges to perform the tasks outlined in this section. Administrators should have access to the product documentation for both products in order to install the required components.

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

Important: The integration described in this guide is being provided as a reference implementation for evaluation and testing purposes. It may or may not meet the needs and use cases for your organization. If additional customizations or enhancements are needed, it is recommended that customers contact RSA Professional Services for assistance.

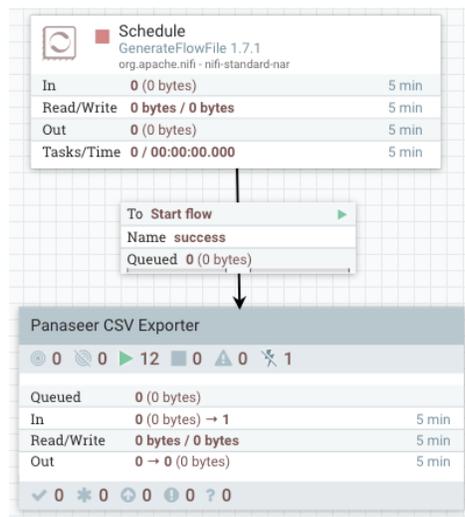
Configure Panaseer Platform

Task 1: Install Panaseer CSV Exporter connector

1. Use your browser to access to **NiFi console** in the Panaseer Platform using the **URL provided by your Panaseer Platform Administrator**.
2. On the main canvas:
 - a. Drag the **Template** icon in the top bar menu and drop into the canvas.



- b. Select **Panaseer CSV Exporter** from the menu.
- c. Click **Add**.



Task 2: Schedule the frequency for the exporter

1. Right click on the **Schedule** component of the **Panaseer CSV Exporter** and click on **Configure**.
 - a. On **Scheduling Strategy** select **CRON driven**.
 - b. On **Run Schedule** enter a valid CRON expression defining the frequency the exporter should generate new data.

The screenshot shows the configuration interface for the Panaseer CSV Exporter. It has four tabs: SETTINGS, SCHEDULING, PROPERTIES, and COMMENTS. The SCHEDULING tab is active. Under Scheduling Strategy, 'CRON driven' is selected. Under Concurrent Tasks, the value is '1'. Under Run Schedule, the CRON expression '0 0 6 1/1 * ? *' is entered. To the right, there is a Run Duration section with a dropdown menu showing '0ms', '25ms', and '5', with '5' selected. Below the dropdown is a checkbox labeled 'Lower latency'.

Note: NiFi uses **Quartz** format to define CRON expressions instead of UNIX format so keep this in mind when defining your expression. [Cron Maker](#) is an online utility that can help to define a valid CRON expression for NiFi.

For example, the expression in the image (**0 0 6 1/1 * ? ***) will schedule the CSV Exporter to run every day at 6am.

2. Right click on the **Schedule** component and click **Start** to finish the **Setup**.

Note: To test and validate that the configuration is correct, the Panaseer CSV Exporter can be triggered manually, and moved to the “scheduled mode” once it has been verified.

Configure RSA Archer

Task 1: Add Fields to the Devices Application

3. Navigate to the applications manager by clicking the **Administration Menu**  and selecting **Applications** under the **Application Builder** category.
4. On the list of applications click on **Devices** and select the **Fields** tab:
 - a. Click on **Add New** to create the **Panaseer Device ID** field.
 - b. Create a **new field from scratch** of type **Text** (leave **Advanced** and **System** settings empty).
 - c. Click **OK** to configure the new field as following:
 - i. General tab – General Information:
 - **Name:** Panaseer Device ID
 - **Description:** The unique ID created and used by Panaseer for the Device
 - ii. Options tab – Options section: check the following:
 - **Auditing Information**
 - **Search Results**

- iii. Click save and drag the **Panaseer Device ID** field into the application layout:

The screenshot shows a form titled "General Information" with the following fields:

Device ID	Panaseer Device ID
Device Name *	Source
Description	Last Updated By

5. **Save** the changes

Task 2: Add Fields to the Metrics Application

1. Navigate to the application manager by clicking the **Administration Menu**  and selecting **Applications** under the **Application Builder** category.
2. On the list of applications click on **Metrics** and select the **Layouts** tab.
3. Select the **Default Layout** then click on the **Designer** tab:
 - a. Click on **Add New Field** and **Text** type to create the **Panaseer Metric ID** field.
 - b. Configure the new field as follow:
 - i. General tab - General Information:
 - **Name:** Panaseer Metric ID
 - **Description:** The unique ID created and used by Panaseer for the Metric
 - ii. Options tab – Options: check the following:
 - **Search Results**
 - c. Drag the **Panaseer Metric ID** field from the list of **Available Fields** into the layout and add it to the **General Information** section.

The screenshot shows a form titled "General Information" with the following fields:

Inactivate Metric Instructions	
Metric ID	Panaseer Metric ID
Metric Name *	Status *
Description	
Metric Owner *	Risk Manager
Metric Type *	Measurement Frequency *
Trend Expectation *	Type of Monitoring *
Metric Owner Review Due Date *	Activation Date
Metric Result Due Date	Inactivation Date

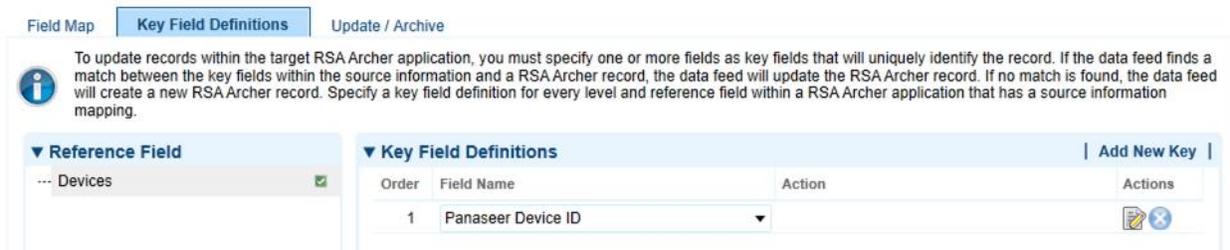
4. **Save** the changes.

Task 3: Setup the Panaseer Device Inventory data feed

1. Navigate to the Data Feeds Manager by clicking the **Administration Menu**  and selecting **Data Feeds** under the **Integrations** category.

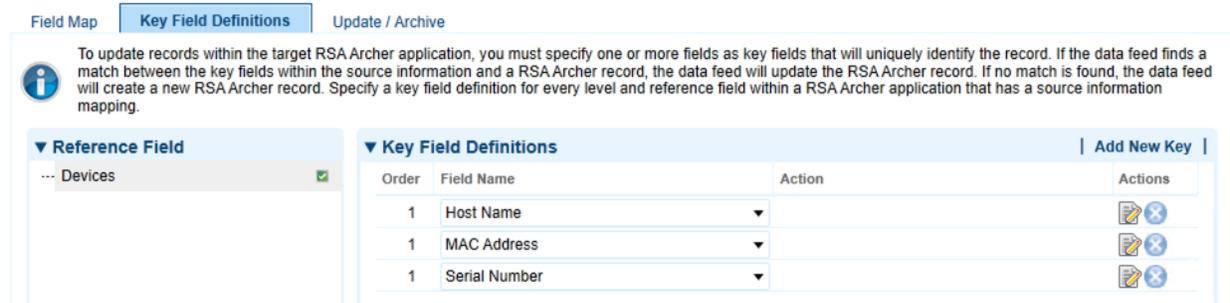
2. In the Data Feeds Manager section, click Import:
 - a. Select the **Panaseer_Device_Inventory.dfx5** file included in the **Data Feeds Package**
 - b. Click **Open**
3. Configure **Panaseer Device Inventory Data Feed** as follow:
 - a. General tab:
 - i. Set the Status to **Active**
 - b. Transport tab:
 - i. Edit the **Path** in the **Transport Configuration** section to amend the UNC Path with the **hostname provided by the Administrator of your Panaseer instance**.
Example: C:\Users\Administrator\Documents\device_inventory.csv
 - c. Schedule tab:
 - i. Amend the **Recurrences** section to specify how often the Data Feed should run. The recommended frequency is **Daily**, but it might depend on your organization’s needs. If you have to increase the frequency of the Data Feed contact your Panaseer Administrator to schedule the source of data to be updated with the similar frequency.

IMPORTANT NOTE: Panaseer Device Inventory data feed is configured to match on the Panaseer Device ID field. This means that Panaseer Device data feed will create new records (if no matches exist) and update records previously created by the Panaseer data feed.



If the Devices application already contains a record for this device, the Panaseer data feed will duplicate the existing entries on its default configuration.

To avoid this duplication, the Key Field Definition must be configured to match on a set of fields that uniquely identify a device. Such as the Host Name, MAC Address, and Serial Number.



Please note that the configuration provided above is an example only. Many factors must be considered before defining the correct Key Field Definition for your organization.

Task 4: Setup the Panaseer Metrics Results Inventory data feed

1. Navigate to the **Data Feeds Manager** by clicking the **Administration Menu**  and selecting **Data Feeds** under the **Integrations** category.
2. In the **Data Feeds Manager** section, click Import:
 - a. Select the **Panaseer_Metrics_Results.dfx5** file included in the Data Feeds Package
 - b. Click **Open**
3. Configure Panaseer **Metrics Results Data Feed** as follow:
 - a. General tab:
 - i. Set the Status to **Active**
 - b. Transport tab:
 - i. Edit the **Path** in the **Transport Configuration** section to amend the UNC Path with the **hostname provided by the Administrator of your Panaseer instance**.
Example: C:\Users\Administrator\Documents\metrics.csv
 - c. Schedule tab:
 - i. Amend the **Recurrences** section to specify how often the Data Feed should run. The recommended frequency is **Daily**, but it might depend on your organization needs, if you had to increase the frequency of the Data Feed contact with you Panaseer Administrator to schedule their availability at a similar pace.

******NOTE:** Follow Chapter 3, task 2 to create the respective Metrics records before running the Metrics Results data feed. The **Metrics Results data feed** will error until the respective Metrics have been added in RSA Archer application and linked to an existing Panaseer Metric using the **Panaseer Metric ID**.****

Chapter 3: Using the Panaseer Platform integration

In order to use the Metrics Result data feed and automate the gathering of results for metrics in RSA Archer, the metrics must be linked to a Panaseer Metric ID.

At the time of writing, Panaseer supports more than 100 metrics than can be fed into RSA Archer using the same Data Feed.

Contact a Panaseer representative to provide you with the latest catalog of metrics, and to make them available in the Data Feed.

Task 1: Configure the list of metrics

1. In the shared location provided by Panaseer, create a file with the name “**metrics-list.txt**” and add a valid **Panaseer Metric ID** per line.

```

metrics-list.txt
1 prod_inv_met_p-device-no-av
2 prod_vuln_met_p-device-not-scanned
    
```

2. **Save** the file.
3. **Panaseer CSV Exporter** will read the set of metric IDs from that “**metrics-list.txt**” file in the shared location and use them to generate a feed of data from Panaseer Platform to be consumed by the Panaseer Metrics Data Feed in RSA Archer.

Task 2: Define a new Metric

1. In your RSA Archer instance, click the drop-down next to the **Operation Risk Management Workspace** and select the **Metrics** application under the **Key Indicator Management** solution.
2. Click the **New** to create a new Metrics record.
 - a. Populate all required fields in the General Information section. Ensure the **Panaseer Metrics ID field is populated** with a valid identifier provided by Panaseer

GENERAL INFORMATION

Metric ID: Panaseer Metric ID:

Metric Name: Status:

Description:

Metric Owner:

Metric Type: Edit

Trend Expectation: Edit

Metric Owner Review Due Date:

Risk Manager:

Measurement Frequency: Edit

Type of Monitoring: Edit

Activation Date:

- b. Define the desired threshold values for the Metric in the **Threshold Monitoring** section
3. Click **Save**
4. You should see the record you just created in the search results. This record will be used to sync data through the Panaseer Metric Results Data Feed.

Metric Name	Metric Owner	Status	Current Status	Current Value	Latest Measurement Date	Type of Monitoring
Devices missing from AV Agents	Administrator, System	Active	Open			Threshold

Page 1 of 1 (1 records)

Task 3: Test the integration

Once the configuration is complete, we will perform a manual test of the data feeds by following the steps below:

1. Navigate to the **Data Feeds Manager** by clicking the Administration Menu  and selecting **Data Feeds** under the **Integrations** category.
2. From the Data Feeds Manager, select **Panaseer Metrics Results** from the list of data feeds
 - a. On the General tab, set the **Status** of the data feed to **Active** if it wasn't already.
 - b. On the Schedule tab, click **Start** to run the data feed.
 - c. Ensure there were no errors by reviewing the **Run Detail** information
3. Repeat step 2 for the **Panaseer Device Inventory data feed**.

Metrics records should now be populated with values obtained from the Panaseer data feeds.

Metric Name	Metric Owner	Status	Current Status	Current Value	Latest Measurement Date	Type of Monitoring
2		1				

Status: Active

Devices missing from AV Agents	Administrator, System	Active	●	9,548	10/30/2018	Threshold
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Page 1 of 1 (1 records)

[Description](#) | [Metrics Analysis](#) | **[Metric Results](#)** | [Forecast Analysis](#) | [Content Provider](#)

Metric Result ID	Metric Date	Metric Reporter	Metric Value	Metric Source
MRID-253061	10/30/2018		9,548	Panaseer
MRID-253060	10/29/2018		9,535	Panaseer
MRID-253059	10/28/2018		9,596	Panaseer
MRID-253058	10/27/2018		9,41	Panaseer
MRID-253057	10/26/2018		9,554	Panaseer

Device records should also be updated with information from Panaseer

SEARCH RESULTS [Manage Columns](#) | [Options](#)

Drag a column name here to group the items by the values within that column.

Device Name	Type	Business Unit	Source	DNS Name
BOS-10061	Server	Investment Management	Panaseer	bos-10061.americas.mycompany.com
BOS-10062	Server	Investment Management	Panaseer	bos-10062.americas.mycompany.com
BOS-10063	Server	Investment Management	Panaseer	bos-10063.americas.mycompany.com
BOS-10064	Server	Investment Management	Panaseer	bos-10064.americas.mycompany.com

Appendix A: Certification Environment

Date Tested: 30th Jan 2020

Product Name	Version Information	Operating System
RSA Archer	6.7	Windows Server 2019 Datacenter
Panaseer Platform	All	Unix