

IBM Resilient



Security Orchestration, Automation and Response Platform

MAAS360 INTEGRATION GUIDE v1.0

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Resilient Security Orchestration, Automation and Response (SOAR) Platform MaaS360 Integration Guide

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1. Overview

The MaaS360 function package enables users to perform the following Mobile Device Management (MDM) actions:

- Basic device search.
- Get a list of software and versions installed on a device.
- Locate a device.
- Lock a device.
- Wipe a device.
- Cancel a pending wipe.
- Stop app distribution across specific target devices.
- Delete an app from the MaaS360 catalog.

This guide provides a description of the functions and components within the function package, any additional requirements, and a list of settings that need to be added to the Resilient Circuits app.config file.

2. Installation

You download the function package to a Resilient integration server, and from there you deploy the functions and components to a Resilient platform. These procedures are provided in the [Resilient Integration Server Guide \(PDF\)](#).

The functions included this package have the following requirements, which are above and beyond those listed in the *Resilient Integration Server Guide*.

- Resilient platform is version 31 or later.
- A new incident tab is needed in the Layouts section of the Resilient platform to contain two custom data tables.

After installing the package, Resilient Circuits creates a new section, `fn_maas360`, in the `app.config` file. You need to edit the following settings in that section.

```
[fn_maas360]

# Authentication settings
maas360_host_url=
maas360_billing_id=
maas360_platform_id=
maas360_app_id=
maas360_app_version=
maas360_app_access_key=
maas360_username=
maas360_password=

# Optional - If you are seeing read timeout=30 error you can override the timeout
value
#maas360_request_timeout=60

# Basic Search Fn settings
# Limit number of devices returned at one time. Allowed page sizes: 25, 50, 100,
200, 250. Default value: 250
maas360_basic_search_page_size=25
# Optional - Match 0 (Default) indicates Partial match for Device Name, Username,
Phone Number. Match 1 indicates Exact match.
#maas360_basic_search_match=0
# Optional - Sort attribute. Possible values: lastReported (Default) or
installedDate
#maas360_basic_search_sort_attribute=lastReported
# Optional - Sort Order. Possible values: asc or dsc (Default)
#maas360_basic_search_sort_order=dsc

# Wipe device settings
# Required - Whether to notify the administrator on successful device wipe. "yes"
value enables this flag
maas360_wipe_device_notify_me=Yes
# Required - Whether to notify the user on successful device wipe. "yes" value
enables this flag.
maas360_wipe_device_notify_user=No
# Required - Comma separated list of other email addresses to notify on successful
device wipe
maas360_wipe_device_notify_others=email1, email2
```

3. Package contents

The following table lists the functions included in the package, along with associated workflows and rules.

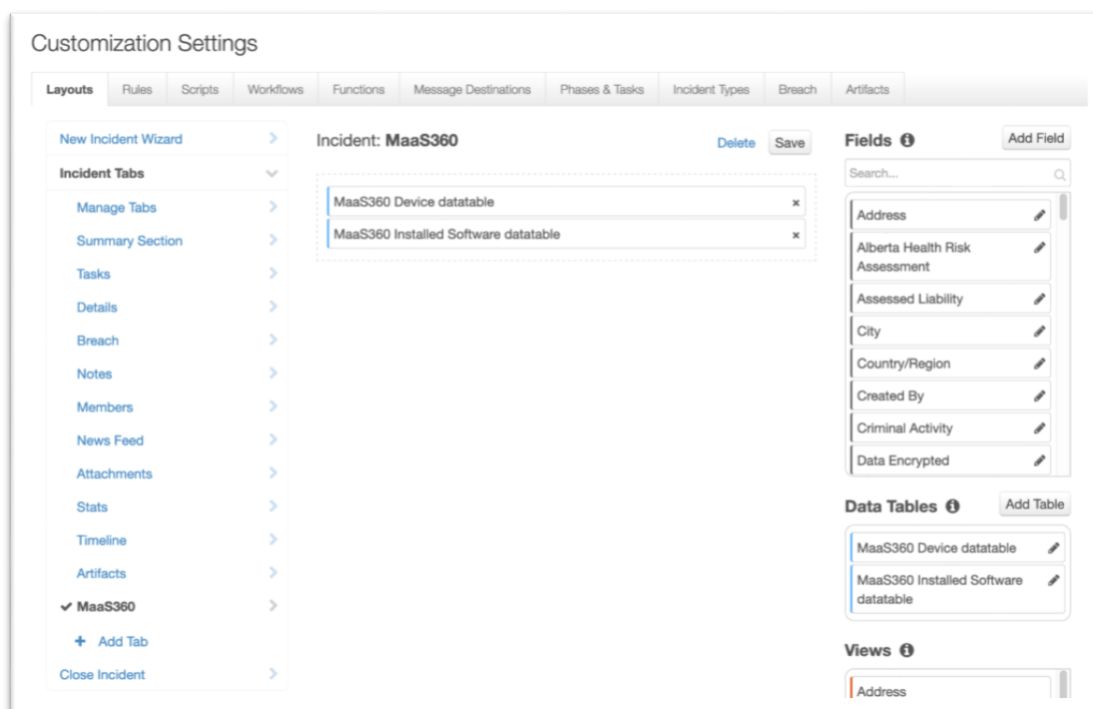
Function	Workflow/Script	Rule
MaaS360 Basic Search	Example: MaaS360 Basic Search Workflow	Example: MaaS360 Basic Search
MaaS360 Action	Example: MaaS360 Locate Device Workflow	Example: MaaS360 Locate Device
	Example: MaaS360 Lock Device Workflow	Example: MaaS360 Lock Device
	Example: MaaS360 Wipe Device Workflow	Example: MaaS360 Wipe Device
	Example: MaaS360 Cancel Pending Wipe Workflow	Example: MaaS360 Cancel Pending Wipe
	Example: MaaS360 Get Software Installed Workflow	Example: MaaS360 Get Software Installed
MaaS360 Stop App Distribution	Example: MaaS360 Stop App Distribution Workflow	Example: MaaS360 Stop App Distribution
MaaS360 Delete App	Example: MaaS360 Delete App Workflow	Example: MaaS360 Delete App
	Example: Create Artifact for App ID Script	Example: Create Artifact for App ID
	Example: Create Artifact for Device ID Script	Example: Create Artifact for Device ID

The package also requires that the following objects are created in the Resilient platform:

- Action fields:
 - Device Group ID
 - App type
 - Device ID
 - Device name
 - Email
 - Imei/Meid
 - Phone no
 - Platform name
 - Username
 - Target devices
- Data tables:
 - MaaS360 Device data table
 - MaaS360 Installed Software data table
- Incident artifact types:
 - MaaS360 App ID
 - MaaS360 Device ID

4. Custom layout

To use the functions, the Resilient playbook designer needs to create a new Incident tab containing the two data tables. The examples in this guide assume that the incident tab is named MaaS360. For example:



5. MaaS360 Basic Search function

The Basic Search function searches for MaaS360 devices by Device Name, Username, Phone Number, Platform, Device Status and other Device Identifiers. It supports partial match for Device Name, Username, and Phone Number.

The function uses the following input parameters:

- `maas360_partial_device_name`: Partial or full Device Name string to be used in the search.
- `maas360_partial_username`: Partial or full Username string to be used in the search.
- `maas360_partial_phone_no`: Partial or full Phone Number to be used in the search.
- `maas360_imei_meid`: Full IMEI or MEID of the device.
- `maas360_platform_name`: Name of the operating system, such as Windows, Mac, iOS, BlackBerry, Android, Windows Mobile, Symbian, Windows Phone 7 or Others.
- `maas360_device_id`: Full MaaS360 Device ID string to be used in the search.
- `maas360_email`: Full Email address string to be used in the search.

The input fields are populated by the workflow, “Example: MaaS360 Basic Search”. The workflow sets the function’s input fields to values a user provides as part of an action initiated by the rule, “Example: MaaS360 Basic Search”. For example:

Example: MaaS360 Basic Search

Search by one or multiple parameters

Partial device name ⓘ Jane's iPhone

Partial username ⓘ jane@example.com

Partial phone number ⓘ +16175000000

IMEI/MEID ⓘ 460272187173695

Platform name ⓘ —

Device ID ⓘ ApplD8DTH6RCIH86

Email ⓘ jane@example.com

Cancel Execute

The workflow uses the results to populate the “MaaS360 Device datatable”. For example:

maas360 Test

Actions

Summary

ID 2095
Phase Respond
Severity Low
Date Created
Date Occurred
Date Discovered
Was personal information or personal data involved?
Incident Type

Description

No description.

Tasks

Details

Breach

Notes

Members

News Feed

Attachments

Stats

Timeline

Artifacts

MaaS360

MaaS360

Edit

MaaS360 Device datatable

Search...

Print

Export

Timestamp	Device ID	Device Name	Username	Platform Name	Device Type	Last Reported	Device Status	
06/17/2019 11:05:23	Android8b56899eb426b2d6	jmn.maas360@gmail.com-STV100-1	jmn.maas360@gmail.com	Android	Smartphone	2019-04-23T16:11:23	Active	...
06/17/2019 11:05:23	Android20633c78e50f990a	jmn.maas360@gmail.com-SM-G925V	jmn.maas360@gmail.com	Android	Smartphone	2019-04-19T07:53:39	Active	...
06/17/2019 11:05:23	Android866e69616631e8aa	jmn.maas360@gmail.com-STV100-1	jmn.maas360@gmail.com	Android	Smartphone	2019-01-16T21:32:05	Inactive	...

Displaying 1 - 3 of 3

People

Created By
Owner
Members There are no members.

Related Incidents

No related incidents.

6. Create Artifact for Device ID Script

A user can execute the “Example: Create Artifact for Device ID” rule on selected row of “MaaS360 Device datatable”.

MaaS360

Edit

MaaS360 Device datatable

Search...

Print

Export

Timestamp	Device ID	Device Name	Username	Platform Name	Device Type	Last Reported	Device Status	
04/23/2019 10:13:22	Android8b56899eb426b2d6	jmn.maas360@gmail.com-STV100-1	jmn.maas360@gmail.com	Android	Smartphone	2019-04-23T16:11:23	Active	...

Displaying 1 - 1 of 1

Example: Create Artifact for Device ID

The rule initiates the “Example: Create Artifact for Device ID” script.

Customization Settings

Layouts
Rules
Scripts
Workflows
Functions
Message Destinations
Phases & Tasks
Incident Types
Breach
Artifacts

Scripts / Example: Create Artifact for Device ID
Cancel
Save & Close
Save

Name *
Example: Create Artifact for Device ID

Description
Script creates an Artifact for MaaS360 Device ID value based on the selected MaaS360 Device datatable row.

Object Type *
Data Table

Data table *
MaaS360 Device datatable

Creator
Resilient Sysadmin
Last Modified
04/04/2019 12:30
Last Modified By
Resilient Sysadmin
Associated Rules
Example: Create Artifact for Device ID

Language: Python Theme light Mode Default Tab Size 2 - Font + Font Run

```

1 # Create an Artifact for MaaS360 Device ID value based on the selected MaaS360 Device datatable row.
2
3 # Artifact description
4 artifact_description = u"""Created by MaaS360 Basic Search results for Device Name '{}', Username '{}', Platform name '{}', Device Type '{}'.format
5 row.maas360_devicename,
6 row.maas360_username,
7 row.maas360_platformname,
8 row.maas360_devicetype)
9
10 # Artifact type
11 artifact_type = "maas360_device_id"
12
13 # Artifact value
14 artifact_value = row.maas360_deviceid
15
16 # Create an Artifact
17 if artifact_value:
18     incident.addArtifact(artifact_type, artifact_value, artifact_description)
19

```

The script generates an artifact of type “Maas360 Device ID” in the Artifact tab.

Artifacts

Add Artifact
Table
Graph

Search...
Artifact Type: All
Date Created: All
Has Attachment: All

Show 25

Type	Value	Created	Relate?	Actions
MaaS360 Device Id	Android20633c78e50f990a	04/22/2019 07:22	As specified in the artifact type setti	

7. MaaS360 Action function

The Action function performs different actions based on the chosen rule. Available actions are:

- Get Software Installed,
- Locate Device,
- Lock Device,
- Wipe Device and
- Cancel Pending Wipe.

It uses two input parameters:


- `maas360_device_id`: Full MaaS360 Device ID string to be used in the search.
- `maas360_action_type`: Field that is automatically set based on the chosen workflow action.

One of the five MaaS360 action workflows sets the function's two input fields:

- `maas360_device_id` is mapped to the chosen artifact value.
- `maas360_action_type` is the chosen Workflow action.



Artifacts

Add Artifact Table Graph

Search... 

Artifact Type: All Date Created: All ▾ Has Attachment: All

Show 25 ▾

Type	Value	Created	Relate?	Actions
MaaS360 Device Id	Android20633c78e50f990a	04/22/2019 07:22	As specified in the artifact type setti ▾	 

Example: MaaS360 Cancel Pending Wipe

Example: MaaS360 Get Software Installed

Example: MaaS360 Locate Device

Example: MaaS360 Lock Device

Example: MaaS360 Wipe Device

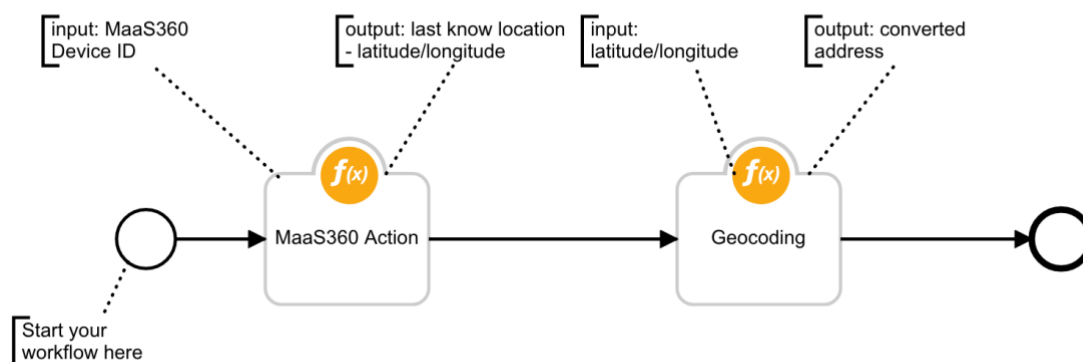
A user can select one of the actions to perform on the artifact:

- Example: Maas360 Get Software Installed Rule

The “Example: Maas360 Get Software Installed” rule has an Artifact object type. To perform a get software installed action, the user selects this rule to initiate the workflow. The “Example: MaaS360 Get Software Installed” workflow calls a function that retrieves a list of installed software for a device. The workflow uses the results to populate the “MaaS360 Installed Software datatable”.

- Example: MaaS360 Locate Device Rule

The “Example: MaaS360 Locate Device” rule has an Artifact object type. When users invokes this rule, it initiates the “Example: MaaS360 Locate Device” workflow. The workflow calls a function that performs a real-time lookup on Android devices or provides last known location on iOS and Windows Phone devices. The results are latitude and longitude information saved in the Notes tab. Users can chain this function with the Google Geocoding Functions for Resilient package, available on App Exchange, to provide conversion of address on latitude and longitude information.



- Example: MaaS360 Lock Device Rule

The “Example: MaaS360 Lock Device” rule has an Artifact object type. When selected, this rule initiates the “Example: MaaS360 Lock Device” workflow, which calls a function that locks the device. A note about action response is saved in the Notes tab.

- Example: MaaS360 Wipe Device Rule

The “Example: MaaS360 Wipe Device” rule has an Artifact object type. When selected, this rule initiates the “Example: MaaS360 Wipe Device” workflow, which calls a function that performs a remote wipe of the device. A note about action response is saved in the Notes tab.

- Example: MaaS360 Cancel Pending Wipe Rule

The “Example: MaaS360 Cancel Pending Wipe” rule has an Artifact object type. When selected, this rule initiates the “Example: MaaS360 Cancel Pending Wipe” workflow, which calls a function that cancels an outstanding Remote Wipe sent to the device. A note about action response is saved in the Notes tab.

8. Create Artifact for App ID Script

A user can execute the “Example: Create Artifact for App ID” rule on a selected row of the “MaaS360 Installed Software datatable”.

MaaS360 Installed Software datatable

Timestamp	Device ID	Last Data Refresh Date	App Name	App Version	App ID	
04/23/2019 10:08:20	Android20633c78e50f990a	2019-04-19T04:47:04	Hancom Office S Viewer	7.0.170227	com.hancom.office.viewer	...
04/23/2019 10:08:20	Android20633c78e50f990a	2019-04-19T04:47:04	Host	14.2.154	com.teamviewer.host.market	...
04/23/2019 10:08:20	Android20633c78e50f990a	2019-04-19T04:47:04	IMDb	7.8.5.107850500	com.imdb.mobile	...
04/23/2019 10:08:20	Android20633c78e50f990a	2019-04-19T04:47:04	IPsec Service	3.5	com.ipsec.service	...
04/23/2019 10:08:20	Android20633c78e50f990a	2019-04-19T04:47:04	Instagram	89.0.0.21.101	com.instagram.android	...
04/23/2019 10:08:20	Android20633c78e50f990a	2019-04-19T04:47:04	LLKAgent	2.0.03	com.verizon.llkagent	...
04/23/2019 10:08:20	Android20633c78e50f990a	2019-04-19T04:47:04	LocationServices	1	com.qualcomm.location	...
04/23/2019 10:08:20	Android20633c78e50f990a	2019-04-19T04:47:04	MaaS360	6.50	com.fiberlink.maas360.android.control	...
04/23/2019 10:08:20	Android20633c78e50f990a	2019-04-19T04:47:04	Message+	6.8.	g.vzmsgs	...
04/23/2019 10:08:20	Android20633c78e50f990a	2019-04-19T04:47:04	My InfoZone	2.2.22	com.vzw.hss.widgets.infozone	...

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Example: Create Artifact for App ID

The rule initiates the “Example: Create Artifact for Device ID” script.

Customization Settings

Layouts

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Functions

Message Destinations

Phases & Tasks

Incident Types

Breach

Artifacts

Scripts / Example: Create Artifact for App ID

Name *

Example: Create Artifact for App ID

Description

Script creates an Artifact for MaaS360 App ID value based on the selected MaaS360 Installed Software datatable row.

Object Type *

Data Table

Data table *

MaaS360 Installed Software datatable

Creator

Resilient Sysadmin

Last Modified

04/05/2019 05:02

Last Modified By

Resilient Sysadmin

Associated Rules

Example: Create Artifact for App ID

Language: Python

Theme: light

Mode: Default

Tab Size: 2

- Font

+ Font

Run

```
1 # Create an Artifact for MaaS360 App ID value based on the selected MaaS360 Installed Software datatable row.
2
3 # Artifact description
4 artifact_description = u"""Created by MaaS360 Get Software Installed results for Device ID '{}', App Name '{}', App Version '{}'.format(
5     row.maas360_app_device_id,
6     row.maas360_app_app_name,
7     row.maas360_app_app_version)
8
9 # Artifact type
10 artifact_type = "maas360_app_id"
11
12 # Artifact value
13 artifact_value = row.maas360_app_app_id
14
15 # Create an Artifact
16 if artifact_value:
17     incident.addArtifact(artifact_type, artifact_value, artifact_description)
18
```

The script generates an artifact of type “Maas360 Device ID” in Artifact tab.

Artifacts

Add Artifact

Table

Graph

Search...

Artifact Type: All Date Created: All Has Attachment: All

Show 25

Type	Value	Created	Relate?	Actions
MaaS360 App Id	com.ipsec.vpnclient	05/28/2019 09:13	As specified in the artifact type setti	
MaaS360 Device Id	Android20633c78e50f990a	04/22/2019 07:22	Example: MaaS360 Delete App Example: MaaS360 Stop App Distribution	

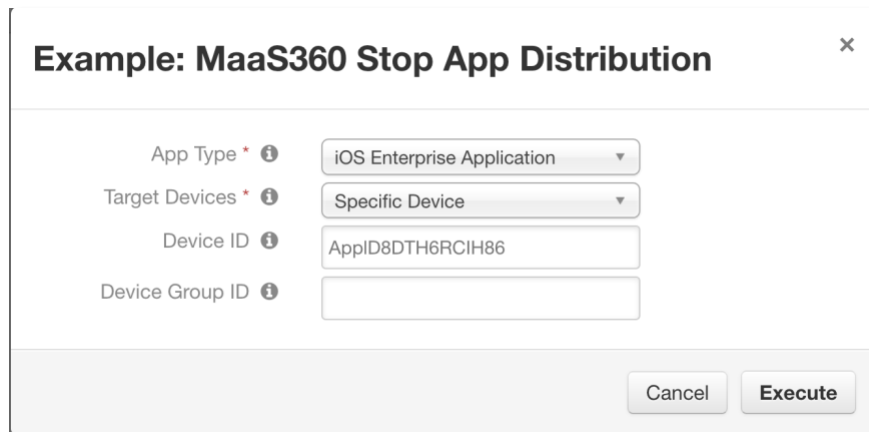
9. MaaS360 Stop App Distribution function

This function stops a distribution of an app across specific target devices. A distribution is a job scheduled to deploy an app from MaaS360 App Catalog to a group of users. Stopping a distribution cancels the distribution job. Optionally, the app could also be removed from the device (but this is dependent on how it was deployed initially and the type of device).

It uses the following input parameters:

- `maas360_app_type`: One of iOS Enterprise Application, iOS App Store Application, Android Enterprise Application, or Android Market Application.
- `maas360_app_id`: Unique ID of the application.
- `maas360_target_devices`: One of All Devices, Device Group, or Specific Device.
- `maas360_device_id`: Full MaaS360 Device ID string
- `maas360_device_group_id` is MaaS360 Device Group ID

The input fields are populated by the workflow, “Example: MaaS360 Stop App Distribution”. The workflow sets the function’s input fields to values a user provides as part of an action initiated by the rule, “Example: MaaS360 Stop App Distribution” available on the artifact. The “`maas360_app_id`” input field is mapped to the chosen artifact value. A note about action response is saved in Notes tab.



Example: MaaS360 Stop App Distribution ✕

App Type * ⓘ iOS Enterprise Application ▼

Target Devices * ⓘ Specific Device ▼

Device ID ⓘ AppID8DTH6RCIH86

Device Group ID ⓘ

Cancel Execute

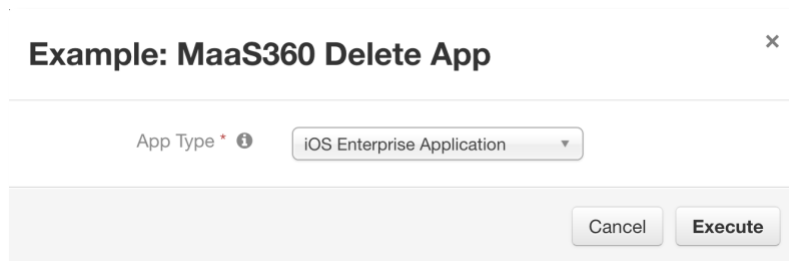
10. Delete App function

This function stops any existing distributions of the app and deletes the app from MaaS360 App Catalog. Stopping distributions cancels any existing distribution job, which in turn removes the app from the App Catalog (for user-initiated installs). Optionally, the app could also be removed from the device (but this is dependent on how it was deployed initially and the type of device). It cannot be distributed to anyone if it has been deleted.

It uses two input parameters:

- `maas360_app_type`: One of iOS Enterprise Application, iOS App Store Application, Android Enterprise Application, or Android Market Application.
- `maas360_app_id`: Unique ID of the application.

The input fields are populated by the workflow, “Example: MaaS360 Delete App”. The workflow sets the function’s input fields to values a user provides as part of an action initiated by the rule, “Example: MaaS360 Delete App” available on the artifact. The “`maas360_app_id`” input field is mapped to the chosen artifact value. A note about action response is saved in Notes tab.



Example: MaaS360 Delete App

App Type * ⓘ iOS Enterprise Application ▼

Cancel Execute