

MaaS360 Functions for IBM Resilient

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Release Notes

v1.0.1

- Added App Host support

v1.0.0

- Initial Release

Overview

This package enables Mobile Device Management (MDM) actions from IBM Resilient.

Customization Settings

LayoutsRulesScriptsWorkflowsFunctionsMessage DestinationsPhases & TasksIncident TypesBreachArtifacts

Workflows

New Workflow

Search...

Workflow Name	Description	Object Type	Rules
Example: MaaS360 Basic Search	Workflow calls a function that searches for devices by Device Name, Username, Phone Number, Platform, Device Status and other Device Identifiers.	Incident	Example: MaaS360 Basic Search
Example: MaaS360 Cancel Pending Wipe	Workflow calls a function that cancels outstanding Remote Wipe sent to the device.	Artifact	Example: MaaS360 Cancel Pending Wipe
Example: MaaS360 Delete App	Workflow calls a function that stops all distributions of the app and deletes the app.	Artifact	Example: MaaS360 Delete App
Example: MaaS360 Get Software Installed	Workflow calls a function that gets installed software for a device.	Artifact	Example: MaaS360 Get Software Installed
Example: MaaS360 Locate Device	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 is latitude and longitude information.	Artifact	Example: MaaS360 Locate Device
Example: MaaS360 Lock Device	Workflow calls a function that locks the device.	Artifact	Example: MaaS360 Lock Device
Example: MaaS360 Stop App Distribution	Workflow calls a function that stops a specific distribution of an app on target devices.	Artifact	Example: MaaS360 Stop App Distribution
Example: MaaS360 Wipe Device	Workflow calls a function that performs a remote Wipe of the device.	Artifact	Example: MaaS360 Wipe Device

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.

Installation

Requirements

- Resilient platform >= v35.0.0
- App Host >= v1.2.132 (if using App Host)
 - To setup up an App Host see: [ibm.biz/res-app-host-setup](#)
- An Integration Server running `resilient_circuits`>=35.0.0 (if using an Integration Server)
 - To set up an Integration Server see: [ibm.biz/res-int-server-guide](#)
 - If using an API key account, minimum required permissions are:

Name	Permissions
Org Data	Read
Function	Read

- Proxy supported: Yes

Install

- To install or uninstall an App using the App Host see ibm.biz/res-install-app
- To install or uninstall an Integration using the Integration Server see the ibm.biz/res-install-int

App Configuration

The following table describes the settings you need to configure in the app.config file. If using App Host, see the Resilient System Administrator Guide. If using the integration server, see the Integration Server Guide.

Config	Required	Example	Description
maas360_host_url	Yes	https://xxxx.maas360.com	The URL of your MaaS360 instance
maas360_billing_id	Yes	30000001	The billing or account ID for your MaaS360 Account
maas360_platform_id	Yes	2	The platform ID of your MaaS360 instance. Can be seen when you create an Access Key
maas360_app_id	Yes	30000001_QS1Uuu5	The App ID of the Access Key. For help on managing Access Keys for your MaaS360 instance refer to www.ibm.com/support/knowledgecenter/
maas360_app_version	Yes	1.0	The App Version when creating the Access Key. <i>Generally 1</i>
maas360_app_access_key	Yes	Gjxdrwyw008	The Access Key
maas360_username	Yes	username	The username used to login to the MaaS360 instance
maas360_password	Yes	password	The password for the account used to login to the MaaS360 instance
maas360_request_timeout	No	60	The number of seconds to timeout after making a request to MaaS360. If you are seeing read timeout=30 error you can override the timeout value
maas360_basic_search_page_size	Yes	25	Limit number of devices returned at one time. Allowed page sizes: 25, 50, 100, 200, 250. Default value: 250
maas360_basic_search_match	No	0	When set to 0 (Default) indicates Partial match for Device Name, Username, Phone Number. When set to 1 indicates Exact match.
maas360_basic_search_sort_attribute	No	lastReported	Sort attribute. Possible values: lastReported (Default) or installedDate
maas360_basic_search_sort_order	No	dsc	Sort Order. Possible values: asc or dsc (Default)
maas360_wipe_device_notify_me	Yes	Yes	Whether to notify the administrator on successful device wipe. yes value enables this flag
maas360_wipe_device_notify_user	Yes	No	Whether to notify the user on successful device wipe. yes value enables this flag.

Config	Required	Example	Description
maas360_wipe_device_notify_others	Yes	example1@example.com, example2@example.com	Comma separated list of other email addresses to notify on successful device wipe

Custom Layouts

- A new incident tab is needed in the Layouts section of the Resilient platform to contain two custom data tables like the screenshot below:

Customization Settings

Function - MaaS360 Basic Search

Function searches for devices by Device Name, Username, Phone Number, Platform, Device Status and other Device Identifiers.

Customization Settings

Name *

Example: MaaS360 Basic Search

API Name *

example_maas360_basic_search

Description

Workflow calls a function that searches for devices by Device Name, Username, Phone Number, Platform, Device Status and other Device Identifiers.

Object Type *

Incident

Creator

Local Integration Server

Last Modified

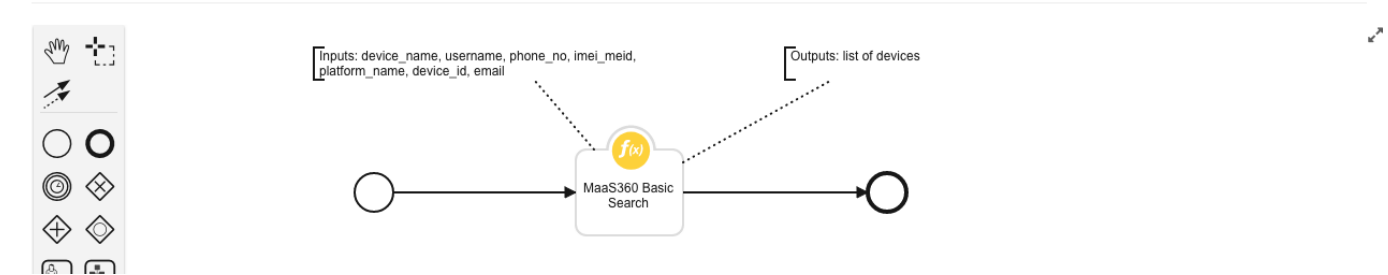
05/10/2020 14:04

Last Modified By

Local Integration Server

Associated Rules

Example: MaaS360 Basic Search



Inputs:

Name	Type	Required	Example	Tooltip
maas360_device_id	text	No	AppID8DTH6RCIH86	Full MaaS360 Device ID string that needs to be searched for
maas360_email	text	No	jane@example.com	Full Email address string that needs to be searched for
maas360_imei_meid	text	No	460272187173695	Full IMEI or MEID of the device
maas360_partial_device_name	text	No	Jane's iPhone	Partial (Starts with) or full Device Name string that needs to be searched for
maas360_partial_phone_no	text	No	+16175000000	Partial (Starts with) or full Phone Number that needs to be searched for
maas360_partial_username	text	No	jane@example.com	Partial (Starts with) or full Username string that needs to be searched for
maas360_platform_name	select	No	—	Windows, Mac, iOS, BlackBerry, Android, Windows Mobile, Symbian, Windows Phone 7, Others

Outputs:

```
results = {
  "content": {
    "count": 1,
    "device": {
      "appComplianceState": "In Compliance",
      "customAssetNumber": "",
      "deviceName": "dummy_device@gmail.com-STV100-1",
      "deviceOwner": "",
      "deviceStatus": "Active",
      "deviceType": "Smartphone",
      "emailAddress": "dummy_device@gmail.com",
      "encryptionStatus": "Encryption Complete",
```

```

    "firstRegisteredInEpochms": 1549629133338,
    "imeiEsn": 351623070066166,
    "installedDate": "2019-02-08T12:32:13",
    "installedDateInEpochms": 1549629133338,
    "isSupervisedDevice": False,
    "jailbreakStatus": "No",
    "lastMdmRegisteredInEpochms": 1549629133378,
    "lastRegisteredInEpochms": 1549629133338,
    "lastReported": "2019-04-23T16:11:23",
    "lastReportedInEpochms": 1556035883843,
    "maas360DeviceID": "Androiddeviceid",
    "maas360ManagedStatus": "Enrolled",
    "mailboxDeviceId": "",
    "mailboxLastReported": "",
    "mailboxLastReportedInEpochms": "",
    "mailboxManaged": "",
    "manufacturer": "blackberry",
    "mdmMailboxDeviceId": "",
    "model": "STV100-1",
    "osName": "Android 6.0.1 (MMB29M)",
    "osServicePack": "",
    "osVersion": "6.0.1",
    "ownership": "Corporate Owned",
    "passcodeCompliance": "Compliant",
    "phoneNumber": "",
    "platformName": "Android",
    "policyComplianceState": "In Compliance",
    "ruleComplianceState": "",
    "selectiveWipeStatus": "N/a",
    "sourceID": 1,
    "testDevice": False,
    "udid": "Androiddeviceid",
    "unifiedTravelerDeviceId": "Androiddeviceid",
    "userDomain": "gmail.com",
    "username": "dummy_device@gmail.com",
    "wifiMacAddress": "a4:e4:b8:73:a1:93"
  },
  "pageNumber": 1,
  "pageSize": 1
},
"inputs": {
  "maas360_device_id": "Androiddeviceid",
  "maas360_email": None,
  "maas360_imei_meid": None,
  "maas360_partial_device_name": None,
  "maas360_partial_phone_no": None,
  "maas360_partial_username": None,
  "maas360_platform_name": None
},
"metrics": {
  "execution_time_ms": 9864,
  "host": "host",
  "package": "fn-maas360",
  "package_version": "1.0.0",
  "timestamp": "2019-05-13 13:21:40",
  "version": "1.0"
},
"raw": "raw_json_string",
"reason": None,
"success": True,
"version": "1.0"
}

```

- Workflows
- Example Pre-Process Script:

```
inputs.maas360_device_id = rule.properties.maas360_rule_device_id if
rule.properties.maas360_rule_device_id is not None else inputs.maas360_device_id
inputs.maas360_partial_device_name = rule.properties.maas360_rule_device_name if
rule.properties.maas360_rule_device_name is not None else inputs.maas360_partial_device_name
inputs.maas360_email = rule.properties.maas360_rule_email if
rule.properties.maas360_rule_email is not None else inputs.maas360_email
inputs.maas360_imei_meid = rule.properties.maas360_rule_imei_meid if
rule.properties.maas360_rule_imei_meid is not None else inputs.maas360_imei_meid
inputs.maas360_partial_phone_no = rule.properties.maas360_rule_phone_no if
rule.properties.maas360_rule_phone_no is not None else inputs.maas360_partial_phone_no
inputs.maas360_platform_name = rule.properties.maas360_rule_platform_name if
rule.properties.maas360_rule_platform_name is not None else inputs.maas360_platform_name
inputs.maas360_partial_username = rule.properties.maas360_rule_username if
rule.properties.maas360_rule_username is not None else inputs.maas360_partial_username
```

- Example Post-Process Script:

```
from java.util import Date

def add_row(device):
    device_dt = incident.addRow("maas360_device_dt")
    device_dt.maas360_timestamp = Date()
    device_dt.maas360_deviceid = device.get("maas360DeviceID")
    device_dt.maas360_devicename = device.get("deviceName")
    device_dt.maas360_username = device.get("username")
    device_dt.maas360_platformname = device.get("platformName")
    device_dt.maas360_devicetype = device.get("deviceType")
    device_dt.maas360_lastreported = device.get("lastReported")
    device_dt.maas360_devicestatus = device.get("deviceStatus")

# Print empty string instead of None
def string_value(value):
    return value if value is not None else ""

def add_results_note(inputs, number_devices_found):
    noteText = u"{} device/s found in MaaS360 database with search parameters:
    - partialDeviceName: '{} '
    - partialUsername: '{} '
    - partialPhoneNumber: '{} '
    - imeiMeid: '{} '
    - platformName: '{} '
    - maas360DeviceId: '{} '
    - email: '{} '"".format(
        number_devices_found,
        string_value(inputs.get("maas360_partial_device_name")),
        string_value(inputs.get("maas360_partial_username")),
        string_value(inputs.get("maas360_partial_phone_no")),
        string_value(inputs.get("maas360_imei_meid")),
        string_value(inputs.get("maas360_platform_name").get("name")) if
inputs.get("maas360_platform_name") else "",
        string_value(inputs.get("maas360_device_id")),
        string_value(inputs.get("maas360_email"))
    )
    incident.addNote(noteText)

#####
# Mainline starts here #
#####
```

```

if results and results.get("success"):
    count = 0
    content = results.get("content")
    if content:
        count = content.get("count")
        if count > 0:
            # Add a row for each Device found
            devices_list = [content.get("device")] if count == 1 else content.get("device")
            map(lambda device: add_row(device), devices_list)

# Write results to a Note
inputs = results.get("inputs")
add_results_note(inputs, count)

```

Function - MaaS360 Action

MaaS360 Function performs different actions based on the chosen Menu Item Rule.

Available actions are:

- Locate Device
- Get Software Installed
- Lock Device
- Wipe Device
- Cancel Pending Wipe

Dashboards ▾
Inbox
Incidents
Create ▾
Admin User
Test Organization ▾

Customization Settings

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

Workflows / Example: MaaS360 Locate Device

Cancel
Save & Close
Save

Name *

API Name *

Description

Object Type *

Creator Local Integration Server
 Last Modified 05/10/2020 14:04
 Last Modified By Local Integration Server
 Associated Rules Example: MaaS360 Locate Device

```

graph LR
    Input(( )) -- "Inputs: device_id" --> Action[MaaS360 Action]
    Action -- "Outputs: latitude/longitude information regarding a devices last know location" --> Output(( ))
    
```

► Inputs:

Name	Type	Required	Example	Tooltip
maas360_action_type	select	Yes	—	Action Type field is automatically set based on the chosen Workflow action.
maas360_device_id	text	No	ApplD8DTH6RCIH86	Full MaaS360 Device ID string that needs to be searched for

MaaS360 Action - Locate Device

► Outputs:

```

results = {
  "content": {
    "actionStatus": 0,
    "description": "The action was executed successfully on the device.",
    "latitude": 25.005112,
    "locatedTime": "2019-05-13 17:45:12.0",
    "longitude": 121.541535,
    "maas360DeviceID": "deviceid"
  },
  "inputs": {
    "maas360_action_type": {
      "id": 202,
      "name": "Locate Device"
    },
    "maas360_device_id": "deviceid"
  },
  "metrics": {
    "execution_time_ms": 951,
    "host": "host",
    "package": "fn-maas360",
    "package_version": "1.0.0",
    "timestamp": "2019-05-13 15:18:51",
    "version": "1.0"
  },
  "raw": "raw_json_string",
  "reason": None,
  "success": True,
  "version": "1.0"
}

```

► Example Pre-Process Script:

```
inputs.maas360_device_id = artifact.value
```

► Example Post-Process Script:

```

#####
# Mainline starts here #
#####

if results and results.get("success"):
    content = results.get("content")
    if content:
        latitude = content.get("latitude")
        longitude = content.get("longitude")
        device_id = content.get("maas360DeviceID")

        if latitude and longitude:
            noteText = u"Current or last know location for Device ID {} is {} latitude, {} longitude.".format(device_id, latitude, longitude)
            incident.addNote(noteText)
        else:
            noteText = u"There is no current or last know location available for Device ID {}".format(device_id)
            incident.addNote(noteText)

```

MaaS360 Action - Get Software Installed

► Outputs:

```
results = {
  "content": {
    "deviceSw": [
      {
        "swAttrs": [
          {
            "key": "Application ID",
            "type": "string",
            "value": "com.fiberlink.maas360forios"
          },
          {
            "key": "Version",
            "type": "string",
            "value": 3.70.111
          },
          {
            "key": "AppDataSize",
            "type": "string",
            "value": 3.79
          },
          {
            "key": "File Size",
            "type": "string",
            "value": 175.18
          },
          {
            "key": "Installed by MDM",
            "type": "string",
            "value": "Manage Status"
          }
        ],
        "swName": "MaaS360"
      },
      {
        "swAttrs": [
          {
            "key": "Application ID",
            "type": "string",
            "value": "com.blackberry.ddt.bugreporter"
          },
          {
            "key": "Version",
            "type": "string",
            "value": 1
          },
          {
            "key": "AppDataSize",
            "type": "string",
            "value": 0
          },
          {
            "key": "File Size",
            "type": "string",
            "value": 0
          },
          {
            "key": "Install Location",
            "type": "string",

```

```

        "value": "Internal"
    },
    ],
    "swName": "BlackBerry Bug Reporter"
},
],
"lastSoftwareDataRefreshDate": "2019-04-18T00:13:07",
"maas360DeviceID": "deviceid"
},
"inputs": {
    "maas360_action_type": {
        "id": 201,
        "name": "Get Software Installed"
    },
    "maas360_device_id": "deviceid"
},
"metrics": {
    "execution_time_ms": 13019,
    "host": "host",
    "package": "fn-maas360",
    "package_version": "1.0.0",
    "timestamp": "2019-05-13 13:48:43",
    "version": "1.0"
},
"raw": "raw_json_string",
"reason": None,
"success": True,
"version": "1.0"
}

```

► Example Pre-Process Script:

```
inputs.maas360_device_id = artifact.value
```

► Example Post-Process Script:

```

from java.util import Date

def add_row(device_id, app_name, app_version, app_id, refresh_date):
    app_dt = incident.addRow("maas360_installed_software_datatable")
    app_dt.maas360_app_timestamp = Date()
    app_dt.maas360_app_device_id = device_id
    app_dt.maas360_app_app_name = app_name
    app_dt.maas360_app_app_version = app_version
    app_dt.maas360_app_app_id = app_id
    app_dt.maas360_app_lastSoftwareDataRefreshDate = refresh_date

#####
# Mainline starts here #
#####

if results and results.get("success"):
    content = results.get("content")
    if content:
        device_id = content.get("maas360DeviceID")
        refresh_date = content.get("lastSoftwareDataRefreshDate")

        found_apps = False
        apps = content.get("deviceSw")
        if apps:

```

```

    for app in apps:
        if app:
            app_Name = app.get("swName")
            app_attrs = app.get("swAttrs")
            if app_Name and app_attrs:
                app_version_attr = filter(lambda att: att["key"] == 'Version', app_attrs)
                # filter returns a list [{u'type': u'string', u'key': u'Version', u'value':
u'3.70.111'}]
                app_version = str(app_version_attr[0].get("value")) if app_version_attr else
"N/A"

                app_app_id_attr = filter(lambda att: att["key"] == 'Application ID', app_attrs)
                # filter returns a list [{u'type': u'string', u'key': u'Application ID',
u'value': u'com.fiberlink.maas360forios'}]
                app_id = app_app_id_attr[0].get("value") if app_app_id_attr else "N/A"

                # write results in the app datatable
                add_row(device_id, app_Name, app_version, app_id, refresh_date)
                found_apps = True

    if found_apps:
        noteText = u"Installed software was found for the Device ID {} and saved in the MaaS360
Installed Software datatable".format(device_id)
        incident.addNote(noteText)
    else:
        noteText = u"No installed software found for the Device ID {}".format(device_id)
        incident.addNote(noteText)

```

MaaS360 Action - Lock Device

► Outputs:

```

results = {
    "content": {
        "actionID": 128294549,
        "actionStatus": 0,
        "description": "The action was executed successfully on the device.",
        "maas360DeviceID": "deviceid"
    },
    "inputs": {
        "maas360_action_type": {
            "id": 203,
            "name": "Lock Device"
        },
        "maas360_device_id": "deviceid"
    },
    "metrics": {
        "execution_time_ms": 558,
        "host": "host",
        "package": "fn-maas360",
        "package_version": "1.0.0",
        "timestamp": "2019-05-13 15:27:03",
        "version": "1.0"
    },
    "raw": "raw_json_string",
    "reason": None,
    "success": True,
    "version": "1.0"
}

```

► Example Pre-Process Script:

```
inputs.maas360_device_id = artifact.value
```

► Example Post-Process Script:

```
#####
# Mainline starts here #
#####

if results and results.get("success"):
    content = results.get("content")
    if content:
        noteText = u"Lock Device for Device ID: {}. {}".format(content.get("maas360DeviceID"),
content.get("description"))
        incident.addNote(noteText)
```

MaaS360 Action - Wipe Device

► Outputs:

```
results = {
    "content": {
        "actionID": 128294800,
        "actionStatus": 0,
        "description": "The action was executed successfully on the device.",
        "maas360DeviceID": "deviceid"
    },
    "inputs": {
        "maas360_action_type": {
            "id": 205,
            "name": "Cancel Pending Wipe"
        },
        "maas360_device_id": "deviceid"
    },
    "metrics": {
        "execution_time_ms": 915,
        "host": "host",
        "package": "fn-maas360",
        "package_version": "1.0.0",
        "timestamp": "2019-05-13 15:30:52",
        "version": "1.0"
    },
    "raw": "raw_json_string",
    "reason": None,
    "success": True,
    "version": "1.0"
}
```

► Example Pre-Process Script:

```
inputs.maas360_device_id = artifact.value
```

► Example Post-Process Script:

Function - MaaS360 Stop App Distribution



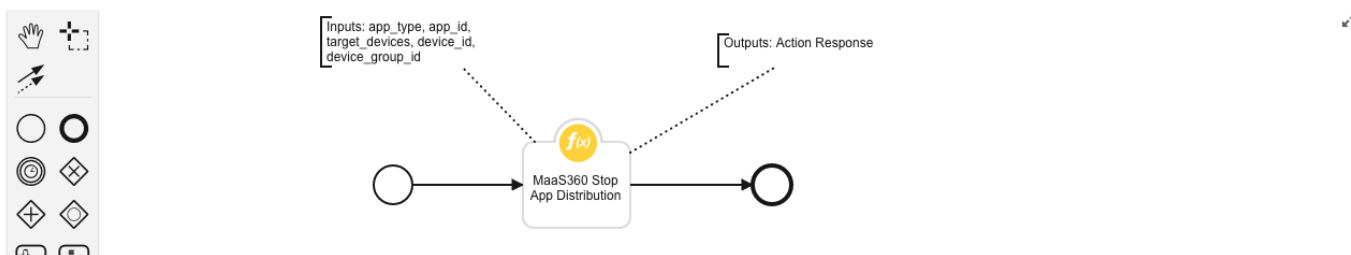
[Dashboards](#)
[Inbox](#)
[Incidents](#)
[Create](#)

[Admin User](#)
[Test Organization](#)

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

Cancel Save & Close Save

Creator	Local Integration Server
Last Modified	05/10/2020 14:04
Last Modified By	Local Integration Server
Associated Rules	Example: MaaS360 Stop App Distribution



Name	Type	Required	Example	Tooltip
maas360_app_id	text	No	com.fiberlink.maas360forios	Unique ID of the application
maas360_app_type	select	Yes	–	Type of the app
maas360_device_group_id	text	No	–	MaaS360 Device Group ID
maas360_device_id	text	No	ApplD8DTH6RCIH86	Full MaaS360 Device ID string that needs to be searched for
maas360_target_devices	select	Yes	–	Target Devices

```
results = {
  "content": {
    "description": "Distribution stopped successfully.",
    "status": "Success"
  },
}
```

```

    "inputs": {
        "maas360_app_id": "com.some.app",
        "maas360_app_type": {
            "id": 250,
            "name": "iOS Enterprise Application"
        },
        "maas360_device_group_id": None,
        "maas360_device_id": "deviceid",
        "maas360_target_devices": {
            "id": 352,
            "name": "Specific Device"
        }
    },
    "metrics": {
        "execution_time_ms": 11353,
        "host": "host",
        "package": "fn-maas360",
        "package_version": "1.0.0",
        "timestamp": "2019-05-16 10:23:59",
        "version": "1.0"
    },
    "raw": "{\"status\": \"Success\", \"description\": \"Distribution stopped successfully.\"}",
    "reason": None,
    "success": True,
    "version": "1.0"
}

```

► Workflows

► Example Pre-Process Script:

```

inputs.maas360_app_type = rule.properties.maas360_rule_app_type if
rule.properties.maas360_rule_app_type is not None else inputs.maas360_app_type
inputs.maas360_app_id = artifact.value
inputs.maas360_target_devices = rule.properties.maas360_target_devices if
rule.properties.maas360_target_devices is not None else inputs.maas360_target_devices
inputs.maas360_device_id = rule.properties.maas360_rule_device_id if
rule.properties.maas360_rule_device_id is not None else inputs.maas360_device_id
inputs.maas360_device_group_id = rule.properties.maas360_device_group_id if
rule.properties.maas360_device_group_id is not None else inputs.maas360_device_group_id

```

► Example Post-Process Script:

```

# Print empty string instead of None
def string_value(value):
    return value if value is not None else ""

def add_results_note(inputs, response_desc):
    noteText = u""""Stop App Distribution - {} for input params:
    - appId: '{}'
    - appType: '{}'
    - targetDevices: '{}'
    - deviceId: '{}'
    - deviceGroupId: '{}'.format(
        response_desc,
        inputs.get("maas360_app_id"),
        inputs.get("maas360_app_type").name,
        inputs.get("maas360_target_devices").name,
        string_value(inputs.get("maas360_device_id")),
        string_value(inputs.get("maas360_device_group_id"))
    """

```

```
)
incident.addNote(noteText)

#####
# Mainline starts here #
#####

if results and results.get("success"):
    content = results.get("content")
    if content:
        # Write results to a Note
        inputs = results.get("inputs")
        add_results_note(inputs, content.get("description"))
```

Function - MaaS360 Delete App

Function stops all distributions of the app and deletes the app.

resilient

Dashboards

Inbox

Incidents

Create

Admin User

Test Organization

Customization Settings

Layouts

Rules

Scripts

Workflows

Functions

Message Destinations

Phases & Tasks

Incident Types

Breach

Artifacts

Workflows / Example: MaaS360 Delete App

Name *

Example: MaaS360 Delete App

API Name *

example_maas360_delete_app

Description

Workflow calls a function that stops all distributions of the app and deletes the app.

Object Type *

Artifact

Creator

Local Integration Server

Last Modified

05/10/2020 14:04

Last Modified By

Local Integration Server

Associated Rules

Example: MaaS360 Delete App

Inputs: app_type, app_id

Outputs: Action Response

Workflow Diagram

► Inputs:

Name	Type	Required	Example	Tooltip
maas360_app_id	text	No	com.fiberlink.maas360forios	Unique ID of the application
maas360_app_type	select	Yes	–	Type of the app

► Outputs:

```
results = {
    "content": {
        "description": "Application deleted successfully.",
        "status": "Success"
    },
    "inputs": {
        "maas360_app_id": "com.some.app",
        "maas360_app_type": {
            "id": 251,
```



```

        "name": "iOS App Store Application"
    },
    "metrics": {
        "execution_time_ms": 16402,
        "host": "host",
        "package": "fn-maas360",
        "package_version": "1.0.0",
        "timestamp": "2019-05-16 10:34:50",
        "version": "1.0"
    },
    "raw": "{\"status\": \"Success\", \"description\": \"Application deleted successfully.\"}",
    "reason": None,
    "success": True,
    "version": "1.0"
}

```

► Workflows

► Example Pre-Process Script:

```

inputs.maas360_app_type = rule.properties.maas360_rule_app_type if
rule.properties.maas360_rule_app_type is not None else inputs.maas360_app_type
inputs.maas360_app_id = artifact.value

```

► Example Post-Process Script:

```

# Print empty string instead of None
def string_value(value):
    return value if value is not None else ""

def add_results_note(inputs, response_desc):
    noteText = u""""Delete App - {} for input params:
    - appId: '{}'
    - appType: '{}''"".format(
        response_desc,
        inputs.get("maas360_app_id"),
        inputs.get("maas360_app_type").name
    )
    incident.addNote(noteText)

#####
# Mainline starts here #
#####

if results and results.get("success"):
    content = results.get("content")
    if content:
        # Write results to a Note
        inputs = results.get("inputs")
        add_results_note(inputs, content.get("description"))

```

Script - Example: Create Artifact for Device ID

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

Object: maas360_device_dt

► Script Text:

```
# Create an Artifact for MaaS360 Device ID value based on the selected MaaS360 Device
datatable row.

# Artifact description
artifact_description = u""""Created by MaaS360 Basic Search results for Device Name '{}',
Username '{}', Platform name '{}', Device Type '{}'''"".format(
    row.maas360_devicename,
    row.maas360_username,
    row.maas360_platformname,
    row.maas360_devicetype)

# Artifact type
artifact_type = "maas360_device_id"

# Artifact value
artifact_value = row.maas360_deviceid

# Create an Artifact
if artifact_value:
    incident.addArtifact(artifact_type, artifact_value, artifact_description)
```

Script - Example: Create Artifact for App ID

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

Object: maas360_installed_software_datatable

► Script Text:

```
# Create an Artifact for MaaS360 App ID value based on the selected MaaS360 Installed
Software datatable row.

# Artifact description
artifact_description = u""""Created by MaaS360 Get Software Installed results for Device ID
'{}', App Name '{}', App Version '{}'''"".format(
    row.maas360_app_device_id,
    row.maas360_app_app_name,
    row.maas360_app_app_version)

# Artifact type
artifact_type = "maas360_app_id"

# Artifact value
artifact_value = row.maas360_app_app_id

# Create an Artifact
if artifact_value:
    incident.addArtifact(artifact_type, artifact_value, artifact_description)
```

Data Table - MaaS360 Installed Software datatable

EmailMaaS360

Edit

MaaS360 Device datatable

Search...

PrintExport

Timestamp	Device ID	Device Name	Username	Platform Name	Device Type	Last Reported	Device Status
05/10/2020 16:09:04	Androidea497b88f6d8129f	mgarcia-PRA-LX1	mgarcia	Android	Smartphone	2020-06-08 T21:20:57	Active
05/10/2020 16:09:04	Androidd83471cbf7e5664c	mgarcia-PRA-LX1	mgarcia	Android	Smartphone	2019-09-09 T10:46:08	Inactive
05/10/2020 16:09:04	lxkb	mgarcia-Lumia 550	mgarcia	Windows Phone	Smartphone	2019-03-19 T17:02:53	Inactive
05/10/2020 16:09:04	Androida9d56ee4e9a263e0	mgarcia-LG-M160	mgarcia	Android	Smartphone	2018-12-07 T11:36:16	Inactive
05/10/2020 16:09:04	Androidf2aeb2f213c2aa9e	mgarcia-XT2	mgarcia	Android	Tablet	2018-11-26 T11:12:36	Inactive

Displaying 1 - 5 of 5

MaaS360 Installed Software datatable

Search...

PrintExport

Timestamp	Device ID	Last Data Refresh Date	App Name	App Version	App ID
05/10/2020 16:09:58	zvkoI	2018-10-11T15:27:11	MaaS360	2.8.1.1	4c8ed3ec-fef2-4906-bae5-20d1b0f399cb

Displaying 1 - 1 of 1

Date Occurred

—

Date Discovered

05/10/2020 16:03

Date Determined

05/10/2020 16:03

Was personal information or personal data involved?

Unknown

Incident Type

Phishing

People

Created ByAdmin User

OwnerAdmin User

MembersThere are no members.

Related Incidents

No related incidents.

Attachments

There are no attachments.

Newsfeed

Admin User deleted a row from the Data Table MaaS360 Device datatable 08/10/2020 10:41:27

Admin User deleted a row from the Data Table MaaS360 Device datatable 08/10/2020 10:41:26

Admin User deleted a row from the Data Table

API Name:

maas360_installed_software_datatable

Columns:

Column Name	API Access Name	Type	Tooltip
App ID	maas360_app_app_id	text	-
App Name	maas360_app_app_name	text	-
App Version	maas360_app_app_version	text	-
Device ID	maas360_app_device_id	text	-
Last Data Refresh Date	maas360_app_lastSoftwareDataRefreshDate	text	-
Timestamp	maas360_app_timestamp	datetimepicker	-

Data Table - MaaS360 Device datatable

EmailMaaS360

Edit

MaaS360 Device datatable

Search...PrintExport

Timestamp	Device ID	Device Name	Username	Platform Name	Device Type	Last Reported	Device Status
05/10/2020 16:09:04	Androidea497b88f6d8129f	mgarcia-PRA-LX1	mgarcia	Android	Smartphone	2020-06-08 T21:20:57	Active
05/10/2020 16:09:04	Androidd83471cbf7e5664c	mgarcia-PRA-LX1	mgarcia	Android	Smartphone	2019-09-09 T10:46:08	Inactive
05/10/2020 16:09:04	lxkb	mgarcia-Lumia 550	mgarcia	Windows Phone	Smartphone	2019-03-19 T17:02:53	Inactive
05/10/2020 16:09:04	Androida9d56ee4e9a263e0	mgarcia-LG-M160	mgarcia	Android	Smartphone	2018-12-07 T11:36:16	Inactive
05/10/2020 16:09:04	Androidf2aeb2f213c2aa9e	mgarcia-XT2	mgarcia	Android	Tablet	2018-11-26 T11:12:36	Inactive

Displaying 1 - 5 of 5

MaaS360 Installed Software datatable

Search...PrintExport

Timestamp	Device ID	Last Data Refresh Date	App Name	App Version	App ID
05/10/2020 16:09:58	zvkoI	2018-10-11T15:27:11	MaaS360	2.8.1.1	4c8ed3ec-fef2-4906-bae5-20d1b0f399cb

Displaying 1 - 1 of 1

Date Occurred

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Date Discovered

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Was personal information or personal data involved?

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Admin User deleted a row from the Data Table MaaS360 Device datatable 08/10/2020 10:41:26

Admin User deleted a row from the Data Table

API Name:

maas360_device_dt

Columns:

Column Name	API Access Name	Type	Tooltip
Device ID	maas360_deviceid	text	-
Device Name	maas360_devicename	text	-
Device Status	maas360_devicestatus	text	-
Device Type	maas360_devicetype	text	-
Last Reported	maas360_lastreported	text	-
Platform Name	maas360_platformname	text	-
Timestamp	maas360_timestamp	datetimepicker	-
Username	maas360_username	text	-

Custom Artifact Types

Display Name	API Access Name	Description
MaaS360 App Id	maas360_app_id	Unique ID of the application
MaaS360 Device Id	maas360_device_id	MaaS360 Device ID string

Rules

Rule Name	Object	Workflow/Script Triggered
Example: MaaS360 Lock Device	artifact	example_maas360_lock_device

Rule Name	Object	Workflow/Script Triggered
Example: MaaS360 Cancel Pending Wipe	artifact	example_maas360_cancel_pending_wipe
Example: MaaS360 Basic Search	incident	example_maas360_basic_search
Example: MaaS360 Get Software Installed	artifact	example_maas360_get_software_installed
Example: MaaS360 Stop App Distribution	artifact	example_maas360_stop_app_distribution
Example: Create Artifact for Device ID	maas360_device_dt	"Example: Create Artifact for Device ID"
Example: MaaS360 Locate Device	artifact	example_maas360_locate_device
Example: MaaS360 Delete App	artifact	example_maas360_delete_app
Example: MaaS360 Wipe Device	artifact	example_maas360_wipe_device
Example: Create Artifact for App ID	maas360_installed_software_datatable	"Example: Create Artifact for App ID"

Troubleshooting & Support

If using the app with an App Host, see the Resilient System Administrator Guide and the App Host Deployment Guide for troubleshooting procedures. You can find these guides on the [IBM Knowledge Center](#), where you can select which version of the Resilient platform you are using.

If using the app with an integration server, see the [Integration Server Guide](#)

For Support

This is an IBM Supported app. Please search <https://ibm.com/mysupport> for assistance.