README.md

User Guide: fn_proofpoint_tap_v1.0.0

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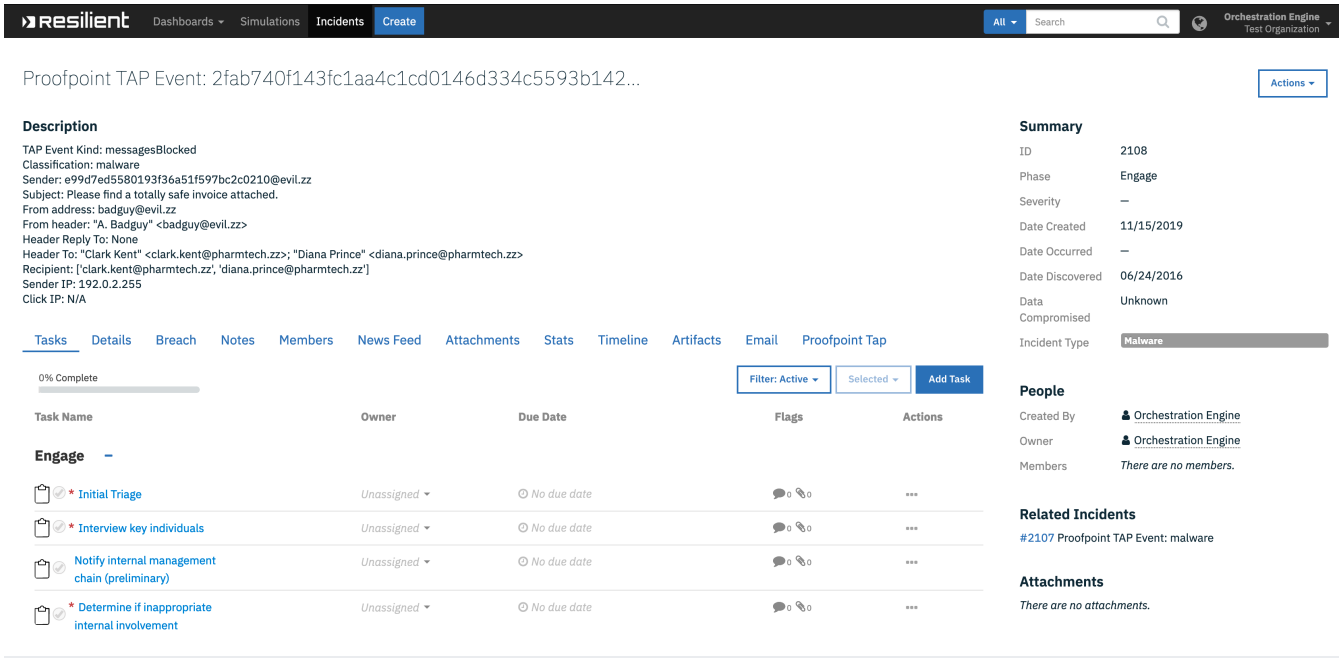
Key Features

- Poller
- Get Forensics
- Get Campaign

Poller

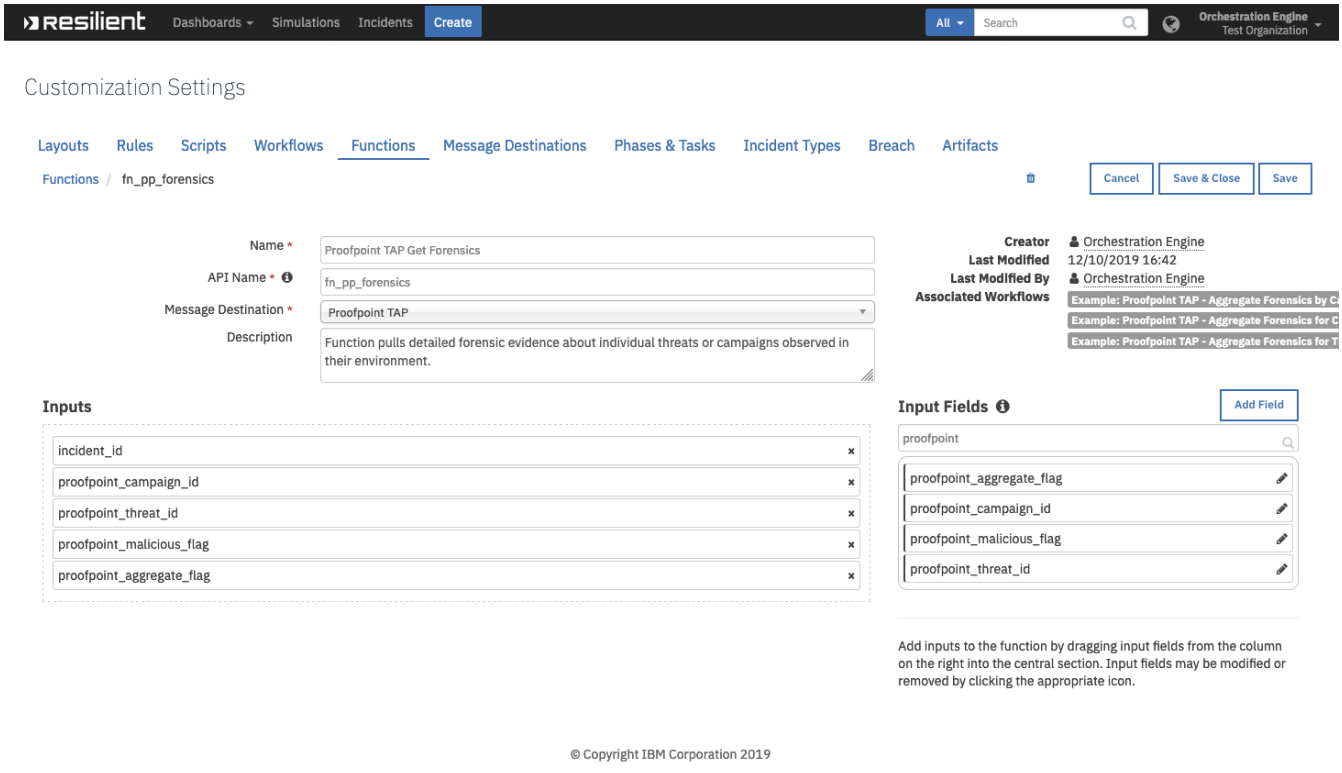
Threaded Poller which runs continuously while the integration is running.

- Polls Proofpoint TAP events for all clicks and messages relating to known threats within the specified time period.
- Filters the events based on their classification threat type such as malware, phish, spam, and impostor. The chosen type_filter is defined in the app.config file.
- Filters the type of events to import based on the respective threat score that is configured in the app.config file.
- Creates Incidents in the Resilient platform based on the events.
- Adds artifacts to incidents in the Resilient platform corresponding to Proofpoint TRAP Campaign ID and Threat ID.



Function - Proofpoint TAP Get Forensics

Function pulls detailed forensic evidence about individual threats or campaigns observed in their environment.



▼ Inputs:

Name	Type	Required	Example	Tooltip
`incident_id`	`number`	Yes	–	Incident ID
`proofpoint_aggregate_flag`	`boolean`	No	–	A boolean value, defaulting to false. May optionally be

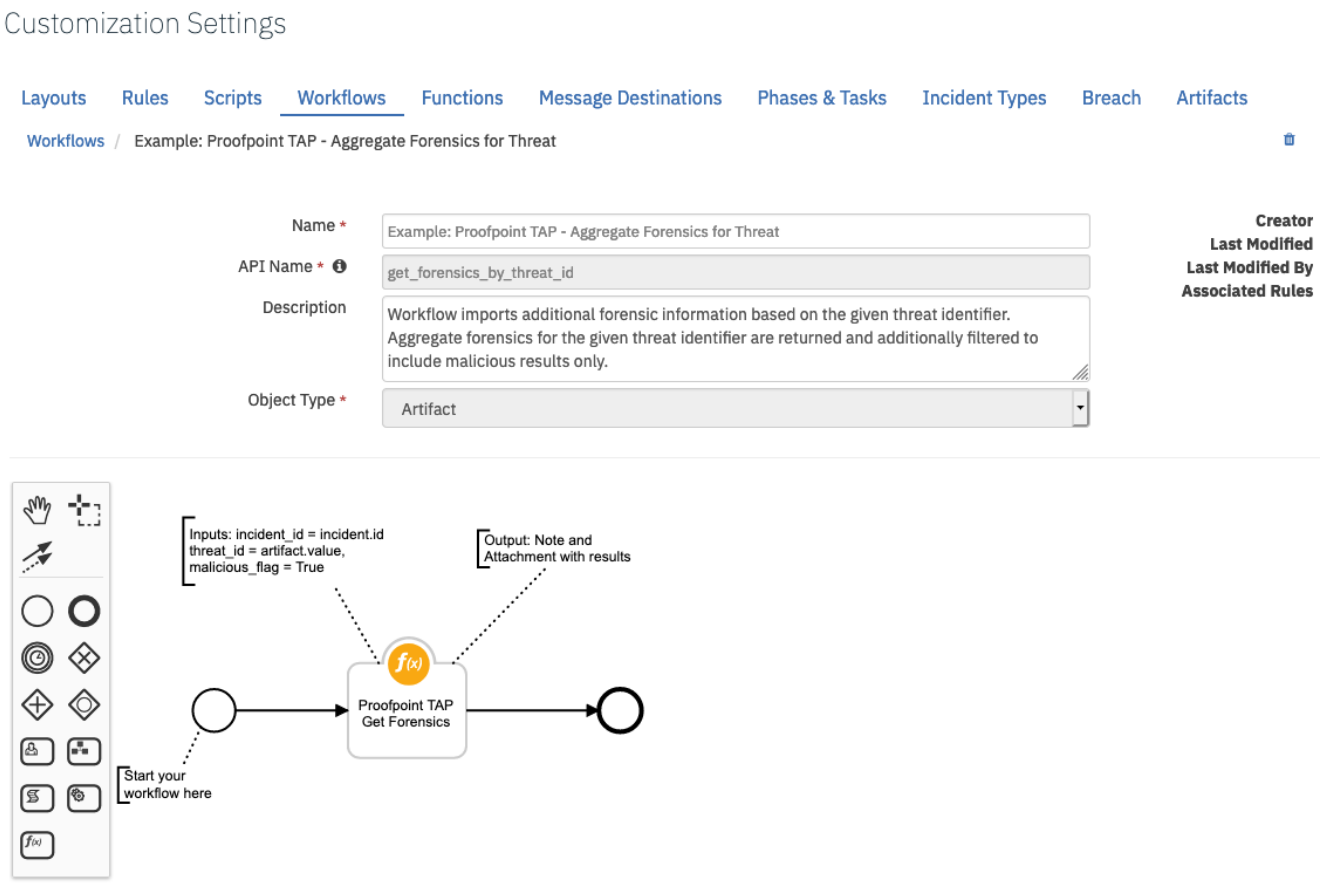
Name	Type	Required	Example	Tooltip
				used with the threatId parameter. It cannot be used with the campaignId parameter. If false, aggregate forensics for that specific threat identifier will be returned. If true AND if the threat has been associated with a campaign, aggregate forensics for the entire campaign are returned. Otherwise, aggregate forensics for the individual threat are returned.
`proofpoint_campaign_id`	`text`	No	–	A string containing a campaign identifier.
`proofpoint_malicious_flag`	`boolean`	No	–	Show malicious results only.
`proofpoint_threat_id`	`text`	No	–	A string containing a threat identifier.

▼ Workflows:

There are three Workflows for this function:

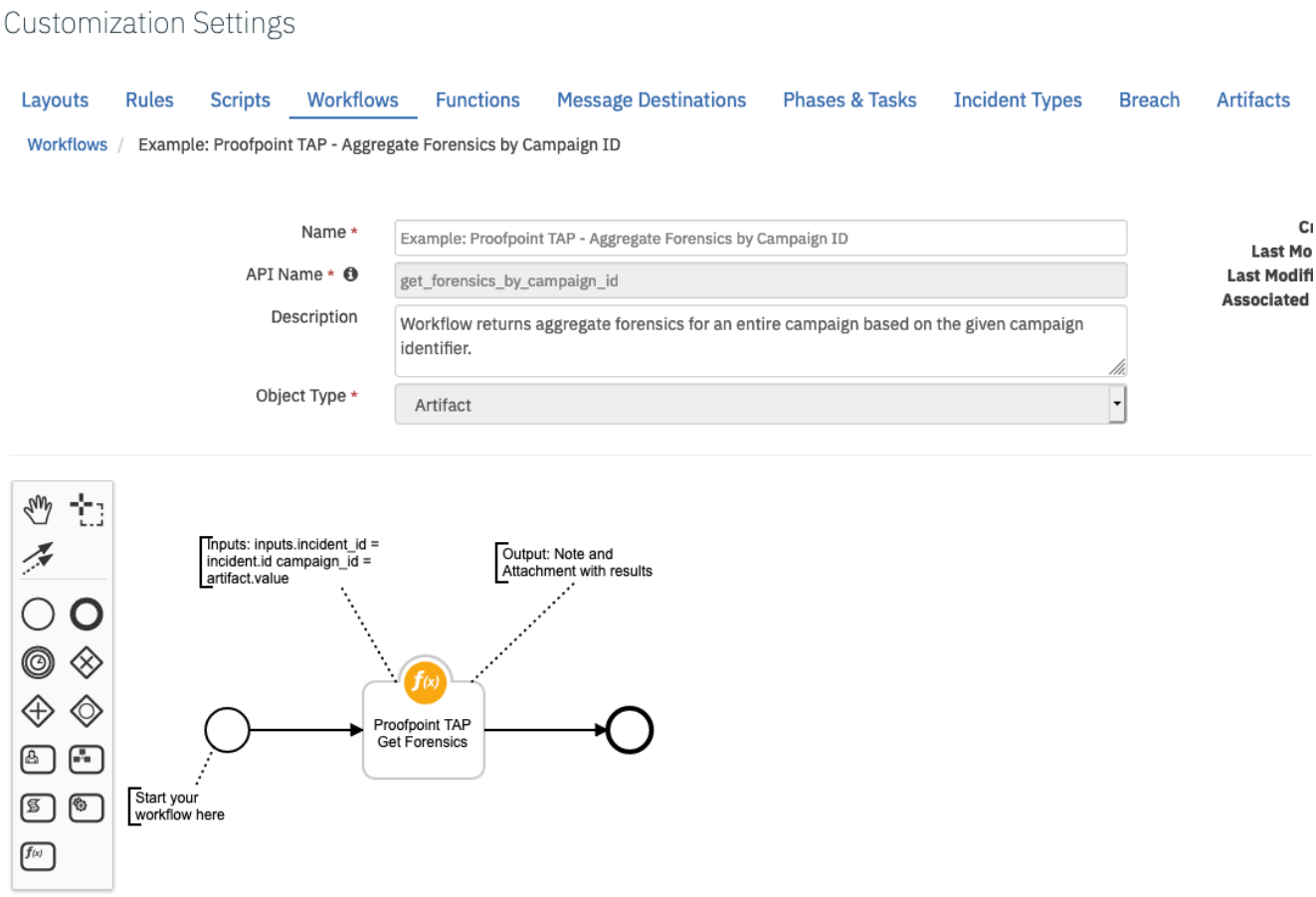
- Example: Proofpoint TAP - Aggregate Forensics for Threat

Workflow imports additional forensic information based on the given threat identifier. Aggregate forensics for the given threat identifier are returned and additionally filtered to include malicious results only. Results are saved in a Note and an Attachment.



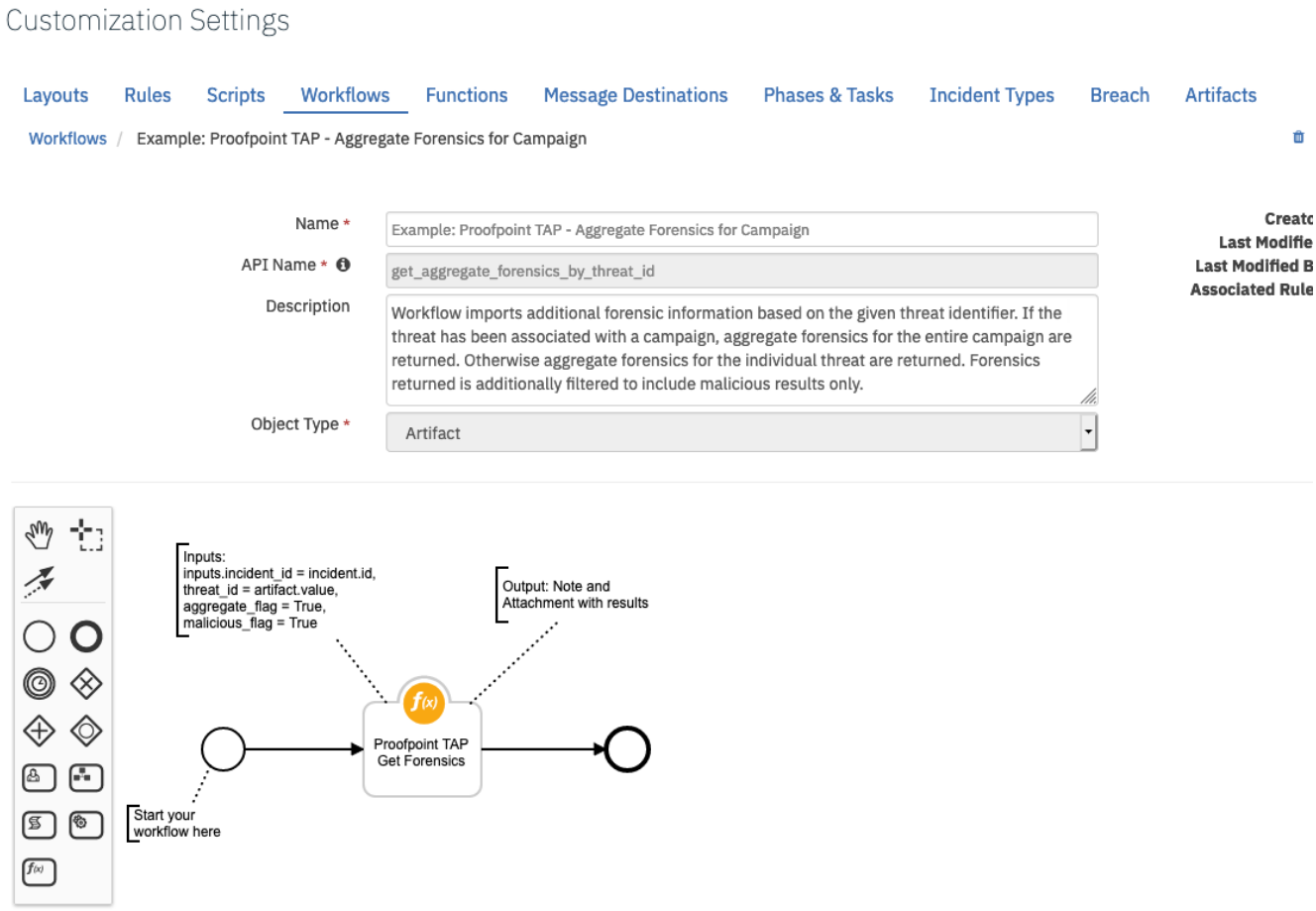
- Example: Proofpoint TAP - Aggregate Forensics by Campaign ID

Workflow returns aggregate forensics for an entire campaign based on the given campaign identifier. Results are saved in a Note and an Attachment.

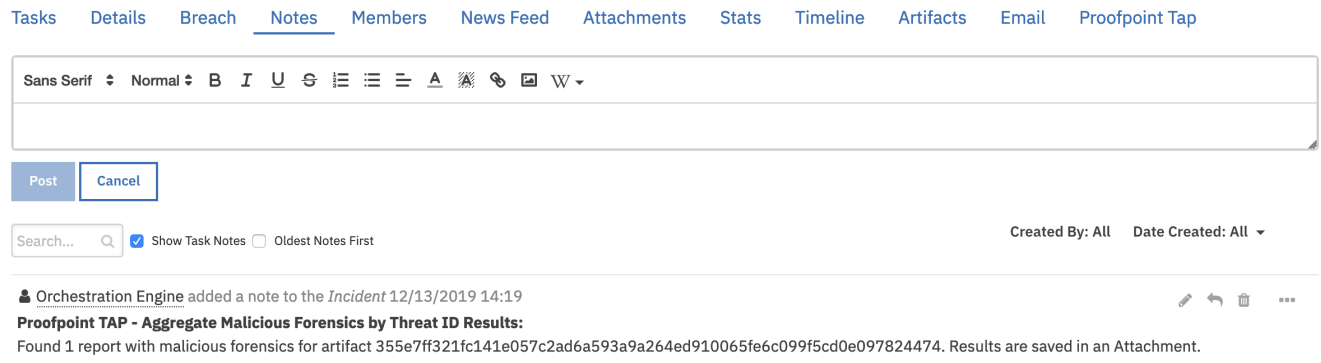


- Example: Proofpoint TAP - Aggregate Forensics for Campaign

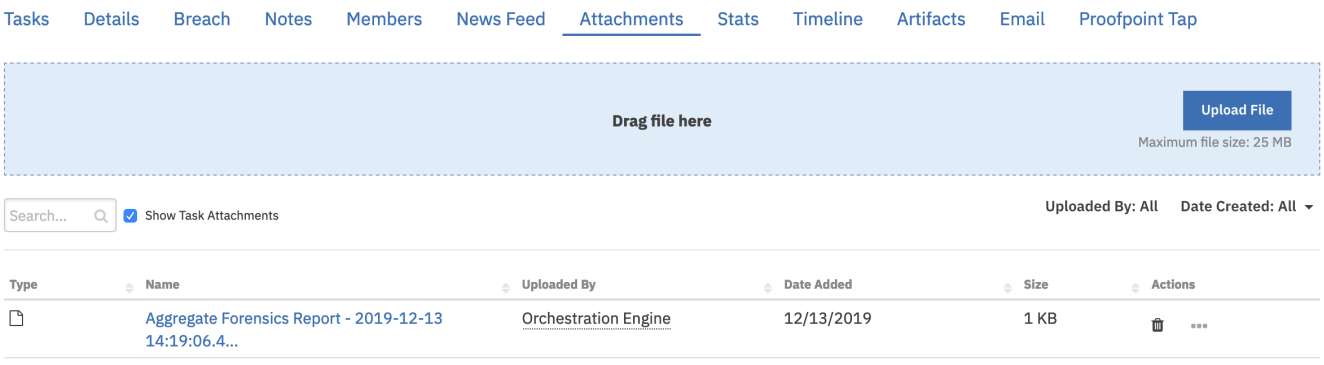
Workflow imports additional forensic information based on the given threat identifier. If the threat has been associated with a campaign, aggregate forensics for the entire campaign are returned. Otherwise aggregate forensics for the individual threat are returned. Forensics returned is additionally filtered to include malicious results only. Results are saved in a Note and an Attachment.

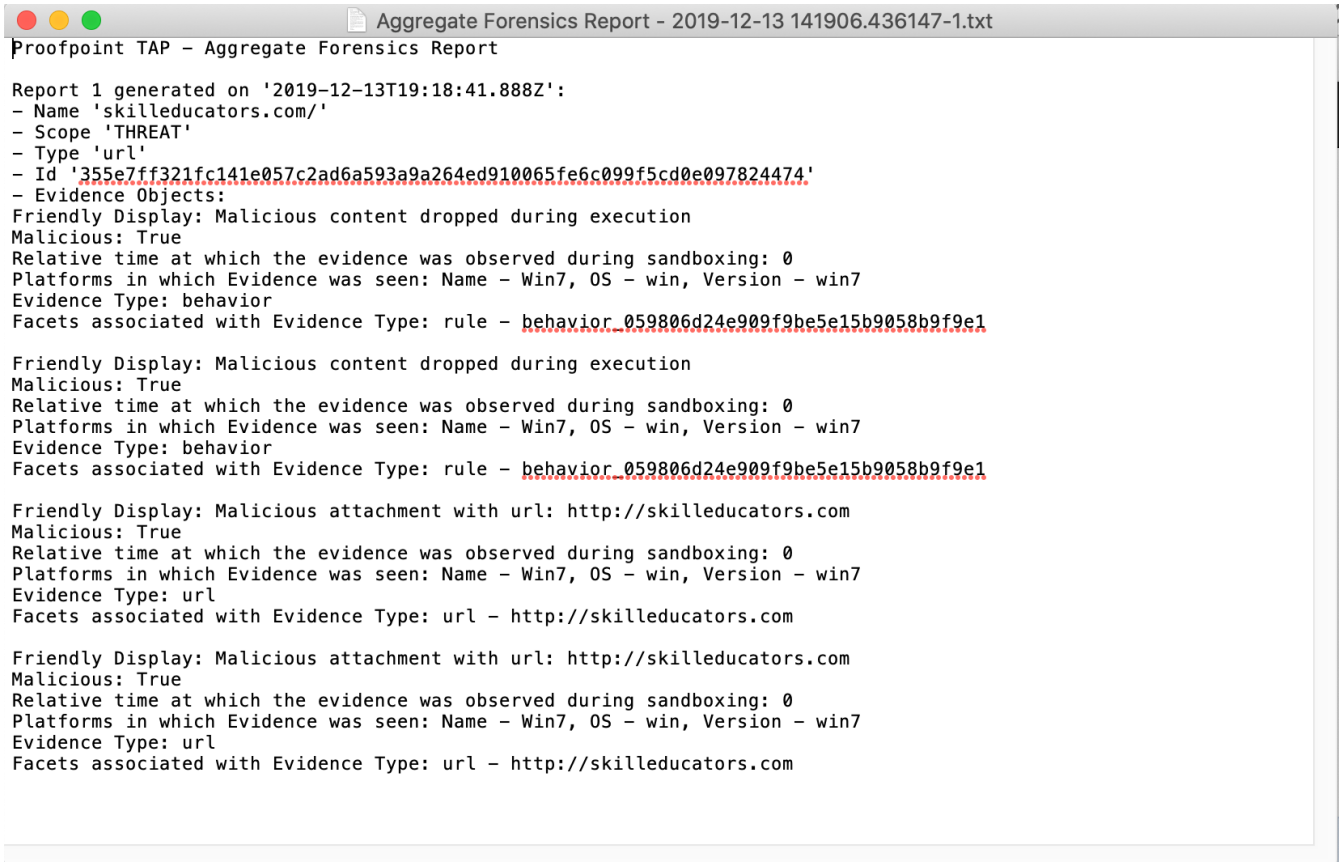


The results of all three Workflows are saved in a Note and an Attachment.



Additionally a Script is available for the Data Table to create an Artifact based on chosen row.





▼ Outputs:

```
results {
    "inputs": {
        "incident_id": 2106,
        "campaign_id": None,
        "threat_id": "355e7ff321fc141e057c2ad6a593a9a264ed910065fe6c099f5cd0e097824474",
        "aggregate_flag": None,
        "malicious_flag": True
      },
      "success": True,
      "num_reports": 1
    }
```

▼ Example Pre-Process Script:

```
inputs.incident_id = incident.id
inputs.proofpoint_threat_id = artifact.value
inputs.proofpoint_malicious_flag = True
```

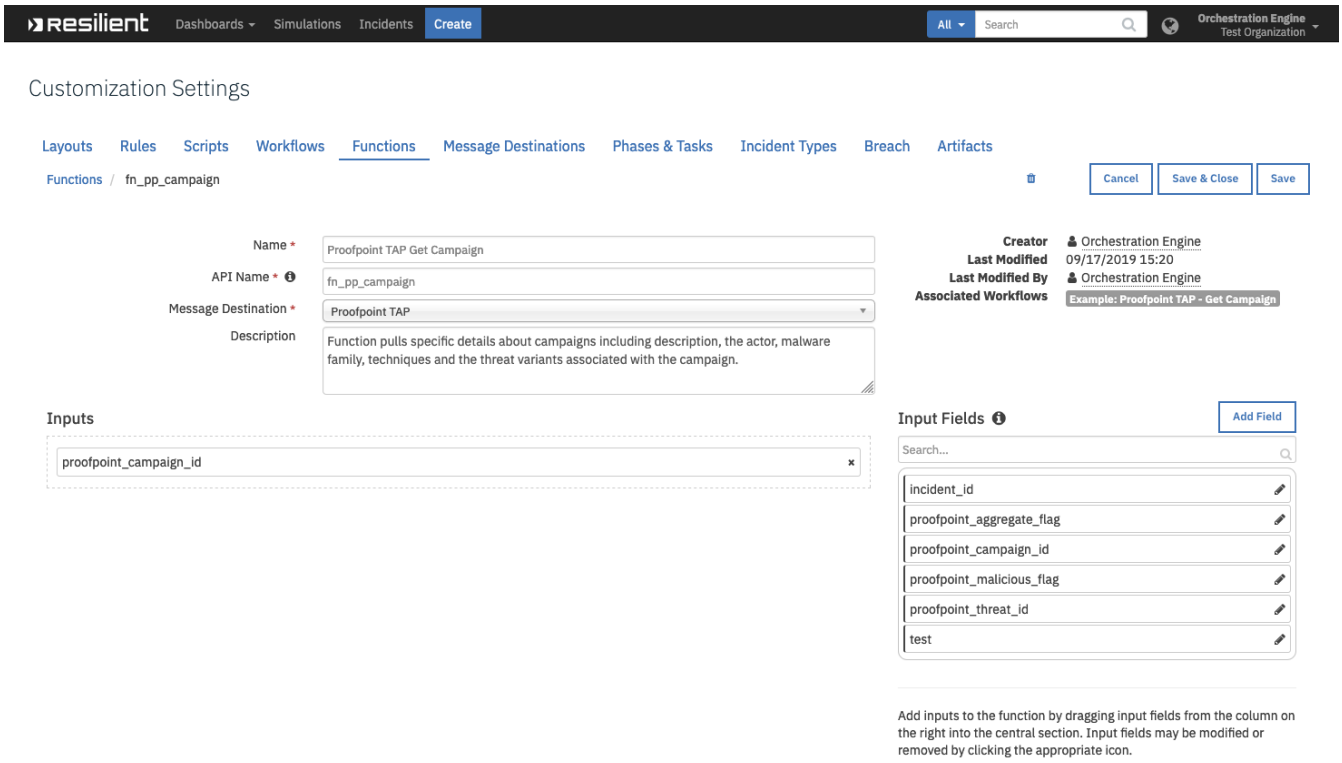
▼ Example Post-Process Script:

```
from java.util import Date

# results is a Dictionary and reports is a List
if results is not None:
  noteText = "<b>Proofpoint TAP - Aggregate Malicious Forensics by Threat ID Results:</b>"

  if results.get("success") is True:
    num_reports = results.get("num_reports", 0)
```

```
    noteText = u"""{}
    <br>Found {} {} with malicious forensics for artifact {}. {}""".format(
      noteText,
      num_reports,
      "report" if num_reports == 1 else "reports",
      artifact.value,
      "Results are saved in an Attachment." if num_reports > 0 else "")

  elif results.get("success") is False and results.get("note_err_text", None) is not None:
    noteText = u"""{}
    <br>No Forensics found for Threat ID '{}'.
    <br>Error: {}.""".format(noteText, artifact.value, results.get("note_err_text"))

  else:
    noteText = u"""{} <br>No Forensics found for Threat ID '{}'.""".format(noteText, artifact.value)

  incident.addNote(helper.createRichText(noteText))
```

Function - Proofpoint TAP Get Campaign

Function pulls specific details about campaigns including description, the actor, malware family, techniques and the threat variants associated with the campaign.



▼ Inputs:

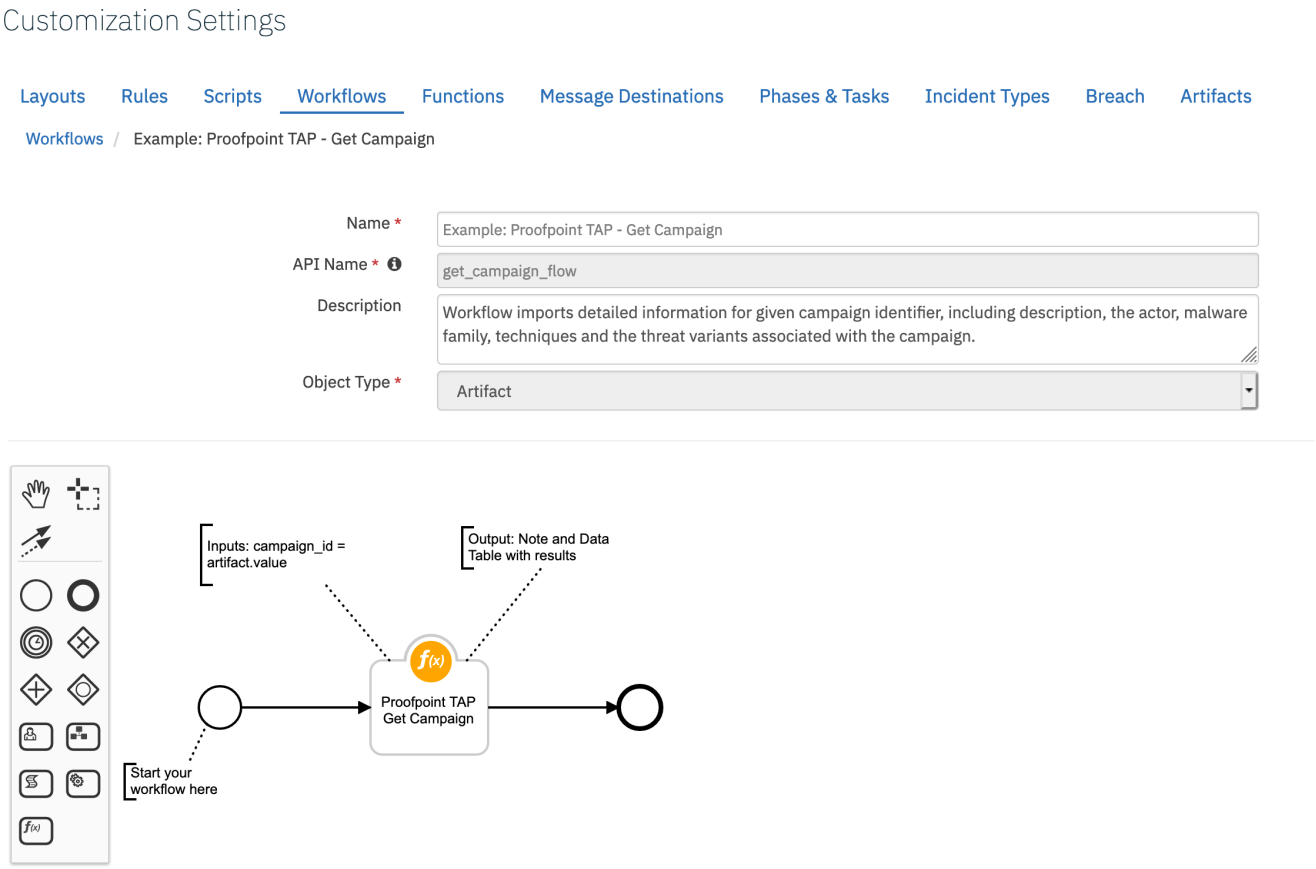
Name	Type	Required	Example	Tooltip
`proofpoint_campaign_id`	`text`	No	-	A string containing a campaign identifier.

▼ Workflows:

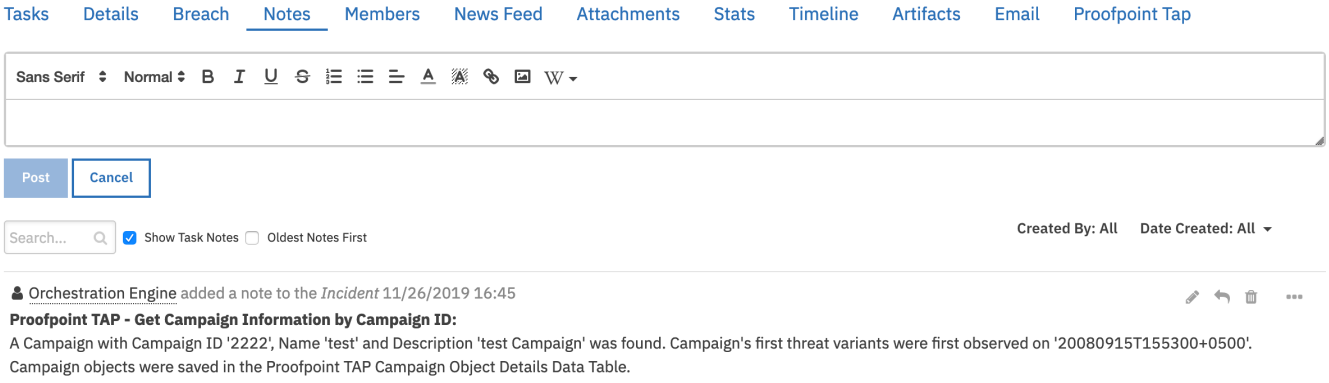
There is one Workflow for this function:

- Example: Proofpoint TAP - Get Campaign

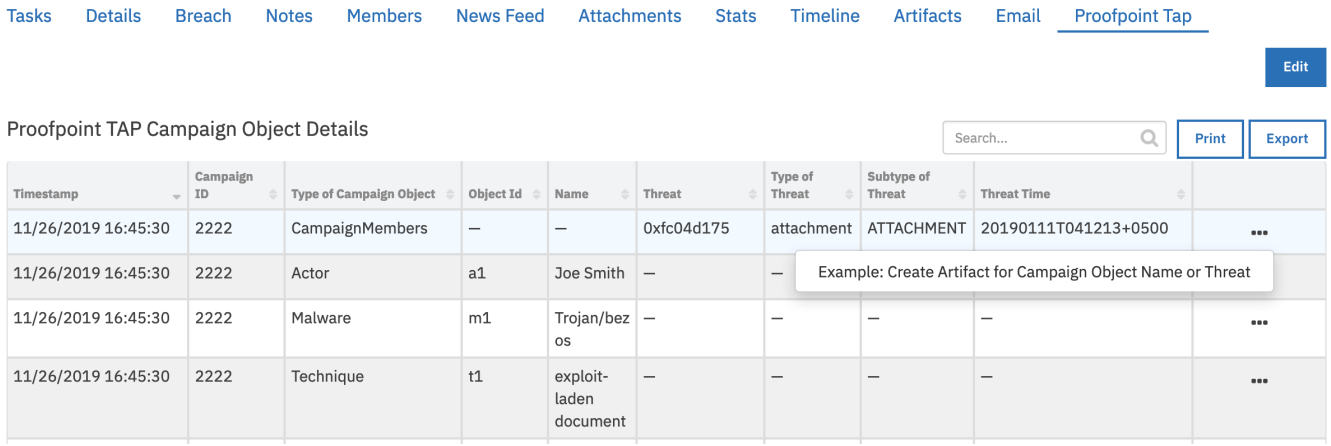
Workflow imports detailed information for given campaign identifier, including description, the actor, malware family, techniques and the threat variants associated with the campaign.



The results are saved in a Note and Proofpoint TAP Campaign Object Details Data Table.



Additionally a Script is available for the Data Table to create an Artifact based on chosen row.



▼ Example Pre-Process Script:

```
inputs.proofpoint_campaign_id = artifact.value
```

▼ Example Post-Process Script:

```
from java.util import Date

def add_row_to_campaign_object_dt(object_type, object_id, object_name=None, threat=None, type_of_threat=None, subtype_
  object_dt = incident.addRow("proofpoint_tap_campaign_object_dt")
  object_dt.proofpoint_tap_object_timestamp = Date()
  object_dt.proofpoint_tap_campaign_id = artifact.value
  object_dt.proofpoint_tap_object_type = object_type
  object_dt.proofpoint_tap_object_id = object_id
  object_dt.proofpoint_tap_object_name = object_name
  object_dt.proofpoint_tap_object_threat = threat
  object_dt.proofpoint_tap_object_type_of_threat = type_of_threat
  object_dt.proofpoint_tap_object_subtype_of_threat = subtype_of_threat
  object_dt.proofpoint_tap_object_threat_time = threat_time

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

# results and results.data are both a Dictionary
if results is not None:
  noteText = "<b>Proofpoint TAP - Get Campaign Information by Campaign ID:</b>"

  if results.get("success") is True and results.get("data", None) is not None:
    data = results.get("data")
    campaign_name = data.get("name", None)
    campaign_description = data.get("description", None)
    campaign_start_date = data.get("startDate", None)

    noteText = u"""{}<br>Campaign was found:
    <br>- Campaign ID '{}'
    <br>- Name '{}'
    <br>- Description '{}'
    <br>- Campaign's first threat variants were first observed on '{}'
    <br>Campaign objects are saved in the Proofpoint TAP Campaign Object Details Data Table.""".format(noteText, artif

    campaign_members_list = data.get("campaignMembers", None)
    map(lambda member: add_row_to_campaign_object_dt("CampaignMembers", member.get("id"), threat=member.get("threat"),
      type_of_threat=member.get("type"), subtype_of_threat=member.get("subType"), threat_time=member.get("threatTime")

    families_list = data.get("families", [])
    map(lambda family: add_row_to_campaign_object_dt("CampaignFamily", family.get("id"), family.get("name")), families
```

```
    actors_list = data.get("actors", [])
    map(lambda actor: add_row_to_campaign_object_dt("Actor", actor.get("id"), object_name=actor.get("name")), actors_l

    malware_list = data.get("malware", [])
    map(lambda malware: add_row_to_campaign_object_dt("Malware", malware.get("id"), object_name=malware.get("name")),

    techniques_list = data.get("techniques", [])
    map(lambda technique: add_row_to_campaign_object_dt("Technique", technique.get("id"), object_name=technique.get("n

  elif results.get("success") is False and results.get("note_err_text", None) is not None:
    noteText = u"""{}
    <br>No Campaign information found for campaign ID '{}'.
    <br>Error: {}.""".format(noteText, artifact.value, results.get("note_err_text"))
  else:
    noteText = u"""{} <br>No Campaign information found for campaign ID '{}'.""".format(noteText, artifact.value)

  incident.addNote(helper.createRichText(noteText))
```

Custom Fields

Label	API Access Name	Type	Prefix	Placeholder	Tooltip
Proofpoint Campaign ID	`campaignId`	`text`	`properties`	-	A string containing a campaign identifier.
Proofpoint Message ID	`messageID`	`text`	`properties`	-	A string containing a threat identifier.

Rules

Rule Name	Object	Workflow/Script Triggered
Example: Proofpoint TAP - Aggregate Malicious Forensics by Threat ID	Artifact	`get_forensics_by_threat_id Workflow`
Example: Proofpoint TAP - Get Campaign Information by Campaign ID	Artifact	`get_campaign_flow Workflow`
Example: Proofpoint TAP - Aggregate Forensics by Campaign ID	Artifact	`get_forensics_by_campaign_id Workflow`
Example: Proofpoint TAP - Aggregate Malicious Forensics for Entire Campaign Associated with Threat ID	Artifact	`get_aggregate_forensics_by_threat_id Workflow`
Example: Proofpoint TAP - Create Artifact for Campaign Object Name or Threat	Data Table	`Example: Proofpoint TAP - Create Artifact for Campaign Object Name or Threat`

Scripts

▼ Example: Proofpoint TAP - Create Artifact for Campaign Object Name or Threat

```
# Script creates an Artifact for Proofpoint TAP Campaign Object Name or Threat based on the selected datatable row.
# Artifact description
artifact_description = u"""Created by Proofpoint TAP Get Campaign results for Campaign ID '{}', Type of Campaign Objec
```

```
  row.proofpoint_tap_campaign_id,
  row.proofpoint_tap_object_type,
  row.proofpoint_tap_object_id)

# Artifact type
artifact_type = "String"

# Artifact value
object_name = row.proofpoint_tap_object_name
object_threat = row.proofpoint_tap_object_threat
if object_name is not None:
  artifact_value = object_name
else:
  artifact_value = object_threat

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