

# Proofpoint TRAP Functions for IBM Resilient

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- [Key Features](#)
  - [Poller](#)
  - [Function - Proofpoint TRAP: Get Incident Details](#)
  - [Function - Proofpoint TRAP: Get List Members](#)
  - [Function - Proofpoint TRAP: Add Members to List](#)
  - [Function - Proofpoint TRAP: Update List Member](#)
  - [Function - Proofpoint TRAP: Delete List Member](#)
  - [Data Table - Proofpoint TRAP Events](#)
  - [Data Table - Proofpoint TRAP List Members](#)
  - [Custom Fields](#)
  - [Rules](#)
- 

## Key Features

### Resilient integration for Proofpoint TRAP

The ProofPoint Trap function package provides the following features:

- Poll a Proofpoint TRAP server for incidents and create corresponding incidents in Resilient.
  - Get Proofpoint TRAP incident details.
  - Get a Proofpoint Trap list member or members.
  - Add a member to a Proofpoint Trap list for artifacts of type host, IP address, or URL to a list.
  - Update a member of a Proofpoint Trap list.
  - Delete a member from of a Proofpoint Trap list.
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## Poller:

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Threaded Poller which runs continuously while the integration is running.

- Polls a Proofpoint TRAP server for incidents and create corresponding incidents in Resilient.
- Adds Proofpoint Trap events to incident data table **Proofpoint TRAP Events** in Resilient.
- Adds artifacts to incidents in Resilient corresponding to hosts artifacts in Proofpoint TRAP incident events. The actual artifacts added are determined by the **host\_categories** configuration option.
- Adds a note with Proofpoint TRAP events details to an incident in Resilient.

### Example incident created by the poller:

Proofpoint TRAP Incident: ID 1 - Unsolicited Bulk Email

Description

Unsolicited Bulk Email

Total Events in incident: 3

From: [u'Proofpoint TRAP']

- Tasks
- Details
- Breach
- Notes
- Members
- News Feed
- Attachments
- Stats
- Timeline
- Artifacts
- Email

Edit

Basic Details

Name ⓘ	Proofpoint TRAP Incident: ID 1 - Unsolicited Bulk Email
Description ⓘ	Unsolicited Bulk Email
	Total Events in incident: 3
	From: [u'Proofpoint TRAP']
Incident Type ⓘ	Phishing
NIST Attack Vectors ⓘ	E-mail
Incident Disposition ⓘ	Unconfirmed
Phase ⓘ	Engage
Resolution ⓘ	—
Resolution Summary ⓘ	—
Owner	Resilient Sysadmin
Created By	Resilient Sysadmin
Proofpoint TRAP Incident Id ⓘ	1

Date and Location

Date Created ⓘ	10/07/2019 11:40
Date Occurred ⓘ	—
Date Discovered ⓘ	05/26/2018 22:07:17

Examples of incident artifacts created by the poller:

Type	Value	Created	Relate?	Actions
IP Address	192.168.1.2	10/07/2019 12:00	As specified in the artifact type sett	...
IP Address	54.214.13.31	10/07/2019 11:40	As specified in the artifact type sett	...
URL	http://trapdemo.evilscheme.org/files/313532373336373133382e33.pdf	10/07/2019 11:40	As specified in the artifact type sett	...
DNS Name	trapdemo.evilscheme.org	10/07/2019 11:40	As specified in the artifact type sett	...

Functions:

Function - Proofpoint TRAP: Get Incident Details

Fetch Incident Details from Proofpoint Trap

- Adds a note to the Resilient incident with ProofPoint Trap incident details.
- An example workflow which uses this Resilient Function includes [Example: Proofpoint Trap: Get Incident Details](#).

The workflow is initiated by the incident rule, [Example: Proofpoint Trap: Get Incident Details](#).

1. Open an incident and select [Example: Proofpoint Trap: Get Incident Details](#) from Actions.

Example: Proofpoint TRAP: Get Incident Details

Example: Proofpoint TRAP: Get List Members

Action Status

Workflow Status

Close Incident

Delete Incident

2. Click Action-> **Example: Proofpoint Trap: Get Incident Details**.

3. A note is added to the incident with the incident details in JSON format.

This invokes the **Example: Proofpoint Trap: Get Incident Details** workflow, which calls the **Proofpoint TRAP: Get Incident Details** function.

► Inputs:

Config	Type	Required	Example	Description
<b>trap_incident_id</b>	number	Yes	1	Proofpoint TRAP Incident ID

► Outputs:

```
results = {
  # TODO: Copy and paste an example of the Function Output within this code block.
  # To see view the output of a Function, run resilient-circuits in DEBUG mode and
  invoke the Function.
  # The Function results will be printed in the logs: "resilient-circuits run --
  loglevel=DEBUG"
}
```

► Example Pre-Process Script:

```
inputs.trap_incident_id = incident.properties.proofpoint_trap_incident_id
```

► Example Post-Process Script:

```
note = "{}".format(unicode(results.data))
incident.addNote(helper.createRichText(note))
```

## Proofpoint TRAP: Get List Members

Get member or members of a Proofpoint Trap list.

- Adds Proofpoint Trap list members to incident datatable **Proofpoint TRAP List Members** in Resilient.
- Example workflows which use this Resilient Function include **Example: Proofpoint TRAP: Get List Members**.

The workflow is initiated by the incident rule, **Example: Proofpoint TRAP: Get List Members**.

1. Open an incident and select **Example: Proofpoint TRAP: Get List Members** from Actions.

Example: Proofpoint TRAP: Get Incident Details

Example: Proofpoint TRAP: Get List Members

Action Status

Workflow Status

Close Incident

Delete Incident

2. Select a list id from the displayed drop-down list and click Execute.

Example: Proofpoint TRAP: Get List Members

Trap list Id1

CancelExecute

3. This invokes the **Example: Proofpoint TRAP: Get List Members** workflow, which calls the **Proofpoint TRAP: Get List Members** function.
4. The datatable **Proofpoint TRAP List Members** will be updated in Resilient with the member details for the selected list.

Proofpoint TRAP List Members

Search...

PrintExport

Query execution date	List Id	Member Id	Member Description	Expiration Date	Created At	Updated At	Host	Resolution State	TTL	Status
2019-10-07 11:54:11	1	8	IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	75.76.13.144	4	0	Enabled
2019-10-07 11:54:11	1	7	Hostname to block	—	2017-12-29T04:56:13Z	2018-01-13T00:45:16Z	trapdemo.e vilscheme.i nfo	4	0	Enabled
2019-10-07 11:54:11	1	7	Suspect IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	192.168.1.1	4	0	Enabled

► Inputs:

Config	Type	Required	Example	Description
trap_list_id	number	number	1	Proofpoint TRAP List ID
trap_member_id	number	text	1	Proofpoint TRAP List member ID.
trap_members_type	number	text	members.json	The Proofpoint TRAP information format to get in result for list membership. Default is members.json.

► Outputs:

```
results = { 'inputs': {u'trap_list_id': 1, u'trap_members_type': u'members.json'},
            'metrics': {'package': 'fn-proofpoint-trap', 'timestamp': '2019-08-29
14:02:01', 'package_version': '1.0.0',
                        'host': 'myhost.com', 'version': '1.0', 'execution_time_ms':
27}, 'success': True,
            'content': [{u'user_id': None, u'description': u'IP to block', u'deleted':
False, u'created_at': u'2017-01-11T03:47:15Z',
                        u'enabled': True, u'updated_at': u'2017-01-11T03:47:15Z',
                        u'host': {u'created_at': u'2017-01-11T03:47:15Z',
u'updated_at': u'2017-01-11T03:47:15Z',
                        u'host': u'75.76.13.144', u'ttl': 0,
u'resolution_state': 4, u'id': 20
```

```

        },
        u'response_id': None, u'expiration': u'2018-12-18T19:08:56Z',
u'list_id': 2, u'host_id': 20,
        u'hash_reputation_id': None, u'id': 8, u'reverse_user_id':
None
    },
    {u'user_id': None, u'description': u'test', u'deleted': False,
u'created_at': u'2017-01-11T03:43:54Z',
        u'enabled': True, u'updated_at': u'2017-01-11T03:43:54Z',
        u'host': {u'created_at': u'2016-12-29T04:56:13Z',
u'updated_at': u'2017-01-13T00:45:16Z',
            u'host': u'string', u'ttl': 0, u'resolution_state':
4, u'id': 6
        },
    },
    u'response_id': None, u'expiration': None, u'list_id': 2,
u'host_id': 6, u'hash_reputation_id': None,
    u'id': 6, u'reverse_user_id': None
    }],
    'raw': '[{"user_id": null, "description": "IP to block", "deleted": false,
"created_at": "2017-01-11T03:47:15Z", '
        '"enabled": true, "updated_at": "2017-01-11T03:47:15Z", "host":
{"created_at": "2017-01-11T03:47:15Z", '
            '"updated_at": "2017-01-11T03:47:15Z", "host": "75.76.13.144",
"ttl": 0, "resolution_state": 4, "id": 20}, '
                '"response_id": null, "expiration": "2018-12-18T19:08:56Z",
"list_id": 2, "host_id": 20, '
                    '"hash_reputation_id": null, "id": 8, "reverse_user_id": null},
{"user_id": null, "description": "test", '
                        '"deleted": false, "created_at": "2017-01-11T03:43:54Z", "enabled":
true, "updated_at": "2017-01-11T03:43:54Z", '
                            '"host": {"created_at": "2016-12-29T04:56:13Z", "updated_at": "2017-
01-13T00:45:16Z", "host": "string", '
                                '"ttl": 0, "resolution_state": 4, "id": 6}, "response_id": null,
"expiration": null, "list_id": 2, '
                                    '"host_id": 6, "hash_reputation_id": null, "id": 6,
"reverse_user_id": null}]',
    'reason': None,
    'version': '1.0'
}

```

► Example Pre-Process Script:

```

inputs.trap_list_id = rule.properties.trap_list_id
inputs.trap_member_id = rule.properties.trap_member_id

```

► Example Post-Process Script:

```

## ProofPoint Trap - fn_proofpoint_trap_get_list_member ##
# Globals
# List of fields in datatable fn_proofpoint_trap_get_list_members script
DATA_TBL_FIELDS = ["member_list_id", "member_id", "member_description", "expiration",
"created_at", "updated_at"]
DATA_TBL_FIELDS_HOST = ["created_at", "host", "resolution_state", "ttl"]
FN_NAME = "fn_proofpoint_trap_get_list_member"
WF_NAME = "Example: Proofpoint TRAP: Get List Member"
MEMBER = results.content

```

```

INPUTS = results.inputs
QUERY_EXECUTION_DATE = results["metrics"]["timestamp"]

# Processing

def main():
    note_text = ''
    if MEMBER is not None:
        note_text = "ProofPoint Trap Integration Integration: Workflow <b>{0}</b>:
There was a result returned for Resilient function " \
        "<b>{1}</b>".format(WF_NAME, FN_NAME)
        newrow = incident.addRow("trap_list_members")
        newrow.query_execution_date = QUERY_EXECUTION_DATE
        for f in DATA_TBL_FIELDS:
            f_base = '_'.join(f.split('_')[1:])
            if not f_base:
                f_base = f
            if f == "query_execution_time":
                continue
            if MEMBER[f_base] is not None:
                newrow[f] = MEMBER[f_base]

        host = MEMBER["host"]
        if host is not None:
            for d in DATA_TBL_FIELDS_HOST:
                newrow[d] = host[d]

    else:
        noteText += "ProofPoint Trap Integration: Workflow <b>{0}</b>: There were
<b>no</b> results returned for " \
        "list id <b>{1}</b> for Resilient function <b>{3}</b>".format(WF_NAME, INPUTS["trap_list_id"], FN_NAME)

    incident.addNote(helper.createRichText(note_text))

if __name__ == "__main__":
    main()

```

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## Function - Proofpoint TRAP: Add Members to List

Add host, IP address, or URL to a Proofpoint TRAP list. List can be host list, url list, user list, or file list.

- Adds a new member to a Proofpoint TRAP list.
- Adds the new Proofpoint TRAP list member details to the incident datatable **Proofpoint TRAP List Members** in Resilient.
- Example workflows which use this Resilient Function includes **Example: Proofpoint TRAP: Add Member to List**.
- The workflow is applicable for Resilient artifact type: 'URL', 'User Account', 'DNS Name', 'IP Address', 'System Name', 'Malware SHA-256 Hash', 'Malware SHA-1 Hash' and 'Malware MD5 Hash'.

The workflow is initiated by the incident rule, **Example: Proofpoint TRAP: Add Member to List**.

1. Open an incident and select the 'Artifacts' tab.

2. For a Resilient artifact of an applicable type e.g. 'IP Address' click Action-> **Example: Proofpoint TRAP: Add Member to List**.

Type	Value	Created	Relate?	Actions
IP Address	192.168.1.2	10/07/2019 12:00	As specified in the artifact type sett	...
IP Address	54.214.13.31	10/07/2019 11:40	As specified in t	...
URL	<a href="http://trapdemo.evilscheme.org/files/313532373336373133382e33.pdf">http://trapdemo.evilscheme.org/files/313532373336373133382e33.pdf</a>	10/07/2019 11:40	As specified in the artifact type sett	...
DNS Name	trapdemo.evilscheme.org	10/07/2019 11:40	As specified in the artifact type sett	...

3. The user is presented with a selection of user defined inputs. In the example, Proofpoint TRAP list id **1** is selected from the drop-down.

## Example: Proofpoint TRAP: Add Member to List

Trap list Id:

Trap Member Description:

Trap Member Expiration:

TRAP Member Duration:

4. The user inputs values for the remainder of the fields and clicks Execute.
5. This invokes the **Example: Proofpoint TRAP: Add Member to List** workflow, which calls the **Proofpoint TRAP: Add Members to List** function.
6. The datatable **Proofpoint TRAP List Members** will be updated in Resilient with the member details for the selected list.

Proofpoint TRAP List Members

List Id	Member Id	Member Description	Expiration Date	Created At	Updated At	Host	Resolution State	TTL	Status	
1	8	IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	75.76.13.144	4	0	Enabled	...
1	7	Hostname to block	—	2017-12-29T04:56:13Z	2018-01-13T00:45:16Z	trapdemo.evilscheme.info	4	0	Enabled	...
1	7	Suspect IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	192.168.1.1	4	0	Enabled	...
1	8	Test IP address	2019-09-29T23:00:00Z	2017-01-11T03:47:15Z	2019-10-07T14:57:54Z	192.168.1.2	4	10	Enabled	...

► Inputs:

Name	Type	Required	Example	Tooltip
trap_description	text	No	—	Short description of Proofpoint TRAP list member.

Name	Type	Required	Example	Tooltip
trap_duration	number	No	–	# of milliseconds after which to expire Proofpoint TRAP list membership.
trap_expiration	datetimepicker	No	–	Timestamp to expire Proofpoint TRAP list member.
trap_list_id	number	No	–	Proofpoint TRAP List ID.
trap_member	text	No	–	Proofpoint TRAP List member to add. Can be of type host, IP address, or URL.

► Outputs:

```
results = {
    # TODO: Copy and paste an example of the Function Output within this code block.
    # To see view the output of a Function, run resilient-circuits in DEBUG mode and
    # invoke the Function.
    # The Function results will be printed in the logs: "resilient-circuits run --
    loglevel=DEBUG"
}
```

► Example Pre-Process Script:

```
inputs.trap_member = artifact.value
inputs.trap_description = rule.properties.trap_description
inputs.trap_list_id = rule.properties.trap_list_id
inputs.trap_expiration = rule.properties.trap_expiration
inputs.trap_duration = rule.properties.trap_duration
```

► Example Post-Process Script:

```
## ProofPoint Trap - fn_proofpoint_trap_add_members_to_list ##
# Example result:
####
Result: {'inputs': {'trap_list_id': 1, 'trap_member': u'75.76.13.144',
    'trap_description': u'A test',
    'trap_expiration': 1567526694000, 'trap_duration': 10},
    'metrics': {'package': 'fn-proofpoint-trap', 'timestamp': '2019-09-03
17:05:06', 'package_version': '1.0.0',
    'host': 'myhost.ibm.com', 'version': '1.0', 'execution_time_ms':
3512},
    'success': True,
    'content': {'user_id': None, 'description': u'IP to block', 'deleted':
False,
    'created_at': u'2017-01-11T03:47:15Z', 'enabled': True,
    'updated_at': u'2017-01-11T03:47:15Z',
    'host': {'created_at': u'2017-01-11T03:47:15Z', 'updated_at':
u'2017-01-11T03:47:15Z',
    'host': u'75.76.13.144', 'ttl': 0,
    'resolution_state': 4, 'id': 20
    },
    'response_id': None, 'expiration': u'2018-12-18T19:08:56Z',
    'list_id': 1, 'host_id': 20,
```



```

        u'hash_reputation_id': None, u'id': 8, u'reverse_user_id':
None},
        'raw': '{"user_id": null, "description": "IP to block", "deleted": false,
"created_at": "2017-01-11T03:47:15Z", '
            '"enabled": true, "updated_at": "2017-01-11T03:47:15Z", "host":
{"created_at": "2017-01-11T03:47:15Z", '
            '"updated_at": "2017-01-11T03:47:15Z", "host": "75.76.13.144", "ttl":
0, "resolution_state": 4, "id": 20}, '
            '"response_id": null, "expiration": "2018-12-18T19:08:56Z",
"list_id": 1, "host_id": 20, '
            '"hash_reputation_id": null, "id": 8, "reverse_user_id": null}',
        'reason': None,
        'version': '1.0'
    }
    """
# Globals
# List of fields in datatable fn_proofpoint_trap_add_members_to_list script
DATA_TBL_FIELDS = ["query_execution_time", "member_id", "list_id",
"member_description", "expiration", "created_at", "status"]
DATA_TBL_FIELDS_HOST = ["created_at", "updated_at", "host", "resolution_state",
"ttl"]
FN_NAME = "fn_proofpoint_trap_add_members_to_list"
WF_NAME = "Example: Proofpoint TRAP: Get List Members"
MEMBER = results.content
INPUTS = results.inputs
QUERY_EXECUTION_DATE = results["metrics"]["timestamp"]

# Processing

def main():
    note_text = ''
    if MEMBER is not None:
        note_text = "ProofPoint Trap Integration Integration: Workflow <b>{0}</b>:
There was a valid result returned for Resilient function " \
            "<b>{1}</b>".format(WF_NAME, FN_NAME)

        newrow = incident.addRow("trap_list_members")
        newrow.query_execution_date = QUERY_EXECUTION_DATE
        newrow.member_id = MEMBER["id"]
        newrow.member_description = MEMBER["description"]
        for f in DATA_TBL_FIELDS:
            if f in ["query_execution_time", "member_id", "member_description",
"status"]:
                continue
            if MEMBER[f] is not None:
                newrow[f] = MEMBER[f]
        if MEMBER["enabled"]:
            newrow.status = "Enabled"
        host = MEMBER["host"]
        if host is not None:
            for d in DATA_TBL_FIELDS_HOST:
                newrow[d] = host[d]

    else:
        noteText += "ProofPoint Trap Integration: Workflow <b>{0}</b>: There were
<b>no</b> results returned for " \
            "list id <b>{1}</b> for Resilient function <b>{3}
</b>".format(WF_NAME, INPUTS["trap_list_id"], FN_NAME)

```

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

if __name__ == "__main__":
    main()
```

## Function - Proofpoint TRAP: Update List Member

Update the member of a list by specifying the list and the member to update.

- Updates an existing member of a Proofpoint TRAP list.
- Refreshes Proofpoint TRAP list member details for the incident datatable **Proofpoint TRAP List Members** in Resilient.
- Example workflows which use this Resilient Function includes **Example: Proofpoint TRAP: Update List Member**.
- The workflow is applicable for incident datatable **Proofpoint TRAP List Members** populated rows in Resilient.

The workflow is initiated by the datatable rule, **Example: Proofpoint TRAP: Update List Member**.

1. Open an incident and select the row of datatable **Proofpoint TRAP List Members** corresponding to the list member to update.
2. From the selected row actions select-> **Example: Proofpoint TRAP: Update List Member**.

Proofpoint TRAP List Members

List Id	Member Id	Member Description	Expiration Date	Created At	Updated At	Host	Resolution State	TTL	Status	
1	8	IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	75.76.13.144	4	0	Enabled	...
1	7	Hostname to block	—	2017-12-29T04:56:13Z	2018-01-13T00:45:16Z	trapdemo.evilscheme.info	4	0	Enabled	...
1	7	Suspect IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	192.168.1.1	4	0	Enabled	...
1	8	Test IP address	2019-09-29T23:00:00Z	2017-01-11T03:47:15Z	2019-10-07T14:57:54Z	192.168.1.2	4	10	Enabled	...

Displaying 1 - 4 of 4

Example: Proofpoint TRAP: Delete List Member  
Example: Proofpoint TRAP: Update List Member

3. The user is presented with a selection of user defined inputs.

### Example: Proofpoint TRAP: Update List Member

Trap Member Description ?

Trap Member Expiration

TRAP Member Duration

Cancel

Execute

4. The user inputs values for the the displayed fields and clicks Execute.
5. This invokes the **Example: Proofpoint TRAP: Update List Member** workflow, which calls the **Proofpoint TRAP: Update List Member** function.

6. The datatable **Proofpoint TRAP List Members** will be refreshed in Resilient with the updated member details for the selected list.

Proofpoint TRAP List Members

Query execution date	List Id	Member Id	Member Description	Expiration Date	Created At	Updated At	Host	Resolution State	TTL	Status
2019-10-07 11:54:11	1	8	IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	75.76.13.144	4	0	Enab
2019-10-07 11:54:11	1	7	Hostname to block	—	2017-12-29T04:56:13Z	2018-01-13T00:45:16Z	trapdemo.evilscheme.info	4	0	Enab
2019-10-07 11:54:11	1	7	Suspect IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	192.168.1.1	4	0	Enab
2019-10-07 17:39:15	1	8	Updated IP address	2019-09-30T23:00:00Z	2017-01-11T03:47:15Z	2019-10-07T15:39:15Z	75.76.13.144	4	5	Enab

## ► Inputs:

Name	Type	Required	Example	Tooltip
trap_description	text	No	—	Short description of Proofpoint TRAP list member.
trap_duration	number	No	—	# of milliseconds after which to expire Proofpoint TRAP list membership.
trap_expiration	datetimepicker	No	—	Timestamp to expire Proofpoint TRAP list member.
trap_list_id	number	No	—	Proofpoint TRAP List ID.
trap_member_id	number	No	—	Proofpoint TRAP List member ID.

## ► Outputs:

```
results = {
  # TODO: Copy and paste an example of the Function Output within this code block.
  # To see view the output of a Function, run resilient-circuits in DEBUG mode and
  invoke the Function.
  # The Function results will be printed in the logs: "resilient-circuits run --
  loglevel=DEBUG"
}
```

## ► Example Pre-Process Script:

```
inputs.trap_list_id = row.list_id
inputs.trap_member_id = row.member_id
inputs.trap_description = rule.properties.trap_description
inputs.trap_expiration = rule.properties.trap_expiration
inputs.trap_duration = rule.properties.trap_duration
```

## ► Example Post-Process Script:

```
## ProofPoint Trap - fn_proofpoint_trap_update_list_member ##
# Example result:

*****
```

```
Results {'inputs': {'u'trap_list_id': 2, 'u'trap_expiration': 1567527591000,
                    'u'trap_description': u'Test',
                    'u'trap_member_id': 8, 'u'trap_duration': 10},
         'metrics': {'package': 'fn-proofpoint-trap', 'timestamp': '2019-09-03
17:19:57', 'package_version': '1.0.0',
                    'host': 'myhost.ibm.com', 'version': '1.0', 'execution_time_ms':
33
                    }, 'success': True,
         'content': {'u'user_id': None, u'description': u'Updated IP to block',
u'deleted': False,
                    'u'created_at': u'2017-01-11T03:47:15Z', u'enabled': True,
u'updated_at': u'2017-01-11T03:47:15Z',
                    'u'host': {'u'created_at': u'2017-01-11T03:47:15Z', u'updated_at':
u'2017-01-11T03:47:15Z',
                                'u'host': u'75.76.13.144', u'ttl': 0,
u'resolution_state': 4, u'id': 20
                                },
                    'u'response_id': None, u'expiration': u'2018-12-18T19:08:56Z',
u'list_id': 2, u'host_id': 20,
                    'u'hash_reputation_id': None, u'id': 8, u'reverse_user_id': None
                    },
         'raw': '{"user_id": null, "description": "Updated IP to block", "deleted":
false, "created_at": "2017-01-11T03:47:15Z", '
                '"enabled": true, "updated_at": "2017-01-11T03:47:15Z", "host":
{"created_at": "2017-01-11T03:47:15Z", '
                '"updated_at": "2017-01-11T03:47:15Z", "host": "75.76.13.144", "ttl":
0, "resolution_state": 4, "id": 20}, '
                '"response_id": null, "expiration": "2018-12-18T19:08:56Z",
"list_id": 2, "host_id": 20, "hash_reputation_id": null, '
                '"id": 8, "reverse_user_id": null}',
         'reason': None,
         'version': '1.0'
}
''''
```

```
# Globals
# List of fields in datatable "Proofpoint TRAP List Members" for
fn_proofpoint_trap_get_list_members script
DATA_TBL_FIELDS = ["query_execution_time", "member_id", "list_id",
"member_description", "expiration", "created_at", "status"]
DATA_TBL_FIELDS_HOST = ["created_at", "updated_at", "host", "resolution_state",
"ttl"]
FN_NAME = "fn_proofpoint_trap_update_list_member"
WF_NAME = "Example: Proofpoint TRAP: Update List Member"
MEMBER = results.content
QUERY_EXECUTION_DATE = results["metrics"]["timestamp"]

# Processing

def main():
    note_text = ''
    if MEMBER is not None:
        note_text = "ProofPoint Trap Integration Integration: Workflow <b>{0}</b>:
There was a valid result returned for Resilient function " \
                    "<b>{1}</b>".format(WF_NAME, FN_NAME)

        row.query_execution_date = QUERY_EXECUTION_DATE
        row.member_id = MEMBER["id"]
        row.member_description = MEMBER["description"]
        for f in DATA_TBL_FIELDS:
```

```

        if f in ["query_execution_time", "member_id", "member_description",
"status"]:
            continue
        if MEMBER[f] is not None:
            row[f] = MEMBER[f]
        if MEMBER["enabled"]:
            row.status = "Enabled"
        host = MEMBER["host"]
        if host is not None:
            for d in DATA_TBL_FIELDS_HOST:
                row[d] = host[d]
        else:
            noteText += "ProofPoint Trap Integration: Workflow <b>{0}</b>: There were
<b>no</b> results returned for " \
                "list id <b>{1}</b> for Resilient function <b>{3}</b>".format(WF_NAME, INPUTS["trap_list_id"], FN_NAME)

            incident.addNote(helper.createRichText(note_text))

if __name__ == "__main__":
    main()

```

## Function - Proofpoint TRAP: Delete List Member

Delete the member of a list.

- Deletes an member of a Proofpoint TRAP list.
- Updates the deleted Proofpoint TRAP list member details for the selected incident datatable **Proofpoint TRAP List Members** row in Resilient.
- Example workflows which use this Resilient Function includes **Example: Proofpoint TRAP: Delete List Member**.
- The workflow is applicable for incident datatable **Proofpoint TRAP List Members** populated rows in Resilient.

The workflow is initiated by the datatable rule, **Example: Proofpoint TRAP: Delete List Member**.

- Open an incident and select the row of datatable **Proofpoint TRAP List Members** corresponding to the list member to delete.
- From the selected row actions select-> **Example: Proofpoint TRAP: Delete List Member**.

Proofpoint TRAP List Members

List Id	Member Id	Member Description	Expiration Date	Created At	Updated At	Host	Resolution State	TTL	Status	
1	8	IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	75.76.13.144	4	0	Enabled	...
1	7	Hostname to block	—	2017-12-29T04:56:13Z	2018-01-13T00:45:16Z	trapdemo.evilscheme.info	4	0	Enabled	...
1	7	Suspect IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	192.168.1.1	4	0	Enabled	...
1	8	Updated IP address	2019-09-30T23:00:00Z	2017-01-11T03:47:15Z	2019-10-07T15:39:15Z	75.76.13.144	4	5	Enabled	...

Displaying 1 - 4 of 4

Search...
 Print
Export

Example: Proofpoint TRAP: Delete List Member  
 Example: Proofpoint TRAP: Update List Member

- Click on the action to execute.
- This invokes the **Example: Proofpoint TRAP: Delete List Member** workflow, which calls the **Proofpoint TRAP: Delete List Member** function.

5. The datatable **Proofpoint TRAP List Members** will be refreshed in Resilient for the deleted member with **Status** set to **Deleted**.

Proofpoint TRAP List Members

List Id	Member Id	Member Description	Expiration Date	Created At	Updated At	Host	Resolution State	TTL	Status	
1	8	IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	75.76.13.144	4	0	Enabled	...
1	7	Hostname to block	—	2017-12-29T04:56:13Z	2018-01-13T00:45:16Z	trapdemo.evilscheme.info	4	0	Enabled	...
1	7	Suspect IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	192.168.1.1	4	0	Enabled	...
1	8	Updated IP address	2019-09-30T23:00:00Z	2017-01-11T03:47:15Z	2019-10-07T15:39:15Z	75.76.13.144	4	5	Deleted	...

## ► Inputs:

Name	Type	Required	Example	Tooltip
trap_list_id	number	No	—	Proofpoint TRAP List ID.
trap_member_id	number	No	—	Proofpoint TRAP List member ID.

## ► Outputs:

```
results = {
    # TODO: Copy and paste an example of the Function Output within this code block.
    # To see view the output of a Function, run resilient-circuits in DEBUG mode and
    # invoke the Function.
    # The Function results will be printed in the logs: "resilient-circuits run --
    loglevel=DEBUG"
}
```

## ► Example Pre-Process Script:

```
inputs.trap_list_id = row.list_id
inputs.trap_member_id = row.member_id
```

## ► Example Post-Process Script:

```
## ProofPoint Trap - fn_proofpoint_trap_delete_list_member##
# Example result:

####
Results {'inputs': {'trap_list_id': 1, 'trap_member_id': 8},
        'metrics': {'package': 'fn-proofpoint-trap', 'timestamp': '2019-09-04
17:06:02', 'package_version': '1.0.0',
                    'host': 'myhost.ibm.com', 'version': '1.0', 'execution_time_ms':
39
                    },
        'success': True,
        'content': 'OK',
        'raw': '"OK"',
        'reason': None,
        'version': '1.0'
}
```

```
#####

# Globals
# List of fields in datatable "Proofpoint TRAP List Members" for
fn_proofpoint_trap_delete_list_member script
DATA_TBL_FIELDS = ["query_execution_time", "status"]
FN_NAME = "fn_proofpoint_trap_delete_list_member"
WF_NAME = "Example: Proofpoint TRAP: Delete List Member"
STATUS = results.content
INPUTS = results.inputs
QUERY_EXECUTION_DATE = results["metrics"]["timestamp"]

# Processing

def main():
    note_text = ''
    if STATUS is not None:
        note_text = "ProofPoint Trap Integration Integration: Workflow <b>{0}</b>:
There was a valid result returned for Resilient function " \
                    "<b>{1}</b>".format(WF_NAME, FN_NAME)

        row.query_execution_date = QUERY_EXECUTION_DATE
        if STATUS.lower() == "ok":
            row.status = "Deleted"

    else:
        noteText += "ProofPoint Trap Integration: Workflow <b>{0}</b>: There were
<b>no</b> results returned for " \
                    "list id <b>{1}</b> for Resilient function <b>{3}</b>".format(WF_NAME, INPUTS["trap_list_id"], FN_NAME)

        incident.addNote(helper.createRichText(note_text))

if __name__ == "__main__":
    main()
```

---

## Data tables:

### Data Table - Proofpoint TRAP Events

This data table is populated by the **poller** for each Resilient incident and has an entry for each event detected in the corresponding Proofpoint incident.

Proofpoint TRAP Events

Search...

Print

Export

Event ID	Event Category	Description	Attack Direction	Severity	Source	Threat Name	State	Event Received	
3	malware	Infection.PDF.File.Exploit.CVE-2010-0188_LibTIFF.	inbound	Info	Proofpoint TRAP	Infection.PDF.File.Exploit.CVE-2010-0188_LibTIFF.	Linked	2018-05-26T21:07:17Z	...
1	spam	—	inbound	Critical	Proofpoint TRAP	Unsolicited Bulk Email	Linked	2018-05-26T21:07:17Z	...
2	spam	—	inbound	Critical	Proofpoint TRAP	Unsolicited Bulk Email	Linked	2018-05-26T21:07:17Z	...

API Name:

proofpoint\_trap\_events

Columns:

Column Name	API Access Name	Type	Tooltip
Attack Direction	event_attackdirection	text	-
Event Category	event_category	text	-
Description	event_description	text	-
Event Id	event_id	number	-
Event Received	event_received	text	-
Severity	event_severity	text	-
Source	event_source	text	-
State	event_state	text	-
Threat Name	event_threatname	text	-

Data Table - Proofpoint TRAP List Members

This data table is typically initially populated by a workflow using the Function **Proofpoint TRAP: Get List Members**. An entry is created for all members selected in the workflow.

The datatable is also be updated by functions **Proofpoint TRAP: Add Members to List**, **Proofpoint TRAP: Update List Member** and **Proofpoint TRAP: Delete List Member**.

Proofpoint TRAP List Members

Search...

PrintExport

Query execution date	List Id	Member Id	Member Description	Expiration Date	Created At	Updated At	Host	Resolution State	TTL	Status
2019-10-07 11:54:11	1	8	IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	75.76.13.144	4	0	Enabled
2019-10-07 11:54:11	1	7	Hostname to block	—	2017-12-29T04:56:13Z	2018-01-13T00:45:16Z	trapdemo.e vilscheme.i nfo	4	0	Enabled
2019-10-07 11:54:11	1	7	Suspect IP to block	2018-12-18T19:08:56Z	2017-01-11T03:47:15Z	2017-01-11T03:47:15Z	192.168.1.1	4	0	Enabled

API Name:

trap\_list\_members

Columns:

Column Name	API Access Name	Type	Tooltip
Created At	created_at	text	-
Expiration Date	expiration	text	-
Host	host	text	-
List Id	list_id	number	-
Member Description	member_description	text	-
Member Id	member_id	number	-



Column Name	API Access Name	Type	Tooltip
Query Execution Date	query_execution_date	text	-
Resolution State	resolution_state	text	-
Status	status	text	-
TTL	ttl	number	-
Updated At	updated_at	text	-

Custom Fields

Label	API Access Name	Type	Prefix	Placeholder	Tooltip
proofpoint_trap_incident_id	proofpoint_trap_incident_id	number	properties	-	Proofpoint TRAP incident id.

Rules

Rule Name	Object	Workflow Triggered
Example: Proofpoint Trap: Get Incident Details	incident	wf_proofpoint_trap_get_incident_details
Example: Proofpoint TRAP: Get List Members	incident	wf_proofpoint_trap_get_list_members
Example: Proofpoint TRAP: Add Member to List	artifact	wf_proofpoint_trap_add_member_to_list
Example: Proofpoint TRAP: Update List Member	trap_list_members	wf_proofpoint_trap_update_list_member
Example: Proofpoint TRAP: Delete List Member	trap_list_members	wf_proofpoint_trap_delete_list_member