

# fn\_remedy

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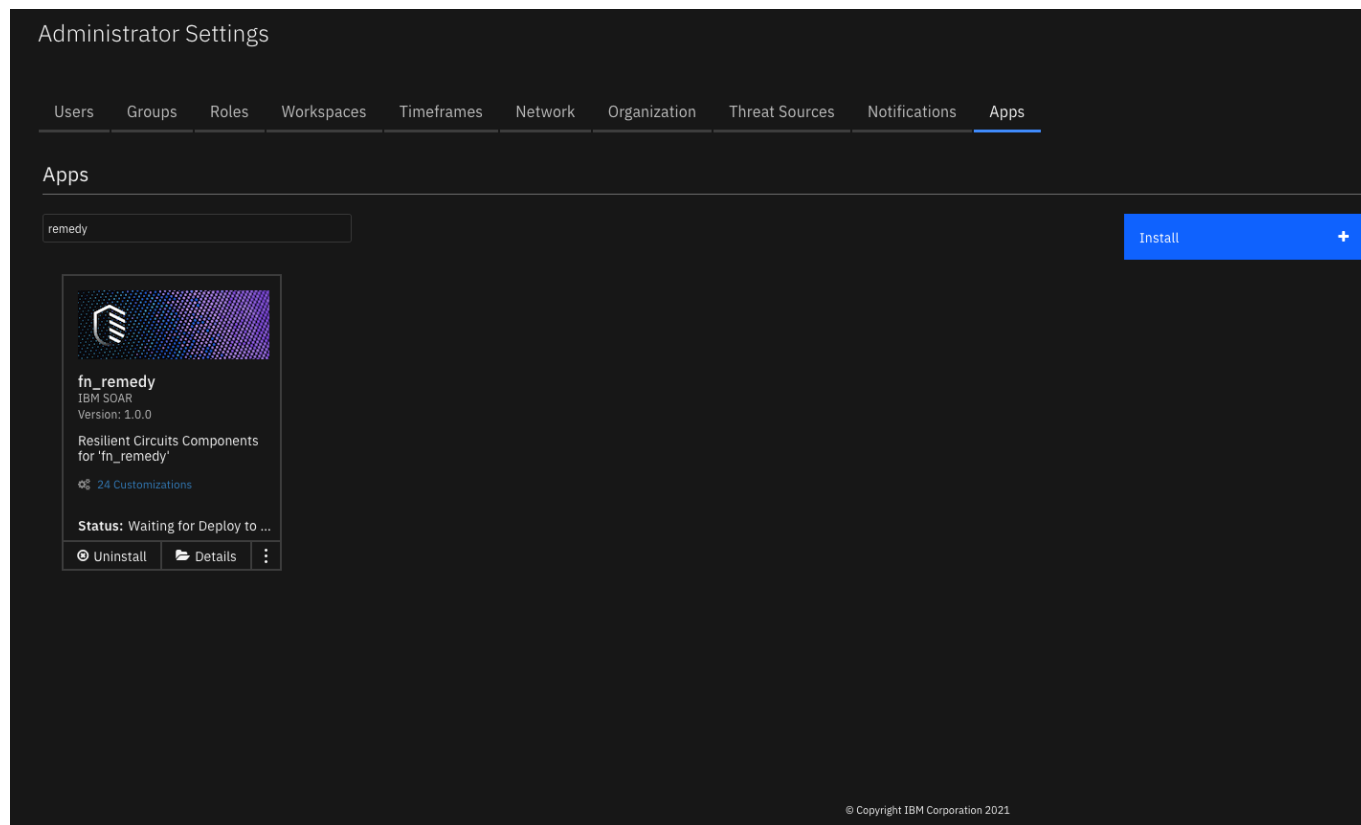
## Release Notes

Version	Date	Notes
1.0.0	04/2021	Initial Release

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## Overview

### Resilient Circuits Components for 'fn\_remedy'



Resilient Circuits Components for 'fn\_remedy.' This integration provides the capability to create new incidents in Remedy from Resilient tasks via the HPD:IncidentInterface\_Create form over the REST API. Once the task is complete, this integration also provides the capability to close existing Remedy Incidents by updating their status to "Resolved."

## Key Features

- Send IBM SOAR Case tasks to Remedy as Incidents
- Close Remedy Incidents from IBM SOAR

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## Requirements

This app supports the IBM Resilient SOAR Platform and the IBM Cloud Pak for Security.

### Resilient platform

The Resilient platform supports two app deployment mechanisms, App Host and integration server.

If deploying to a Resilient platform with an App Host, the requirements are:

- Resilient platform  $\geq$  39.0.0.
- The app is in a container-based format (available from the AppExchange as a [zip](#) file).

If deploying to a Resilient platform with an integration server, the requirements are:

- Resilient platform  $\geq$  39.0.0.
- The app is in the older integration format (available from the AppExchange as a [zip](#) file which contains a [tar.gz](#) file).

- Integration server is running `resilient-circuits>=30.0.0` and `resilient-lib>=39.0.0`.
- If using an API key account, make sure the account provides the following minimum permissions:

Name	Permissions
Org Data	Read
Function	Read
Incidents	Read
Incident Notes	Write
Private Tasks	Read

- Resilient-circuits will also require the following permission to run the customize import process.

Name	Permissions
Org Data	Write

The following Resilient platform guides provide additional information:

- *App Host Deployment Guide*: provides installation, configuration, and troubleshooting information, including proxy server settings.
- *Integration Server Guide*: provides installation, configuration, and troubleshooting information, including proxy server settings.
- *System Administrator Guide*: provides the procedure to install, configure and deploy apps.

The above guides are available on the IBM Knowledge Center at [ibm.biz/resilient-docs](https://ibm.biz/resilient-docs). On this web page, select your Resilient platform version. On the follow-on page, you can find the *App Host Deployment Guide* or *Integration Server Guide* by expanding **Resilient Apps** in the Table of Contents pane. The System Administrator Guide is available by expanding **System Administrator**.

## Cloud Pak for Security

If you are deploying to IBM Cloud Pak for Security, the requirements are:

- IBM Cloud Pak for Security  $\geq 1.4$ .
- Cloud Pak is configured with an App Host.
- The app is in a container-based format (available from the AppExchange as a `zip` file).

The following Cloud Pak guides provide additional information:

- *App Host Deployment Guide*: provides installation, configuration, and troubleshooting information, including proxy server settings. From the Table of Contents, select Case Management and Orchestration & Automation > **Orchestration and Automation Apps**.
- *System Administrator Guide*: provides information to install, configure, and deploy apps. From the IBM Cloud Pak for Security Knowledge Center table of contents, select Case Management and Orchestration & Automation > **System administrator**.

These guides are available on the IBM Knowledge Center at [ibm.biz/cp4s-docs](https://ibm.biz/cp4s-docs). From this web page, select your IBM Cloud Pak for Security version. From the version-specific Knowledge Center page, select Case Management and Orchestration & Automation.

## Proxy Server

The app **does** support a proxy server.

## Remedy Platform

This app requires Remedy IT Service Management Suite 20.x or above with AR Server 9.x or above. The REST API must be enabled and exposed on any port. If the REST API is not already enabled on the Remedy Platform, consult their documentation on [Configuring the REST API](#).

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## Installation

### Install

- To install or uninstall an App or Integration on the *Resilient platform*, see the documentation at [ibm.biz/resilient-docs](https://ibm.biz/resilient-docs).
- To install or uninstall an App on *IBM Cloud Pak for Security*, see the documentation at [ibm.biz/cp4s-docs](https://ibm.biz/cp4s-docs) and follow the instructions above to navigate to Orchestration and Automation.

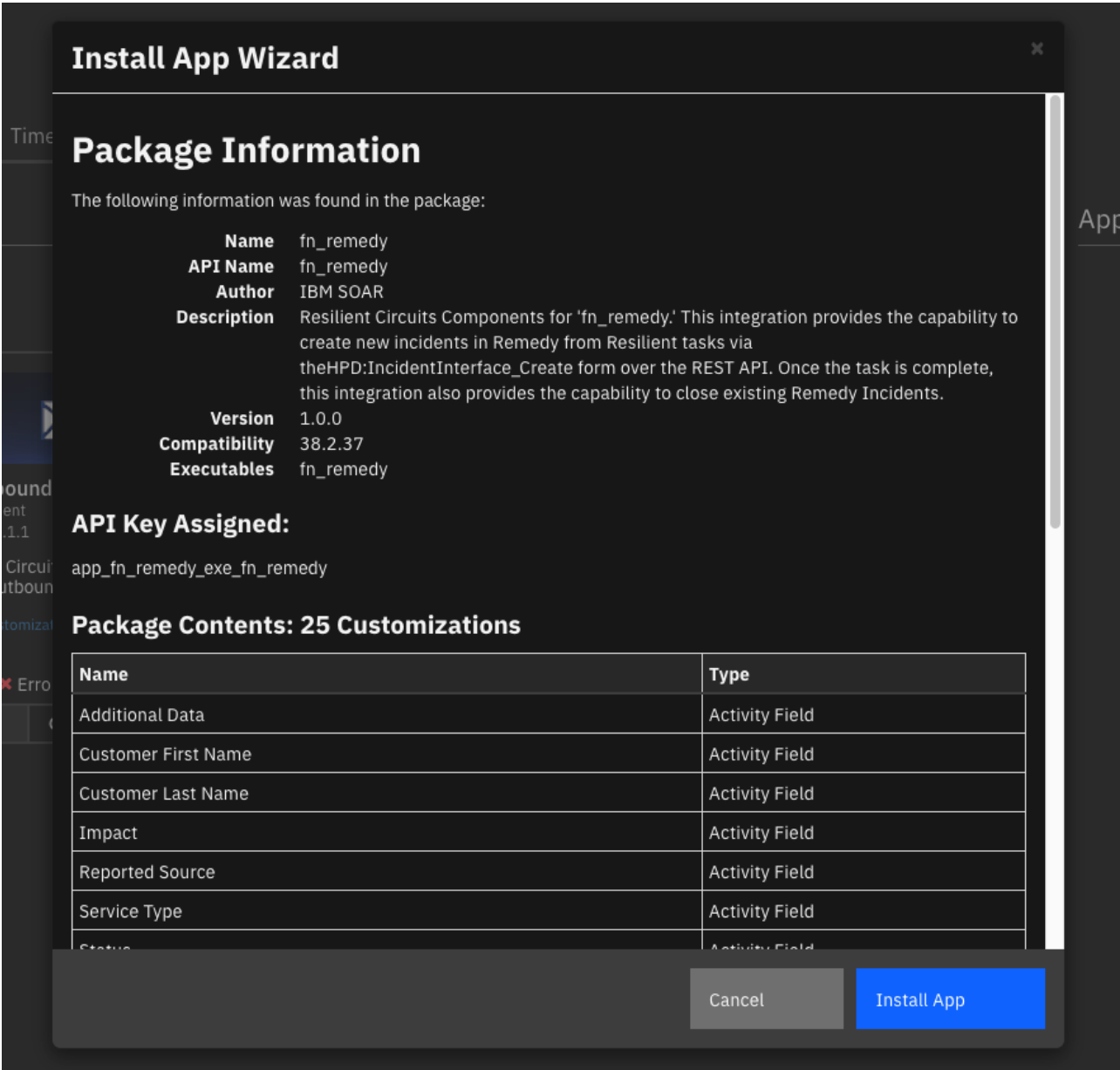
### App Configuration

The following table provides the settings you need to configure the app. These settings are made in the app.config file. See the documentation discussed in the [Requirements](#) section for the procedure.

Config	Required	Example	Description
remedy_host	Yes	<example.domain>	Hostname or IP for the Remedy instance.
remedy_user	Yes	<example_user>	Username to use to authenticate with Remedy.
remedy_password	Yes	xxx	Password to use to authenticate with Remedy.
max_datatable_rows	No	30	Max number of datatable rows to return from the Resilient API when closing an Incident.
remedy_port	No	8443	Port number over which the Remedy REST API is exposed.
verify	No	true	Set to <i>true</i> to make verified requests to Remedy, <i>false</i> otherwise.
http_proxy	No	example.domain	http proxy for request traffic.
https_proxy	No	example.domain	https proxy for request traffic.

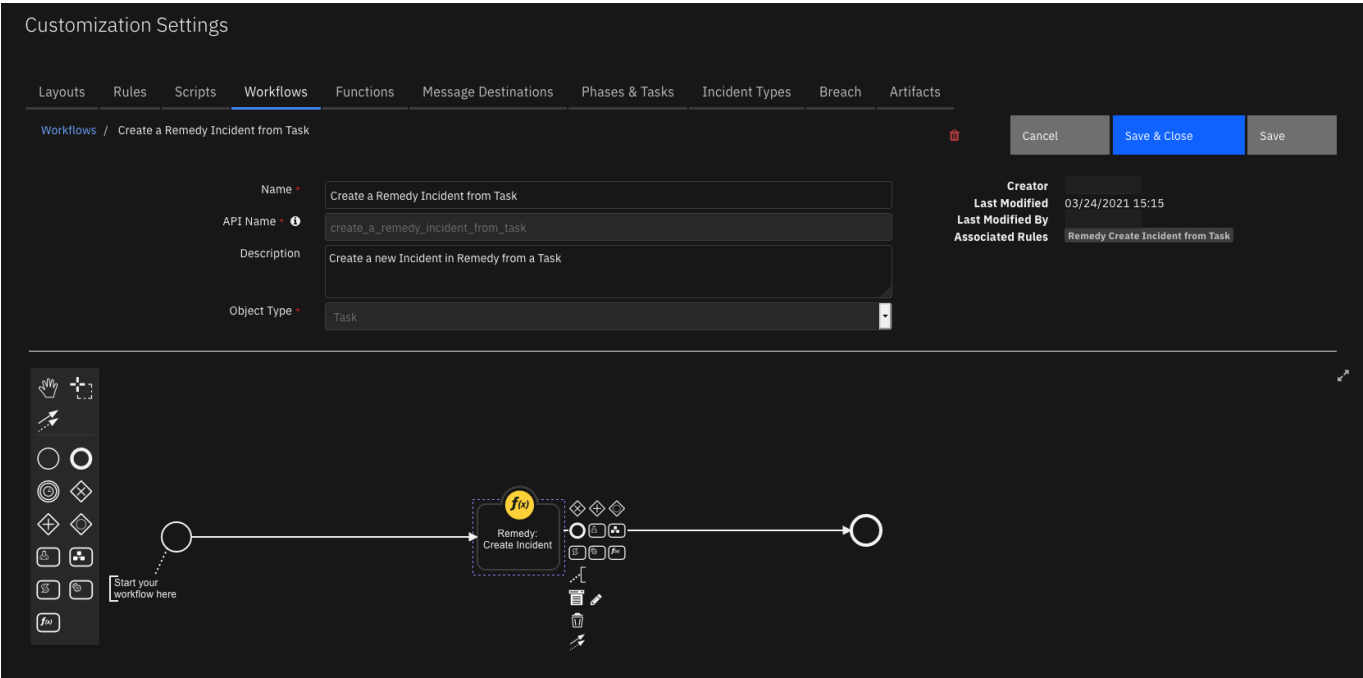
Custom Layouts

- Import the Data Tables and Custom Fields like the screenshot below:

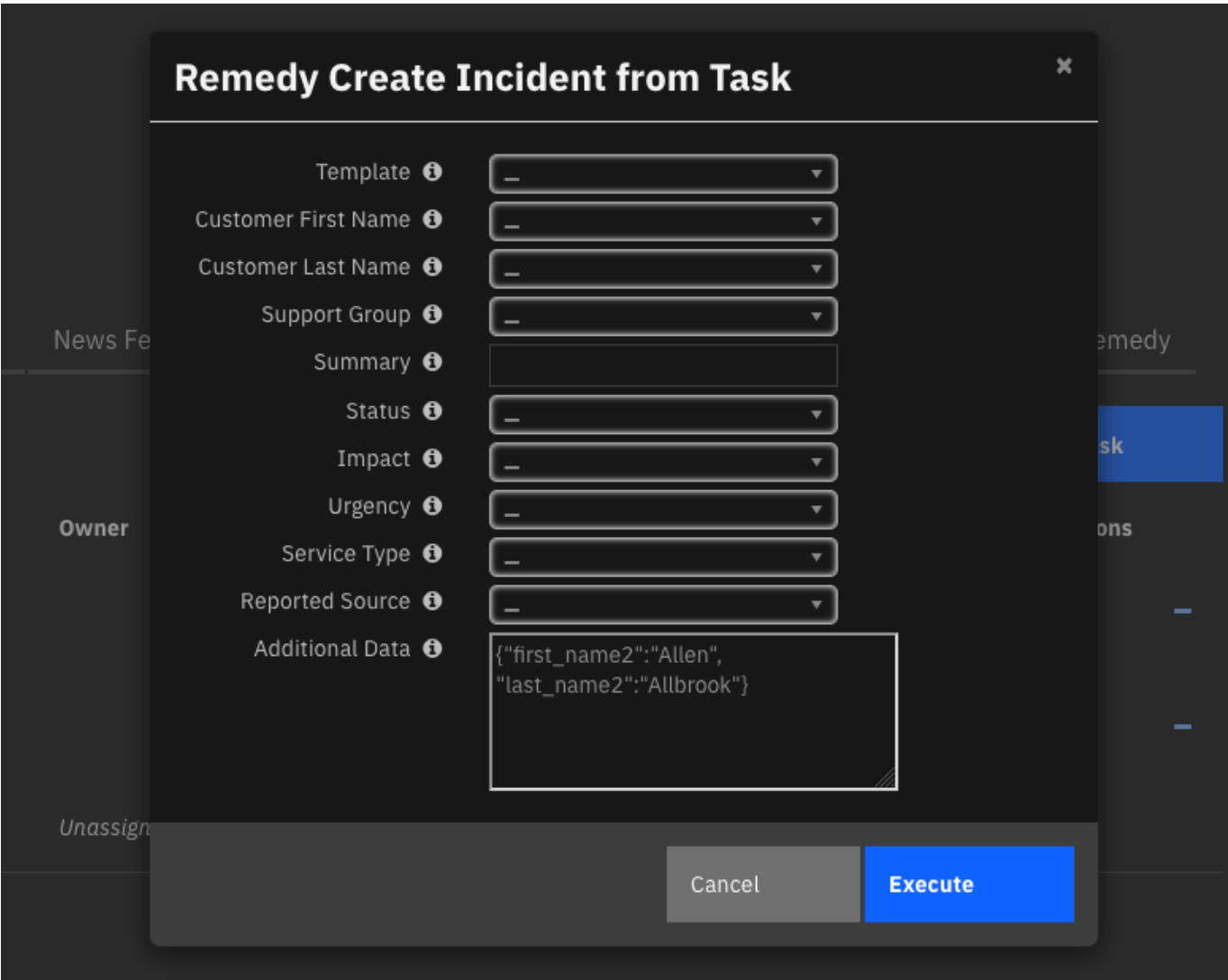


Function - Remedy: Create Incident

Create a new incident in Remedy from a Resilient task.



Activity Fields



Remedy is a highly customizable product, and this integration was designed with those customizations in mind.

Note that when creating an incident in Remedy via the REST API, any auto-routing that is configured in the Remedy platform will continue to apply as it would when creating a new incident in the user interface. This can result in a discrepancy between the data that was submitted by the integration and the data that is present in Remedy once the incident object is actually created. For example, the payload sent to Remedy by the integration could indicate a Status of New for an incident (either directly or via a [template](#).) However, when that ticket is actually created, the auto-routing in Remedy could be configured to assign it to a user and update the Status to Assigned. This is expected, and the true status of the created incident will be reflected in the [datatable](#).

## Templating

To facilitate the use of templates, none of the activity fields are required. If your Remedy server has a template defined that provides all required fields to create an incident, you may simply provided the template name and use this function. Note that it is necessary to manually enter the template name(s) so that they are available in the dropdown. We have provided a stock, out-of-the-box template name as an example. Other template names can be added as necessary by modifying this activity field within the Customization Settings of the platform.

## Other Common Fields

For convenience, several activity fields have been created to handle input for commonly used fields in Remedy such as Status, Impact, and Urgency. These activity fields are not required, as templates can also provide those values. Note that if a template and activity field provide the same value, the activity field will take precedence over the template.

Please note that the user has the ability to customize what values appear in the dropdown menu for each activity field. This action will likely be necessary if not taking advantage of the Remedy's templating functionality via this integration. Activity fields can be modified within the Customization Settings of the platform.

## Additional Data

Finally, the Additional Data activity field allows the mapping of any other values to the Remedy form not covered in the above activity fields, including custom defined fields. The fields must be provided as a Python-like dictionary. For example:

```
{"Short Description": "example incident text", "my_custom_field": 1}
```

The keys provided in this dictionary string must match the API names of fields in the **HPD:IncidentInterface** form. To retrieve the schema for this form on the Remedy server, send an HTTP OPTIONS request to [http://serverName/api/arsys/v1/entry/HPD:IncidentInterface\\_Create](http://serverName/api/arsys/v1/entry/HPD:IncidentInterface_Create). This is the endpoint used to create Remedy incidents over the API, and thus the response will indicate which fields are available to map and any value restrictions.

► Inputs:

Name	Type	Required	Example	Tooltip
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Name	Type	Required	Example	Tooltip
incident_id	number	No	—	-
remedy_incident_name	text	No	—	-
remedy_payload	text	No	—	-
task_id	number	No	—	-

► Outputs:

```

results = {
  'version': '1.0',
  'success': True,
  'reason': None,
  'content': {'values': {
    'Request ID': 'INC0000000000917|INC0000000000917',
    'Submitter': 'Allen',
    'Submit Date': '2021-04-16T18:27:47.000+0000',
    'Assignee Login ID': 'Mary',
    'Last Modified By': 'Remedy Application Service',
    'Last Modified Date': '2021-04-16T18:27:47.000+0000',
    'Status': 'Assigned',
    'Status-History': {'New': {'user': 'Allen',
                                'timestamp': '2021-04-16T18:27:47.000+0000'},
                        'Assigned': {'user': 'Allen',
                                      'timestamp': '2021-04-16T18:27:47.000+0000'}}},
    'Assignee Groups': "1000000005;'Allen';",
    'InstanceId': 'AGGALAS1CWFC9AQR0FY1QQP78CFXL9',
    'Vendor Assignee Groups': None,
    'Vendor Assignee Groups_parent': None,
    'Assignee Groups_parent': '',
    'Product Categorization Tier 1': None,
    'Product Categorization Tier 2': None,
    'Product Categorization Tier 3': None,
    'Department': 'Customer Service',
    'Site Group': 'United States',
    'Region': 'Americas',
    'Product Name': None,
    'Manufacturer': None,
    'Product Model/Version': None,
    'Site': 'Headquarters, Building 1.31',
    'SRAttachment': None,
    'Created_By': None,
    'MaxRetries': None,
    'z1D_Command': None,
    'AccessMode': None,
    'z1D_WorklogDetails': None,
    'z1D_Char02': None,
    'z1D_FormName': None,
    'AppInstanceServer': None,
    'SRInstanceID': 'NA',
  }}

```



```
'zTmpEventGUID': None,
'AppInterfaceForm': None,
'Entry ID': 'INC000000000917',
'z1D_Activity_Type': None,
'z1D_Summary': None,
'z1D_Details': None,
'z1D_Secure_Log': None,
'z1D_View_Access': None,
'z2AF_Act_Attachment_1': None,
'Protocol': None,
'AppLogin': None,
'AppPassword': None,
'PortNumber': None,
'SRMS Registry Instance ID': 'SR0011439CCAD4ec8UQwCk0LAQlQAA',
'SRMSA0IGuid': None,
'SRID': None,
'TemplateID': None,
'z1D_CommunicationSource': None,
'z1D_ActivityDate_tab': None,
'Last_Assigned_Date': None,
'z1D_AssociationDescription': None,
'Component_ID': None,
'mc_ueid': None,
'cell_name': None,
'policy_name': None,
'status_incident': None,
'status_reason2': None,
'root_component_id_list': None,
'root_incident_id_list': None,
'Impact_OR_Root': None,
'bOrphanedRoot': None,
'use_case': None,
'ClientLocale': None,
'ServiceCI': None,
'HPD_CI': None,
'ServiceCI_ReconID': None,
'HPD_CI_ReconID': None,
'z1D_CI_FormName': None,
'Previous_ServiceCI_ReconID': None,
'Previous_HPD_CI_ReconID': None,
'z1D_SR_Instanceid': None,
'Direct Contact Corporate ID': None,
'KMSGUID': None,
'HPD_CI_FormName': None,
'z1D_InterfaceAction': None,
'z1D_WorkInfoSubmitter': None,
'Direct Contact Login ID': None,
'Customer Login ID': 'Allen',
'AttachmentSourceFormName': None,
'AttachmentSourceGUID': None,
'z1D_ConfirmGroup': None,
'z1D_CreatedFromBackEndSynchWI': None,
'InfrastructureEventType': 'None',
'policy_type': None,
```

```
'Chat Session ID': None,
'Modified Chat Session ID': None,
'Auto Open Session': None,
'TimeOfEvent': None,
'FirstWIPDate': None,
'LastWIPDate': None,
'Broker Vendor Name': None,
'Description': 'IBM SOAR Case 2169: Investigate Exposure of
Personal Information/Data',
'Company': 'Calbro Services',
'Country': 'United States',
'State Province': 'New York',
'City': 'New York',
'Organization': 'Information Technology',
'Assigned Support Organization': 'IT Support',
'Last Name': 'Allbrook',
'First Name': 'Allen',
'Middle Initial': None,
'Contact Client Type': 'Office-Based Employee',
'VIP': 'No',
'Contact Sensitivity': 'Standard',
'Desk Location': None,
'Mail Station': None,
'Street': '1114 Eighth Avenue, 31st Floor',
'Zip/Postal Code': '10036',
'Internet E-mail': 'A.Allbrook@calbroservices.com',
'Corporate ID': None,
'Phone Number': '1 212 555-5454 (11)',
'z1D Char01': None,
'Categorization Tier 1': None,
'Categorization Tier 2': None,
'Categorization Tier 3': None,
'z1D Char02': None,
'Site ID': 'STE_SOLN0002846',
'z1D Action': None,
'Assigned Group ID': 'SGP000000000011',
'Person ID': 'PPL000000000013',
'Contact Company': 'Calbro Services',
'Service Type': 'User Service Restoration',
'Status_Reason': None,
'Detailed Description': None,
'Resolution': None,
'Incident Number': 'INC000000000816',
'Urgency': '1-Critical',
'Impact': '1-Extensive/Widespread',
'Priority': 'Critical',
'Priority Weight': 29,
'Reported Source': 'Direct Input',
'Assigned Group': 'Service Desk',
'Assignee': 'Mary Mann',
'Assigned Support Company': 'Calbro Services',
'Assigned Group Shift Name': None,
'Assigned Group Shift ID': None,
'Owner Support Organization': 'IT Support',
```

```
'Number of Attachments': None,
'Vendor Name': None,
'Owner Group': 'Service Desk',
'Owner Support Company': 'Calbro Services',
'Owner Group ID': 'SGP000000000011',
'Reported Date': '2021-04-16T18:27:47.000+0000',
'Responded Date': '2021-04-16T18:27:47.000+0000',
'Last Acknowledged Date': None,
'Last Resolved Date': None,
'Closed Date': None,
'Vendor Ticket Number': None,
'z1D Permission Group ID': None,
'z1D Permission Group List': None,
'Resolution Category': None,
'Direct Contact Internet E-mail': None,
'Vendor Organization': None,
'Vendor Group': None,
'Vendor Group ID': None,
'Total Transfers': 1,
'Resolution Method': None,
'Resolution Category Tier 2': None,
'Resolution Category Tier 3': None,
'Closure Product Category Tier1': None,
'Closure Product Category Tier2': None,
'Closure Product Category Tier3': None,
'Closure Product Name': None,
'Closure Product Model/Version': None,
'Closure Manufacturer': None,
'Estimated Resolution Date': None,
'Required Resolution DateTime': None,
'Direct Contact Company': None,
'Direct Contact Last Name': None,
'Direct Contact First Name': None,
'Direct Contact Middle Initial': None,
'Direct Contact Phone Number': None,
'Direct Contact Organization': None,
'Direct Contact Department': None,
'Direct Contact Region': None,
'Direct Contact Site Group': None,
'Direct Contact Site': None,
'Direct Contact Person ID': None,
'Direct Contact Street': None,
'Direct Contact Country': None,
'Direct Contact State/Province': None,
'Direct Contact City': None,
'Direct Contact Zip/Postal Code': None,
'Direct Contact Time Zone': None,
'Direct Contact Desk Location': None,
'Direct Contact Mail Station': None,
'Direct Contact Location Details': None,
'Direct Contact Site ID': None,
'Direct Contact Country Code': None,
'Direct Contact Area Code': None,
'Direct Contact Local Number': None,
```

```
'Direct Contact Extension': None,
},
  '_links': {'self': [{'href':
'http://35.153.129.209:8008/api/arsys/v1/entry/HPD:IncidentInterface/INC00
0000000917%7CINC0000000000917'
    }]], 'task': {
  'name': 'Investigate Exposure of Personal Information/Data',
  'inc_id': 2169,
  'inc_owner_id': 1,
  'due_date': None,
  'required': True,
  'owner_id': None,
  'user_notes': None,
  'status': 'C',
  'frozen': False,
  'owner_fname': None,
  'owner_lname': None,
  'init_date': 1618584448988,
  'active': True,
  'src_name': None,
  'inc_name': 'new guy',
  'instr_text': None,
  'instructions': None,
  'form': 'data_compromised, determined_date',
  'members': None,
  'perms': {
    'read': True,
    'write': True,
    'comment': True,
    'assign': True,
    'close': True,
    'change_members': True,
    'attach_file': True,
    'read_attachments': True,
    'delete_attachments': True,
    'change_header': False,
  },
  'notes': [],
  'closed_date': 1618597565810,
  'actions': [{'id': 157,
    'name': 'Remedy Create Incident from Task',
    'enabled': True}],
  'phase_id': 1005,
  'category_id': 1,
  'notes_count': 0,
  'attachments_count': 0,
  'task_layout': [],
  'auto_deactivate': True,
  'creator_principal': {
    'id': 1,
    'type': 'user',
    'name': 'a@example.com',
    'display_name': 'Brian Reid',
  },
}
```

```

    'regs': {'88': 'Data Breach Best Practices'},
    'custom': False,
    'id': 380,
    'inc_training': False,
    'cat_name': 'Respond',
    'description': '',
    'at_id': None,
    'private': None,
  }},
  'raw': '{"values": {"Request ID": "INC000000000917|INC000000000917",
"Submitter": "Allen", "Submit Date": "2021-04-16T18:27:47.000+0000",
"Assignee Login ID": "Mary", "Last Modified By": "Remedy Application
Service", "Last Modified Date": "2021-04-16T18:27:47.000+0000", "Status":
"Assigned", "Status-History": {"New": {"user": "Allen", "timestamp":
"2021-04-16T18:27:47.000+0000"}, "Assigned": {"user": "Allen",
"timestamp": "2021-04-16T18:27:47.000+0000"}}, "Assignee Groups":
"1000000005;\'Allen\';", "InstanceId": "AGGALAS1CWFC9AQR0FY1QQP78CFXL9",
"Vendor Assignee Groups": null, "Vendor Assignee Groups_parent": null,
"Assignee Groups_parent": "", "Product Categorization Tier 1": null,
"Product Categorization Tier 2": null, "Product Categorization Tier 3":
null, "Department": "Customer Service", "Site Group": "United States",
"Region": "Americas", "Product Name": null, "Manufacturer": null, "Product
Model/Version": null, "Site": "Headquarters, Building 1.31",
"SRAttachment": null, "Created_By": null, "MaxRetries": null,
"z1D_Command": null, "AccessMode": null, "z1D_WorklogDetails": null,
"z1D_Char02": null, "z1D_FormName": null, "AppInstanceServer": null,
"SRInstanceID": "NA", "zTmpEventGUID": null, "AppInterfaceForm": null,
"Entry ID": "INC000000000917", "z1D_Activity_Type": null, "z1D_Summary":
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null, "z2AF_Act_Attachment_1": null, "Protocol": null, "AppLogin": null,
"AppPassword": null, "PortNumber": null, "SRMS Registry Instance ID":
"SR0011439CCAD4ec8UQwCkOLAQLQAA", "SRMSA0IGuid": null, "SRID": null,
"TemplateID": null, "z1D_CommunicationSource": null,
"z1D_ActivityDate_tab": null, "Last_Assigned_Date": null,
"z1D_AssociationDescription": null, "Component_ID": null, "mc_ueid": null,
"cell_name": null, "policy_name": null, "status_incident": null,
"status_reason2": null, "root_component_id_list": null,
"root_incident_id_list": null, "Impact_OR_Root": null, "bOrphanedRoot":
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"z1D_CI_FormName": null, "Previous_ServiceCI_ReconID": null,
"Previous_HPD_CI_ReconID": null, "z1D_SR_Instanceid": null, "Direct
Contact Corporate ID": null, "KMSGUID": null, "HPD_CI_FormName": null,
"z1D_InterfaceAction": null, "z1D_WorkInfoSubmitter": null, "Direct
Contact Login ID": null, "Customer Login ID": "Allen",
"AttachmentSourceFormName": null, "AttachmentSourceGUID": null,
"z1D_ConfirmGroup": null, "z1D_CreatedFromBackEndSynchWI": null,
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"TimeOfEvent": null, "FirstWIPDate": null, "LastWIPDate": null, "Broker
Vendor Name": null, "Description": "IBM SOAR Case 2169: Investigate
Exposure of Personal Information/Data", "Company": "Calbro Services",
"Country": "United States", "State Province": "New York", "City": "New
York", "Organization": "Information Technology", "Assigned Support

```

```

Organization": "IT Support", "Last Name": "Allbrook", "First Name":
"Allen", "Middle Initial": null, "Contact Client Type": "Office-Based
Employee", "VIP": "No", "Contact Sensitivity": "Standard", "Desk
Location": null, "Mail Station": null, "Street": "1114 Eighth Avenue, 31st
Floor", "Zip/Postal Code": "10036", "Internet E-mail":
"A.Allbrook@calbroservices.com", "Corporate ID": null, "Phone Number": "1
212 555-5454 (11)", "z1D Char01": null, "Categorization Tier 1": null,
"Categorization Tier 2": null, "Categorization Tier 3": null, "z1D
Char02": null, "Site ID": "STE_SOLN0002846", "z1D Action": null, "Assigned
Group ID": "SGP000000000011", "Person ID": "PPL000000000013", "Contact
Company": "Calbro Services", "Service Type": "User Service Restoration",
"Status_Reason": null, "Detailed Description": null, "Resolution": null,
"Incident Number": "INC0000000000816", "Urgency": "1-Critical", "Impact":
"1-Extensive/Widespread", "Priority": "Critical", "Priority Weight": 29,
"Reported Source": "Direct Input", "Assigned Group": "Service Desk",
"Assignee": "Mary Mann", "Assigned Support Company": "Calbro Services",
"Assigned Group Shift Name": null, "Assigned Group Shift ID": null, "Owner
Support Organization": "IT Support", "Number of Attachments": null,
"Vendor Name": null, "Owner Group": "Service Desk", "Owner Support
Company": "Calbro Services", "Owner Group ID": "SGP000000000011",
"Reported Date": "2021-04-16T18:27:47.000+0000", "Responded Date": "2021-
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Date": null, "Closed Date": null, "Vendor Ticket Number": null, "z1D
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Date": null, "Required Resolution DateTime": null, "Direct Contact
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Name": null, "Direct Contact Middle Initial": null, "Direct Contact Phone
Number": null, "Direct Contact Organization": null, "Direct Contact
Department": null, "Direct Contact Region": null, "Direct Contact Site
Group": null, "Direct Contact Site": null, "Direct Contact Person ID":
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"Direct Contact State/Province": null, "Direct Contact City": null,
"Direct Contact Zip/Postal Code": null, "Direct Contact Time Zone": null,
"Direct Contact Desk Location": null, "Direct Contact Mail Station": null,
"Direct Contact Location Details": null, "Direct Contact Site ID": null,
"Direct Contact Country Code": null, "Direct Contact Area Code": null,
"Direct Contact Local Number": null, "Direct Contact Extension": null},
"_links": {"self": [{"href":
"http://35.153.129.209:8008/api/arsys/v1/entry/HPD:IncidentInterface/INC00
0000000917%7CINC0000000000917"}]}},
  'inputs': {
    'incident_id': 2169,
    'remedy_incident_name': 'Investigate Exposure of Personal
Information/Data',
    'remedy_payload': {'format': 'text',
      'content': '{"ApplyTemplate": "Email Issue",
"First_Name": "Allen", "Last_Name": "Allbrook", "Impact": "1-

```

```
Extensive/Widespread", "Urgency": "1-Critical", "Service_Type": "User
Service Restoration", "Status": "New", "Reported Source": "Direct Input",
"Description": null, "Assigned Support Organization": "Service Desk",
"additional_data": {"format": "text", "content": null}}'},
    'task_id': 380,
  },
  'metrics': {
    'version': '1.0',
    'package': 'fn-remedy',
    'package_version': '0.0.0',
    'host': 'Brians-MacBook.hsd1.ma.comcast.net',
    'execution_time_ms': 1690,
    'timestamp': '2021-04-16 14:27:02',
  },
}
```

► Example Pre-Process Script:

```
# Python 2 compatibility for CP4S 1.6
def mk_str(value, quotes=u''):
    if value is None:
        return "null"
    else:
        esc_value = value.replace(u'', u'\\')
        if quotes:
            return u'{0}{1}{0}'.format(quotes, esc_value)
        else:
            return esc_value

payload = u"""{ "ApplyTemplate": {},
  "First_Name": {},
  "Last_Name": {},
  "Impact": {},
  "Urgency": {},
  "Service_Type": {},
  "Status": {},
  "Reported Source": {},
  "Description": {},
  "Assigned Support Organization": {},
  "additional_data": {}
}""".format(mk_str(rule.properties.remedy_template),
mk_str(rule.properties.remedy_first_name),
mk_str(rule.properties.remedy_last_name),
mk_str(rule.properties.remedy_impact),
mk_str(rule.properties.remedy_urgency),
mk_str(rule.properties.remedy_service_type),
mk_str(rule.properties.remedy_status),
mk_str(rule.properties.remedy_reported_source),
mk_str(rule.properties.remedy_note),
mk_str(rule.properties.remedy_support_group),
```

```

    rule.properties.remedy_additional_data.content if
rule.properties.remedy_additional_data.content else "null"
)

# set inputs
inputs.task_id = task.id
inputs.incident_id = incident.id
inputs.remedy_incident_name = task.name
inputs.remedy_payload = payload

```

► Example Post-Process Script:

```

noteText = "<h5> Remedy Create Incident</h5>"

if results["success"]:
    noteText += "<p>Successfully sent task {0} \"{1}\" to Remedy as Incident
Number {2} (UI name) and Request ID {3} (API name).</p>"\
    "".format(results["content"]["task"]["id"], results["content"]["task"]
["name"],\
    results["content"]["values"]["Incident Number"], results["content"]
["values"]["Request ID"])
else:
    noteText += "<p>Unable to send task {0} \"{1}\" to
Remedy</p>".format(results["content"]["task"]["id"], results["content"]
["task"]["name"])
    noteText += "<p>Ensure the activity fields and payload you provide meet
the minimum requirements in your system for incident creation and
routing."

richText = helper.createRichText(noteText)
incident.addNote(richText)

```

---

## Function - Remedy: Close Incident

Close an incident ticket in Remedy by modifying its status. The function will make an API call to Remedy to retrieve the target incident form. If the status of that form is "Resolved," "Closed," or "Cancelled," no change to the incident is made. Otherwise, the status is updated to Resolved with Status Reason "No Further Action Required" and Resolution "Closed from IBM SOAR."

When a task is closed under a case, an automatic rule will trigger containing this function. If a row in the Remedy datatable matches the name and ID of the task just closed, the logic described above will trigger to ensure that the corresponding incident in Remedy is also closed.

In the event that multiple rows in the datatable match the target task (a task has been raised to Remedy more than once), the function will iterate over those rows to ensure that each of the corresponding incidents in Remedy are closed.



Customization Settings

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

Workflows / Close a Remedy Incident from Task

Cancel Save & Close Save

Name

API Name

Description

Object Type

Creator

Last Modified

Last Modified By

Associated Rules

Start your workflow here

Remedy: Close Incident

## ► Inputs:

Name	Type	Required	Example	Tooltip
incident_id	number	No	—	—
remedy_payload	text	No	—	—
task_id	number	No	—	—

## ► Outputs:

```

results = {
  'version': '1.0',
  'success': True,
  'reason': None,
  'content': {'closed': [{'values': {
    'Request ID': 'INC0000000000917|INC0000000000917',
    'Submitter': 'Allen',
    'Submit Date': '2021-04-16T18:27:47.000+0000',
    'Assignee Login ID': 'Mary',
    'Last Modified By': 'Allen',
    'Last Modified Date': '2021-04-16T18:29:53.000+0000',
    'Status': 'Resolved',
    'Status-History': {'New': {'user': 'Allen',
      'timestamp': '2021-04-16T18:27:47.000+0000'},
      'Assigned': {'user': 'Allen',
        'timestamp': '2021-04-16T18:27:47.000+0000'},
      'Resolved': {'user': 'Allen',
        'timestamp': '2021-04-16T18:29:53.000+0000'}
    }},
    'Assignee Groups': "1000000005;Allen;",
    'InstanceId': 'AGGALAS1CWFC9AQROFY1QJP78CFXL9',
    'Vendor Assignee Groups': None,
  }]}]}

```

```
'Vendor Assignee Groups_parent': None,
'Assignee Groups_parent': '',
'Product Categorization Tier 1': None,
'Product Categorization Tier 2': None,
'Product Categorization Tier 3': None,
'Department': 'Customer Service',
'Site Group': 'United States',
'Region': 'Americas',
'Product Name': None,
'Manufacturer': None,
'Product Model/Version': None,
'Site': 'Headquarters, Building 1.31',
'SRAttachment': None,
'Created_By': None,
'MaxRetries': None,
'z1D_Command': None,
'AccessMode': None,
'z1D_WorklogDetails': None,
'z1D_Char02': None,
'z1D_FormName': None,
'AppInstanceServer': None,
'SRInstanceID': 'NA',
'zTmpEventGUID': None,
'AppInterfaceForm': None,
'Entry ID': 'INC000000000917',
'z1D_Activity_Type': None,
'z1D_Summary': None,
'z1D_Details': None,
'z1D_Secure_Log': None,
'z1D_View_Access': None,
'z2AF_Act_Attachment_1': None,
'Protocol': None,
'AppLogin': None,
'AppPassword': None,
'PortNumber': None,
'SRMS Registry Instance ID': 'SR0011439CCAD4ec8UQwCk0LAQlQAA',
'SRMSA0IGuid': None,
'SRID': None,
'TemplateID': None,
'z1D_CommunicationSource': None,
'z1D_ActivityDate_tab': None,
'Last_Assigned_Date': None,
'z1D_AssociationDescription': None,
'Component_ID': None,
'mc_ueid': None,
'cell_name': None,
'policy_name': None,
'status_incident': None,
'status_reason2': None,
'root_component_id_list': None,
'root_incident_id_list': None,
'Impact_OR_Root': None,
'bOrphanedRoot': None,
'use_case': None,
```

```
'ClientLocale': None,
'ServiceCI': None,
'HPD_CI': None,
'ServiceCI_ReconID': None,
'HPD_CI_ReconID': None,
'z1D_CI_FormName': None,
'Previous_ServiceCI_ReconID': None,
'Previous_HPD_CI_ReconID': None,
'z1D_SR_Instanceid': None,
'Direct Contact Corporate ID': None,
'KMSGUID': None,
'HPD_CI_FormName': None,
'z1D_InterfaceAction': None,
'z1D_WorkInfoSubmitter': None,
'Direct Contact Login ID': None,
'Customer Login ID': 'Allen',
'AttachmentSourceFormName': None,
'AttachmentSourceGUID': None,
'z1D_ConfirmGroup': None,
'z1D_CreatedFromBackEndSynchWI': None,
'InfrastructureEventType': 'None',
'policy_type': None,
'Chat Session ID': None,
'Modified Chat Session ID': None,
'Auto Open Session': None,
'TimeOfEvent': None,
'FirstWIPDate': None,
'LastWIPDate': None,
'Broker Vendor Name': None,
'Description': 'IBM SOAR Case 2169: Investigate Exposure of
Personal Information/Data'
,
'Company': 'Calbro Services',
'Country': 'United States',
'State Province': 'New York',
'City': 'New York',
'Organization': 'Information Technology',
'Assigned Support Organization': 'IT Support',
'Last Name': 'Allbrook',
'First Name': 'Allen',
'Middle Initial': None,
'Contact Client Type': 'Office-Based Employee',
'VIP': 'No',
'Contact Sensitivity': 'Standard',
'Desk Location': None,
'Mail Station': None,
'Street': '1114 Eighth Avenue, 31st Floor',
'Zip/Postal Code': '10036',
'Internet E-mail': 'A.Allbrook@calbroservices.com',
'Corporate ID': None,
'Phone Number': '1 212 555-5454 (11)',
'z1D_Char01': None,
'Categorization Tier 1': None,
'Categorization Tier 2': None,
```

```
'Categorization Tier 3': None,
'z1D Char02': None,
'Site ID': 'STE_SOLN0002846',
'z1D Action': None,
'Assigned Group ID': 'SGP000000000011',
'Person ID': 'PPL000000000013',
'Contact Company': 'Calbro Services',
'Service Type': 'User Service Restoration',
'Status_Reason': 'No Further Action Required',
'Detailed Description': None,
'Resolution': 'Closed from IBM SOAR',
'Incident Number': 'INC000000000816',
'Urgency': '1-Critical',
'Impact': '1-Extensive/Widespread',
'Priority': 'Critical',
'Priority Weight': 29,
'Reported Source': 'Direct Input',
'Assigned Group': 'Service Desk',
'Assignee': 'Mary Mann',
'Assigned Support Company': 'Calbro Services',
'Assigned Group Shift Name': None,
'Assigned Group Shift ID': None,
'Owner Support Organization': 'IT Support',
'Number of Attachments': None,
'Vendor Name': None,
'Owner Group': 'Service Desk',
'Owner Support Company': 'Calbro Services',
'Owner Group ID': 'SGP000000000011',
'Reported Date': '2021-04-16T18:27:47.000+0000',
'Responded Date': '2021-04-16T18:27:47.000+0000',
'Last Acknowledged Date': None,
'Last Resolved Date': '2021-04-16T18:29:53.000+0000',
'Closed Date': None,
'Vendor Ticket Number': None,
'z1D Permission Group ID': None,
'z1D Permission Group List': None,
'Resolution Category': None,
'Direct Contact Internet E-mail': None,
'Vendor Organization': None,
'Vendor Group': None,
'Vendor Group ID': None,
'Total Transfers': 1,
'Resolution Method': None,
'Resolution Category Tier 2': None,
'Resolution Category Tier 3': None,
'Closure Product Category Tier1': None,
'Closure Product Category Tier2': None,
'Closure Product Category Tier3': None,
'Closure Product Name': None,
'Closure Product Model/Version': None,
'Closure Manufacturer': None,
'Estimated Resolution Date': None,
'Required Resolution DateTime': None,
'Direct Contact Company': None,
```

```

'Direct Contact Last Name': None,
'Direct Contact First Name': None,
'Direct Contact Middle Initial': None,
'Direct Contact Phone Number': None,
'Direct Contact Organization': None,
'Direct Contact Department': None,
'Direct Contact Region': None,
'Direct Contact Site Group': None,
'Direct Contact Site': None,
'Direct Contact Person ID': None,
'Direct Contact Street': None,
'Direct Contact Country': None,
'Direct Contact State/Province': None,
'Direct Contact City': None,
'Direct Contact Zip/Postal Code': None,
'Direct Contact Time Zone': None,
'Direct Contact Desk Location': None,
'Direct Contact Mail Station': None,
'Direct Contact Location Details': None,
'Direct Contact Site ID': None,
'Direct Contact Country Code': None,
'Direct Contact Area Code': None,
'Direct Contact Local Number': None,
'Direct Contact Extension': None,
},
  '_links': {'self': [{'href':
'http://35.153.129.209:8008/api/arsys/v1/entry/HPD:IncidentInterface/INC00
0000000917%7CINC0000000000917'
    }]}], 'skipped': []},
  'raw': '{"closed": [{"values": {"Request ID":
"INC0000000000917|INC0000000000917", "Submitter": "Allen", "Submit Date":
"2021-04-16T18:27:47.000+0000", "Assignee Login ID": "Mary", "Last
Modified By": "Allen", "Last Modified Date": "2021-04-
16T18:29:53.000+0000", "Status": "Resolved", "Status-History": {"New":
{"user": "Allen", "timestamp": "2021-04-16T18:27:47.000+0000"},
"Assigned": {"user": "Allen", "timestamp": "2021-04-
16T18:27:47.000+0000"}, "Resolved": {"user": "Allen", "timestamp": "2021-
04-16T18:29:53.000+0000"}}, "Assignee Groups": "1000000005;\ Allen\ ";",
"InstanceId": "AGGALAS1CWFC9AQR0FY1QQP78CFXL9", "Vendor Assignee Groups":
null, "Vendor Assignee Groups_parent": null, "Assignee Groups_parent": "",
"Product Categorization Tier 1": null, "Product Categorization Tier 2":
null, "Product Categorization Tier 3": null, "Department": "Customer
Service", "Site Group": "United States", "Region": "Americas", "Product
Name": null, "Manufacturer": null, "Product Model/Version": null, "Site":
"Headquarters, Building 1.31", "SRAttachment": null, "Created_By": null,
"MaxRetries": null, "z1D_Command": null, "AccessMode": null,
"z1D_WorklogDetails": null, "z1D_Char02": null, "z1D_FormName": null,
"AppInstanceServer": null, "SRInstanceID": "NA", "zTmpEventGUID": null,
"AppInterfaceForm": null, "Entry ID": "INC0000000000917",
"z1D_Activity_Type": null, "z1D_Summary": null, "z1D_Details": null,
"z1D_Secure_Log": null, "z1D_View_Access": null, "z2AF_Act_Attachment_1":
null, "Protocol": null, "AppLogin": null, "AppPassword": null,
"PortNumber": null, "SRMS Registry Instance ID":
"SR0011439CCAD4ec8UQwCkOLAQLQAA", "SRMSA0IGuid": null, "SRID": null,

```

```
"TemplateID": null, "z1D_CommunicationSource": null,
"z1D_ActivityDate_tab": null, "Last_Assigned_Date": null,
"z1D_AssociationDescription": null, "Component_ID": null, "mc_ueid": null,
"cell_name": null, "policy_name": null, "status_incident": null,
"status_reason2": null, "root_component_id_list": null,
"root_incident_id_list": null, "Impact_OR_Root": null, "bOrphanedRoot":
null, "use_case": null, "ClientLocale": null, "ServiceCI": null, "HPD_CI":
null, "ServiceCI_ReconID": null, "HPD_CI_ReconID": null,
"z1D_CI_FormName": null, "Previous_ServiceCI_ReconID": null,
"Previous_HPD_CI_ReconID": null, "z1D_SR_Instanceid": null, "Direct
Contact Corporate ID": null, "KMSGUID": null, "HPD_CI_FormName": null,
"z1D_InterfaceAction": null, "z1D_WorkInfoSubmitter": null, "Direct
Contact Login ID": null, "Customer Login ID": "Allen",
"AttachmentSourceFormName": null, "AttachmentSourceGUID": null,
"z1D_ConfirmGroup": null, "z1D_CreatedFromBackEndSynchWI": null,
"InfrastructureEventType": "None", "policy_type": null, "Chat Session ID":
null, "Modified Chat Session ID": null, "Auto Open Session": null,
"TimeOfEvent": null, "FirstWIPDate": null, "LastWIPDate": null, "Broker
Vendor Name": null, "Description": "IBM SOAR Case 2169: Investigate
Exposure of Personal Information/Data", "Company": "Calbro Services",
"Country": "United States", "State Province": "New York", "City": "New
York", "Organization": "Information Technology", "Assigned Support
Organization": "IT Support", "Last Name": "Allbrook", "First Name":
"Allen", "Middle Initial": null, "Contact Client Type": "Office-Based
Employee", "VIP": "No", "Contact Sensitivity": "Standard", "Desk
Location": null, "Mail Station": null, "Street": "1114 Eighth Avenue, 31st
Floor", "Zip/Postal Code": "10036", "Internet E-mail":
"A.Allbrook@calbroservices.com", "Corporate ID": null, "Phone Number": "1
212 555-5454 (11)", "z1D_Char01": null, "Categorization Tier 1": null,
"Categorization Tier 2": null, "Categorization Tier 3": null, "z1D
Char02": null, "Site ID": "STE_SOLN0002846", "z1D Action": null, "Assigned
Group ID": "SGP000000000011", "Person ID": "PPL000000000013", "Contact
Company": "Calbro Services", "Service Type": "User Service Restoration",
"Status_Reason": "No Further Action Required", "Detailed Decription":
null, "Resolution": "Closed from IBM SOAR", "Incident Number":
"INC0000000000816", "Urgency": "1-Critical", "Impact": "1-
Extensive/Widespread", "Priority": "Critical", "Priority Weight": 29,
"Reported Source": "Direct Input", "Assigned Group": "Service Desk",
"Assignee": "Mary Mann", "Assigned Support Company": "Calbro Services",
"Assigned Group Shift Name": null, "Assigned Group Shift ID": null, "Owner
Support Organization": "IT Support", "Number of Attachments": null,
"Vendor Name": null, "Owner Group": "Service Desk", "Owner Support
Company": "Calbro Services", "Owner Group ID": "SGP000000000011",
"Reported Date": "2021-04-16T18:27:47.000+0000", "Responded Date": "2021-
04-16T18:27:47.000+0000", "Last Acknowledged Date": null, "Last Resolved
Date": "2021-04-16T18:29:53.000+0000", "Closed Date": null, "Vendor Ticket
Number": null, "z1D Permission Group ID": null, "z1D Permission Group
List": null, "Resolution Category": null, "Direct Contact Internet E-
mail": null, "Vendor Organization": null, "Vendor Group": null, "Vendor
Group ID": null, "Total Transfers": 1, "Resolution Method": null,
"Resolution Category Tier 2": null, "Resolution Category Tier 3": null,
"Closure Product Category Tier1": null, "Closure Product Category Tier2":
null, "Closure Product Category Tier3": null, "Closure Product Name":
null, "Closure Product Model/Version": null, "Closure Manufacturer": null,
```

```

"Estimated Resolution Date": null, "Required Resolution DateTime": null,
"Direct Contact Company": null, "Direct Contact Last Name": null, "Direct
Contact First Name": null, "Direct Contact Middle Initial": null, "Direct
Contact Phone Number": null, "Direct Contact Organization": null, "Direct
Contact Department": null, "Direct Contact Region": null, "Direct Contact
Site Group": null, "Direct Contact Site": null, "Direct Contact Person
ID": null, "Direct Contact Street": null, "Direct Contact Country": null,
"Direct Contact State/Province": null, "Direct Contact City": null,
"Direct Contact Zip/Postal Code": null, "Direct Contact Time Zone": null,
"Direct Contact Desk Location": null, "Direct Contact Mail Station": null,
"Direct Contact Location Details": null, "Direct Contact Site ID": null,
"Direct Contact Country Code": null, "Direct Contact Area Code": null,
"Direct Contact Local Number": null, "Direct Contact Extension": null},
"_links": {"self": [{"href":
"http://35.153.129.209:8008/api/arsys/v1/entry/HPD:IncidentInterface/INC00
0000000917%7CINC0000000000917"}]}}, "skipped": []}',
  'inputs': {'incident_id': 2169,
            'remedy_payload': {'format': 'text',
                              'content': '{"Status_Reason": "foo"}'}, 'task_id': 380},
  'metrics': {
    'version': '1.0',
    'package': 'fn-remedy',
    'package_version': '0.0.0',
    'host': 'Brians-MacBook.hsd1.ma.comcast.net',
    'execution_time_ms': 2443,
    'timestamp': '2021-04-16 14:29:08',
  },
}

```

#### ► Example Pre-Process Script:

```

# Python 2 compatibility for CP4S 1.6
def mk_str(value, quotes=u''):
    if value is None:
        return "null"
    else:
        esc_value = value.replace(u'', u'\\')
        if quotes:
            return u'{0}{1}{0}'.format(quotes, esc_value)
        else:
            return esc_value

inputs.task_id = task.id
inputs.incident_id = incident.id

# Use this section to add key, value pairs to send to Remedy
# These values will be added/updated on the target Remedy incident,
# so they must conform with the "HPD:IncidentInterface_Create" schema
payload = """"{"Status_Reason": "foo"}""""

```

```
inputs.remedy_payload = payload if payload else ''
```

► Example Post-Process Script:

```
noteText = "<h5>Remedy Close Incident:</h5>"

if results["success"]:
    if not results["content"]["closed"] and not results["content"]
["skipped"]:
        "<p>No record of task ID {0} in Remedy. Nothing was updated.
</p>".format(task.id)
    else:
        if results["content"]["closed"]:
            noteText += "<p>The following incidents were matched in Remedy and
the successfully closed:</p>"
            for item in results["content"]["closed"]:
                noteText += "<p>    Incident Number {0}, Request ID: {1}
</p>".format(item["values"]["Incident Number"], item["values"]["Request
ID"])
            if results["content"]["skipped"]:
                noteText += "<p>The following incidents were not able to be closed.
Common reasons include that the incident has been previously closed, " \
                "the incident has been deleted, or the payload sent to Remedy was
incomplete according to the requirements of your specific system:</p>"
                for item in results["content"]["skipped"]:
                    noteText += "<p>    Incident Number {0}, Request ID: {1}
</p>".format(item["values"]["Incident Number"], item["values"]["Request
ID"])
            else:
                noteText += "<p>Function failed to complete.</p>"

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

---

## Data Table - Remedy Linked Incidents Reference Table



remedy

Description

No description.

[Tasks](#)
[Details](#)
[Breach](#)
[Notes](#)
[Members](#)
[News Feed](#)
[Attachments](#)
[Stats](#)
[Timeline](#)
[Artifacts](#)
[Email](#)
[Pipl](#)
[Remedy](#)

Edit

Remedy Linked Incidents Reference Table

Search...

Print

Export

Timestamp	Task ID ⓘ	Remedy ID ⓘ	Status ⓘ	Extra
04/07/2021 10:32:58	377: Investigate Exposure of Personal Information/Data	INC0000000000806 INC0000000000806	Closed	—

Displaying 1 - 1 of 1

**API Name:**

remedy\_linked\_incidents\_reference\_table

**Columns:**

Column Name	API Access Name	Type	Tooltip
Extra	extra	textarea	Incident ID of the Remedy form entry.
Remedy ID	remedy_id	text	Request ID of the Remedy form entry.
Status	status	textarea	Last status applied to the Remedy Incident.
Task ID	taskincident_id	text	ID of the Task and its description.
Timestamp	timestamp	datetimepicker	-

**Data explanation**

The Remedy Linked Incidents Reference Table will be updated when either the **Remedy: Create Incident** or **Remedy: Close Incident** function completes.

**Remedy: Create Incident**

Once an incident is posted to Remedy, the auto-routing feature has the potential to further alter the values of some of the fields within the Remedy incident (see [Activity Fields](#) for more information on this). Due to this potential, the integration will fetch the incident back from the Remedy server after it has been created to ensure the datatable is updated with accurate information. Once the incident data is received from Remedy, relevant fields are recorded in the datatable.

One item to note is the difference between the **Remedy ID** and **Extra** columns. As noted in [columns](#), above, both of these columns contain some sort of ID value relevant to the Remedy Incident.

The **Remedy ID** column contains the "Request ID" of the form entry. Often, this value is of the form **INCxxxxxxx|INCxxxxxxx**. Although this notation may appear to be two numbers separated by the **|** character, the entire string together is a single Request ID value. This ID is used to refer to the incident over the API.

The **Extra** columns contains the "Incident Number" of the form entry. Often this value is of the form **INCxxxxx**, but will likely not look like either component of the Request ID. This Incident Number is the ID that appears in the UI for the incident inside the Incident Management Console.

**Remedy: Close Incident**

Once an Incident is Closed in Remedy, the datatable will be updated with the new status of that incident.

Rules

Rule Name	Object	Workflow Triggered
Remedy Create Incident from Task	task	<b>create_a_remedy_incident_from_task</b>
Remedy Close Incident from Task	task	<b>close_a_remedy_incident_from_task</b>

Troubleshooting & Support

Refer to the documentation listed in the Requirements section for troubleshooting information.

For Support

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