

Table of Contents

- **User Guide:** `fn_task_utils_v1.0.0`
 - Table of Contents
 - App Config Settings:
 - Function - Task Utils: Add Note
 - Function - Task Utils: Close Task
 - Function - Task Utils: Create Custom Task
 - Function - Task Utils: Update Task
 - Rules

App Config Settings:

None

Function - Task Utils: Add Note

A function which takes in the ID of an existing Task and then adds either a plain or richtext note to the Task.

1 / 12

► Inputs:

| Name | Type | Required | Example | Description |
|-----------------------------------|---------------------|----------|---------|---|
| <code>incident_id</code> | <code>number</code> | No | – | - |
| <code>task_id</code> | <code>number</code> | No | – | - |
| <code>task_name</code> | <code>text</code> | No | – | - |
| <code>task_utils_note_type</code> | <code>select</code> | No | – | A field used to specify where the field <code>task_utils_note_body</code> is plaintext or html. |
| <code>task_utils_note_body</code> | <code>text</code> | No | – | A Text field used to specify the note that will be added to a given Task. Accepts text or html and is parsed based on the result of <code>task_utils_note_type</code> . Default is text |

► Outputs:

```

results = {
  'content': {
    'task': {
      'actions': [],
      'children': [],
      'comment_perms': {
        'delete': True,
        'update': True
      },
      'create_date': 1556530480087,
      'id': 260,
      'inc_id': 2095,
      'inc_name': 'Test',
      'inc_owner': 39,
      'is_deleted': False,
      'mentioned_users': [],
      'modify_date': 1556530480087,
      'modify_principal': {
        'display_name': 'Resilient Sysadmin',
        'id': 39,
        'name': 'ryan@example.com',
        'type': 'user'
      },
      'modify_user': {
        'first_name': 'Resilient',
        'id': 39,
        'last_name': 'Sysadmin'
      },
      'parent_id': None,
      'task_at_id': 89,
      'task_custom': True,

```

```

        'task_id': 2251224,
        'task_members': None,
        'task_name': 'Review the output and status of
anti-virus '
        'software',
        'text': '<div>test</div>',
        'type': 'task',
        'user_fname': 'Resilient',
        'user_id': 39,
        'user_lname': 'Sysadmin',
        'user_name': 'Resilient Sysadmin'
    },
    'task_notes': [{
        'actions': [],
        'children': [],
        'comment_perms': {
            'delete': True,
            'update': True
        },
        'create_date': 1556530099314,
        'id': 254,
        'inc_id': 2095,
        'inc_name': 'Test',
        'inc_owner': 39,
        'is_deleted': False,
        'mentioned_users': [],
        'modify_date': 1556530099314,
        'modify_principal': {
            'display_name': 'Resilient '
            'Sysadmin',
            'id': 39,
            'name': 'ryan@example.com',
            'type': 'user'
        },
        'modify_user': {
            'first_name': 'Resilient',
            'id': 39,
            'last_name': 'Pennyworth'
        },
        'parent_id': None,
        'task_at_id': 89,
        'task_custom': True,
        'task_id': 2251224,
        'task_members': None,
        'task_name': 'Review the output and status
of '
        'anti-virus software',
        'text': '<div>test</div>',
        'type': 'task',
        'user_fname': 'Resilient',
        'user_id': 39,
        'user_lname': 'Sysadmin',
        'user_name': 'Resilient Sysadmin'
    }
}

```

```
    ],
    'inputs': {
        'incident_id': 2095,
        'task_name': 'Review the output and status of anti-virus
software',
        'task_utils_note_body': 'test',
        'task_utils_note_type': {
            'id': 1800,
            'name': 'text'
        }
    },
    'metrics': {
        'execution_time_ms': 800,
        'host': 'rg-mbp-18.galway.ie.ibm.com',
        'package': 'unknown',
        'package_version': 'unknown',
        'timestamp': '2019-04-29 10:34:40',
        'version': '1.0'
    },
    'raw': '<raw output of the payload>',
    'reason': None,
    'success': True,
    'version': '1.0'
}
```

► Example Pre-Process Script:

```
inputs.incident_id = incident.id
```

► Example Post-Process Script:

```
None
```

Function - Task Utils: Close Task

A function which will attempt to close either a System or Custom task using the REST API.

► Inputs:

► Outputs:

5 / 12

```
'raw': '{"task_id": 2251208, "task_name": "Interview key
individuals"}',
'reason': None,
'success': True,
'version': '1.0'
}
```

► Example Pre-Process Script:

```
inputs.incident_id = incident.id
inputs.task_name = rule.properties.task_utils_task_name
```

► Example Post-Process Script:

None

Function - Task Utils: Create Custom Task

A function which can be used to create a custom task using the REST API.

The screenshot displays the Resilient platform's 'Customization Settings' page, specifically the 'Workflows' tab. The workflow being configured is named 'Example: Task Utils - Create Custom Task'. The configuration details include:

- Name:** Example: Task Utils - Create Custom Task
- API Name:** task_utils_create_custom_task
- Description:** An example workflow used to demonstrate how you can create a custom task using the Task Utils Integration. This example workflow shows how you can use the Pre-Processing script to prepare a custom JSON Payload.
- Object Type:** Incident
- Creator:** Alfred Pennyworth
- Last Modified:** 13/06/2019 17:38
- Last Modified By:** Alfred Pennyworth
- Associated Rules:** Example: Task Utils - Create Custom Task

The workflow diagram shows a sequence of steps: a start node (circle with a plus sign) labeled 'Start your workflow here', followed by a task node (rounded rectangle with an 'f()' icon) labeled 'Task Utils: Create Custom Task', and ending with a final node (circle with a dot). A toolbar on the left contains various icons for workflow construction, including a hand, a plus sign, a lightning bolt, and various geometric shapes.

► Inputs:

| Name | Type | Required | Example | Description |
|---------------------------------|-----------------------|----------|---------|---|
| <code>incident_id</code> | <code>number</code> | No | – | - |
| <code>task_name</code> | <code>text</code> | No | – | - |
| <code>task_utils_payload</code> | <code>textarea</code> | No | – | A JSON Object which may contain the Phase, Instruction Set or Assigned User values for a new task |

► Outputs:

```

results = {
    'content': {
        'task': {
            'id': 2251231
        },
        'task_id': 2251231
    },
    'inputs': {
        'incident_id': 2095,
        'task_name': 'New Task',
        'task_utils_payload': {
            'content':
'{"phase_id":"Initial","required":true,"instr_text":"Close '
            'out this required Task"}',
            'format': 'text'
        }
    },
    'metrics': {
        'execution_time_ms': 708,
        'host': 'rg-mbp-18.galway.ie.ibm.com',
        'package': 'unknown',
        'package_version': 'unknown',
        'timestamp': '2019-04-29 10:37:17',
        'version': '1.0'
    },
    'raw': '{"task_id": 2251231, "task": {"id": 2251231}}',
    'reason': None,
    'success': True,
    'version': '1.0'
}

```

► Example Pre-Process Script:

```

#####
### Define pre-processing functions ###
#####
payload = {
    "required": True,

```

```

"instr_text": "Close out this required Task",
"phase_id": "Initial"
}

def dict_to_json_str(d):
    """Function that converts a dictionary into a JSON stringself.
    Supports basestring, bool and int.
    If the value is None, it sets it to False"""

    json_str = '{{ {0} }'
    json_entry = '{{0}}:{{1}}'
    json_entry_str = '{{0}}:{{1}}'
    entries = []

    for entry in d:
        key = entry
        value = d[entry]

        if value is None:
            value = False

        if isinstance(value, basestring):
            entries.append(json_entry_str.format(key, value))

        elif isinstance(value, bool):
            value = 'true' if value == True else 'false'
            entries.append(json_entry.format(key, value))

        else:
            entries.append(json_entry.format(key, value))

    return '{' + ','.join(entries) + '}'

# If you don't already have something in task_utils_payload
if inputs.task_utils_payload != None:
    # prepare a JSON payload using above code;
    inputs.task_utils_payload = dict_to_json_str(payload)

# Take the incident id from this incident
inputs.incident_id = incident.id

# If you specified a value in the Activity Field then use it for task_name
if rule.properties.task_utils_task_name != None:
    inputs.task_name = rule.properties.task_utils_task_name

```

► Example Post-Process Script:

None

Function - Task Utils: Update Task

A function which takes in the ID of an existing Task and a task_utils_payload which is a JSON String of the task details to update.

resilient

Dashboards Simulations Incidents **Create**

Alfred Penny... WayneCorp

Customization Settings

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

Workflows / Example: Task Utils - Mark Task a Optional

Cancel Save & Close Save

Name *
Example: Task Utils - Mark Task a Optional

API Name * ⓘ
task_utils_mark_task_optional

Description
An example workflow which is invoked on a Task object setting its Required attribute to false.

Object Type *
Task

Creator
Alfred Pennyworth

Last Modified
13/06/2019 17:38

Last Modified By
Alfred Pennyworth

Associated Rules
Example: Task Utils - Make this Task Optional

Start your workflow here

Task Utils: Update Task

► Inputs:

| Name | Type | Required | Example | Description |
|--------------------|----------|----------|---------|---|
| incident_id | number | No | — | - |
| task_id | number | No | — | - |
| task_name | text | No | — | - |
| task_utils_payload | textarea | No | — | A JSON Object which may contain the Phase, Instruction Set or Assigned User values for a new task |

► Outputs:

```
results = {
  'content': {
    'task': {
      'actions': [{
        'enabled': True,
        'id': 31,
        'name': 'Task Utils: Make this Task '
```

```
        'Optional'
    }],
    'active': True,
    'at_id': 105,
    'attachments_count': 0,
    'auto_deactivate': True,
    'cat_name': 'Engage',
    'category_id': None,
    'closed_date': None,
    'creator': {
        'cell': '',
        'create_date': 1542899612421,
        'display_name': 'Resilient Sysadmin',
        'email': 'ryan@example.com',
        'fname': 'Resilient',
        'id': 39,
        'is_external': False,
        'last_login': 1556530476322,
        'last_modified_time': 1556530476322,
        'lname': 'Sysadmin',
        'locked': False,
        'password_changed': False,
        'phone': '',
        'status': 'A',
        'title': ''
    },
    'creator_principal': {
        'display_name': 'Resilient Sysadmin',
        'id': 39,
        'name': 'ryan@example.com',
        'type': 'user'
    },
    'custom': True,
    'description': None,
    'due_date': None,
    'form': None,
    'frozen': False,
    'id': 2251210,
    'inc_id': 2095,
    'inc_name': 'Test',
    'inc_owner_id': 39,
    'inc_training': False,
    'init_date': 1556530018342,
    'instr_text': 'Execute an initial triage of the '
    'incident.',
    'members': None,
    'name': 'Initial Triage',
    'notes': [],
    'notes_count': 0,
    'owner_fname': None,
    'owner_id': None,
    'owner_lname': None,
    'perms': {
        'assign': True,
```

```

        'attach_file': True,
        'change_members': True,
        'close': True,
        'comment': True,
        'delete_attachments': True,
        'read': True,
        'read_attachments': True,
        'write': True
    },
    'phase_id': 1010,
    'private': None,
    'regs': {},
    'required': False,
    'src_name': None,
    'status': '0',
    'task_layout': [],
    'user_notes': None
},
'task_id': 2251210
},
'inputs': {
    'incident_id': 2095,
    'task_id': 2251210,
    'task_utils_payload': {
        'content': '{\n"required": false\n}',
        'format': 'text'
    }
},
'metrics': {
    'execution_time_ms': 455,
    'host': 'rg-mbp-18.galway.ie.ibm.com',
    'package': 'unknown',
    'package_version': 'unknown',
    'timestamp': '2019-04-29 10:35:59',
    'version': '1.0'
},
'raw': '<raw output of the payload>',
'reason': None,
'success': True,
'version': '1.0'
}

```

► Example Pre-Process Script:

```

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

```

► Example Post-Process Script:

None

Rules

| Rule Name | Object | Workflow Triggered |
|---|----------|-------------------------------|
| Example: Task Utils - Add Note to Task | incident | task_utils_add_note_to_task |
| Example: Task Utils - Close Task | incident | task_utils_close_task |
| Example: Task Utils - Create Custom Task | incident | task_utils_create_custom_task |
| Example: Task Utils - Make this Task Optional | task | task_utils_mark_task_optional |