User Guide: fn_task_utils_v1.0.0

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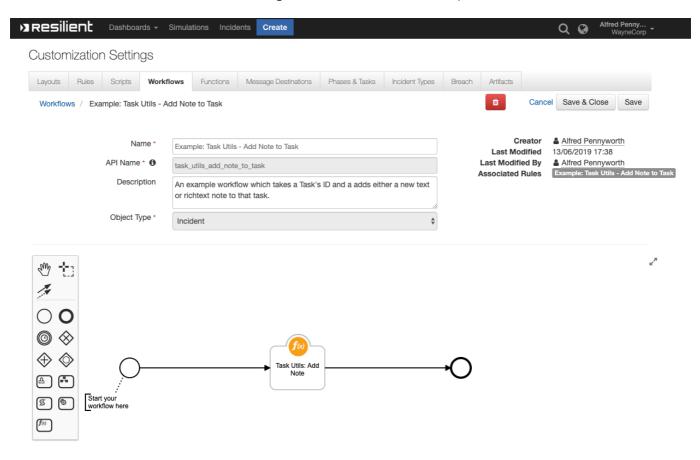
App Config Settings:

```
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.

▶ Inputs:

Name	Type	Required	Example	Description
incident_id	number	No	–	-
task_id	number	No	–	-
task_name	text	No	–	-
task_utils_note_type	select	No	–	A field used to specify where the field task_utils_note_body is plaintext or html.
task_utils_note_body	text	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 task_utils_note_type. 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'
    }
```
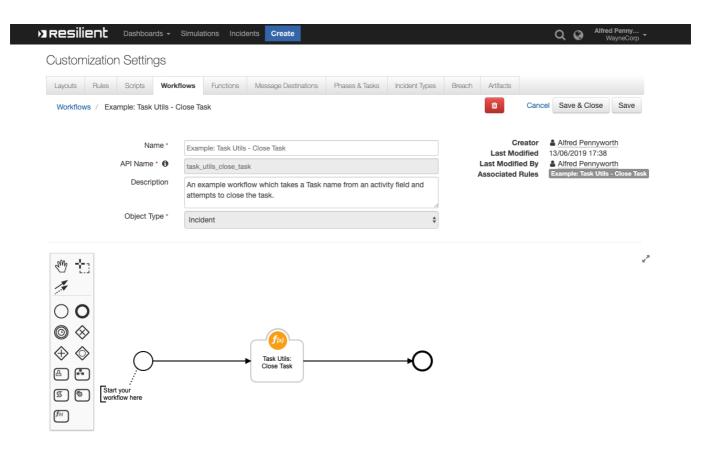
▶ Example Pre-Process Script:

```
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:

Name	Type	Required	Example	Description
incident_id	number	No	–	-
task_id	number	No	–	-
task_name	text	No	–	-

▶ Outputs:

```
results = {
        'content': {
                'task_id': 2251208,
                'task_name': 'Interview key individuals'
        },
        'inputs': {
                'incident_id': 2095,
                'task_name': 'Interview key individuals'
        },
        'metrics': {
                'execution_time_ms': 832,
                'host': 'rg-mbp-18.galway.ie.ibm.com',
                'package': 'unknown',
                'package_version': 'unknown',
                'timestamp': '2019-04-29 10:38:41',
                'version': '1.0'
        },
```

```
        'raw': '{"task_id": 2251208, "task_name": "Interview key
individuals"}',
        'reason': None,
        'success': True,
        'version': '1.0'
}
```
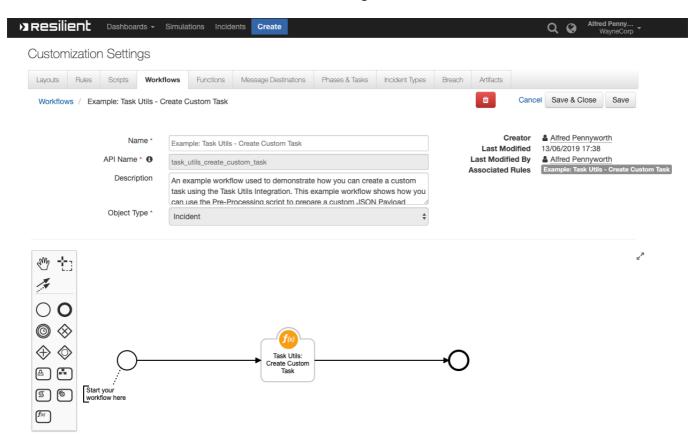
▶ Example Pre-Process Script:

```
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.

▶ Inputs:

Name	Type	Required	Example	Description
incident_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': {
                        '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'
}
```
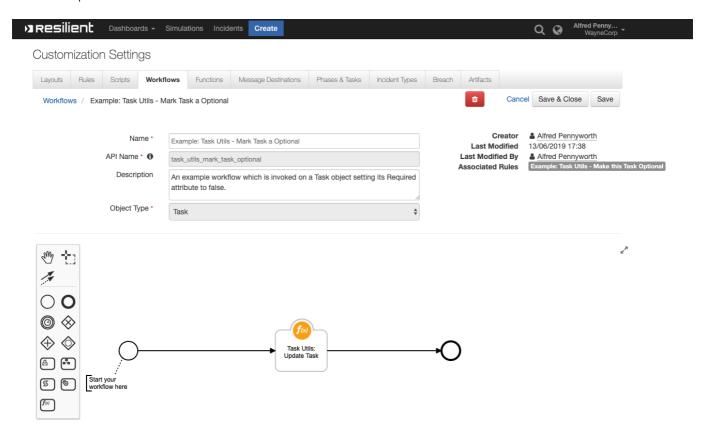
▶ Example Pre-Process Script:

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

```python
  "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.

▶ 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': 'O',
                              '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`