Datatable Utils

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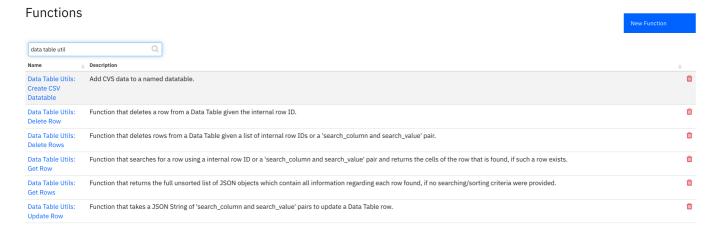
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Release Notes

Release	Date	Notes
v1.3.0	03/2022	Function dt_utils_get_row can now get a row from menu of a datatable row
v1.2.0	02/2021	Functions dt_utils_get_rows and dt_utils_delete_rows can now return or delete all datatable rows
v1.1.0	11/2020	Added support for App Host. New functions: dt_utils_get_row, dt_utils_get_rows, dt_utils_delete_row, dt_utils_delete_rows, dt_utils_create_csv_table
v1.0.0	2/2019	Initial Release

Overview

Functions manipulate data in a Datatable



This package contains 6 functions that help you manipulate IBM SOAR Data Tables: Get Row, Get Rows, Update Row, Delete Row, Delete Rows and Convert CSV Data to a datatable.

Requirements

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

SOAR platform

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

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

- SOAR platform >= 41.0.6783.
- The app is in a container-based format (available from the AppExchange as a zip file).

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

- SOAR platform >= 41.0.6783.
- 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>=33.0.0.
- If using an API key account, make sure the account provides the following minimum permissions:

Name	Permissions		
Org Data	Read		
Function	Read		

The following SOAR 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 Documentation website at ibm.biz/soar-docs. On this web page, select your SOAR platform version. On the follow-on page, you can find the *App Host Deployment Guide* or *Integration Server Guide* by expanding **Apps** in the Table of Contents pane. The System Administrator Guide is available by expanding **System Administrator**.

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

- IBM Cloud Pak for Security >= 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 IBM Documentation table of contents, select Case Management and Orchestration & Automation > System administrator.

These guides are available on the IBM Documentation website at ibm.biz/cp4s-docs. From this web page, select your IBM Cloud Pak for Security version. From the version-specific IBM Documentation page, select Case Management and Orchestration & Automation.

Proxy Server

The app does not support a proxy server.

Python Environment

Both Python 2.7 and Python 3.6 are supported. Additional package dependencies may exist for each of these packages:

- resilient-lib>=32.0.140
- resilient_circuits>=33.0.0

Installation

Install

- To install or uninstall an App or Integration on the SOAR platform, see the documentation at ibm.biz/soar-docs.
- To install or uninstall an App on *IBM Cloud Pak for Security*, see the documentation at ibm.biz/cp4s-docs and follow the instructions above to navigate to Orchestration and Automation.

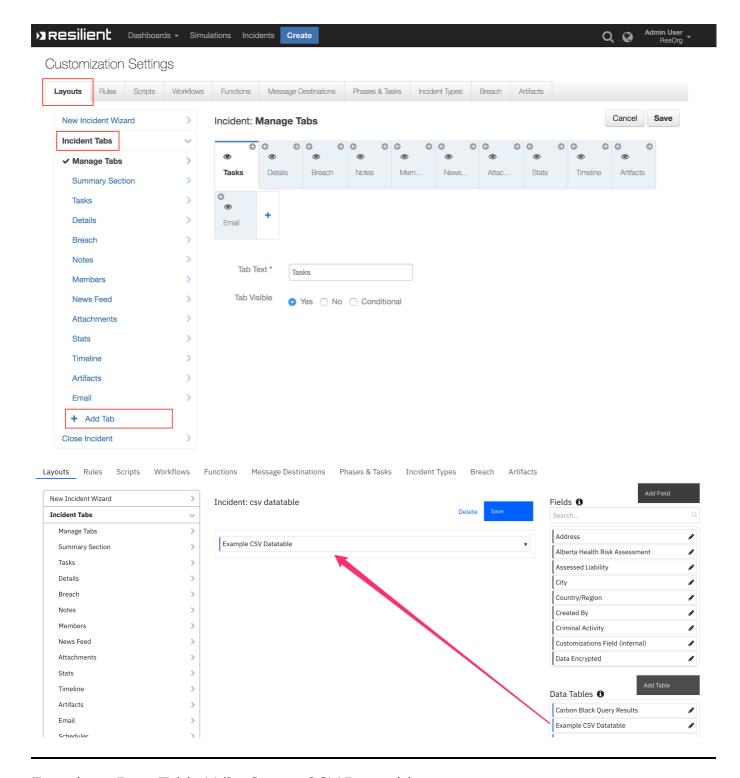
App Configuration

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
--------	----------	---------	-------------

Setup

To reference the example datatable, create a new incident tab and drag the Example CSV DataTable into the widget area.



Function - Data Table Utils: Create CSV Datatable

Add CVS data to a named datatable. CSV data can originate from another function or from a referenced attachment with CSV encoded data.

A mapping table is used to map CSV header row labels to datatable column (API) names. For csv_data with headers, either a string-encoded list can be used, referencing the column order of the CSV data for the associated datatable column names:

```
'[null, dt_col_nameA, null, null, dt_col_nameC, dt_col_nameB]'
```

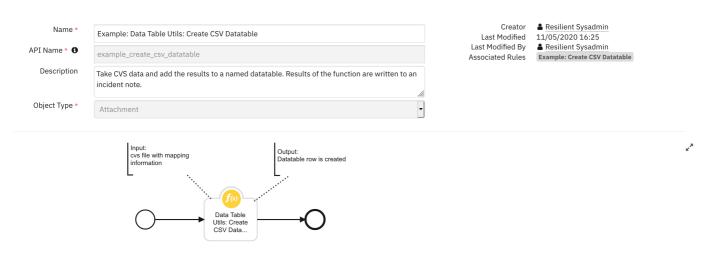
Alternatively, a string-encoded dictionary can be used mapping CSV header names to datatable column names:

```
'{
    "hdr1": "dt_col_name1",
    "hdr2": "dt_col_name2",
    "hdr4": "dt_col_name4"
}'
```

For csv data without headers, the mapping table will contain a string-encoded list referencing the column order of the CSV data for the associated datatable column names. For example:

```
'[null, dt_col_nameA, null, null, dt_col_nameC, dt_col_nameB]'
```

Attempts are made to match the field type of the datatable. CSV data matched to select and multi-select datatables columns must contain the correct values specified for those columns. String-based date fields will be converted into epoch timestamp values based on a date format pattern (ex. '%Y-%m-%d %H:%M:%S.%f') for datetimepicker and datepicker datatable column types. See https://strftime.org/ for the formatted values to use. Epoch date field values are also supported.



► Inputs:

Name	Туре	Required	Example	Tooltip
attachment_id	number	No	_	-
				string of cvs
				data consisting
				an optional
				header row
				followed by
				rows of comma
dt_csv_data	text	No	CSV Data	separated data.
				each comma
				separated field
				may contain
				quotes to allow
				for embedded
				commas

Name	Туре	Required	Example	Tooltip
dt_datable_name	text	Yes	Datatable Name	string of api name of datatable
dt_date_time_format	text	No	E.g. dd/mm/yyyy	If you're data contains date entries, provide the format for the date
dt_has_headers	boolean	No	_	boolean True if the csv_data contains header information to match with the column names of the datatable. If False, the data is added to the datatable in column order.
dt_mapping_table	text	Yes	<pre>""" {"csv_hdr1":"datatable_column_name,}"""</pre>	String-encoded JSON of csv header to datatable column mappings
dt_max_rows	number	No	_	limit the number of rows to include
dt_start_row	number	No	_	Row to start adding to datatable. Use 1 if dt_has_headers = True for first data row
incident_id	number	Yes	_	-

► Outputs:

NOTE: This example might be in JSON format, but results is a Python Dictionary on the SOAR platform.

```
results = {
  "content": {
    "data_source": "CSV data",
    "rows_added": 1,
    "rows_with_errors": 0
```

```
},
  "inputs": {
    "dt csv data":
"hdr number,hdr text,hdr boolean,hdr datetime,hdr select,hdr multiselect,hdr extra
\n18023,\"summary \u4e2d\u56fd\u4eba\",yes,6/6/20 8:12,3,\"a, b\",\u4e2d",
    "dt_datable_name": "dt_utils_test_data_table",
    "dt_date_time_format": "%m/%d/%y %H:%M",
    "dt has headers": true,
    "dt_mapping_table": "{\n \"hdr_number\": \"number\",\n \"hdr_text\":
\"text\",\n \"hdr_boolean\": \"boolean\",\n \"hdr_datetime\": \"datetime\",\n
\"hdr_select\": \"select\",\n \"hdr_multiselect\": \"multi_select\"\n}",
    "incident_id": 2096
  },
  "metrics": {
    "execution time ms": 9472,
    "host": "local",
    "package": "fn-datatable-utils",
    "package_version": "1.3.0",
   "timestamp": "2022-03-30 09:35:48",
   "version": "1.0"
 "raw": "{\"data_source\": \"CSV data\", \"rows_added\": 1, \"rows_with_errors\":
 "reason": null,
 "success": true,
 "version": "1.0"
}
```

```
# Data Table Utils: Example: CSV Table
#########################
### Define Inputs ###
#####################
# The ID of this incident
inputs.incident_id = incident.id
# The api name of the Data Table to update
inputs.dt_datable_name = "dt_utils_test_data_table"
# uncomment attachment_id when reading csv data from an attachmennt
##inputs.attachment id = attachment.id
# The CSV data. Use either dt csv data or attachment id
data =
u"""hdr_number,hdr_text,hdr_boolean,hdr_datetime,hdr_select,hdr_multiselect,hdr_extr
18023,"summary 中国人",yes,6/6/20 8:12,3,"a, b",中"""
data_no_headers = u"""18023,"summary 中国人",yes,6/6/20 8:12,3,"a, b",中,x,y,z"""
inputs.dt_csv_data = data
# A boolean to determine if CSV headers are present
inputs.dt_has_headers = True
## The mapping format should be "cvs header": "dt column name"
mapping = '''{
  "hdr number": "number",
  "hdr_text": "text",
  "hdr_boolean": "boolean",
  "hdr_datetime": "datetime",
  "hdr_select": "select",
```

```
"hdr_multiselect": "multi_select"
}'''
# mappings of csv data without headers will be a list of data_table column names.
Use null to bypass a csv data column
mapping_no_headers =
'''["number","text","boolean","datetime","select","multi_select","x","y","z"]'''
inputs.dt_mapping_table = mapping
# year - %Y, month - %m, day - %d, hour - %H, minutes - %M, seconds - %S,
milliseconds - %f, timezone offset - %z'
inputs.dt_date_time_format = "%m/%d/%y %H:%M"
# optional start row csv data. The first data row = 1
##inputs.dt_start_row = 0
# optional max number of csv rows to add relative to dt_start_row
##inputs.dt_max_rows = 5
```

► Example Post-Process Script:

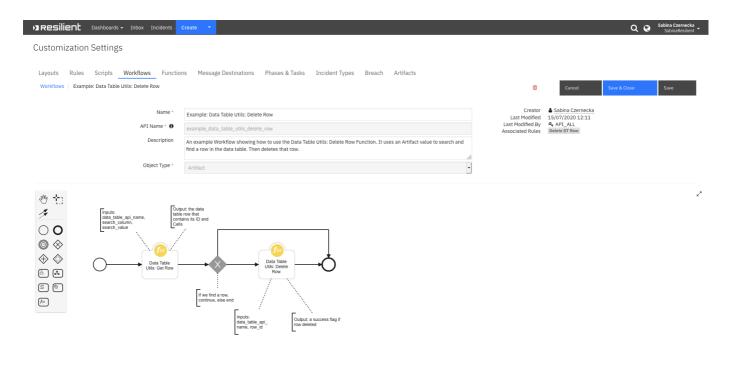
```
if results.success:
   note_text = u"""Results from Data Table Utils: Create CSV Datatable\nData Source:
   {0}\nRows added: {1}\nRows not added: {2}""".format( results.content.data_source,
   results.content.rows_added, results.content.rows_with_errors )
   incident.addNote(note_text)
else:
   incident.addNote(u"Error: Failed to add rows")
```

Function - Data Table Utils: Delete Row

Function that deletes a row from a Data Table given the internal row ID.

When used on a datatable, specify dt_utils_row_id = 0 to reference the currently referenced datatable row. The delete operation will be delayed as the workflow will first terminate before the row is deleted.

An example Rule and Workflow are available for deleting datatable rows based on an artifact value and against a row in the example datatable.



▶ Inputs:

Name	Туре	Required	Example	Tooltip
dt_utils_datatable_api_name	text	Yes	_	The API name of the Data Table
dt_utils_row_id	number	No	_	The internal ID of the row to be retrieved
incident_id	number	Yes	_	-

▶ Outputs:

NOTE: This example might be in JSON format, but results is a Python Dictionary on the SOAR platform.

```
results = {
    "inputs": {
        "dt_utils_datatable_api_name": "dt_utils_test_data_table",
        "dt_utils_row_id": 1,
        "incident_id": 2096
    },
    "row": {
        "hints": [],
        "message": null,
        "success": true,
        "title": null
    },
    "success": true
}
```

```
# The ID of this incident
inputs.incident_id = incident.id

# The api name of the Data Table [here it is taken from previous Get Row Function]
inputs.dt_utils_datatable_api_name =
workflow.properties.row_to_delete.inputs.dt_utils_datatable_api_name

# The ID of the row to delete [again, taken from previous Get Row Function]
inputs.dt_utils_row_id = workflow.properties.row_to_delete.row["id"]
```

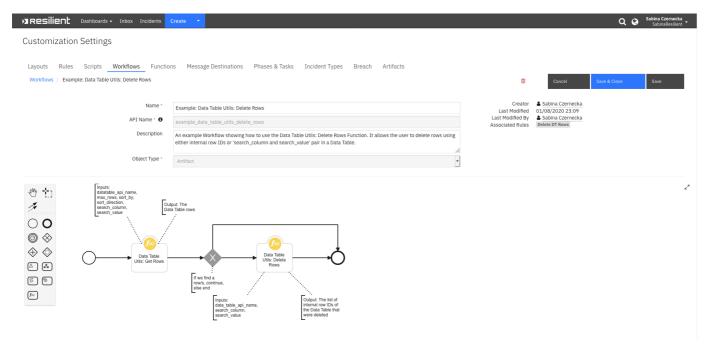
► Example Post-Process Script:

```
# {'success': True, 'inputs': {'incident_id': 2150, 'dt_utils_datatable_api_name':
  'dt_utils_test_data_table', 'dt_utils_row_id': 821}, 'row': {'success': True,
  'title': None, 'message': None, 'hints': []}
if results.success:
  note = u"Row id: {} removed from datatable: {} for artifact:
  {}".format(results.inputs['dt_utils_row_id'],
  results.inputs['dt_utils_datatable_api_name'], artifact.value)
  else:
  note = u"Artifact: {} not found in datatable: {}".format(artifact.value,
  results.inputs['dt_utils_datatable_api_name'])
incident.addNote(note)
```

Function - Data Table Utils: Delete Rows

Function that deletes rows from a Data Table given a list of internal row IDs or a 'search_column and search_value' pair.

An example Rule and Workflow are available for deleting datatable rows based on an artifact value.



► Inputs:

Name Type Required Example Tooltip

Name	Type	Required	Example	Tooltip
dt_utils_datatable_api_name	text	Yes	_	The API name of the Data Table
dt_utils_delete_all_rows	boolean	No	_	explicitly delete all rows
dt_utils_rows_ids	text	No	_	The list of internal rows IDs of a Data Table to delete
dt_utils_search_column	text	No	_	The API name of the column to search
dt_utils_search_value	text	No	-	The cell value to search for within the search column
incident_id	number	Yes	_	-

▶ Outputs:

NOTE: This example might be in JSON format, but results is a Python Dictionary on the SOAR platform.

```
results = {
    "inputs": {
        "dt_utils_datatable_api_name": "dt_utils_test_data_table",
        "dt_utils_delete_all_rows": false,
        "dt_utils_rows_ids": "[5, 6]",
        "dt_utils_search_column": null,
        "dt_utils_search_value": null,
        "incident_id": 2096
    },
    "rows_ids": [
        5,
        6
    ],
    "success": true
}
```

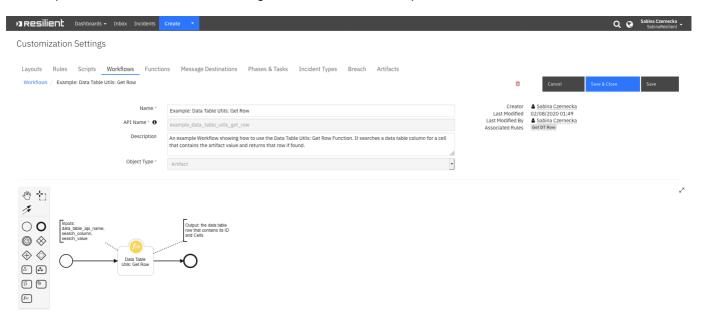
```
rows_ids.append(row["id"])
inputs.dt_utils_rows_ids = str(rows_ids)
```

► Example Post-Process Script:

Function - Data Table Utils: Get Row

Function that searches for a row using a internal row ID or a search_column and search_value pair, and returns the information on the row that is found, if such a row exists.

An example Rule and Workflow exist for using this function on the example datatable from an artifact value.



► Inputs:

Name Type Required Example Tooltip

Name	Type	Required	Example	Tooltip
dt_utils_datatable_api_name	text	Yes	_	The API name of the Data Table
dt_utils_row_id	number	No	-	The internal ID of the row to be retrieved
dt_utils_search_column	text	No	_	The API name of the column to search
dt_utils_search_value	text	No	_	The cell value to search for within the search column
incident_id	number	Yes	_	-

► Outputs:

NOTE: This example might be in JSON format, but results is a Python Dictionary on the SOAR platform.

```
results = {
 "inputs": {
   "dt_utils_datatable_api_name": "dt_utils_test_data_table",
   "dt_utils_row_id": null,
   "dt_utils_search_column": "dt_col_name",
   "dt_utils_search_value": "something",
   "incident id": 2096
 },
  "row": {
   "actions": [
       "enabled": true,
       "id": 14,
       "name": "Delete Current Row"
     },
       "enabled": true,
       "id": 17,
       "name": "Delete Rows by Name"
     },
       "enabled": true,
       "id": 21,
       "name": "Update Current Row"
     }
   ],
   "cells": {
     "boolean": {
       "id": "boolean",
       "row_id": 5,
       "value": false
     },
      "datetime": {
       "id": "datetime",
       "row_id": 5,
       "value": 1647446419000
     },
      "dt_col_name": {
       "id": "dt_col_name",
        "row_id": 5,
       "value": "something"
      },
```

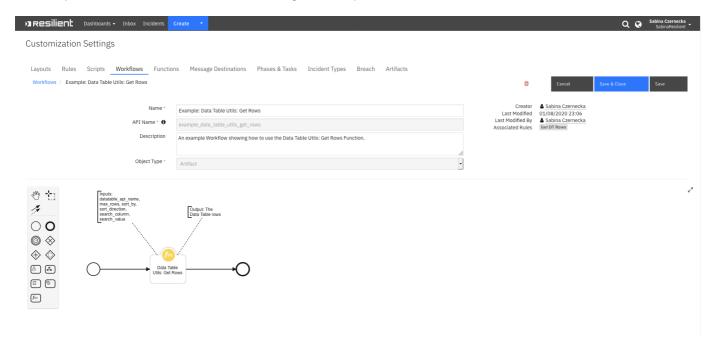
```
"multi_select": {
        "id": "multi_select",
        "row_id": 5,
        "value": [
          "j"
          "g"
      },
      "number": {
       "id": "number",
        "row_id": 5,
       "value": 56
      },
      "select": {
       "id": "select",
        "row_id": 5,
        "value": "2"
      },
      "text": {
       "id": "text",
        "row_id": 5,
       "value": "fng"
      }
    },
    "id": 5,
    "inc_id": 2096,
    "inc_name": "A",
    "inc_owner": "admin@example.com",
    "table_name": "Example CSV Datatable",
    "type_id": 1000,
    "version": 1
 },
 "success": true
}
```

► Example Post-Process Script:

```
search_value = results.inputs["dt_utils_search_value"]
note_text = u"<b>Result from Example: Data Table Utils: Get Row</b><br> search
value: {0}".format(search_value)
if results.success:
   note_text = u"{0} <br> {1}".format(note_text, str(results["row"]))
else:
   note_text = u"{0} <br> note_text = u"{0} <br> incident.addNote(helper.createRichText(note_text))
```

Function that returns the full list of rows in a datatable based on the search value. List sorting is possible using the sort_by and sort_direction input fields.

An example Rule and Workflow exist for searching the example datatable based on an artifact value.



► Inputs:

Name	Type	Required	Example	Tooltip
dt_utils_datatable_api_name	text	Yes	_	The API name of the Data Table
dt_utils_max_rows	number	No	_	The maximum number of rows to be returned
dt_utils_search_column	text	No	_	The API name of the column to search
dt_utils_search_value	text	No	_	The cell value to search for within the search column
dt_utils_sort_by	text	No	_	The API name of the column to sort by
dt_utils_sort_direction	select	No	_	-
incident id	number	Yes	_	-

▶ Outputs:

NOTE: This example might be in JSON format, but results is a Python Dictionary on the SOAR platform.

```
results = {
 "inputs": {
   "dt_utils_datatable_api_name": "dt_utils_test_data_table",
   "dt_utils_max_rows": 0,
   "dt_utils_search_column": "dt_col_name",
   "dt_utils_search_value": "something",
   "dt_utils_sort_by": null,
   "dt_utils_sort_direction": "ASC",
   "incident_id": 2096
 },
  "rows": [
   {
      "actions": [
        {
         "enabled": true,
         "id": 14,
         "name": "Delete Current Row"
        },
        {
         "enabled": true,
         "id": 17,
         "name": "Delete Rows by Name"
        },
        {
          "enabled": true,
         "id": 21,
         "name": "Update Current Row"
        }
     ],
      "cells": {
       "boolean": {
         "id": "boolean",
         "row_id": 7,
         "value": false
        },
        "datetime": {
         "id": "datetime",
         "row id": 7,
          "value": 1646110800000
        },
        "dt_col_name": {
         "id": "dt_col_name",
         "row_id": 7,
          "value": "something"
        },
        "multi_select": {
         "id": "multi_select",
          "row_id": 7,
          "value": [
            "f".
            "h"
          ]
        },
        "number": {
         "id": "number",
```

```
"row_id": 7,
      "value": 346
    },
    "select": {
      "id": "select",
      "row_id": 7,
      "value": "4"
    },
    "text": {
     "id": "text",
      "row_id": 7,
     "value": "sfg"
    }
  },
  "id": 7,
  "inc_id": 2096,
  "inc_name": "A",
  "inc_owner": "admin@example.com",
  "table_name": "Example CSV Datatable",
  "type_id": 1000,
  "version": 1
},
{
  "actions": [
   {
      "enabled": true,
      "id": 14,
      "name": "Delete Current Row"
    },
      "enabled": true,
      "id": 17,
      "name": "Delete Rows by Name"
    },
      "enabled": true,
      "id": 21,
      "name": "Update Current Row"
    }
  ],
  "cells": {
   "boolean": {
      "id": "boolean",
      "row_id": 8
    },
    "datetime": {
      "id": "datetime",
      "row_id": 8,
      "value": 1646357232000
    },
    "dt_col_name": {
      "id": "dt_col_name",
      "row_id": 8,
      "value": "something"
    },
    "multi_select": {
      "id": "multi_select",
      "row_id": 8,
      "value": [
        "d"
```

```
},
        "number": {
          "id": "number",
          "row_id": 8,
          "value": 89
        },
        "select": {
          "id": "select",
          "row_id": 8,
          "value": "5"
        },
        "text": {
          "id": "text",
          "row id": 8,
          "value": "fghsn"
      },
      "id": 8,
      "inc_id": 2096,
      "inc_name": "A",
      "inc_owner": "admin@example.com",
      "table_name": "Example CSV Datatable",
      "type_id": 1000,
      "version": 1
    }
  ],
  "success": true
}
```

```
# Data Table Utils: Example: Get Rows
#######################
### Define Inputs ###
#######################
# The ID of this incident
inputs.incident id = incident.id
# The api name of the Data Table to update
inputs.dt_utils_datatable_api_name = "dt_utils_test_data_table"
# The number of max rows to return
if rule.properties.dt_utils_max_rows:
  inputs.dt_utils_max_rows = rule.properties.dt_utils_max_rows
else:
  inputs.dt_utils_max_rows = 0
# The direction of the sort
if rule.properties.dt utils sort direction:
  inputs.dt_utils_sort_direction = rule.properties.dt_utils_sort_direction
  inputs.dt_utils_sort_direction = "ASC"
# The api name of the column to sort by
if rule.properties.dt_utils_sort_by:
```

```
inputs.dt_utils_sort_by = rule.properties.dt_utils_sort_by
else:
   inputs.dt_utils_sort_by = None

# The column api name to search for
inputs.dt_utils_search_column = "dt_col_name"

# The cell value to search for
inputs.dt_utils_search_value = artifact.value
```

► Example Post-Process Script:

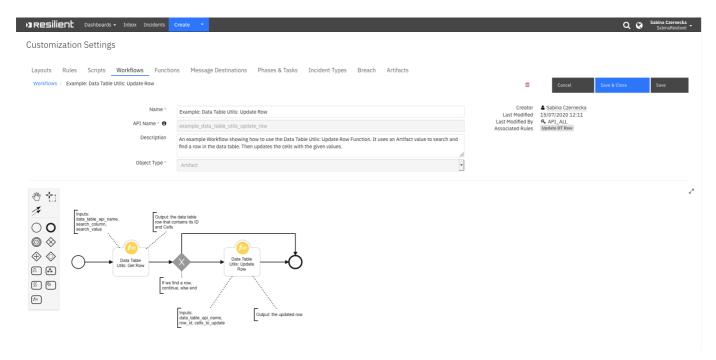
```
if not results.success:
  incident.addNote(helper.createRichText("<b>Result from Example: Data Table Utils:
  Delete Rows</b><br>No rows found."))
```

Function - Data Table Utils: Update Row

Function that takes a string-encoded JSON String of 'search_column and search_value' pairs to update a Data Table row.

When used on a datatable, specify dt_utils_row_id = 0 to refer to the currently referenced datatable row.

Two sets example Rule and Workflow are available for changing the example datatable from an artifact value and directly from a row in the datatable.



► Inputs:

Name	Туре	Required	Example	Tooltip
dt_utils_cells_to_update	text	Yes	-	A JSON String containing the column names and cell values to update
dt_utils_datatable_api_name	text	Yes	-	The API name of the Data Table

Name	Туре	Required	Example	Tooltip
dt_utils_row_id	number	No	_	The internal ID of the row to be retrieved
incident_id	number	Yes	_	-

► Outputs:

NOTE: This example might be in JSON format, but results is a Python Dictionary on the SOAR platform.

```
results = {
 "inputs": {
   "dt_utils_cells_to_update": {
     "datetime": 1648646740137,
     "text": "Done"
   },
   "dt_utils_datatable_api_name": "dt_utils_test_data_table",
   "dt_utils_row_id": 5,
   "incident id": 2096
 },
 "row": {
   "actions": [
     {
       "enabled": true,
       "id": 14,
       "name": "Delete Current Row"
     },
       "enabled": true,
        "id": 17,
       "name": "Delete Rows by Name"
     },
       "enabled": true,
       "id": 21,
       "name": "Update Current Row"
   ],
   "cells": {
     "boolean": {
       "id": "boolean",
       "row_id": 5,
       "value": false
     },
      "datetime": {
       "id": "datetime",
       "row_id": 5,
       "value": 1648646740137
     },
      "dt_col_name": {
       "id": "dt_col_name",
        "row_id": 5,
       "value": "something"
     },
      "multi_select": {
       "id": "multi_select",
        "row_id": 5,
        "value": [
          "j",
```

```
"g"
        ]
      },
      "number": {
        "id": "number",
        "row_id": 5,
        "value": 56
      },
      "select": {
        "id": "select",
        "row_id": 5,
       "value": "2"
      },
      "text": {
        "id": "text",
        "row_id": 5,
        "value": "Done"
      }
    },
    "id": 5,
    "inc_id": 2096,
    "inc_name": "A",
    "inc_owner": "admin@example.com",
    "table_name": "Example CSV Datatable",
    "type_id": 1000,
   "version": 2
 },
  "success": true
}
```

```
# Data Table Utils: Example: Update Row
import java.util.Date as Date
### Define pre-processing functions ###
def dict_to_json_str(d):
 """Function that converts a dictionary into a JSON string.
    Supports types: basestring, bool, int and nested dicts.
    Does not support lists.
    If the value is None, it sets it to False."""
 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, list):
     helper.fail('dict_to_json_str does not support Python Lists')
```

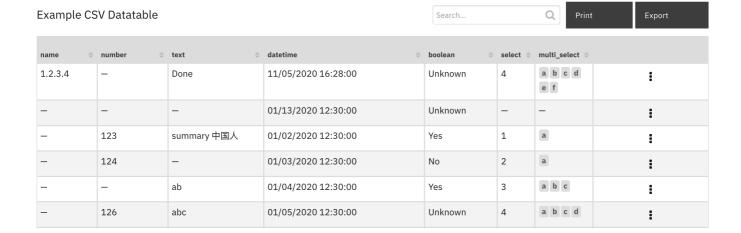
```
if isinstance(value, basestring):
      value = value.replace(u''', u'\\"')
      entries.append(json_entry_str.format(key, value))
    elif isinstance(value, bool):
      value = 'true' if value == True else 'false'
      entries.append(json_entry.format(key, value))
    elif isinstance(value, dict):
      entries.append(json_entry.format(key, dict_to_json_str(value)))
    else:
      entries.append(json_entry.format(key, value))
  return '{0} {1} {2}'.format('{', ','.join(entries), '}')
#START
# The ID of this incident
inputs.incident id = incident.id
# The api name of the Data Table to update [here it is taken from previous Get Row
Function]
inputs.dt_utils_datatable_api_name = "dt_utils_test_data_table"
# Refer to the existing row (value: 0)
inputs.dt utils row id = 0
# The column api names and the value to update the cell to
inputs.dt_utils_cells_to_update = dict_to_json_str({
  "datetime": Date().getTime(),
  "text": "Done"
})
```

► Example Post-Process Script:

None

Data Table - Example CSV Datatable

This datatable is used for testing purposes to run the example Rules and Workflows. It contains all the different datatable column types for function testing.



API Name:

dt_utils_test_data_table

Columns:

Column Name	API Access Name	Туре	Tooltip
boolean	boolean	boolean	=
datetime	datetime	datetimepicker	-
multi_select	multi_select	multiselect	-
name	dt_col_name	text	-
number	number	number	-
select	select	select	-
text	text	text	-

Rules

Rule Name	Object	Workflow Triggered
Delete Current Row	dt_utils_test_data_table	example_data_table_utils_delete_row_from_datatable
Delete Data Table Row	artifact	example_data_table_utils_delete_row
Delete Data Table Rows	artifact	example_data_table_utils_delete_rows
Delete Rows by Name	dt_utils_test_data_table	example_data_table_utils_delete_rows_from_datatable
Example: Create CSV Datatable	attachment	example_create_csv_datatable
Get Data Table Row	artifact	example_data_table_utils_get_row

Rule Name	Object	Workflow Triggered
Get Data Table Rows	artifact	example_data_table_utils_get_rows
Update Current Row	dt_utils_test_data_table	update_row
Update Data Table Row	artifact	example_data_table_utils_update_row

Troubleshooting & Support

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

For Support

This is a IBM Community provided App. Please search the Community ibm.biz/soarcommunity for assistance.