

twilio version 6.21.0 or later

app.config settings

This package requires that it is installed on an Integrations server (preferably a RHEL platform) and that the resilient-circuits application is running. Install this package with `pip install`, or `python setup.py install`. To set the config values in the app.config file with a new resilient instance run `resilient-circuits config -c` or use `config -u` to append to an existing app.config file.

Config values example: The parameters `twilio_account_sid` and `twilio_auth_token` are as defined in your Twilio account. The parameter `twilio_src_address` should be set to the Twilio number you wish to use.

```
[fn_twilio_send_sms]
twilio_account_sid=
twilio_auth_token=
# This is the number that will originate the SMS and must be an active
# SMS phone number on your Twilio Account
# The format should be as per the Twilio console properties for your
# number, e.g. +1234567890
twilio_src_address=
```

Run with: `resilient-circuits run`.

twilio_send_sms

Function Inputs

Function Name	Type	Required	Example	Info
<code>twilio_sms_destination</code>	String	Yes	<code>" +353861234567,+1234567"</code>	A comma delimited (CSV) list of destination numbers in international format.
<code>twilio_sms_message</code>	String	No	<code>"An incident has been created!"</code>	The message you wish to send. If left empty a message will be send with the Incident title and priority.

Function Output

```
{
  'twilio_status': [
    {
      'phone_number': u'+1234',
      'error_message': "Unable to create record: The 'To' number is not
a valid phone number.",
      'success': False
    },{
      'phone_number': u'+353834463164',
      'success': True
    }
  ],
  'inputs': {
    'twilio_sms_message': u'An incident test (2096) with Low priority
may require your attention',
    'twilio_sms_destination': u'1234,353834463164'
  }
  , 'success': True
}
```

Pre-Process Script

The following is an example of setup of each parameter using a simple workflow pre-processing script. The message can be customised to suit your own use case.

```
inputs.twilio_sms_destination = rule.properties.twilio_sms_destination
inputs.twilio_sms_message = 'An incident ' + incident.name + ' (' +
`incident.id` + ') with ' + incident.severity_code + ' priority may
require your attention'
```

Post-Process Script

The results returned to Resilient can be used to determine the status for each destination. Below is an example post process script which adds a note for each destination.

```
import java.util.Date as Date

for entry in results["twilio_status"]:
    if(entry.success == True):
        note_text = u"""&b>Twilio SMS Message:</b> {0}
</br><b>sent to:</b>
{1}""".format(results.inputs.twilio_sms_message,
                entry.phone_number)

        incident.addNote(helper.createRichText(note_text))
    else:
        note_text = u"""&b>Unable to send Twilio SMS Message:</b> {0}
</br><b> to:</b> {1}
({2})""".format(results.inputs.twilio_sms_message,
                entry.phone_number,
                entry.error_message)

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

```

row = incident.addRow("twilio_sms_log")
row['row_created'] = str(Date())
row['status'] = entry.get("status") or "Failed"
row['message_id'] = entry.get("messaging_service_sid")
row['date_created'] = entry.get("date_created_ts")
row['msg_body'] = entry.get("message_body") or
entry.get("error_message")
row['phone_number'] = entry.get("phone_number")
row["direction"] = entry.get("direction")

```

Twilio: Get Responses

Function Inputs

Function Name	Type	Required	Example	Info
<code>twilio_phone_number</code>	String	Yes	<code>" +353861234567"</code>	A destination number to filter the responses returned
<code>twilio_date_sent</code>	String	No	<code>"2020-01-25 14:59:51+00:00"</code>	The date which responses are returned. If blank, all responses are returned
<code>twilio_date_sent_ts</code>	Number	No	<code>15438583123</code>	Alternative to <code>twilio_after_date</code> . Timestamp of a date which responses are returned. If blank, all responses are returned
<code>twilio_wait_timeout</code>	String	No	<code>"120s"</code>	Timeframe to wait if no responses are available. Timeframe can be seconds (ex. 30s), minutes (ex. 10m), hours (ex. 1h), days (ex. 1d). Default is <code>120s</code> .

Function Output

```

{
  'version': '1.0',
  'success': True,
  'reason': None,
  'content': [
    {
      'phone_number': '+19788354530',
      'messaging_service_sid': 'SM9584a564764db7c4d24f612d6928b18',
      'date_created': '2020-01-25 18:05:47+00:00',
      'direction': 'inbound',
      'message_body': 'Acknowledged',

```

```

        'status': 'received',
        'error_message': None
    }
],
'raw': '[{"phone_number": "+19788354530", "messaging_service_sid":
"SMe9584a564764db7c4d24f612d6928b18", "date_created": "2020-01-25
18:05:47+00:00", "direction": "inbound", "message_body":
"Acknowledged", "status": "received", "error_message": null}]',
'inputs': {
    'twilio_wait_timeout': '60s',
    'twilio_after_date': '2020-01-25 14:59:51+00:00',
    'twilio_phone_number': '+19788354530'
},
'metrics': {
    'version': '1.0',
    'package': 'unknown',
    'package_version': 'unknown',
    'host': 'Marks-MacBook-Pro.local',
    'execution_time_ms': 941,
    'timestamp': '2020-01-29 13:01:09'
}
}

```

Pre-Process Script

The following is an example of setup of each parameter using a simple workflow pre-processing script. The message can be customised to suit your own use case.

From a datatable row:

```

inputs.twilio_phone_number = row['phone_number']
inputs.twilio_date_sent = row['date_created']

```

Post-Process Script

Below is an example post process script which adds a row to the datatable for each response.

```

import java.util.Date as Date

if results.success:
    for entry in results.content:
        row = incident.addRow("twilio_sms_log")
        row['row_created'] = str(Date())
        row['status'] = entry.get("status")
        row['message_id'] = entry.get("messaging_service_sid")
        row['date_created'] = entry.get("date_created_ts")
        row['msg_body'] = entry.get("message_body")
        row['phone_number'] = entry.get("phone_number")
        row["direction"] = entry.get("direction")
    else:
        incident.addNote(u"Twilio Received Messages failed:
{}".format(results.reason))

```

Example: Twilio Receive Messages

Get all SMS messages based on destination phone number and date sent information.

Function Inputs

Function Name	Type	Required	Example	Info
<code>twilio_phone_number</code>	String	Yes	<code>" +353861234567"</code>	A destination number to filter the responses returned
<code>twilio_date_sent</code>	String	No	<code>"2020-01-25 14:59:51+00:00"</code>	The date which responses are returned. If blank, all responses are returned
<code>twilio_date_sent_ts</code>	Number	No	<code>15438583123</code>	Alternative to <code>twilio_after_date</code> . Timestamp of a date which responses are returned. If blank, all responses are returned
<code>twilio_wait_timeout</code>	String	No	<code>"120s"</code>	Timeframe to wait if no responses are available. Timeframe can be seconds (ex. 30s), minutes (ex. 10m), hours (ex. 1h), days (ex. 1d). Default is <code>120s</code> .

Function Output

```
{
  'version': '1.0',
  'success': True,
  'reason': None,
  'content': [
    {
      'phone_number': '+19788354530',
      'messaging_service_sid': 'SM9584a564764db7c4d24f612d6928b18',
      'date_created': '2020-01-25 18:05:47+00:00',
      'direction': 'inbound',
      'message_body': 'Acknowledged',
      'status': 'received',
      'error_message': None
    }
  ],
  'raw': '[{"phone_number": "+19788354530", "messaging_service_sid": "SM9584a564764db7c4d24f612d6928b18", "date_created": "2020-01-25 18:05:47+00:00", "direction": "inbound", "message_body": "Acknowledged", "status": "received", "error_message": null}]',
}
```

```

'inputs': {
  'twilio_wait_timeout': '60s',
  'twilio_after_date': '2020-01-25 14:59:51+00:00',
  'twilio_phone_number': '+19788354530'
},
'metrics': {
  'version': '1.0',
  'package': 'unknown',
  'package_version': 'unknown',
  'host': 'Marks-MacBook-Pro.local',
  'execution_time_ms': 941,
  'timestamp': '2020-01-29 13:01:09'
}
}

```

Pre-Process Script

The following is an example of setup of each parameter using a simple workflow pre-processing script. The message can be customised to suit your own use case.

From a datatable row:

```

inputs.twilio_phone_number = rule.properties.twilio_sms_destination
inputs.twilio_date_sent_ts = rule.properties.twilio_after_date_ts
inputs.twilio_wait_timeout = rule.properties.twilio_wait_timeout

```

Post-Process Script

Below is an example post process script which adds a row to the datatable for each response.

```

import java.util.Date as Date

if results.success:
    for entry in results.content:
        row = incident.addRow("twilio_sms_log")
        row['row_created'] = str(Date())
        row['status'] = entry.get("status")
        row['message_id'] = entry.get("messaging_service_sid")
        row['date_created'] = entry.get("date_created_ts")
        row['msg_body'] = entry.get("message_body")
        row['phone_number'] = entry.get("phone_number")
        row["direction"] = entry.get("direction")
    else:
        incident.addNote(u"Twilio Received Messages failed:
{}".format(results.reason))

```

Rules

Rule Name	Object Type	Workflow Triggered
Example: Send Twilio SMS	Incident	Example: Twilio Send SMS
Example: Twilio Receive Messages	Incident	Example: Twilio Receive Messages

Rule Name	Object Type	Workflow Triggered
Twilio: Get Responses	Datatable	Twilio: Get Responses