

# Resilient Function - Twilio Send SMS

## Table of Contents

- [Prerequisites](#)
- [app.config settings](#)
- [Function Inputs](#)
- [Function Output](#)
- [Pre-Process Script](#)
- [Post-Process Script](#)
- [Rules](#)

**This Resilient Function package can be used to send an SMS via Twilio from a workflow using the Functions feature of the Resilient Circuits integration framework.**

The screenshot shows the 'Customization Settings' interface for a workflow. The top navigation bar includes 'Resilient', 'Dashboards', 'Simulations', 'Incidents', and a 'Create' button. The 'Workflows' tab is selected, showing a breadcrumb 'Workflows / Example: Twilio Send SMS'. The settings form includes fields for Name, API Name, Description, and Object Type. To the right, a metadata section lists the Creator, Last Modified date, Last Modified By, and Associated Rules. Below the form is a visual workflow diagram showing a sequence of three steps: a start node, a function node labeled 'Twilio: Send SMS', and an end node. A toolbar on the left contains various icons for workflow construction.

**Customization Settings**

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

Workflows / Example: Twilio Send SMS

**Name \*** Example: Twilio Send SMS

**API Name \*** example\_twilio\_send\_sms

**Description** Example workflow to send an SMS via Twilio

**Object Type \*** Incident

**Creator** Res Admin

**Last Modified** 10/12/2018 13:43

**Last Modified By** Orchestration Engine

**Associated Rules** Example: Send Twilio SMS

Twilio: Send SMS

## Prerequisites:

```
resilient version 30 or later
resilient_circuits version 30 or later
twilio version 6.21.0 or later
```

## app.config settings

This package requires that it is installed on a RHEL platform and that the resilient-circuits application is running. Install this package with 'pip', 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`. To set the config values in the app.config file with an existing resilient instance run `resilient-circuits config -u`.

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`.

## 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	Yes	<code>"An incident has been created!"</code>	The message you wish to send

## 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.

```

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

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

        incident.addNote(helper.createRichText(note_text))

```

## Rules

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

