

Revision History

Date	Revision Number	Change Description
Aug 1 st 2012	Revision 1	Initial revision.

FortiAuthenticator Interoperability Guide

Revision 1

1st August 2012

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Contents

About this Guide	4
Purpose of this document	4
Document Conventions	4
Integrating FortiAuthenticator with Clickatell SMS Gateway	6
Creating and Configuring the Clickatell Account.....	6
Configuring the FortiAuthenticator	9
Appendix A – Available Variables	10

About this Guide

Purpose of this document

This document has been produced to aid the configuration of the FortiAuthenticator SMS Gateway with the Clickatell SMS Service.

Fortinet do not endorse Clickatell in any way, neither should this guide be taken as any official configuration of the Clickatell system. The Clickatell system may change without notice so the website should be checked for the most current API configuration.

- FortiAuthenticator 1.0 MR4 *

* Note that Custom SMS Gateways are not supported in FortiAuthenticator 1.0 MR3.

Document Conventions

When you read this manual, you will see that certain words are represented in different fonts, typefaces, sizes and weights. This highlighting is systematic; text is represented in a particular style to indicate its importance or meaning e.g.

the same style to indicate their inclusion in a specific category. The types of words that are represented this way include the following:

Processes which are to be followed such as browsing to the correct section of a web site are highlighted in italics and steps separated by arrows e.g.

Browse to *User* → *User Group*

Text displayed on screen which may include configuration or be the result of executing a command is displayed in Courier New font e.g.

```
Port 1 IP: 192.168.1.99
Port 1 Netmask: 255.255.255.0
Default Gateway: 192.168.1.1
```

Paths and file locations are shown in **Italic Courier New** e.g

Edit the file `/etc/ssh/sshd_config`

CLI Commands which are to be executed by the user are shown in **Italic Bold Courier New** font e.g

Open the CLI and type **`exe factory reset`**

GUI Commands which are to be executed by the user are shown in ***Italic Bold Arial font*** e.g

Under *Configure SSL-VPN Users*, click **Add**.

Variables which should be replaced with the correct text such as passwords are displayed as a descriptor in Courier New font within angled brackets e.g.

```
Username: <username>
Password: <password><Token PIN>
```

Links are highlighted in underlined blue text e.g.

<https://192.168.1.99>

Additional attention is brought to specific point by the use of interest using the following breakout box format:



Note

This feature is only supported in version 1.3 onwards.



Caution

Do not add any local user to this policy under Available Users. If you do this, RADIUS Authentication will fail.



Warning

The execution of this command may result in data loss.

Integrating FortiAuthenticator with Clickatell SMS Gateway.

The Basic configuration of the FortiAuthenticator is shown below. Any deviations or change which are required from this configuration will be detailed in the relevant section.

For more detail on the setup and configuration of the FortiAuthenticator see the Administration Guide at <http://docs.fortinet.com/auth.html>.

Creating and Configuring the Clickatell Account

Create an account with Clickatell based on the Developers Central feature.

Use Clickatell's global SMS Gateway to send bulk SMS to:
over 5.2 billion people on 960+ networks in more than 220 countries and territories * Worldwide

EASY SMS > Communicator 2
Send global bulk SMS using our online solution. No programming needed. Ideal for SMBs.
Use Communicator 2, our easy SMS solution, to send personalized bulk SMS messages and receive replies directly into your Communicator 2 Inbox.

SMS GATEWAY > Developers' Central
Reliable, scalable and customizable, Developers' Central integrates with your systems and applications via our wide variety of APIs.
Use Clickatell's SMS gateway to SMS-enable any application, website or system and send messages around the globe.

Use our bulk SMS service for:

- > **Reminders**
Use SMS reminders to remind people about appointments, events, payments and any relevant information.
- > **Competitions**
- > **Alerts**

SMS RECEIVED
Dear Samantha, please remember you have a hair appointment with John at 09h30 on 9 November. Regards Ruff Hair

Clickatell offer a free account with 10 free SMSes in certain regions. This can be utilised to prove the service.

Once the account has been created, select the HTTP/S API to create an API Key and

enable the service. SMTP is also supported however, HTTP/S provides response codes so should be used wherever possible.

The screenshot shows the Clickatell Central dashboard. At the top, the balance is 10 and the client ID is WCIT21. The 'Manage my Products' tab is selected. On the left, there are navigation links for 'Manage my Products' and 'Application Forms'. The main content area has a 'Test Message in Message Box' section with a 'Buy SMS Credits' button. Below that is the 'Connection Setup' section, which lists three options: 'HTTP/S', 'SMTP (Email to SMS)', and 'SMTP'. The 'HTTP/S' option is circled in red. It is described as 'Our most popular connection, HTTP is one of the simpler ways to connect to the Clickatell API. It is used as an HTTP/Internet Post.' The 'SMTP (Email to SMS)' option is described as 'Another firm favourite, the SMTP API allows messages that are sent via e-mail to be converted to SMS. Popular with customers who already have an e-mail messaging system in place.'

Once selected, click submit to acquire an API ID

The screenshot shows the 'Add Connection' form in the Clickatell Central dashboard. The 'HTTP API - Information entered during this step can be modified later.' message is displayed. The 'Description' field contains 'HTTP API, created 01/08/2012'. Below the description, there are three checkboxes: 'Replace Leading Zero (Dial Prefix)', 'Enable IP Address Restriction (IP Lock Down)', and 'Enable SMS Status Notification (MT Callback)'. The 'Submit and Get API ID' button is circled in red. At the bottom, there are links for 'Coverage', 'Contact Support', 'Help Centre', and 'Terms', and a copyright notice for 2012 Clickatell (Pty) Ltd.

The Clickatell web site displays the exact HTTP parameters required for a successful SMS. This string should be copied and replicated using the available variables on the FortiAuthenticator

Balance: 10 Username: mbdtscw ClientID: 12345678

Clickatell™ Mobile Touch. Multiplied. CENTRAL Local SMS Traffic Only: Buy SMS credits Log out

Central Home My Settings **Manage my Products** Billing Message Reports Help

Manage my Products

- Get Connections
- My Connections
- Converters
- Two-Way Messaging

Application Forms

- Two-Way Application
- SA Shortcode MO
- Namibia Shortcode
- USA Shortcode
- USA Long Number
- UK Shortcode
- Canada Shortcode
- Au Shortcode
- India Shortcode
- Clickatell ICM

Add Connection: Confirmation

HTTP API

Your HTTP API connection was created successfully. Your connection is live ready for you to send SMS messages.

API ID: 3 9

Description: HTTP API, created 01/08/2012

Getting started

Required Parameters: ?

```
user=mbdtscw
password=<Clickatell Account Password>
api_id=3 9
to=<Mobile Number(s)> (comma separated)
text=<SMS Message>
```

Example String: ?

```
http://api.clickatell.com/http/sendmsg?
user=mbdtscw&password=PASSWORD&api_id=3
3 9&to=4478 7&text=Message
```

Replace PASSWORD with your main Clickatell account password

Technical Documentation: [HTTP Post Specification Version 2.4.5](#) [666K]

Print Close

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The HTTP API is of the format:

```
http://api.clickatell.com/http/sendmsg?user=<username>&password=<password>&api_id=<api_id>&to=<mobile_number>&text=<sms_message>
```


Configuring the FortiAuthenticator

The purpose of the configuration on the FortiAuthenticator is to replicate the required API format required by Clickatell and insert the correct variables. The available variables are defined in Appendix A.

The screenshot shows the FortiAuthenticator configuration page for an SMS Gateway. The interface is in the 'System' section, with 'SMS Gateways' selected in the left-hand navigation menu. The main configuration area is titled 'Protocol: HTTP' and 'API URL: api.clickatell.com/http/sendmsg'. Below this, there is a table for 'HTTP Parameters' with columns for 'Field', 'Value', and 'Delete'. The parameters are:

Field	Value	Delete
user	m...w	⊗
password	Db...dPP	⊗
api_id	3...9	⊗
to	{{:country_code}}{{:mobile_number}}	⊗
text	{{:message}}	⊗

Below the table, there is a 'URL Preview' section showing the resulting HTTP request: `http://api.clickatell.com/http/sendmsg?user=m...w&password=Db...dPP&api_id=3...9&to=16045551234&text=Your%20authentication%20token%20code%20is%20123456`. At the bottom, there are buttons for 'Test Settings', 'OK', and 'Cancel'.

Once the correct parameters have been configured, verify that the URL Preview is the same as that displayed on the Clickatell web site.

Once this has been configured, configure a user to use SMS tokens and verify the SMS is correctly sent.

Note that with the 10 free Demo SMS do not display the correct content but rather generic replacement text. Once you have proven that the SMS can be triggered, you will need to purchase SMS credits to fully verify the solution.

Appendix A – Available Variables

The following variables are available in creation of the POST URL:

User Mobile Country Dialing code	{{:country_code}}
User Mobile number	{{:mobile_number}}
SMS Message to be sent containing the token	{{:message}}