

# Clickatell Connect API User Guide

09 November 2011

## Connect API Quick Reference

This section offers you a quick summary of all the service calls which are included in the Clickatell Connect API. The screens which are displayed below provide a mockup view of the way the Connect API service calls are used.

**Account Sign Up**

First Name \*

Last Name \*

Username \*

Password \*

Email \*


Email Format

Country \*  [get\\_list\\_country](#)

Mobile Number \*   [get\\_list\\_country\\_prefix](#)

Company

Account Type \*  [get\\_list\\_account](#)

 [get\\_captcha](#)

Generate new captcha code

Enter Code \*

[get\\_list\\_terms](#)

By registering for, or using any of our services you agree that you have read, understand and are bound by these terms, regardless of how you registered for or use the services.

☒ I Accept the Terms and Conditions

[register](#)

Register

Connect API service call	Explanation
1. get_list_country	1. This command returns all country names and internal identification numbers
2. get_list_country_prefix	2. This command returns all country dial prefixes and internal identification numbers.
3. get_list_account	3. This command returns a list of valid Clickatell account types (e.g. International or USA Local) and their respective ID.
4. get_list_terms	4. This command returns country specific terms and conditions based on the country selection. If there are no country specific terms and conditions the system returns the main version.
5. register	5. This command allows the application or website to register new Clickatell Central accounts which includes all the standard requirements.

Resend Activation Email

Your registered email:

Enter your registered email address here. You will receive an email which contains an activation link.

If you do not receive the email within a few minutes, kindly check your spam folder.

[resend\\_email\\_activation](#)

Connect API service call	Explanation
6. resend_email_activation	6. This command allows the application or website to resend the activation email containing the activation URL. As an option, the command allows for the modification of the activation email address.

**Login**

User Name: \*

Password: \*

[Forgot your password?](#)


authenticate\_user

Connect API service call	Explanation
7. authenticate_user	7. This command allows the application or website to validate a user login.

**Forgot Password**

User Name: \*

Registered E-mail: \*



Type the characters above: \*

forgot\_password

Connect API service call	Explanation
8. forgot_password	8. This command allows the application or website to request Clickatell to generate a new password using the existing 'forgot password' functionality.

Connect API service call	Explanation
9. get_captcha	9. This service call returns a random captcha image in PNG format. The returned image must be URL decoded and rendered before it can be displayed.

Connect API service call	Explanation
10. send_activation_status	10. The send_activation_status service can be called to check if a user's account has been SMS activated.
11. send_activation_sms	11. This service call allows the application or website to send the SMS activation code to the mobile number stored with the Clickatell account.
12. validate_activation_sms	12. This service call allows the application or website to

	SMS activate a Clickatell account.
--	------------------------------------

#### OTHER CONNECT API SERVICE CALLS

Connect API service call	Explanation
13. get_list_callback	13. This service call returns a list of valid MT callback types (methods) (e.g. HTTP GET, HTTP POST) and their respective ID's.
14. get_list_connection	14. This service call returns a list of valid Clickatell connection types (e.g. HTTP API, SMTP API) and their respective ID's
15. create_connection	15. The create_connection service call allows a user to add new messaging API connections to their accounts through your application or website.
16. buy_credits_url	16. The buy_credits_url service call creates a hyperlink that will go to the user's Clickatell account and allow them to buy credits.

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## About Clickatell's Software Development Kit

### Introduction

This guide is written for developers who would like to integrate Clickatell's software development kit with their own application or website interface.

By integrating the Connect API your application or website will be able to:

- Register end user Clickatell accounts
- Complete email and SMS account activation procedures
- Authenticate Clickatell account logins
- Create new messaging API's in Clickatell user accounts
- Allow the end user to purchase SMS credits within a secure controlled environment

The guide contains a quick reference section, a visual overview of the Connect API validation flow, information on how each Connect API service call is used, and a table with all the error definitions listed.

### How does the Connect API work?

The Connect API works as a handshake between your application or website and the Clickatell system. All the transactions are performed using the XML protocol.

You initiate the transaction by parsing a set of XML parameters with a valid token. If the token is valid, the Clickatell system will process the request and submit a response.

### How to use this guide

The topics in this guide provide information on each Connect API service call. The information will tell you when the call is needed, and what you need to know before implementing each service call. The table of parameters will tell you what the required and optional parameters are for each service call.

A detailed set of error code definitions are provided at the end of this document, to help you handle user and software errors. The Connect API provides all the error codes which are defined.

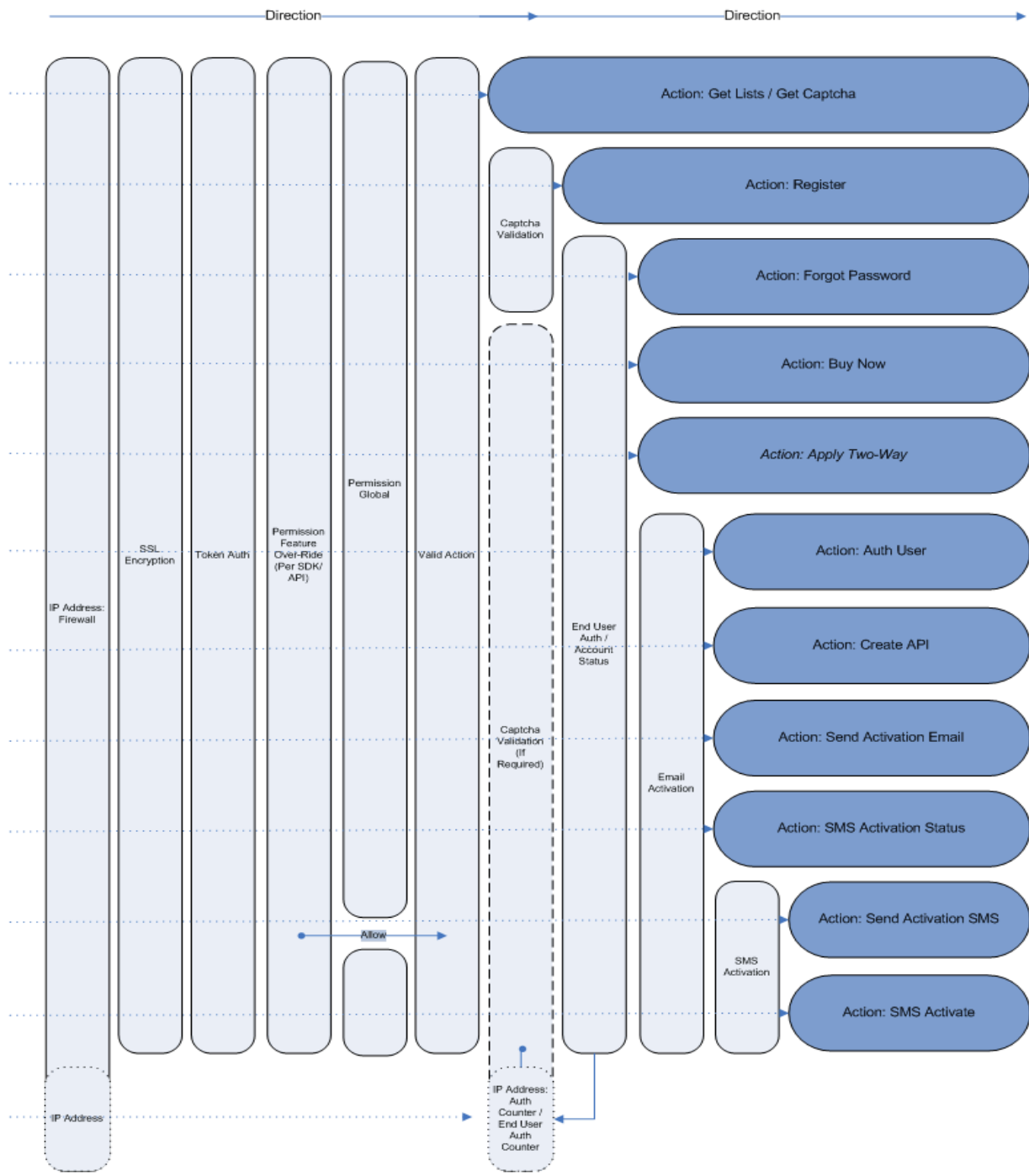
It is a good idea to review the [Connect API validation flow](#) before getting started as each API call will adhere to the flow as illustrated.

## The Connect API validation flow

### Description

The diagram below displays from left to right, the validation steps which must occur before the Connect API action can be called.

### Diagram



## Obtaining your Connect API token

A token is generated using a combination of username, password and API ID. Only service calls with valid tokens will be processed.

### You must have

A Clickatell Central account

### To obtain your token

1. In your web browser go to [www.clickatell.com](http://www.clickatell.com) and logon to your Clickatell Central account.
2. The Central Home page is displayed.
  - In the main menu, click *Manage my Products*.
3. The *Manage my Products* page opens.
  - Click the *Get Connections* submenu item.
4. The *Connection Setup* page is displayed.
  - Click the *NEW! Connect API* link.

5. The *Connect API* page opens

Tell us about your application/website where the API will be integrated.

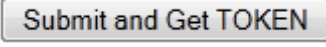
- Enter your *Application Name*
- Enter your *Application Version*
- Enter your *Website URL*

Who can we inform about new API product updates?:

- Enter your *Developer Contact Name*
- Enter your *Developer Contact Number*
- Enter your *Developer Contact Email*

What information can we provide to end-users who require support with your application/website:

- Enter your *Support Contact Name*
- Enter your *Support Contact Number*
- Enter your *Support Contact Email*

- Click 

6. The *Connection: Confirmation* page is displayed.

Your Connect API connection will be created and your authentication token will be displayed.

A URL with which you can submit your case-sensitive XML as an HTTPS form post will also be displayed.

## How to get a list of countries

This service call returns all country names and their associated identification numbers.

### When you need it

This information must be available for selection when a user fills out their personal information during the account registration process.

### You will need

- To know the service call parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	Action			<b>get_list_country</b>

### To retrieve a list of countries

- In your XML document, parse the XML string.



#### Example

```
<clickatellsdk>
  <Action>get_list_country</Action>
</clickatellsdk>
```

- The result of the service call is displayed.
- Is the result of the service call 'Success'?
    - If no, you will receive an error. Check the error definition in the error codes table.

#### Possible errors

```
001, 004, 046, 047, 048, 049, 999
See Error codes Table
```

- If yes, the countries and their associated country ID's will be returned.



#### Example

```
<CLICKATELLSDK>
  <Action>get_list_country</Action>
  <Result>Success</Result>
  <Values>
    <Value>
      <country_id>1</country_id>
      <name>Afghanistan</name>
    <Value>
      ...
    <Value>
      <country_id>305</country_id>
      <name>Zimbabwe</name>
    <Value>
  </Values>
  <Timestamp>1316505729</Timestamp>
</CLICKATELLSDK>
```

## How to pre-populate the country prefix field

It is a good idea to dynamically pre-populate the country prefix (mobile number prefix) field when a country is selected during the registration process. For example when I select 'South Africa' I want the country prefix (mobile number prefix) field to display the code '+27'.

This functionality can be added by calling the `get_list_country_prefix` service call which will display all the country prefixes and their associated identification numbers.

The country ID of the selected country can then be matched with the country ID of the country prefix. The country prefix matching this criterion can then pre-populate the country prefix field.

### When you need it

This information must be available for selection when a user fills out their personal information during the account registration process.

### You will need

- To know the service call parameters.

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	Action			<code>get_list_country_prefix</code>

- To link the country ID of the selected country with the country ID of the country prefix.

### To get a list of country prefixes

- In your XML document, parse the XML string.



#### Example

```
<clickatellsdk>
  <action>get_list_country_prefix</action>
</clickatellsdk>
```

- The result of the service call is displayed.
- Is the result of the service call 'Success'?
    - If no, you will receive an error. Check the error definition in the error codes table.

#### Possible errors

001, 004, 046, 047, 048, 049, 999  
[See Error codes Table](#)

- If yes, the country prefixes and their associated country ID's will be returned.



### Example

```
<CLICKATELLSDK>
  <Action>get_list_country_prefix</Action>
  <Result>Success</Result>
  <Values>
    <Value>
      <country_id>1</country_id>
      <prefix>93</prefix>
    </Value>
    ...
    <Value>
      <country_id>340</country_id>
      <name>1670</name>
    </Value>
  </Values>
  <Timestamp>1316508939</Timestamp>
</CLICKATELLSDK>
```

## How to get a list of account types

This service call returns all Clickatell account types and their associated identification numbers.

### When you need it

This information must be available for selection when a user fills out their personal information during the account registration process.

### You will need

- To know the service call parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	Action			<b>get_list_account</b>

### To get a list of account types

- In your XML document, parse the XML string with the service call parameters:



### Example

```
<clickatellsdk>
  <action>get_list_account</action>
</clickatellsdk>
```

- The result of the service call is displayed.
- Is the result of the service call 'Success'?
    - If no, you will receive an error. Check the error definition in the error codes table.

### Possible errors

 001, 004, 046, 047, 048, 049, 999  
[See Error codes Table](#)

- If yes, the account types and their associated account ID's will be returned



### Example

```
<CLICKATELLSDK>

  <Action>get_list_account</Action>
  <Result>Success</Result>
  <Values>
    <Value>
      <account_id>1</account_id>
      <account_type>International</account_type>
    <Value>
      ...
    <Value>
      <account_id>7</account_id>
      <account_type>India Only Account</account_type>
    <Value>
  </Values>
  <Timestamp>1316509313</Timestamp>

<CLICKATELLSDK>
```

## How to generate a captcha image

This service call returns a random captcha image in PNG format. The returned image must be URL decoded and rendered before it can be displayed.

### When you need it

The captcha image is required for registration, forgotten passwords, to authenticate an end user, add a connection and buy now service calls.

### You will need

- To know the service call parameters

#### Table of parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	action			get_captcha

- To decode and render the returned URL encoded PNG image data.

### To get a captcha image

1. In your XML document, parse the XML string with the service call parameters:.



### Example

```
<clickatellsdk>
  <action>get_captcha</action>
</clickatellsdk>
```

- The result of the service call is displayed.



#### Note

A captcha code that has not been redeemed will expire after 15 minutes.

2. Is the result of the service call 'Success'?

- If no, check the error definition in the error codes table.

#### Possible errors

001, 004, 047, 048, 049, 999  
[See Error codes Table](#)

- If yes, an xml image packet The image packet must be decoded and rendered



#### Example

```
<CLICKATELLSDK>

  <Action>get_captcha</Action>
  <Result>Success</Result>
  <Values>
    <Value>
      <captcha_id>c202a3fc98c50a5f8dccc8540077614e</captcha_id>
      <captcha_image>%89PNG%0D%0A%1A%0A%00%00%00%00%0DIHDR%00%00%00%AF
      %00%00%00-
      %08%02%00%00%00W%88%AC%F1%00%00%12%1AIDATx%9C%ED%5CyxTU%B2%AF
      s%97%5E%93%EE%A4%B3%27%841%24%21%40X%24%A8%04%81%A8++%22H%40%
      B81%2C%E7%60%3D%14%27%831%D2%C5Z%E2Fu%08%3Cm3%A9%DB%EB%A2%2C%
      D2FsZ%83H%2B%7B%13s%0Du%87%D4%A6%F3DE%0E%5Db%7B.a%FFZ%D7T%1E%
      %06%94%96%89%F4%91%00%D0%9D2%85%1E%1B%FA%01%8A%AB+%E0%FF%00%C
      DSh%D94%F1%00%D8%00%00%00%00IEND%AEB%60%82
      </captcha_image>
    </Value>
  </Values>
  <Timestamp>1316511558</Timestamp>

<CLICKATELLSDK>
```

The PHP script below illustrates how the returned image packet can be URL decoded and rendered.

#### PHP script

```
<?php
$img=urldecode($Imagepacketfromxml);
header("Content-type: image/png");
echo($img);
exit();
?>
```

## How to get a list of Clickatell terms and conditions

This service call returns a list of Clickatell's terms and conditions which are relevant to the country in which the user resides. If there are no country specific terms and conditions the system returns the main version.

The country selection for terms and conditions are derived from the users IP Address or the country which they have selected.

Acceptance of these terms and conditions are required to complete an end user Registration.



## When you need it

This information must be available to the user during the account registration process.

## You will need

- To know the service call parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	Action			get_list_terms
Country Identification	country_id	<b>[Required/Optional]</b>	0 – Automatic (Lookup country name based on IP Address)	Valid 'country_id' returned
Client IP Address	client_ip_address	<b>[Required/Optional]</b> IP address of the client using the developer application		Valid IP address
Terms Format	terms_format	<b>[Optional]</b> Request terms and conditions in a specific format	1 – Text	1 – Text 2 – Html

## To get a list of terms and conditions

- In your XML document, parse the XML string with the service call parameters:



### Example

To get a list of terms and conditions	Do this
by supplying the IP address	<pre>clickatellsdk&gt;   &lt;action&gt;get_list_terms&lt;/action&gt;   &lt;client_ip_address&gt;'IP address'&lt;/client_ip_address&gt; &lt;/clickatellsdk&gt;</pre>
By supplying the country ID	<pre>clickatellsdk&gt;   &lt;action&gt;get_list_terms&lt;/action&gt;   &lt;country_id&gt;'country ID'&lt;/country_id&gt; &lt;/clickatellsdk&gt;</pre>



### Note

If both the IP address and country ID are included in your XML query, the IP address will be ignored and only the country ID will be looked at.

- The result of the service call is displayed.

- Is the result of the service call 'Success'?

- If no, an error is displayed. Check the error definition in the error codes table.

### Possible errors

001, 004, 013, 037, 045, 046, 047, 048, 049, 999  
[See Error codes Table](#)

- If yes, the terms and conditions will be displayed.



#### Example

```
<CLICKATELLSDK>

  <Action>get_list_terms</Action>
  <Result>Success</Result>
  <Values>
    <Value>
      <URL_location>http://www.clickatell.com/sdk/terms.txt</URL_location>
    </Value>
  </Values>
  <Timestamp>1316512313</Timestamp>

</CLICKATELLSDK>
```

## How to use the register service call

All details which the user has submitted during registration process will be processed with the register service call.

On successful registration the end user will receive an email with their Clickatell registration details.



#### Note

This register service call can be tested without creating Clickatell accounts by setting the 'test\_mode' parameter to 1.

## When you need it

This service call submits the user's details and completes the registration process.

## You will need

- To know the service call parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	Action			register
Enable Test Mode	test_mode	<b>[Optional]</b> Test mode allows the developer to test the registration command without creating Clickatell accounts	0 – Off	0 – Off 1 – On
Account Type Identification	account_id	<b>[Optional]</b> The account identification as returned in the <a href="#">get_list_account</a> service call	1 - International	As returned in <a href="#">get_list_account</a>
Username	User	<b>[Required]</b> User's new Clickatell account username		(Unique) Alphanumeric - Max Length – 128

Name	Parameter name	Short Description	Default value	Restricted value (s)
Password	Password	<b>[Required]</b> User selected new password		Alphanumeric - Min Length – 6 Max Length – 32 A – Z a – z 0 – 9 No Spaces
Captcha Identification	captcha_id	<b>[Required]</b> The captcha identification number as returned in the <a href="#">get_captcha</a> service call		As returned in <a href="#">get_captcha</a>
Captcha Code				
First Name	Fname	<b>[Required]</b> User's first name		Alphanumeric Max Length – 80
Surname	Sname	<b>[Required]</b> User's surname		Alphanumeric Max Length – 80
Email Address	email_address	<b>[Required]</b> User's email address		Valid Email Address Max Length – 64
Company	Company	<b>[Optional]</b> User's company name	Personal Use	Alphanumeric Max Length – 80
Country Identification	country_id	<b>[Required]</b> Internal identification number representing a specific country as returned in the <a href="#">get_list_country</a> service call		As returned in <a href="#">get_list_country</a>
Mobile Number	mobile_number	<b>[Required]</b> User's mobile number		Valid mobile number format No spaces No leading + sign Numeric Max Length 30
Email Format	email_format	<b>[Optional]</b> User selected email format for correspondence from Clickatell	1 – Plain Text	1 – Plain Text 2 – HTML
Weekly Balance Update	weekly_update	<b>[Optional]</b> User selected option for weekly SMS credit balance update	0 – No	0 – No 1 – Yes
Accept Terms and Conditions	accept_terms	<b>[Required]</b> User selected option agreeing to Clickatell's terms and conditions		0 – No 1 – Yes
Force Account Creation	force_create	<b>[Optional]</b> Force Clickatell account creation regardless if the email address matches an already existent Clickatell account	0 – No	0 – No 1 – Yes

Name	Parameter name	Short Description	Default value	Restricted value (s)
Coupon Code	coupon_code	<b>[Optional]</b> User input Coupon/Promotional Code		Valid Clickatell Coupon Code
Email Activation Redirect URL	activation_redirect	<b>[Optional]</b> Alternate URL to redirect the client after selecting/clicking the activation URL within the Clickatell activation email		Valid URL

## To run the register service call

1. In your XML document, parse the XML string.



### Example

```
<CLICKATELLSDK>

  <action>register</action>
  <user>{user}</user>
  <fname>{fname}</fname>
  <sname>{sname}</sname>
  <password>{password}</password>
  <email_address>{password}</email_address>
  <country_id>{country ID}</country_ID>
  <mobile_number>{mobile number}</mobile_number>
  <accept_terms>{accept terms}</accept_terms>
  <captcha_id>{captcha id}</captcha_id>
  <captcha_code>{captcha code}</captcha_code>

</CLICKATELLSDK>
```

- The result of the service call is displayed.
2. Is the result of the service call 'Success'?
    - If no, check the error definition in the error codes table.

### Possible errors

```
001, 004, 006, 007, 008, 009, 013, 015, 016, 017, 018, 019, 020, 021,
022, 023, 040, 041, 047, 048, 049, 999
See Error codes Table
```

- If yes, the user's account will be registered successfully.

```
<CLICKATELLSDK>

  <Action>register</Action>
  <Result>Success</Result>
  <Values>
    <Timestamp>1316512313</Timestamp>

  </CLICKATELLSDK>
```

## Resending a user's activation email

The `resend_email_activation` service call resends a user's activation email. The email contains a link which when clicked will activate the user's Clickatell account.



### Note

The email will not be resent if the user has already email activated their account.

## When you need it

This function must be available to a user when they have completed the registration process.

## You will need

- To know the service call parameters

**Table of Parameters**

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	Action			<code>resend_email_activation_email</code>
Username	User	<b>[Required]</b> Clickatell account username		Alphanumeric - Length 128
Password	password	<b>[Required]</b> Clickatell account password		Alphanumeric - Length 32
Email Address	email_address	<b>[Optional]</b> Update and resend the Clickatell activation email this email address	Registered email address	Valid email address Max Length – 64
Captcha Identification	captcha_id	<b>***[Required]</b> The captcha identification number as returned in the <a href="#">get_captcha</a> service call		As returned in the <a href="#">get_captcha</a>
Captcha Code	captcha_code	<b>***[Required]</b> The captcha code displayed on the supplied image		Alphanumeric Max Length – 6

*\*\*\* Only required if the Clickatell Account and/or Source IP Address have been blocked (Maximum authentication attempts exceeded).*

## To run the `resend_email_activation` service call

- In your XML document, parse the XML string with the service call parameters:



### Example

```
<clickatellsdk>

  <action>resend_email_activation</action>
  <user>{user}</user>
  <password>{password}</password>
  <email_address>{email_address}</email_address>

</clickatellsdk>
```

- The result of the service call is displayed.

#### 2. Is the result of the service call 'Success'?

- If no, check the error definition in the error codes table.

#### Possible errors

001, 002, 003, 004, 006, 007, 008, 009, 010, 012, 014, 043,  
 047, 048, 049, 999  
[See Error codes Table](#)

- If yes, the user number of the user for which the activation email is requested, will be displayed and the activation email will be sent to the email address supplied during registration.



### Example

```
<CLICKATELLSDK>

  <Action>resend_email_activation</Action>
  <Result>Success</Result>
  <Values>
    <Value>
      <UserNumber>{UserNumber}</UserNumber>

    <Value>
  </Values>
  <Timestamp>1316512313</Timestamp>

<CLICKATELLSDK>
```

## How to retrieve a forgotten password

This service call allows a new password to be generated for users who have forgotten their password.

The call results in an email being sent to the users email address with a new randomly generated password.

### When you need it

This service call must be available to a user on the logon page of your application/website

### You will need

- To know the service calls parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	action			<b>forgot_password</b>
Username	user	<b>[Required]</b> Clickatell account username		Alphanumeric - Max Length 128
Email Address	email_address	<b>[Required]</b> Clickatell account email address		Alphanumeric - Max Length 64
Captcha Identification	captcha_id	<b>[Required]</b> The captcha identification number as returned in the <a href="#">get_captcha</a> service call		As returned in the <a href="#">get_captcha</a>
Captcha Code	captcha_code	<b>[Required]</b> The captcha code displayed on the supplied image		Alphanumeric – Max Length 6

## To run the forgotten\_password service call

1. In your XML document, parse the XML string with the service call parameters:



### Example

```
<CLICKATELLSDK>

  <action>forgot_password</action>
  <username>{user}</username>
  <email_address>{email address}</email_address>
  <captcha_id>{captcha id}</captcha_id>
  <captcha_code>{email address}</captcha_code>

</CLICKATELLSDK>
```

- The result of the service call is displayed.
2. Is the result of the service call 'Success'?
    - If no, check the error definition in the error codes table.

### Possible errors

```
001, 004, 006, 007, 008, 009, 011
See Error codes Table
```

- If yes, a new randomly generated password will be mailed to the email address which was submitted.



### Example

```
<CLICKATELLSDK>

  <Action>forgot_password</Action>
  <Result>Success</Result>
  <Values>
    <Timestamp>1316512313</Timestamp>

  </CLICKATELLSDK>
```

## How to authenticate a user's details

The `authenticate_user` service call is required to authenticate a user's username and password. Before a user can authenticate their username and password they will have to email activate their account.

### When you need it

On the logon page of your application, to authenticate the users details.

### You will need

- A logon page with text boxes for the user's username and password entries.
- A button to pass the `authenticate_user` argument.
- To know the methods parameters.

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	Action			<b>authenticate_user</b>
Username	User	<b>[Required]</b> Clickatell account username		Alphanumeric Max Length - 128
Password	Password	<b>[Required]</b> Clickatell account username		Alphanumeric - Min Length - 6 Max Length - 32
Captcha Identification	captcha_id	<b>***[Required]</b> The captcha identification number as returned in the <a href="#">get_captcha</a> service call		As returned in <a href="#">get_captcha</a>
Captcha Code	captcha_code	<b>***[Required]</b> The captcha code displayed on the supplied image		Alphanumeric – Length 6

\*\*\* Only required if the Clickatell Account and/or Source IP Address have been blocked (Maximum authentication attempts exceeded).

### To run the `authenticate_user` service call.

1. In your XML document, parse the XML string with the service call parameters:



```
<CLICKATELLSDK>

  <action>authenticate_user</action>
  <user>{user}</user>
  <password>{password}</password>

</CLICKATELLSDK>
```

- The result of the service call is displayed.
2. Is the result of the service call 'Success'?
    - If no, check the error definition in the error codes table.



### Possible errors

001, 002, 003, 004, 006, 007, 008, 009, 010, 012, 047,  
048, 049, 999

[See Error codes Table](#)

- If yes, you will receive confirmation of success and the users account will be authenticated.



### Example

```
<CLICKATELLSDK>

  <Action>authenticate_user</Action>
  <Result>Success</Result>
  <Values>
    <Value>
      <Usernumber>{Usernumber}</Usernumber>
    </Value>
  </Values>
  <Timestamp>1316512313</Timestamp>

<CLICKATELLSDK>
```

## How to check a user's SMS activation status

The send\_activation\_status service can be called to check if a user's account has been SMS activated.

### When you need it

When a user logs into their account their SMS activation status must be checked to determine if they have SMS activated their account.

If not a screen must be displayed to allow the user to SMS activate their account. If the user has SMS activated their account they will be allowed to buy credits and send messages.

### You will need

- To know the service call parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	Action			sms_activation_status
Username	user	<b>[Required]</b> Clickatell account username		(Unique Expected) Alphanumeric - Length 128
Password	password	<b>[Required]</b> Clickatell account password		Alphanumeric - Min Length – 6 Max Length – 32 A – Z a – z 0 – 9 No Spaces
Captcha Identification	captcha_id	<b>***[Required]</b> The captcha identification number as returned in the <a href="#">get_captcha</a>		As returned in <a href="#">get_captcha</a>

Name	Parameter name	Short Description	Default value	Restricted value (s)
		service call		
Captcha Code	captcha_code	*** <b>[Required]</b> The captcha code displayed on the supplied image		Alphanumeric Max Length – 6

\*\*\* Only required if the Clickatell Account and/or Source IP Address have been blocked (Maximum authentication attempts exceeded).

## To run the send\_activation\_status service call

1. In your XML document, parse the following string:



### Example

```
<clickatellsdk>

  <action>sms_activation_status</action>
  <user>{username}</user>
  <password>{password}</password>

</clickatellsdk>
```

- The result of the service call is displayed.
2. Is the result of the service call 'Success'?
    - If no, check the error definition in the error codes table.

### Possible errors

001, 002, 003, 004, 006, 007  
[See Error codes Table](#)

- If yes, the returned values will be a notification of success, the user's cellphone number upon registration and the user's user number.



### Example

```
<CLICKATELLSDK>

  <Action>sms_activation_status</Action>
  <Result>Success</Result>
  <Values>
    <Value>
      <Cellphone>{Cellphone Number}</Cellphone>
      <UserNumber>{UserNumber}</UserNumber>
    </Value>
  </Values>
  <Timestamp>1316512313</Timestamp>

<CLICKATELLSDK>
```

## Sending a user's SMS activation code

The `send_activation_sms` service call sends a user the activation code needed to SMS activate their account.

### When you need it

After the user logs on to their Clickatell account, an SMS activation code must be requested to complete SMS activation.

### You will need

- To know the service call parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	Action			<code>send_activation_sms</code>
Username	<code>user</code>	<i>[Required]</i> Clickatell account username		(Unique Expected) Alphanumeric - Length 128
Password	<code>password</code>	<i>[Required]</i> Clickatell account password		Alphanumeric - Min Length – 6 Max Length – 32 A – Z a – z 0 – 9 No Spaces
Mobile Number	<code>mobile_number</code>	<i>[Optional]</i> Update and resend the Clickatell activation SMS this mobile number	Registered mobile number	Valid mobile number format No spaces No leading + sign Numeric Max Length 30
Captcha Identification	<code>captcha_id</code>	<i>***[Required]</i> The captcha identification number as returned in the <a href="#">get_captcha</a> service call		As returned in <a href="#">get_captcha</a>
Captcha Code	<code>captcha_code</code>	<i>***[Required]</i> The captcha code displayed on the supplied image as returned in the <a href="#">get_captcha</a> service call		Alphanumeric Max Length – 6

*\*\*\* Only required if the Clickatell Account and/or Source IP Address have been blocked (Maximum authentication attempts exceeded).*

### To run the `send_activation_sms` service call

- In your XML document, parse the XML string with the service call parameters:



### Example

```
<clickatellsdk>

  <action>send_activation_sms</action>
  <user>{username}</user>
  <password>{password}</password>

</clickatellsdk>
```

- The result of the service call is displayed.

### 3. Is the result of the service call 'Success'?

- If no, check the error definition in the error codes table.

#### Possible errors

```
001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 012, 025, 026,
027, 044, 047, 048, 049, 999
See Error codes Table
```

- If yes, user will receive their activation code on their mobile phone.



### Example

```
<CLICKATELLSDK>

  <Action>send_activation_sms</Action>
  <Result>Success</Result>
  <Values>
    <Timestamp>1316512313</Timestamp>

  <CLICKATELLSDK>
```

## Validating a user's SMS activation code

The `validate_activation_sms` service call is required to verify and submit the SMS activation code that the user receives when [send\\_activation\\_sms](#) service is called.

### When you need it

After the user has signed into their account and requested an SMS activation code, a function will be required to allow the user to submit and verify the SMS activation code which they receive.

### You will need

- To know the method parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	Action			validate_activation_sms
Username	user	[Required] Clickatell account username		Alphanumeric Max Length – 128
Password	password	[Required] Clickatell account password		Alphanumeric - Min Length – 6 Max Length – 32 A – Z a – z

Name	Parameter name	Short Description	Default value	Restricted value (s)
				0 – 9 No Spaces
SMS Activation Code	sms_activation_code	<b>[Required]</b> The user's activation code received on the mobile handset		Alphanumeric Max Length – 11
Captcha Identification	captcha_id	<b>***[Required]</b> The captcha identification number as returned in the <a href="#">get_captcha</a> service call		As returned in the <a href="#">get_captcha</a> service call
Captcha Code	captcha_code	<b>***[Required]</b> The captcha code displayed on the supplied image		Alphanumeric Max Length – 6

\*\*\* Only required if the Clickatell Account and/or Source IP Address have been blocked (Maximum authentication attempts exceeded).

## To run the validate\_activation\_sms service call

1. In your XML document, parse the XML string with the service call parameters:



### Example

```
<clickatellsdk>

  <action>validate_activation_sms</action>
  <user>{username}</user>
  <password>{password}</password>
  <sms_activation_code>{smsactivationCode}</sms_activation_code>

</clickatellsdk>
```

- The result of the service call is displayed.
2. Is the result of the service call 'Success'?
    - If no, check the error definition in the error codes table.

### Possible errors

```
001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 012, 028, 044,
047, 048, 049, 999
See Error codes Table
```

- If yes, you will receive a confirmation of success and the user will be able to purchase credits.



### Example

```
<CLICKATELLSDK>

  <Action>validate_activation_sms</Action>
  <Result>Success</Result>
  <Values>
    <Timestamp>1317198870</Timestamp>

  <CLICKATELLSDK>
```

## How to retrieve a list of callback types

This service call returns a list of valid MT callback types (methods) (e.g. HTTP GET, HTTP POST) and their respective ID's.

### When you need it

When you want to receive delivery status updates. The callback is posted to a URL of yours using the GET or POST method.

### You will need

- To know the service call parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	action			get_list_callback

## To retrieve a list of callback types

- In your XML document, parse the XML string with the service call parameters:



#### Example

```
<clickatellsdk>
  <action>get_list_callback</action>
</clickatellsdk>
```

- The result of the service call is displayed.
- Is the result of the service call 'Success'?
    - If no, check the error definition in the error codes table.

#### Possible errors

001, 004, 046, 047, 048, 049, 999  
[See Error Codes Table](#)

- If yes, the callback type and related callback ID will be returned.



#### Example

```
<CLICKATELLSDK>
  <Action>get_list_callback</Action>
  <Result>Success</Result>
  <Values>
    <Value>
      <callback_type_id>0</callback_type_id>
      <callback_type>HTTP GET</callback_type>
    </Value>
    ...
    <Value>
      <callback_type_id>6</callback_type_id>
      <callback_type>SOAP POST</callback_type>
    </Value>
  </Values>
  <Timestamp>1316512313</Timestamp>
</CLICKATELLSDK>
```

## How to retrieve a list of API connections

This service call returns a list of valid Clickatell connection types (e.g. HTTP API, SMTP API) and their respective ID's.

### When you need it

A user must be able to select their API from a list when adding a new API connection. The connection ID matching the user's API selection can be passed as a parameter when running the [create\\_connection](#) service call.

### You will need

- To know the service call parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	action			get_list_connection

### To retrieve an API connection list

- In your XML document, parse the XML string with the service call parameters:



#### Example

```
<clickatellsdk>
  <action>get_list_connection</action>
</clickatellsdk>
```

- The result of the service call is displayed.

- Is the result of the service call 'Success'?

- If no, check the error definition in the error codes table.

#### Possible errors

001, 004, 046, 047, 048, 049, 999  
[See Error Codes Table](#)

- If yes, a list of valid connection types and their related connection ID's will be returned.



#### Example

```
<CLICKATELLSDK>

  <Action>get_list_connection</Action>
  <Result>Success</Result>
  <Values>
    <Value>
      <connection_type_id>2</connection_type_id>
      <connection_type>HTTP API</connection_type>
    </Value>
    ...
    <Value>
      <connection_type_id>13</connection_type_id>
      <connection_type>XML API</connection_type>
    </Value>
  </Values>
  <Timestamp>1316512313</Timestamp>

</CLICKATELLSDK>
```

## Creating new API connections

The create\_connection service call allows a user to add new messaging API connections to their accounts through your application or website.

### When you need it

After the user has logged onto their account.

### You will need

- To know the internal identification numbers of the API connections. See [How to retrieve a list of API connections.](#)
- To know the service call parameters.

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	Action			create_connection
Username	User	<b>[Required]</b> Clickatell account username	Username	(Unique Expected) Alphanumeric - Length 128
Password	Password	<b>[Required]</b> Clickatell account password	Password	Alphanumeric - Min Length – 6 Max Length – 32 A – Z a – z 0 – 9 No Spaces
API Connection Identification	connection_id	<b>[Optional]</b> Internal identification number representing a specific connection (API) as returned in the <a href="#">get_list_connection</a> service call	API Connection Identification	connection_id
FTP Password	ftp_password	<b>**[Required if Connection Identification = FTP API]</b> FTP password used to login to FTP server	FTP Password	Alphanumeric Max Length – 10
Connection Description	api_description	<b>[Optional]</b> Description of the connection (API) to uniquely identify the API	Connection Description	String – No Limit
IP Lockdown	ip_address	<b>[Optional]</b> One or more comma separated IP address(s) used for API IP Lockdown	OFF	IP Address Length 15
Default Dial Prefix	Dial_prefix	<b>[Optional]</b> Default dial prefix used to replace a leading zero for	OFF	Valid dial prefix



Name	Parameter name	Short Description	Default value	Restricted value (s)
		SMS		
Callback URL	callback_url	<b>[Optional]</b> URL to send SMS status notifications (MT Callback)	OFF	Valid URL
Callback Type	callback_type_id	<b>[Optional]</b> Method to transport Callback URL (above) as returned in <a href="#">get_list_callback</a>	1 – HTTP Get	As returned in <a href="#">get_list_callback</a>
Callback Username	callback_username	<b>[Optional]</b> Basic header authentication username	OFF	Alphanumeric Max Length – 64
Callback Password	callback_password	<b>[Optional]</b> Basic header authentication password	OFF	Alphanumeric Max Length – 64
Captcha Identification	captcha_id	<b>***[Required]</b> The captcha identification number as returned in the <a href="#">get_captcha</a> service call		As returned in <a href="#">get_captcha</a>
Captcha Code	captcha_code	<b>***[Required]</b> The captcha code displayed on the supplied image		Alphanumeric Max Length – 6

\*\*\* Only required if the Clickatell Account and/or Source IP Address have been blocked (Maximum authentication attempts exceeded).

## To run the validate\_activation\_sms service call

1. In your XML document, parse the XML string with the service call parameters:

```
<clickatellsdk>
    <action>create_connection</action>
    <user>{username}</user>
    <password>{password}</password>
    <connection_id>{connection_id}</connection_id>
</clickatellsdk>
```

- The result of the service call is displayed.
2. Is the result of the service call 'Success'?
    - If no, check the error definition in the error codes table.

### Possible errors

```
001, 002, 003, 004, 006, 007, 008, 009, 010, 012, 029, 030, 031, 032,
033, 034, 035, 036, 038, 042, 047, 048, 049, 999
See Error Codes Table
```

- If yes, you will receive a notification of success and the API ID of the connection will be displayed.



### Example

```
<CLICKATELLSDK>

  <Action>create_connection</Action>
  <Result>Success</Result>
  <Values>
    <Value>
      <api_id>3334222</api_id>
    </Value>
  </Values>
  <Timestamp>1317110811</Timestamp>

</CLICKATELLSDK>
```

## Buying credits

The buy\_credits\_url service call creates a hyperlink that will go to the user's Clickatell account and allow them to buy credits.

### When you need it

After the user has SMS and Email activated their account.

### You will need

- To know the method parameters

Name	Parameter name	Short Description	Default value	Restricted value (s)
Action	action			buy_credits_url
Username	user	<b>[Required]</b> Clickatell account username		(Unique Expected) Alphanumeric - Length 128
Password	password	<b>[Required]</b> Clickatell account password		Alphanumeric Max Length – 32
Captcha Identification	captcha_id	<b>***[Required]</b> The captcha identification number as returned in the <a href="#">get_captcha</a> service call		As returned in <a href="#">get_captcha</a>
Captcha Code	captcha_code	<b>***[Required]</b> The captcha code displayed on the supplied image		Alphanumeric Max Length – 6

## To run the buy\_credits\_url service call

1. In your XML document, parse the XML string with the service call parameters:

```
<clickatellsdk>

    <action>buy_credits_url</action>
    <user>{username}</user>
    <password>{password}</password>

</clickatellsdk>
```

- The result of the service call is displayed.

3. Is the result of the service call 'Success'?

- If no, check the error definition in the error codes table.

### Possible errors

001, 002, 003, 004, 006, 007, 008, 009, 010, 012, 047, 048, 049, 999  
[See Error Codes Table](#)

- If yes, a notification of success and the 'buy credits url' will be returned.



### Example

```
<CLICKATELLSDK>

    <Action>buy_credits_url</Action>
    <Result>Success</Result>
    <Values>
        <Value>
            <buy_url>https://www.clickatell.com/
            buy_now.php?auth_id=SaUxkAnJikilw9LYIY5RnWg6bPlNuY8
            a</buy_url>
        </Value>
    </Values>
    <Timestamp>1317110811</Timestamp>

</CLICKATELLSDK>
```


## How to test your Connect API calls

A tool is available that will allow you to test all the Clickatell Connect API method calls.

### You must have

A valid authentication token. See [Obtaining your Connect API token](#).

### To test you API calls

1. In your web browser go to <http://api.clickatell.com/xml/sdk.php>
2. The *Connect API Test Tool* page opens.
  - Enter the token that you have received in the *Connect API Authentication Token* field.
  - Enter your Connect API call in the *XML Data field (case sensitive)*: field.
  - Click 
3. The result of your API call will be displayed.

## List of errors in response to invalid service calls

A detailed set of error codes are available, to help you handle user and software errors. The Connect API provides the error codes shown in the following table.

Status Code	Message	Description
001	Success	API successfully executed.
002	Source IP Address Blocked	If a specific source IP address has been blocked by Clickatell.
003	Max IP auth attempts exceeded, captcha required	If a specific source IP address receives TEN consecutive authentication failures (010). The IP address remains in this state until a successful validation on any user account.
004	Max user auth attempts exceeded, captcha required	If a specific account (valid username) receives TWO consecutive authentication failures (010). The user account remains in this state until a successful validation on the said account (then captcha lock is removed).
005	Invalid Unique URL	The unique URL (token) is invalid.
006	Account not active	If the Clickatell account is not active.
007	Command not allowed	If the specific command has been disabled at a global/API level
008	Connect API disabled	If the API has been disabled (no commands allowed)
009	HTTP protocol not allowed, require HTTPS	If the API call is performed via HTTP (and not HTTPS- SSL)
100	Blocked Mobile Number	The activation mobile number has been blocked
101	Destination not covered	Delivery to the supplied mobile number is not available.
102	Max SMS activation attempts exceeded	The respective Clickatell account has exceeded the total number of allowed SMS activation attempts.
103	Not email activated	The Clickatell account is not email activated
104	Not SMS activated	The Clickatell account is not SMS activated
105	Matching account found (email address)	The client already has a Clickatell account matching the same email address, the developer is able to get around this by using the force_create parameter in the register command
106	Unable to create account due to restrictions	We are not able to register the account due to trade embargo restrictions. This is based on IP Address and/or country selection . system needs to verify against the .Trade Embargo. system
107	Account already email activated	The application attempted to resend the activation email for an already email activated account
108	Account already SMS activated	The application attempted to send/resend the activation SMS for an

		already SMS activated account
109	Coupon Error: (use coupon description)	This need to provide the assigned respective error description for the coupon redeem failure.
400	Invalid or missing captcha_ID	An invalid captcha id was either invalid or missing.
401	Invalid or missing captcha_code	Valid captcha id with invalid or missing captcha code.
402	Captcha expired	Valid captcha id that has expired: 15 minutes or 1 failed attempt.
403	Captcha already redeemed	Valid captcha id that has expired: 15 minutes or 1 failed attempt.
404	Authentication failed	Invalid username and/or password.
405	Authentication failed	Invalid username and/or email address.
406	Invalid or missing country ID	The country_id value is either invalid or missing.
407	Invalid email_format	The email_format value is invalid.
408	Invalid weekly update	The weekly_update value is invalid.
409	Invalid accept_terms	The accept_terms value is invalid.
410	Terms acceptance required	The accept_terms value is missing.
411	Invalid Test_mode	The test_mode value is invalid.
412	Invalid account_ID	The account_id is invalid
413	Invalid force_create	The force_create value is invalid.
414	Invalid or missing registration data	One or more registration values are either invalid or missing.
415	Invalid activation_redirect	The activation_redirect URL is invalid.
416	Invalid or missing email_address	The email_address value is either invalid or missing.
417	Invalid or missing mobile_number	The mobile_number is either invalid or missing.
418	Invalid or missing sms_activation_code	The sms_activation_code value is either invalid or missing
419	Invalid connection_id	The connection_id value is invalid
420	Invalid or missing ftp_password	The ftp_password value is either invalid or missing.
421	Invalid dial_prefix	The dial_prefix value is invalid.
422	Invalid ip_address	The ip_address value is invalid.
423	Invalid callback_URL	The callback_url value is invalid.
424	Invalid callback_type	The callback_type value is invalid.
425	Invalid callback_username	The callback_username value is invalid.
426	Invalid callback_password	The callback_password is invalid.
427	Invalid terms_format	The terms_format value is invalid.
428	Invalid api_description	The api_description value is invalid
429	Invalid or missing client_ip_address	The application omitted country_id thus geo-IP location is used / The IP address supplied is invalid
430	Unknown service request	The service request is invalid

431	Invalid or missing username	The username is invalid or missing
432	Invalid or missing password	The password is invalid or missing
433	Invalid or missing firstname	The firstname is invalid or missing
434	Invalid or missing surname	The surname is invalid or missing
435	Invalid or missing company	The company is invalid or missing
436	Invalid activation redirect	The activation_redirect URL is invalid.
437	The credit value is not valid	the credit value passed is not a number or is empty
438	The user is not valid	The user number supplied does not match an existing account
439	Username is unavailable	The username provided is already in use
440	Incorrect username and/or password	The username and/or password combination is not valid.
999	Unknown error	On error trap