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## **Configuration and Application Programming Interface (API) Guide for Web OTP Module for 2-factor authentication process**

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*Prepared by*

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# CONFIGURATION AND APPLICATION PROGRAMMING INTERFACE (API) GUIDE FOR WEB OTP MODULE FOR 2-FACTOR AUTHENTICATION PROCESS

## 1. INTRODUCTION

The sendQuick Web OTP Module is designed for all applications who wish to have the two factor authentication (2FA) capability without the hassle of developing the codes for OTP generation, authentication and verifications. The Web OTP consists of a pair (OTP Generation and OTP Verification) of Application Programming Interface (API) that can be utilised for any applications for any types of transactions.

The Web OTP module is an add-on function and can be added to sendQuick Alert Plus, sendQuick Entera and sendQuick Conexa.

## 2. WEB OTP CONFIGURATION

The Web OTP need to be configured for it to accept and authenticate the individual applications. These applications are called Client. Login to the Web OTP administration URL (<http://sendQuickIP/webotp/>). Login as 'otpadmin' and password using 'admin123'.

Once you have access, create a new Client (as shown in Figure 1 below). Complete the form as shown in Figure 2 and the configuration will complete.

Create New Client

**List Of OTP Client(s)**

No	Client Desc	Request API	Session API	Modem Label	Created By	Delete
1	http1	otp_http.php	session_http.php	m1	otpadmin	<a href="#">Edit</a> <input type="checkbox"/>
2	http2	otp_http.php	session_http.php		otpadmin	<a href="#">Edit</a> <input type="checkbox"/>
3	soap1	otp_soap.php	session_soap.php	m2	otpadmin	<a href="#">Edit</a> <input type="checkbox"/>
4	xml1	otp_xml.php	session_xml.php	m2	otpadmin	<a href="#">Edit</a> <input type="checkbox"/>
5	xml2	otp_xml.php	session_xml.php	m2	otpadmin	<a href="#">Edit</a> <input type="checkbox"/>

Checked All 
Delete Checked Client(s)
Empty All Clients

Figure 1: Web OTP Clients Configuration

### 2.1 Add New Web OTP client

Configure the new Web OTP client using the explanation as provided below and as shown in Figure 2. Each client is an application that will utilise the Web OTP function. Once the configuration is completed, the client is ready to use Web OTP with the chosen API as explained in Section 4 in this document.

**Create New Client**

Client Description :	<input type="text" value="http1"/>
Client id : <small>*Mandatory field.This id will be used for authentication and will not be edited.</small>	<input type="text" value="http1"/>
Password : <small>*Mandatory field.This id will be used for authentication.</small>	<input type="text" value="password"/>
API Type :	<input type="button" value="HTTP"/> ▾
Type :	<input type="button" value="OTP(One time pin)"/> ▾ Expiry on Minute : <input type="text" value="2"/>
PIN Type :	<input type="button" value="Numeric"/> ▾
PIN length: <small>*PIN should be range between 4-10 characters.</small>	<input type="button" value="4"/> ▾
Compose Message : <small>* use xPINx to replace PIN. * use xEXPIRYx to replace expiry time. * Both variables are case-sensitive. Example Message: Your PIN is xPINx and expired in xEXPIRYx minutes/hours.</small>	<div style="border: 1px solid black; padding: 5px; min-height: 100px;"> <p>Your PIN is xPINx and expired in xEXPIRYx minutes.</p> </div> <p>Characters : <input type="text" value="50"/> Message Count : 1 / 2</p>
Designated Modem Label :	<input type="button" value="m1 (628068820400001)"/> ▾
<input type="button" value="Add"/> <input type="button" value="Cancel"/>	

Figure 2: Configure a New Wen OTP Client

Client Description	Short description for Web OTP client
Client ID	Unique ID for Web OTP client.
Password	Password for this client.
API Type	<i>[HTTP   XML   SOAP]</i> Web OTP request method. Refer to [Section 13. Web OTP API]
Type	<i>[OTP   STP]</i> OTP – One Time password. Use for one time only within minutes. STP – Short Term password. Can be used for max_attempts times within hours.
PIN Type	<i>[Numeric   Alpha Numeric   Alpha Numeric – Case Sensitive]</i> OTP characters format.
PIN length	OTP length.
Compose Message	OTP message template.

Designated Modem Label	Select designated modem label to send SMS for this Web OTP client. Need to configure at System Admin page. (Menu → SMS System Setup → Modem Routing)
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### 3. WEB OTP LOG

This feature allow searching for the Web OTP logs based on mobile number, client ID and selected date range as shown in Figure 3 below.

Search HTTP Sent Log	
Mobile Number	<input type="text"/>
Client	<input type="text" value="http2"/> ▼
Dated From	<input type="text" value="30-05-2012"/> (dd-mm-yyyy)
Dated To	<input type="text" value="30-05-2012"/> (dd-mm-yyyy)
<input type="button" value="Search"/>	

[Export OTP Sent Log]						
No	Sent Dtm	Mobile Number	Message Content	Status	Session Validate Dtm	Resp Code
1	30-05-2012 12:20	91234567	Your PIN is 73945 and expired in 5 minutes/hours.	Y	30-05-2012 12:28	201
2	30-05-2012 12:17	91234567	Your PIN is 82497 and expired in 5 minutes/hours.	Y	30-05-2012 12:30	201

Figure 3: Search Logs Information

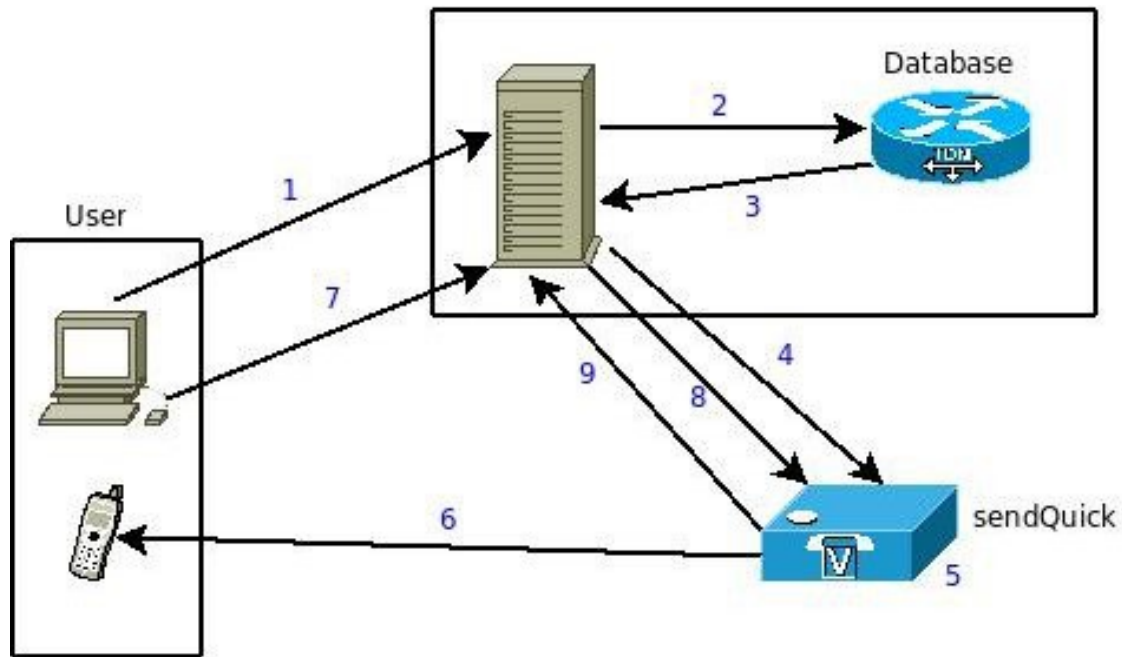
### 4. WEB OTP API EXPLAINED

The Web OTP is a module designed to perform the OTP generation and OTP verifications for any web based applications. Uisng Web OTP, the developer does not need to be involved in the OTP generation and this function is easily 'offloaded' to the Web OTP module.

As this is a module, the developer can decide when they wish to use the OTP and use the preferred API call to perform the OTP function. There is no restriction on when the API call can be used. Hence, the OTP generation can be used at any stage of any applications like login, transaction confirmation and any other actions that requires 2-FA.

#### 4.1 Web OTP Process/Transaction Flow

The diagram below explains the Web OTP transaction flow. The individual steps are explained and despicped in the flow diagram below.



Process/Transaction Flow is explained below:

1. User Login via Web Portal by using userid + password or PIN
2. Authenticate user by using login information i.e username, password
3. Authentication is successful (for username and password)
4. Send user information (username, mobile) to SendQuick via HTTP or XML or SOAP
5. sendQuick generate OTP/STP and store the user information in SendQuick's Database for session validation
6. sendquick send OTP/STP to user's mobile
7. User keyin the "PIN" that he received via SMS
8. Send user information (username, OTP) for session validation
9. SendQuick will response whether the session is valid or not.

## 4.2 Request for New OTP API

This function is used when the application need to generate an OTP. The API, URL and explanations is as below.

### 4.2.1 Request using HTTP Method

The HTTP API file name is: **http://[Server's IP]/webotp/otp\_http.php**

The following parameters are fixed and predefined by SendQuick.

1. id – this parameter refer to the "client id" which can be created by the client at SendQuick web interface
2. passwd – this parameter ties to "id" parameter – also can be created by the client at SendQuick web interface
3. username – this parameter refers to the username that used by the end user
4. mobile – the mobile number of the end user
5. session\_id - the session id is generated by SendQuick and can be re-used for resending the OTP with the same sessionid. For new OTP request, the value is '0'
6. resend – use '1' for the Re-send request, '0' for new OTP request

#### Request

http://[Server's IP]/webotp/otp\_http.php?  
id=http&passwd=1234&mobile=+6581234569&username=ym&session\_id=0&resend=0

#### Response

For successful request: <response code>,<sessionId> Example: 205,AbCd123

For unsuccessful request: <response code> Example: 101

Please take note that the client has to keep the session id and use it for OTP verification.

### 4.2.2 Request using XML Method

The XML API filename is: **http://[Server's IP]/webotp/otp\_xml.php**

The following parameters are the fixed and predefined by SendQuick.

1. id – this parameter refer to the “client id” which can be created by the client at SendQuick web interface
2. passwd – this parameter ties to “id” parameter – also can be created by the client at SendQuick web interface
3. user – this parameter refers to the username that used by the end user
4. mobile – the mobile number of the end user
5. session\_id - the session id is generated by SendQuick and can be re-used for resending the OTP with the same sessionid. For new OTP request, the value is '0'
6. resend – use '1' for the Re-send request, '0' for new OTP request

#### Request

```
<?xml version="1.0"?>
<post_data>
  <info>
    <id>abc123</id>
    <passwd>password</passwd>
    <mobile>+6581234569</mobile>
    <user>YM</user>
    <session_id>0</session_id>
    <resend>0</resend>
  </info>
</post_data>
```

#### Response

For successful request: <response code>,<sessionId> Example: 205,AbCd123

For unsuccessful request: <response code> Example: 101

Pls take note that the client has to keep the session id and use it for OTP verification.

### 4.2.3 Request using SOAP Method

The SOAP api filename is: **http://[Server's IP]/webotp/otp\_soap.php**

The following parameters are the fixed and predefined by SendQuick.

1. id – this parameter refer to the “client id” which can be created by the client at SendQuick web interface
2. password – this parameter ties to “id” parameter – also can be created by the client at SendQuick web interface
3. username - this parameter refers to the username that used by the end user
4. mobile - the mobile number of the end user
5. session\_id - the session id is generated by SendQuick and can be re-used for resending the OTP with the same sessionid. For new OTP request, the value is '0'
6. resend – use '1' for the Re-send request, '0' for new OTP request

The WSDL is as follow:

```
<definitions targetNamespace="urn:otpwsdl"><types><xsd:schema
targetNamespace="urn:otpwsdl"><xsd:import
namespace="http://schemas.xmlsoap.org/soap/encoding/"/><xsd:import
namespace="http://schemas.xmlsoap.org/wsdl/"/></xsd:schema></types><message
name="generateOTPRequest"><part name="id" type="xsd:string"/><part name="password"
type="xsd:string"/><part name="mobile" type="xsd:string"/><part name="username"
type="xsd:string"/><part name="session_id" type="xsd:string"/><part name="resend"
type="xsd:string"/></message><message name="generateOTPResponse"><part name="return"
type="xsd:string"/></message><portType name="otpwsdlPortType"><operation
name="generateOTP"><documentation>OTP</documentation><input
message="tns:generateOTPRequest"/><output
message="tns:generateOTPResponse"/></operation></portType><binding name="otpwsdlBinding"
type="tns:otpwsdlPortType"><soap:binding style="rpc"
transport="http://schemas.xmlsoap.org/soap/http"/><operation name="generateOTP"><soap:operation
soapAction="urn:otpwsdl#generateOTP" style="rpc"/><input><soap:body use="encoded"
namespace="urn:otpwsdl"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/></input><output><soap:body use="encoded"
namespace="urn:otpwsdl"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/></output></operation></binding><service
name="otpwsdl"><port name="otpwsdlPort" binding="tns:otpwsdlBinding"><soap:address
location="http://entera.sendquick.messngr/webotp/otp_soap.php"/></port></service></definitions>
```

The details of generateOTP is as follow:

Name: generateOTP  
Binding: otpwsdlBinding  
Endpoint: http://entera.sendquick.messngr/webotp/otp\_soap.php  
SoapAction: urn:otpwsdl#generateOTP  
Style: rpc  
Input:  
  use: encoded  
  namespace: urn:otpwsdl  
  encodingStyle: http://schemas.xmlsoap.org/soap/encoding/  
  message: generateOTPRequest  
  parts:  
    id: xsd:string  
    password: xsd:string  
    mobile: xsd:string  
    username: xsd:string  
    session\_id: xsd:string  
    resend: xsd:string  
Output:

use: encoded  
namespace: urn:otpwsdl  
encodingStyle: http://schemas.xmlsoap.org/soap/encoding/  
message: generateOTPResponse  
parts:  
  return: xsd:string  
Namespace: urn:otpwsdl  
Transport: http://schemas.xmlsoap.org/soap/http  
Documentation: OTP  
Request  
POST /webotp/otp\_soap.php HTTP/1.0  
Host: 127.0.0.1  
User-Agent: NuSOAP/0.7.3 (1.114)  
Content-Type: text/xml; charset=ISO-8859-1  
SOAPAction: ""  
Content-Length: 723

```
<?xml version="1.0" encoding="ISO-8859-1"?><SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:SOAP-
ENC="http://schemas.xmlsoap.org/soap/encoding/"><SOAP-ENV:Body><ns5100:generateOTP
xmlns:ns5100="http://tempuri.org"><id xsi:type="xsd:string">abc123</id><password
xsi:type="xsd:string">password</password><mobile
xsi:type="xsd:string">+6581234569</mobile><username xsi:type="xsd:string">ym</username><session_id
xsi:type="xsd:int">0</session_id><resend xsi:type="xsd:int">0</resend></ns5100:generateOTP></SOAP-
ENV:Body></SOAP-ENV:Envelope>
```

Response  
HTTP/1.1 200 OK  
Date: Thu, 04 Oct 2012 02:45:43 GMT  
Server: Apache  
X-Powered-By: PHP/5.2.6  
Set-Cookie: PHPSESSID=48142254ecc95e037e3d6b273fea32fe; path=/  
Expires: Thu, 19 Nov 1981 08:52:00 GMT  
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0  
Pragma: no-cache  
X-SOAP-Server: NuSOAP/0.7.3 (1.114)  
Content-Length: 459  
Connection: close  
Content-Type: text/xml; charset=ISO-8859-1

```
<?xml version="1.0" encoding="ISO-8859-1"?><SOAP-ENV:Envelope xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:SOAP-
ENC="http://schemas.xmlsoap.org/soap/encoding/"><SOAP-ENV:Body><ns1:generateOTPResponse
xmlns:ns1="http://tempuri.org"><return
xsi:type="xsd:string">205,jSdR</return></ns1:generateOTPResponse></SOAP-ENV:Body></SOAP-
ENV:Envelope>
```

For successful request: <response code>, <sessionId> Example: 205,AbCd123  
For unsuccessful request: <response code> Example: 101

Please take note that the client has to keep the session id and use it for OTP verification.



### 4.3 Request to Resend an OTP API

The application can perform a resend of the OTP (for the same session) by using this API. Please check the example value of session\_id and resend parameters.

#### 4.3.1 Request to Resend using HTTP Method

Request

```
http://[Server's IP]/webotp/otp_http.php?  
id=http&passwd=1234&mobile=123&username=ym&session_id=Abc123&resend=1
```

Response

Example for Successful request: 205, Abc123

Example for Unsuccessful request: 101

#### 4.3.2 Request to Resend using XML Method

Request

```
<?xml version="1.0"?>  
<post_data>  
  <info>  
    <id>abc123</id>  
    <passwd>password</passwd>  
    <mobile>+6581234569</mobile>  
    <user>YM</user>  
    <session_id>Abc123</session_id>  
    <resend>1</resend>  
  </info>  
</post_data>
```

Response

Example for Successful request: 205, Abc123

Example for Unsuccessful request: 101

#### 4.3.3 Request to Resend using SOAP Method

Request

```
POST /webotp/otp_soap.php HTTP/1.0  
Host: 127.0.0.1  
User-Agent: NuSOAP/0.7.3 (1.114)  
Content-Type: text/xml; charset=ISO-8859-1  
SOAPAction: ""  
Content-Length: 723
```

```
<?xml version="1.0" encoding="ISO-8859-1"?><SOAP-ENV:Envelope SOAP-  
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xmlns:SOAP-  
ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"  
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:SOAP-  
ENC="http://schemas.xmlsoap.org/soap/encoding/"><SOAP-ENV:Body><ns5100:generateOTP  
xmlns:ns5100="http://tempuri.org"><id xsi:type="xsd:string">abc123</id><password  
xsi:type="xsd:string">password</password><mobile  
xsi:type="xsd:string">+6581234569</mobile><username xsi:type="xsd:string">ym</username><session_id  
xsi:type="xsd:int">Abc123</session_id><resend  
xsi:type="xsd:int">1</resend></ns5100:generateOTP></SOAP-ENV:Body></SOAP-ENV:Envelope>
```

Response

HTTP/1.1 200 OK  
Date: Thu, 04 Oct 2012 02:45:43 GMT  
Server: Apache  
X-Powered-By: PHP/5.2.6  
Set-Cookie: PHPSESSID=48142254ecc95e037e3d6b273fea32fe; path=/  
Expires: Thu, 19 Nov 1981 08:52:00 GMT  
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0  
Pragma: no-cache  
X-SOAP-Server: NuSOAP/0.7.3 (1.114)  
Content-Length: 459  
Connection: close  
Content-Type: text/xml; charset=ISO-8859-1

```
<?xml version="1.0" encoding="ISO-8859-1"?><SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"><SOAP-ENV:Body><ns1:generateOTPResponse xmlns:ns1="http://tempuri.org"><return xsi:type="xsd:string">205,Abc123</return></ns1:generateOTPResponse></SOAP-ENV:Body></SOAP-ENV:Envelope>
```

#### 4.4 The OTP Verification API

This function is to verify that the OTP submitted by the user is correct and generated by Web OTP and within the usage validity time period.

##### 4.4.1 The OTP Verification API using HTTP Method

The api file name is: **http://[Server's IP]/webotp/session\_http.php**

Following parameters are fixed and predefined by SendQuick:

1. username – the login username of the end user
2. token – the otp/stp that user key-in
3. mobile - the mobile number of the end user
4. session\_id - the session id is generated by SendQuick and return together with the response code upon requesting of generating OTP

Request

```
http://[Server's IP]/webotp/session_http.php?  
username=ym&token=035764&session_id=Abc123&mobile=+6581234569
```

Response

```
<response_code> Example: 201
```

##### 4.4.2 The OTP Verification API using XML Method

The api file name is: **http://[Server's IP]/webotp/session\_xml.php**

Following parameters are fixed and predefined by SendQuick:

1. username – the login username of the end user
2. token – the otp/stp that user key-in
3. mobile - the mobile number of the end user
4. session\_id - the session id is generated by SendQuick and return together with the response code

upon requesting of generating OTP

Request

```
<?xml version="1.0"?>
<post_data>
  <info>
    <username>ym</username>
    <token>5bc0G4</token>
    <session_id>Abc123</session_id>
    <mobile>+6581234569</mobile>
  </info>
</post_data>
```

Response

```
<response_code> Example: 201
```

#### 4.4.3 The OTP Verification API using SOAP Method

The api file name is: [http://\[Server's IP\]/webotp/session\\_soap.php](http://[Server's IP]/webotp/session_soap.php)

Following parameters are fixed and predefined by SendQuick:

1. username – the login username of the end user
2. token – the otp/stp that user key-in
3. mobile - the mobile number of the end user
4. session\_id - the session id is generated by SendQuick and return together with the response code upon requesting of generating OTP

The WSDL is as follow:

```
<definitions targetNamespace="urn:otptokenwsdl"><types><xsd:schema
targetNamespace="urn:otptokenwsdl"><xsd:import
namespace="http://schemas.xmlsoap.org/soap/encoding/"><xsd:import
namespace="http://schemas.xmlsoap.org/wsdl/"></xsd:schema></types><message
name="checkTokenRequest"><part name="username" type="xsd:string"/><part name="token"
type="xsd:string"/><part name="session_id" type="xsd:string"/><part name="mobile"
type="xsd:string"/></message><message name="checkTokenResponse"><part name="return"
type="xsd:string"/></message><portType name="otptokenwsdlPortType"><operation
name="checkToken"><documentation>OTP</documentation><input
message="tns:checkTokenRequest"/><output
message="tns:checkTokenResponse"/></operation></portType><binding name="otptokenwsdlBinding"
type="tns:otptokenwsdlPortType"><soap:binding style="rpc"
transport="http://schemas.xmlsoap.org/soap/http"/><operation name="checkToken"><soap:operation
soapAction="urn:otptokenwsdl#checkToken" style="rpc"/><input><soap:body use="encoded"
namespace="urn:otptokenwsdl"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"></input><output><soap:body use="encoded"
namespace="urn:otptokenwsdl"
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"></output></operation></binding><service
name="otptokenwsdl"><port name="otptokenwsdlPort" binding="tns:otptokenwsdlBinding"><soap:address
location="http://entera.sendquick.messngr/webotp/session_soap.php"/></port></service></definitions>
```

The details of checkTokenRequest is as follow:

Name: checkToken

Binding: otptokenwsdlBinding

Endpoint: [http://entera.sendquick.messngr/webotp/session\\_soap.php](http://entera.sendquick.messngr/webotp/session_soap.php)

SoapAction: urn:otptokenwsdl#checkToken  
Style: rpc  
Input:  
  use: encoded  
  namespace: urn:otptokenwsdl  
  encodingStyle: http://schemas.xmlsoap.org/soap/encoding/  
  message: checkTokenRequest  
  parts:  
    username: xsd:string  
    token: xsd:string  
    session\_id: xsd:string  
    mobile: xsd:string  
Output:  
  use: encoded  
  namespace: urn:otptokenwsdl  
  encodingStyle: http://schemas.xmlsoap.org/soap/encoding/  
  message: checkTokenResponse  
  parts:  
    return: xsd:string  
Namespace: urn:otptokenwsdl  
Transport: http://schemas.xmlsoap.org/soap/http  
Documentation: OTP  
Request  
POST /webotp/session\_soap.php HTTP/1.0  
Host: 127.0.0.1  
User-Agent: NuSOAP/0.7.3 (1.114)  
Content-Type: text/xml; charset=ISO-8859-1  
SOAPAction: ""  
Content-Length: 655

```
<?xml version="1.0" encoding="ISO-8859-1"?><SOAP-ENV:Envelope SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:SOAP-
ENC="http://schemas.xmlsoap.org/soap/encoding/"><SOAP-ENV:Body><ns1168:checkToken
xmlns:ns1168="http://tempuri.org"><username xsi:type="xsd:string">ym</username><token
xsi:type="xsd:string">778034</token><session_id xsi:type="xsd:string">jSdR</session_id><mobile
xsi:type="xsd:string">+6581234569</mobile></ns1168:checkToken></SOAP-ENV:Body></SOAP-
ENV:Envelope>
```

Response  
HTTP/1.1 200 OK  
Date: Thu, 04 Oct 2012 22:41:36 GMT  
Server: Apache  
X-Powered-By: PHP/5.2.6  
Set-Cookie: PHPSESSID=a2b1ff58649be0962eeec421d9c5df2b; path=/  
Expires: Thu, 19 Nov 1981 08:52:00 GMT  
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0  
Pragma: no-cache  
X-SOAP-Server: NuSOAP/0.7.3 (1.114)  
Content-Length: 452  
Connection: close  
Content-Type: text/xml; charset=ISO-8859-1

```
<?xml version="1.0" encoding="ISO-8859-1"?><SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"><SOAP-ENV:Body><ns1:checkTokenResponse xmlns:ns1="http://tempuri.org"><return xsi:type="xsd:string">120</return></ns1:checkTokenResponse></SOAP-ENV:Body></SOAP-ENV:Envelope>
```

## 5. Predefined Response Codes

Refer to the list of response codes defined by SendQuick System for the response.

Response Code	Reasons
101	IP is not allowed
102	Authentication Failed
103	Missing Parameter(s)
104	Mobile Number Missing
105	Message Content is Empty
106	Invalid Mobile Number
107	Invalid Message Type
108	Aunthentication Failed. (Password does not match)
110	Invalid Client ID
111	Maximum attempts exceeded
112	OPT Username Empty
113	Generate PIN failed
120	Invalid Username or Token
121	Session Expired
122	Invalid Session ID
130	DB Connection Error
205	OTP successfully generated
201	OTP verification successful