

API

Instructions on how to quickly integrate InfoPi messaging services into various solutions.

- Access
- Parameters
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- Examples

Access

Webservices URL: <http://infopi.io/text/index.php?app=ws>

Parameters

Listed in the below table are webservice parameters for individual tasks.

| Name | Description |
|-----------|--|
| h | webservice token, configured by user from Preferences menu |
| u | username |
| p | password, supplied for op=get_token |
| op | operation or type of action |
| format | output format selection |
| from | SMS sender ID (for op=pv) |
| to | destination numbers, @username or #groupcode, may use commas |
| footer | SMS footer (for op=pv) |
| nofooter | remove SMS footer |
| msg | message (+ or %20 for spaces, urlencode for non ascii chars) |
| schedule | schedule message delivery, format: YYYY-MM-DD hhss |
| type | message type (flash or text) |
| unicode | whether message unicode or not (1=unicode, 0=not unicode) |
| queue | queue code |
| src | sender number or ID |
| dst | destination number (single number) |
| dt | send SMS date/time |
| smslog_id | SMS Log ID |
| last | last SMS log ID (this number not included on result) |
| c | number of delivery status that will be retrieved |
| kwd | keyword |
| query | query server for useful information |

Please note that all values should be URL encoded.

Return Codes

Below table lists return codes after unsuccessful call to a webservises operation. Successful operation will return an OK data in the response message.

Please note that by default the response message is a JSON encoded message.

| Error code | Description |
|------------|--|
| ERR 100 | authentication failed |
| ERR 101 | type of action is invalid or unknown |
| ERR 102 | one or more field empty |
| ERR 103 | not enough credit for this operation |
| ERR 104 | webservice token is not available |
| ERR 105 | webservice token not enable for this user |
| ERR 106 | webservice token not allowed from this IP address |
| ERR 200 | send message failed |
| ERR 201 | destination number or message is empty |
| ERR 400 | no delivery status available |
| ERR 401 | no delivery status retrieved and SMS still in queue |
| ERR 402 | no delivery status retrieved and SMS has been processed from queue |
| ERR 501 | no data returned or result is empty |

There might appear new error codes in the future.

You should be aware that new codes might appear in this syntax:

| Error code | Description |
|------------|------------------------------------|
| ERR 1xx | authentication or parameter errors |
| ERR 2xx | specific pv errors |
| ERR 4xx | delivery status errors |
| ERR 5xx | others |

Protocol for API tasks

Send Message

Send message to a single or multiple mobile numbers, @username or #groupcode

| Parameters | Name or description |
|------------|---|
| Operation | <code>pv</code> |
| Mandatory | <code>u h to msg</code> |
| Optional | <code>type unicode from footer nofooter format</code> |
| Returns | return codes |

Parameter `to` can be international formatted mobile number, #groupcode or @username, or a mix of them. Separate by commas for multiple values. Numbers starting without country code will be replaced by default country code in your user preferences account.

Outgoing SMS and delivery status

List outgoing SMS and delivery status.

| Parameters | Name or description |
|------------|---|
| Operation | <code>ds</code> |
| Mandatory | <code>u h</code> |
| Optional | <code>queue src dst dt smslog_id c last format</code> |
| Returns | data or return codes |

Parameter `c` will retrieve as many as `c` value, `last` retrieves data from last SMS log ID.

Inbox

List SMS on user's inbox.

| Parameters | Name or description |
|------------|---|
| Operation | <code>ix</code> |
| Mandatory | <code>u h</code> |
| Optional | <code>queue src dst dt smslog_id c last format</code> |
| Returns | data or return codes |

Parameter `c` will retrieve as many as `c` value, `last` retrieves data from last SMS log ID.

User Credit

Get user's credit information.

| Parameters | Name or description |
|------------|-------------------------------|
| Operation | <code>cr</code> |
| Mandatory | <code>u h</code> |
| Optional | <code>format</code> |
| Returns | user's credit or return codes |

Get Token

Get user's webservices token. This can be used as a login mechanism.

| Parameters | Name or description |
|------------|-----------------------------------|
| Operation | <code>get_token</code> |
| Mandatory | <code>u p</code> |
| Optional | <code>format</code> |
| Returns | webservices token or return codes |

Set Token

Set user's webservices token. This can be used as a change password mechanism.

| Parameters | Name or description |
|------------|---------------------------------------|
| Operation | <code>set_token</code> |
| Mandatory | <code>u h</code> |
| Optional | <code>format</code> |
| Returns | new webservices token or return codes |

Get Contact List

Get contact list by name, mobile or email.

| Parameters | Name or description |
|------------|--|
| Operation | <code>get_contact</code> |
| Mandatory | <code>u h kwd</code> |
| Optional | <code>c format</code> |
| Returns | list of contacts similar or the same as <code>kwd</code> or return codes |

Get Group Contact List

Get group contact list by name or code

| Parameters | Name or description |
|------------|--|
| Operation | <code>get_contact_group</code> |
| Mandatory | <code>u h kwd</code> |
| Optional | <code>c format</code> |
| Returns | list of contact groups similar or the same as <code>kwd</code> or return codes |

Query

Query server for useful information such as user's data, user's credit, last smslog_id for inbox, incoming and outgoing SMS

| Parameters | Name or description |
|------------|----------------------|
| Operation | <code>quer y</code> |
| Mandatory | <code>u h</code> |
| Optional | <code>format</code> |
| Returns | server's information |

Examples

Send SMS

Example webservice URL:

```
“ http://infopi.io/text/index.php?app=ws&u=<username>&h=<token>&op=pv&to=09876
```

Explanation

operation `op` pv (send SMS) was accessed by a user using username `u` and webservices token `h` with destination number `to` 0987654321, message `msg` 'test only' and expected output format is the default format, JSON format.

When successful InfoPi will returns OK status message in JSON format:

```
{ "data": [ { "status": "OK", "error": "0", "smslog_id": "30", "queue": "afb5f34575e30ec4efe4471cf5d1bee4null" }
```

If error occurred Infopi returns one of the return code, also in JSON format.

List of incoming SMS

Example webservice URL:

```
“ http://infopi.io/text/index.php?app=ws&u=<username>&h=<token>&op=in&kwd=scho
```

Explanation:

InfoPi webservices in infopi.io with operation `op` in (incoming SMS) was accessed by a user using username `u` and webservices token `h` with keyword `kwd` school and expected output format is in XML format `format=xml`.

When successful InfoPi will return OK status message in XML format:

```
<response>
```

```
    <data>
```

```
        <item>
```

```
            <id>2</id>
```

```
            <src>+254987654321</src>
```


<dst>1234</dst>

<kwd>school</kwd>

<msg>A</msg>

<dt>2013-05-20 12:40:38</dt>

<status>1</status>

</item>

</data>

</response>

If error occurs InfoPi will return one of the error codes, also in XML format.

List of Contacts on Phonebook

Example webservice URL:

“ http://infopi.io/text/index.php?app=ws&u=<username>&h=<token>&op=get_contact&h

Explanation:

Infopi webservices in infopi.io with operation `op` get_contact was accessed by a user using username `u` and webservices token `h` with keyword `kwd` james and expected output format is in JSON format.

When successful InfoPi will return OK status message in JSON format:

```
{"status":"OK","error":"0","data":[{"pid":"1234","gp_id":"2","p_desc":"James Doe","p_num":"08901230659","email":"","group_name":"Test Group","code":"TESTGROUP"}],"multi":true}
```

If error occurred InfoPi will return one of the return code, also in JSON format.