

API

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

- Access
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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 returns one of the return code, also in JSON format.