

# mod\_xml\_rpc

## About

mod\_xml\_rpc allows you to use the webapi - firing any API from the web browser just as you would from the FS console!

API command documentation can be found in the [mod\\_commands](#) section.

## webapi

To use, you must enable this module within the `conf/autoload_configs/modules.conf.xml` file and restart the switch. You can configure the module (HTTP port, domain, login/password) within the `conf/autoload_configs/xml_rpc.conf.xml` file.

The basic syntax would be:

```
http://<freeswitch-hostname-or-IP>:8080/webapi/<api command>
```

For example:

```
http://192.168.1.1:8080/webapi/help
```

Requires:

- HTTP only, no HTTPS
- port 8080
- Typical HTTP authentication - username, password (default is freeswitch/works)

Generally, the web root is `{prefix}/freeswitch/htdocs`.

Other HTML/JavaScript/etc. files in `htdocs` will get served up as requested.

When using an API command that has more than one word, use a question mark to separate the first and second words, then a space for the rest.

Example:

```
http://192.168.1.1:8080/webapi/sofia?status%20profile%20internal
```

## Returning data to the webpage using Lua and [stream:write](#)

To execute a FS command from a web page and display the result in the webpage use:

```
http://127.0.0.1:8080/api/lua?lua/api.lua
```

## Using webapi with curl

Examples:

### show channels, text output

```
curl -s -S -G -X GET \
  --user login:password \
  --data-urlencode "channels" \
  'http://127.0.0.1:8080/xmlapi/show'
```

### output

```
uuid,direction,created,created_epoch,name,state,cid_name,cid_num,ip_addr,dest,application,application_data,
dialplan,context,read_codec,read_rate,read_bit_rate,write_codec,write_rate,write_bit_rate,secure,hostname,
presence_id,presence_data,accountcode,callstate,callee_name,callee_num,callee_direction,call_uuid,
sent_callee_name,sent_callee_num,initial_cid_name,initial_cid_num,initial_ip_addr,initial_dest,initial_dialplan,
initial_context
5d2ae508-ab6b-11ea-88cb-311ce82e049e,inbound,2020-06-10 18:40:20,1591828820,sofia/internal/1019@192.0.2.10,
CS_EXECUTE,1019,1019,192.0.2.50,55,echo,,XML,default,PCMU,8000,64000,PCMU,8000,64000,,hostname.local,1019@192.
0.2.10,,1019,ACTIVE,,,,,,,,,1019,1019,192.0.2.50,55,XML,default
```

```
1 total.
```

### show channels, xml output

```
curl -s -S -G -X GET \  
  --user login:password \  
  --data-urlencode "channels as xml" \  
  'http://127.0.0.1:8080/xmlapi/show'
```

### output

```
<result row_count="1">  
  <row row_id="1">  
    <uuid>5d2ae508-ab6b-11ea-88cb-311ce82e049e</uuid>  
    <direction>inbound</direction>  
    <created>2020-06-10 18:40:20</created>  
    <created_epoch>1591828820</created_epoch>  
    <name>sofia/internal/1019@192.0.2.10</name>  
    <state>CS_EXECUTE</state>  
    <cid_name>1019</cid_name>  
    <cid_num>1019</cid_num>  
    <ip_addr>192.0.2.50</ip_addr>  
    <dest>55</dest>  
    <application>echo</application>  
    <application_data></application_data>  
    <dialplan>XML</dialplan>  
    <context>default</context>  
    <read_codec>PCMU</read_codec>  
    <read_rate>8000</read_rate>  
    <read_bit_rate>64000</read_bit_rate>  
    <write_codec>PCMU</write_codec>  
    <write_rate>8000</write_rate>  
    <write_bit_rate>64000</write_bit_rate>  
    <secure></secure>  
    <hostname>hostname.local</hostname>  
    <presence_id>1019@192.0.2.10</presence_id>  
    <presence_data></presence_data>  
    <accountcode>1019</accountcode>  
    <callstate>ACTIVE</callstate>  
    <callee_name></callee_name>  
    <callee_num></callee_num>  
    <callee_direction></callee_direction>  
    <call_uuid></call_uuid>  
    <sent_callee_name></sent_callee_name>  
    <sent_callee_num></sent_callee_num>  
    <initial_cid_name>1019</initial_cid_name>  
    <initial_cid_num>1019</initial_cid_num>  
    <initial_ip_addr>192.0.2.50</initial_ip_addr>  
    <initial_dest>55</initial_dest>  
    <initial_dialplan>XML</initial_dialplan>  
    <initial_context>default</initial_context>  
  </row>  
</result>
```

### show channels, json output

```
curl -s -S -G -X GET \  
  --user login:password \  
  --data-urlencode "channels as json" \  
  'http://127.0.0.1:8080/xmlapi/show' | jq
```

## output

```
{
  "row_count": 1,
  "rows": [
    {
      "uuid": "5d2ae508-ab6b-11ea-88cb-311ce82e049e",
      "direction": "inbound",
      "created": "2020-06-10 18:40:20",
      "created_epoch": "1591828820",
      "name": "sofia/internal/1019@192.0.2.10",
      "state": "CS_EXECUTE",
      "cid_name": "1019",
      "cid_num": "1019",
      "ip_addr": "192.0.2.50",
      "dest": "55",
      "application": "echo",
      "application_data": "",
      "dialplan": "XML",
      "context": "default",
      "read_codec": "PCMU",
      "read_rate": "8000",
      "read_bit_rate": "64000",
      "write_codec": "PCMU",
      "write_rate": "8000",
      "write_bit_rate": "64000",
      "secure": "",
      "hostname": "hostname.local",
      "presence_id": "1019@192.0.2.10",
      "presence_data": "",
      "accountcode": "1019",
      "callstate": "ACTIVE",
      "callee_name": "",
      "callee_num": "",
      "callee_direction": "",
      "call_uuid": "",
      "sent_callee_name": "",
      "sent_callee_num": "",
      "initial_cid_name": "1019",
      "initial_cid_num": "1019",
      "initial_ip_addr": "192.0.2.50",
      "initial_dest": "55",
      "initial_dialplan": "XML",
      "initial_context": "default"
    }
  ]
}
```

## uuid\_setvar

```
curl -s -S -G -X GET \
  --user login:password \
  --data-urlencode "<uuid> record_sample_rate 8000" \
  'http://127.0.0.1:8080/xmlapi/uuid_setvar'
```

## start stream rtmp

```
curl -s -S -G -X GET \
  --user login:password \
  --data-urlencode "<uuid> start rtmp://domain.local/stream:teststream" \
  'http://127.0.0.1:8080/xmlapi/uuid_record'
```

### use uuid\_buglist

```
curl -s -S -G -X GET \  
  --user login:password \  
  --data-urlencode "<uuid>" \  
  'http://127.0.0.1:8080/xmlapi/uuid_buglist'
```

### output

```
<media-bugs>  
  <media-bug>  
    <function>session_record</function>  
    <target>rtmp://domain.local/stream:teststream</target>  
    <thread-locked>0</thread-locked>  
  </media-bug>  
</media-bugs>
```

### Initiate call with silence in channel

```
curl -s -S -G -X GET \  
  --user login:password \  
  --data-urlencode "{origination_caller_id_number={number from}}sofia/{profile}/sip:{user}@{domain}"  
silence XML play" \  
  'http://127.0.0.1:8080/xmlapi/originate'
```

### play.xml

```
<include>  
  <context name="play">  
    <extension name="play-silence_stream" continue="true">  
      <condition field="destination_number" expression="^silence$">  
        <action application="answer"/>  
        <action application="endless_playback" data="silence_stream://-1"/>  
      </condition>  
    </extension>  
  </context>  
</include>
```

### Start stream media in the channel

```
curl -s -S -G -X GET \  
  --user login:password \  
  --data-urlencode "{uuid} {/path/to/file/file} both" \  
  'http://127.0.0.1:8080/xmlapi/uuid_broadcast'
```

### Pause/resume stream in the channel

```
curl -s -S -G -X GET \  
  --user login:password \  
  --data-urlencode "{uuid} pause" \  
  'http://127.0.0.1:8080/xmlapi/uuid_fileman'
```

### Stop stream in the channel

```
curl -s -S -G -X GET \  
  --user login:password \  
  --data-urlencode "{uuid} stop" \  
  'http://127.0.0.1:8080/xmlapi/uuid_fileman'
```

### Stop call

```
curl -s -S -G -X GET \  
  --user login:password \  
  --data-urlencode "{uuid}" \  
  'http://127.0.0.1:8080/xmlapi/uuid_kill'
```

## See also

- [Examples of calling mod\\_xml\\_rpc from various languages](#)
- <http://wiki.freeswitch.org/wiki/Webapi>
- [Freeswitch Portal](#)
- [FreeSWITCH XML-RPC](#)