

Configuration RESTful Service

General URL structure

Common prefix:

```
https://host.example.com/sipxconfig/rest
```

Testing the services

Here is an example of how to print the content of a phonebook named sales to stdout in CSV format

```
curl --insecure --basic -u superadmin [https://]{host}/sipxconfig/rest/phonebook/sales
```

To test the call placing service with curl use:

```
curl --insecure -X PUT [https://]{user}:{password}@{host}/sipxconfig/rest/call/{number}
```

HTTP PUT to service URL will cause sipXconfig to place call to {number}.

The call is placed using authorized user credentials. It works in the same way as click-to-call available on the user portal. User's phone rings first and, once someone answers, it places the call to {number}.

To test the call forwarding service with curl use:

```
curl --insecure -X PUT [https://]{user}:{password}@{host}/sipxconfig/rest/my/forward/ --data-binary @file.xml
```

HTTP PUT to service URL will cause sipXconfig to place a callforward to a number with specs in the xml file.

A xml file should look like:

```
<call-sequence>
<rings>
<ring>
<expiration>20</expiration>
<type>If no response</type>
<enabled>true</enabled>
<number>100</number>
</ring>
</rings>
<expiration>23</expiration>
</call-sequence>
```

HTTP GET to service URL will return the saved callforwarding scheme. In addition, a new field is added: <withVoicemail>

The value of this field is true if the user voicemail permission is set to true, false if voicemail permission is set to false

```
<call-sequence>
<rings>
<ring>
<expiration>20</expiration>
<type>If no response</type>
<enabled>true</enabled>
<number>100</number>
</ring>
</rings>
<expiration>23</expiration>
<withVoicemail>true</withVoicemail>
</call-sequence>
```

Admin services

Accessible for users with admin privileges:

| URI | Methods | Formats |
|------------|---------|--|
| /phonebook | GET | Returns a list with all the phonebooks. XML: {{<?xml version="1.0" encoding="UTF-8"?><phonebooks><phonebook name="phonebook1"/><phonebook name="phonebook2"/></phonebooks>}} |

| | | |
|-------------------------------------|----------------------|--|
| /phonebook/{name} | GET | Returns a list with {name} phonebook entries. CSV "First name", "Last name", "Number" XML |
| /phone | POST | Creates a phone. XML |
| /auto-attendant | GET | Retrieves the list of auto-attendants configured. XML , JSON |
| /auto-attendant/specialmode | GET PUT DELETE | GET retrieves the use the special auto attendant status(true/false). PUT will set it to true, DELETE will set it to false. XML , JSON |
| /auto-attendant/{attendant}/special | PUT DELETE | PUT - Use the attendant as special attendant; DELETE - TBD |
| /activecdrs/{user} | GET | GET - Retrieve active calls for given user, sample output <pre> <cdrs> <cdr> <from>2012</from> <from-aor>< sip:2012@test.com ></from-aor> <to>32020</to> <to-aor>< sip:32020@test.com ></to-aor> <direction>INCOMING</direction> <recipient>32020</recipient> <internal>false</internal> <type>Unknown</type> <start-time>1361226016000</start-time> <duration>28926</duration> </cdr> </cdrs> </pre> |

User services

Accessible for all users:

| URI | Methods | Formats |
|---|----------------------|---|
| /my/call/{to}/call/{to} | PUT | Initiates the call from the user to {to} address. PUT method requires non empty body which is ignored. Supported as GET for clients that do not handle PUT. |
| /my/voicemail/pin/{pin} | PUT | changes user voicemail PIN |
| /my/forward | GET PUT | retrieves (GET) or changes (PUT) user call forwarding XML , JSON |
| /my/feed/voicemail/{folder} | GET | voicemail folder presented as RSS feed |
| /my/phonebook | GET | JSON , XML phonebook representation |
| /my/phonebook/entry/{entryId} | GET PUT DELETE | retrieves (GET), changes (PUT) and deletes (DELETE) entries in private phonebook XML JSON |
| /my/contact-information | GET PUT | retrieve and change contact info for the user XML , JSON |
| /my/search/phonebook?query={search-term} | GET | searching user phonebook XML |
| /my/mailbox/{user}/preferences/activegreeting /my/mailbox/{user}/preferences/activegreeting/{greeting} | GET PUT | retrieves and sets active greeting setting for a specific user GET: XML , plain text (one of none, standard, outofoffice, extendedabsence) PUT: plain text (one of none, standard, outofoffice, extendedabsence); an error 500 will be returned if the greeting is not one of the 4 strings |
| /my/conferences | GET | returns a list with all conferences for a specific user (enabled, name, description, extension) XML , JSON |
| /my/activecdrs | GET | returns a list with all active calls (ongoing) for a specific user in XML or JSON format |
| /my/logindetails | GET | returns username and im ID for a specific user in XML or JSON format. To be used when alias is provided in authentication details |

Sample php Click to Call Code:

```
<?php
    $to="101";           //Number to dial
    $from="5001";       //userid in sipx
    $pass="1234";       //sipx pin (NOT SIP password)

    //replace sipx.gcgov.local with your sipx server
    $url = "http://sipx.gcgov.local:6667/callcontroller/".$from."/".$to."?isForwardingAllowed=true";
    $ch = curl_init();
    curl_setopt($ch, CURLOPT_URL, $url);
    curl_setopt($ch, CURLOPT_HTTPAUTH, CURLAUTH_DIGEST);
    curl_setopt($ch, CURLOPT_POST, 1);
    curl_setopt($ch, CURLOPT_USERPWD, $from.":".$pass);
    $result = curl_exec($ch);
    curl_close($ch);
?>
```

Future Services

User ('my') services (those are services needed to implement functionality available through current user portal)

- account - pin, voicemail e-mail,
- voicemail - list, remove, delete, marked as saved
- call list
- speed dial
- personal phonebook (initially read only - configured by administrator, later also should allow adding/syncing from other phonebook sources)
- device/phones - monitoring registered devices
- conference - monitoring, muting, isolating, inviting, initiating
- personal attendant

Admin services:

- users adding/removing/listing
- phones adding/removing/configuring
- lines (users-phones) associations - adding/removing/configuring

New developer services:

- New or rewrite existing services implemented on TestPage.java
- Phonebook for end user (would require changing acegi security configuration)

If you are thinking about implementing an external application interacting with sipXecs and you need a new service ask on the sipx-dev list.

Adding new Services

See: [Adding New Services in sipXconfig](#)