



SPA 5XX Series XML Scripts for Asterisk

This document provides information on how to configure and use XML Scripts for SPA 5XX Series, tested under 50X and 525G2 to monitor and handle several topics with Asterisk. This document tries to show all the power you have got with XML scripts on SPA 5XX Phones

SPA 5XX Series integrates with Asterisk using XML Directives, to show, interact or consult several information on Asterisk

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Extensions Mobility

This xml and php script works on SPA 50X and 525G Phones.

These examples show how to have your own numerical SIP Extension on Asterisk on any phone. You proceed with a login and password step, and later your extension is automatically configured.

Requirements:

- Asterisk 1.4.x or 1.6.x
- SPA 5XX Phone
- Webserver (Apache 2 or similar with PHP Support)
- PHP 5 (5.2.6-1 and 5.1.49 tested)

Prior to that you have to configure all sip extensions in your Asterisk Box.

For example you have to create extensions from 100 to 102 in your sip.conf

```
....  
[100]  
username=100  
secret=1234  
type=friend  
host=dynamic  
nat=no  
canreinvite=no  
  
[101]  
username=100  
secret=1234  
type=friend  
host=dynamic  
nat=no  
canreinvite=no  
  
[102]  
username=100  
secret=1234  
type=friend  
host=dynamic  
nat=no  
canreinvite=no  
...
```

Later check that you reload (asterisk -rx "sip reload" or sip reload on CLI to reload configuration and later check this changes have been applied.

```

debian:/etc/asterisk# asterisk -r
Asterisk 1.6.0.25, Copyright (C) 1999 - 2009 Digium, Inc. and others.
Created by Mark Spencer <markster@digium.com>
Asterisk comes with ABSOLUTELY NO WARRANTY; type 'core show warranty' for details.
This is free software, with components licensed under the GNU General Public
License version 2 and other licenses; you are welcome to redistribute it under
certain conditions. Type 'core show license' for details.
=====
Connected to Asterisk 1.6.0.25 currently running on debian (pid = 2885)
debian*CLI> sip show peers
Name/username          Host                Dyn Nat ACL Port      Status
102/102                (Unspecified)      D         5060     Unmonitored
101/101                (Unspecified)      D         5060     Unmonitored
100/100                (Unspecified)      D         5060     Unmonitored
3 sip peers [Monitored: 0 online, 0 offline Unmonitored: 3 online, 0 offline]
debian*CLI> exit
debian:/etc/asterisk# _

```

Figure 1 Check your sip extensions on Asterisk

Also you need to have a Web server where locate php and xml scripts . Theses scripts must be located on same server where Asterisk is running in order to work properly.

So check you have on your root main webserver directory all files mentioned

These files must be:

```

debian:/var/www/mobility# ls -al

total 44

drwxr-xr-x 3 root root 4096 ene 25 15:10 .
drwxr-xr-x 4 root root 4096 ene 25 15:10 ..
drwxr-xr-x 2 root root 4096 ene 25 15:10 conf
-rw-r--r-- 1 root root 12304 ene 12 16:40 configuracion.png
-rw-r--r-- 1 root root 503 ene 12 15:00 mobility.xml
-rw-r--r-- 1 root root 1010 ene 12 14:59 resync.php
-rw-r--r-- 1 root root 8014 ene 12 14:33 template.xml

```

In example provided we have 00270D581FBA.xml file for this example phone. Application will create this file first time its executed. So you have to configure this directory with correct permissions in order to allow resync.php file to create this files.

Inside conf directory all provisioning files according to phone mac address you have on your network will be created.

This field must be located on label under phone, or in web interface.

You could do with `chmod a+rx ./conf` and `chmod a+x resync.php`

Also do not forget to edit mobility.xml in order to put your server ip address in order to work properly.

```

<CiscoIPPhoneInput>
  <Title>Mobility Login</Title>
  <Prompt>Introduzca su extensión:</Prompt>
  <URL>http://server_address/spa/resync.php?mac=$MA</URL>
<InputItem>
  <DisplayName>Usuario: </DisplayName>
  <QueryStringParam>user</QueryStringParam>
  <DefaultValue />
  <InputFlags>N</InputFlags>
</InputItem>
<InputItem>
  <DisplayName>Contraseña:</DisplayName>
  <QueryStringParam>passwd</QueryStringParam>
  <DefaultValue />
  <InputFlags></InputFlags>
</InputItem>
</CiscoIPPhoneInput>

```

Once you have double checked all above, we are going to configure SPA 5XX Phone in order to call XML script.

You have to configure one of Line Keys to call xml file mobility.xml

Line Key 2	
Extension:	Disabled ▼ Short Name: \$USER
Share Call Appearance:	private ▼
Extended Function:	fnc=xml;URL=http://192.168.0.8/spa/mobility.xml

Once you have done, phone will reset and you will have to press this line key in order to execute mobility extension script.



Figure 2 SPA 509 calling mobility XML Script

Once green line key is pressed you will be able to enter your extension Number and Password in order to configure device.

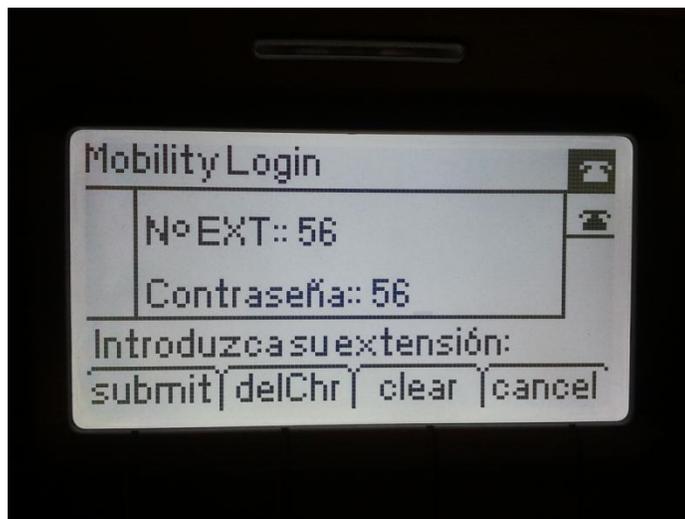


Figure 3 Mobility script running

Once data is entered and submit softkey pressend, your phone will be provisioned with data entered. Please check this data is same as in your Asterisk box, as if you enter incorrectly you will not be able to login (SIP REGISTER) your phone properly.

Your phone now have extension entered configured in your device.



Figure 4 SPA 509 provisioned with new extension



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