

</MenuItem>q
<:--Additional'Henu-Items-may-be-added--->q
<:--Additional'Spitzey-Items-may-be-added--->q
<//AastralPPnoneTextHenu>q

< <Selection></Selection>9 </MenuIteman
<:-Additional-Nemu-Items-may-be-added--->%
<:-Additional-Spitkey-Items-may-be-added--->% </RastralPPhoneTextMenu>¶

Product Application Info Aastra XML Scripts for NAFLASH Version 2.2.1

Doc. No.: PA-001009-01-03

<Title>Wend:Title<ffitle>#
<Menultem.base.="http://base/">#
<Prompt>First:Choice</Prompt>#
<URL>http://sorepage.xmi</URL>#
<Selection></Selection>@ </MenuItem>q <:-Additional-Henu-Items-may-be-added--->q <:-Additional-Softwey-Items-may-be-added--->q </RastralPPhoneTextMenu>¶

< </RastralPPhoneTextMenu>%



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1 Introduction

1.1 Purpose

This document describes the installation and the use of the Aastra XML Scripts for PBX in a Flash (PIAF) provided by Aastra Telecom as open source code.

1.2 Feedback/Bug reporting/Support

The Aastra XML scripts for PBX in a Flash are not directly supported by Aastra. Standard Aastra support will not answer your questions if you have issues with the scripts.

The only place you will get some support is the PBX in a Flash forum in the "Add-On Install Instructions" topic at

http://pbxinaflash.com/forum/forumdisplay.php?f=10

1.3 Revision History

1.3.1 PA-001009-01-03

- Updated with aastra-ipphone firmware package version 2.5.0
- Enhancements
 - Visual voice mail.
 - User configurable auto-answer mode
 - User configurable auto-login mode
 - Greetings record from the application
 - LED indication for messages (2.x phones only)
 - Support for monitoring other mailboxes
 - Now available for 6730i, 6731i, 6751i, 6753i and 9143i.
 - Localization
 - Support for Spanish and Portuguese
 - Multiple languages addition
 - Date and time format is now automatically detected from aastra.cfg
 - o Call Forward
 - New toggle mode
 - Last entry cached
 - aastra.cfg generation
 - Auto detection of Network interfaces and VLAN support
 - Multiple concurrent languages
 - User can select language
 - User can select timezone
 - Self-configuration,



- In 'extensions' mode, a configurable 'admin' password can be used instead of the user voice mail password.
- No more reboot needed for login/logout in 'extensions' mode for phones running 2.5.0 firmware
- New tool 'apply_prf' to reapply the profile on all configured phones
- Configurable custom profiles for selected users.

ACD Agent/Queues

Automatic refresh of the queue list every 10 seconds (2.x phones only)

Day/Night control

- Configuration control to check if the index configured in asterisk.conf is configured via freePBX
- If more than one day/night configured, the application can now toggle day/night for other indexes but day/night status is propagated only for the configured index.

CSV based directory

Location of the csv file is now configurable in asterisk.conf

Find-Follow me

- For softkey phones, complete configuration control (ring times, list of phones and call confirmation)
- For non softkey phones only activate/deactivate is available
- LED management to indicate if feature is activated

Directory

- New Intercom softkey
- New and improved Horoscope application using a daily RSS feed.

Bug fixes

- Parking daemon was blasting SIP Notify every minute
- Spec file post uninstall script
- Visual Parking, user can now pickup the park call going off-hook
- In 'deviceanduser' mode, for a fixed device with a default user, the logout key was available
- Special characters in SIP password now supported.
- Caller ID can be more than 2 words
- Custom menu does not allow to move up the second element
- Logout no longer allowed in 'deviceanduser' mode if device is 'fixed'.

1.3.2 PA-001009-01-02

- Updated with aastra-ipphone firmware package version 2.4.1
- Enhancements
 - Support for new Aastra 6730i and 6731i SIP Phones



- Presence application (initially provided by Ethan Schroeder at Schmooze Communications)
- Meet-me applications now displays conference room name
- o Internal lookup on outgoing calls (configurable) with presence information
- Directory, Parking and Visual Voice mail application now available for 9112i and 9133i
- ACD agent login/logout (initially provided by Ethan Schroeder at Schmooze Communications)
- ACD queue statistics
- LED of the Parking application now slow flashes if at least one call is parked.
- Environment variables including phpagi credentials are now directly taken from FreePBX configuration.
- Enhanced localization with date/time format and all labels outside of the code
- Simplified initial setup with most of the configuration parameters available from the setup-aastra-xml command.
- DND state is now reflected on BLF monitoring (FreePBX 2.5 and DEVSTATE module needed).
- Some parsing protection against external hacking.

Bug fixes

- Race condition in the sync mechanism corrupting user context files
- o Auto-config fails on some extensions with password using symbol characters
- Auto-config fails on some extensions with extensions starting with 0
- SIP Notify sent to more than 50 extensions
- Display parking lot now works if Find-me Follow-me is enabled or call from a ring group (thanks to Ethan Schroeder at Schmooze Communications)
- Visual voice mail crashes if caller ID has symbol characters
- In device and user mode, speed dial is now common for users connected on multiple devices
- Visual voice mail authentication in device and user mode
- aastra-xml-scripts version 2.2.0

1.3.3 PA-001009-01-01

- Dependency with Aastra firmware 2.3.1
- Bug fixes
 - Visual voice mail, correct r/w rights on the user INBOX if Visual voice mail used before the inbox is created.
- aastra-xml-scripts version 2.1.1

1.3.4 PA-001009-01-00

- Initial documentation for PBX in a Flash
- Changes from previous version (not directly available for PBX in a Flash)



- Updated for the Aastra 9143i, 9480i and 9480iCT phones
- Support for 'deviceanduser' FreePBX mode on top of the 'extension' mode, but only for the phones supporting the 2.x firmware.
- Capability to filter the extensions displayed in the Directory application.
- New parameter \$\$KEYPRESSED\$\$ supported in the dynamic configuration file
- The key attached to DND, CFWD and Day/Night is now automatically detected by reading the phone configuration file.
- The index for the day/night application is part of the configuration.
- The list of extensions having the day/night application and notification is now configurable.
- On the visual voice mail application, you now have the capability to forward a message to a list of users.
- Updated Stock quotes application (no more Web scraping) with 'Watch list' capabilities.
- New media applications
 - RSS feed for FoxNews.com
 - Biorhythms
 - Currency converter
- Lots of bug fixes
- aastra-xml-scripts version 2.1.0



2 Installation

2.1 Compatibility

2.1.1 PBX in a Flash server

The aastra-xml-scripts have been developed and tested for PBX in a Flash 1.3 and 1.4 (32 bit OS) with FreePBX 2.4.x and 2.5.

2.1.2 Aastra SIP Phones

The aastra-xml-scripts have been developed and tested for the following firmware version of the SIP phones:

- 1.4.3.23 Aastra 9112i/9133i/480i and 480iCT
- 2.5.0.82 for Aastra 6730i and 6731i
- 2.5.0.82 for Aastra 6751i/6753i/6755i/6757i and 6757iCT
- 2.5.0.82 for Aastra 9143i, 9480i and 9480iCT



Note: Since firmware 2.3.0 what used to be 5xi models are now called 675xi. In the rest of the document a 5xi will be noted either '5xi' or '675xi'.

As the aastra-ipphone version 2.5.0 is automatically installed with the aastra-xml-scripts package, all the phones connected to the server are updated to the right firmware version if you use the self-configuration mechanism.

2.2 Package installation

On your PBX in a Flash console, logged as root type

- 1. cd/tmp
- 2. wget http://pbxinaflash.net/source/aastra-xml-2.2.1/install-aastra-xml.x.gz
- 3. gunzip install-aastra-xml.x.gz
- chmod +x install-aastra-xml.x
- 5. ./install-aastra-xml.x

Your screen should look like this if this is a new installation

```
coot@pbx:/tmp $ wget http://pbxinaflash.net/source/aastra-xml-2.2.1/install-aastra-xml.x.gz
-16:17:29-- http://pbxinaflash.net/source/aastra-xml-2.2.1/install-aastra-xml.x.gz
Resolving pbxinaflash.net... 216.239.128.70
Connecting to pbxinaflash.net | 216.239.128.70 | :80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1259 (1.2K) [application/x-gzip]
Saving to: `install-aastra-xml.x.gz
100%[=========] 1,259
                                                         --.-K/s
                                                                   in 0s
16:17:29 (51.5 MB/s) - `install-aastra-xml.x.gz' saved [1259/1259]
coot@pbx:/tmp $ gunzip install-aastra-xml.x.gz
root@pbx:/tmp $ chmod +x install-aastra-xml.x
coot@pbx:/tmp $ ./install-aastra-xml.x
Installation of Aastra XML scripts version 2.2.1 (32 bits)
Checking Operating System...OK
Checking package php-gd ...Installation needed
Installing package...Done
```



```
Checking package libtool-ltdl-devel ... Installation needed
Installing package...Done
Checking package mDNSResponder-util 108.5...Installation needed
Downloading package...Done
Installing package...Done
Checking package mpg123 ...Installation needed
Downloading package...Done
Installing package...Done
Checking package aastra-ipphone 2.5.0...Installation needed
Downloading package...Done
Installing package...Done
Checking package aastra-xml-scripts 2.2.1...Installation needed
Downloading package...Done
Installing package...Done
Modifying firewall rules for mDNSResponder...Done
Aastra XML scripts 2.2.1 successfully installed.
Please run setup-aastra-xml to generate aastra.cfg.
Please reboot your server to finalize the installation.
```

or like this if you upgrade from 2.1.1 or 2.2.0

```
root@pbx:/tmp $ wget http://pbxinaflash.net/source/aastra-xml-2.2.1/install-aastra-xml.x.gz
--16:17:29-- http://pbxinaflash.net/source/aastra-xml-2.2.1/install-aastra-xml.x.gz
Resolving pbxinaflash.net... 216.239.128.70
Connecting to pbxinaflash.net|216.239.128.70|:80... connected.
HTTP request sent, awaiting response... 200 OK Length: 1259 (1.2K) [application/x-gzip]
Saving to: `install-aastra-xml.x.gz'
100%[========] 1,259
                                                                  -- -K/s in 0s
16:17:29 (51.5 MB/s) - `install-aastra-xml.x.gz' saved [1259/1259]
root@pbx:/tmp $ gunzip install-aastra-xml.x.gz
root@pbx:/tmp $ chmod +x install-aastra-xml.x
 coot@pbx:/tmp $ ./install-aastra-xml.x
Installation of Aastra XML scripts version 2.2.1 (32 bits)
Checking Operating System...OK
Checking package php-gd ...Nothing to do
Checking package libtool-ltdl-devel ...Nothing to do
Checking package mDNSResponder-util 108.5...Nothing to do
Checking package mpg123 ...Nothing to do
Checking package aastra-ipphone 2.5.0...Installation needed
Downloading package...Done
Installing package...Done
Checking package aastra-xml-scripts 2.2.1...Installation needed
Downloading package...Done
Installing package...Done
Modifying firewall rules for mDNSResponder...Done
Aastra XML scripts 2.1.1 successfully installed.
Please run setup-aastra-xml to generate aastra.cfg.
Please reboot your server to finalize the installation.
```

Package dependencies

The following package will also be installed if they are not already present

- mDNSResponder-util
- aastra-ipphone >= 2.5.0
- mpg123
- php-gd
- libtool-ltdl-devel



Files installed or modified

- php XML scripts at /var/www/html/aastra with user asterisk r/w rights
- cache directory created at /var/cache/aastra with user asterisk r/w rights
- setup-aastra-xml installed at /usr/local/sbin as an executable
- demo directory for the MP3 Player application created at /var/cache/MP3 with user asterisk r/w rights
- /etc/asterisk/sip_notify.conf is modified to support the check-sync and aastra-xml event types
- /var/lib/asterisk/agi-bin/user_login_out.agi is replaced and the previous version of the file is renamed
- /var/www/html/admin/modules/core/agi-bin/user_login_out.agi is replaced and the previous version of the file is renamed
- /var/lib/asterisk/agi-bin/record-temporary-message.php is installed
- /etc/asterisk/extensions-away-status.conf is installed
- /etc/asterisk/extensions_custom.conf is modified to add the extensions-away context
- Custom sound files are installed at /var/lib/asterisk/sounds/custom
- /etc/rc.d/rc.local is modified to add the launch of the aastra XML script daemons.
- firewall rules are checked and modified if port 5353 (mDNS) is not open.

Post installation

- · Asterisk is reloaded
- mDNSresponder service is (re)started

A server reboot is needed after the installation of the scripts.

2.3 Before you connect your first phone

2.3.1 Create aastra.cfg

After the package installation, it is needed to create the right aastra.cfg file in order to launch the self-configuration process.

This is done by typing the following command **setup-aastra-xml** on the console logged as root.



```
[1] Multi-Language Support
[q] Quit
Install additional languages?: [0] 1
Phone Type Selection
Are you using Classic IP Phones 480i/480iCT/9112i/9133i?
Note that on those phones, the language options are limited.
[0] No, I'm solely using 9xxxi and 67xxi (former 5xi) phones.
[1] Yes, I'm also using Classic IP Phones.
[q] Quit
Install additional languages?: [0] 0
Language Selection
English is available by default. Select up to 4 additional languages to install.
You will be able to choose the language during the login process on the phone.
Separate by space.
Example: 3 1 4 5 --> Will install German, French, Italian and Spanish.
1: French (Europe)
2: French (Canada)
3: German
4: Italian
5: Spanish (Europe)
6: Spanish (Mexico)
7: Portuguese (Europe)
8: Portuguese (Brazil)
q: Quit
Select additional languages to install: 1 3
Your selection:
1: French (Europe)
2: German
[y]: Yes, proceed
[n]: No, select again
Enter y or n: [y] y
Default Language
===========
Select default language.
[0] English
[1] French (Europe)
[2] German
[q] Quit
Select default language: [0] 0
Input Language
==========
Select input language (for entering text via phone keypad).
```



```
[0] English
[1] French
[2] German
[3] Italian
[4] Spanish
[5] Portuguese
[q] Quit
Select input language: [0] 0
User language selection
______
Do you want the user to select the language during the login process?
[y] Yes
[n] No
[q] Quit
Enter y or n: [n] y
Tone Set
=======
Select the country tone set to use.
[0] US/Canada
[1] Europe (generic tones)
[2] UK
[3] France
[4] Germany
[5] Italy
[6] Mexico
[7] Brazil
[8] Australia
[q] Quit
Select Tone Set: [0] 0
Default phone Timezone
Select the default timezone for the phones. Page 1/4
[ 0] US-Eastern
                       [16] MX-Cancun
                                               [32] AU-Lord howe
                       [17] MX-Merida
[ 1] US-Central
                                               [33] AU-Tasmania
                       [18] MX-Monterrey
                                               [34] AU-Melbourne
  2] US-Mountain
                                              [35] AU-Sydney
 3] US-Pacific
                      [19] MX-Mazatlan
                       [20] MX-Chihuahua
[21] MX-Hermosillo
[22] MX-Tijuana
                                              [36] AU-Broken hill
 4] US-Alaska
                                              [37] AU-Brisbane
[38] AU-Lindeman
  5] US-Aleutian
  6] US-Hawaii
  7] CA-Newfoundland [23] AD-Andorra
                                              [39] AU-Adelaide
                       [24] AE-Dubai
[25] AG-Antigua
                                              [40] AU-Darwin
[41] AU-Perth
 8] CA-Atlantic
  9] CA-Eastern
[10] CA-Saskatchewan [26] AI-Anguilla
                                              [42] AW-Aruba
[11] CA-Central
                      [27] AL-Tirane
[28] AN-Curacao
                                              [43] AZ-Baku
[12] CA-Mountain
                                               [44] BA-Sarajevo
[13] CA-Pacific
                       [29] AR-Buenos aires [45] BB-Barbados
[14] CA-Yukon
                       [30] AS-Pago pago
                                               [46] BE-Brussels
                                               [47] BG-Sofia
[n] Next Page
[15] MX-Mexico city [31] AT-Vienna
 [q] Quit
Select Timezone: [0] 1
User Timezone selection
```



```
Do you want the user to select the timezone during the login process?
[y] Yes
[n] No
[q] Quit
Enter y or n: [n] y
Time format
Select the time format to be displayed on the phone.
[0] 12 hours (AM/PM)
[1] 24 hours
[q] Quit
Select Time format: [0]
Date format
========
Select the Date format to be displayed on the phone.
[0] WWW MMM DD (WWW is the day of the week)
[1] DD-MMM-YY
[2] YYYY-MM-DD
[3] DD/MM/YYYY
[4] DD/MM/YY
[5] DD-MM-YY
[6] MM/DD/YY
[7] MMM DD
[8] DD MMM YYYY
[9] WWW DD MMM
[10] DD MMM
[11] DD.MM.YYYY
[q] Quit
Select Date format: [0]
Created /tftpboot/aastra.cfg.
   - using 192.168.0.134 for the proxy/registrar IP address,
   - adding extra language(s):
      - French (Europe)
      - German
   - using English as input language,
   - using English as default language,
   - using US tone set,
   - using US-Central (CST) as default phone timezone,
   - using 12h (AM/PM) as time format,
   - using (WWW MMM DD) as date format.
If the IP address of your Asterisk system changes, or if you want
to change localization settings, run this script again and reboot.
Reboot your Aastra phones by disconnecting the power to the phone.root@pbx:~ $
```

The script asks you for multiple parameters:

- Network interface is automatically detected and user is prompted only if a conflict is detected.
- 2. Select extra language(s) to install on your phones
- 3. Select the default language if extra language(s) has been installed
- 4. Select if user will select the language during the login process
- Select a localized tone set



- 6. Select a default Time zone for the phones
- Select if user will select the timezone during the login process
- 8. Select a time format for the phones
- 9. Select a date format for the phones

The setup-aastra-xml script generates a generic aastra.cfg file located at the TFTP root directory (/tftpboot) but you can customize it as the script will also add the content of /tftpboot/aastra_custom.cfg at the end of the generated aastra.cfg.

The aastra.cfg will use your server IP address instead of 192.168.0.134 in this example.

```
# Aastra default config file for use with XML scripts
# Generated using setup-aastra-xml
# Copyright (C) 2009 Aastra Telecom
# Setup DHCP mode
dhcp: 1
# Setup TFTP server address
tftp server: 192.168.0.134
# Unlock keys for 6730i, 6731i and 6753i
prgkey1 locked: 0
prgkey2 locked: 0
prgkey5 locked: 0
prgkey6 locked: 0
# SIP Proxy/Registrar
dynamic sip: 1
sip line1 user name: XXNAXX
sip line1 proxy ip: 192.168.0.134
sip line1 registrar ip: 0.0.0.0
# Time server
time server disabled: 0
time server1: pool.ntp.org
time server2: 192.168.0.134
# Time Zone
time zone name: US-Central
time zone code: CST
# Date and time format
time format: 0
date format: 0
# Localization
tone set: US
language 1: lang_fr.txt
language 2: lang_de.txt
language 3:
language 4:
language: 0
input language: English
web language: 0
# Localization XML Scripts
ask_language: 1
ask_tz: 1
```



```
# Digit timeout
sip digit timeout: 6
# Allow XML push
xml application post list: 192.168.0.134
xml get timeout: 30
# Startup URI
action uri startup: http://192.168.0.134/aastra/startup/init.php
# BLF customization
sip accept out of order requests: 1
sip blf subscription period: 600
# Force one key
softkey1 type: xml
softkeyl label: Startup
softkey1 value: http://192.168.0.134/aastra/startup/init.php
prgkey1 type: xml
prgkey1 value: http://192.168.0.134/aastra/startup/init.php
```

Figure 1: Generated aastra.cfg

The setup-aastra-xml command must be performed every time the server IP address changes.



Note: Do not use the 'setup-aastra' provided by PBX in a Flash as it would not create the right aastra.cfg file. Later on, the setup-aastra script will be replaced by setup-aastra-xml in the PBX in a Flash image.

2.3.2 Check FreePBX/Asterisk configuration

2.3.2.1 FreePBX modules

In order to use all the Asterisk XML applications, the following modules must be enabled and configured for FreePBX

- Call Forward
- Conferences
- DND
- Day Night Mode
- · Paging and Intercom
- Parking Lot
- Queues
- Find-me Follow-me

This can be done using the 'module admin' menu of FreePBX.

2.3.2.2 AMPEXTENSIONS

Also you must decide which FreePBX mode you will be using, two modes are available:

- 'extensions' where an extension is attached to one single device (phone)
- 'deviceanduser' where devices (phones) and users are managed separately

See chapter 2.3.2.2 for more details on the 2 modes. The XML scripts support the 2 modes.





Note: The 'deviceanduser' mode is only supported by the Aastra SIP phones supporting the 2.x firmware; therefore it is not supported by the 9112i, 9133i, 480i and 480iCT.

This configuration parameter is 'AMPEXTENSIONS' described in '/etc/amportal.conf'

```
# AMPEXTENSIONS: the type of view for extensions admin
# If set to 'deviceanduser' Devices and Users will be administered seperately,
and Users will be able to "login" to devices.
# If set to 'extensions' Devices and Users will be administered in a single
screen.
AMPEXTENSIONS=extensions
```



Note: If you change the value of this parameter, you will need to restart asterisk and freepbx ('amportal restart' command). It is recommended to do this change only if you do not have any device or extension configured.

2.3.2.3 <u>USEDEVSTATE</u>

Another FreePBX parameter used by the XML scripts is USEDEVSTATE as described in '/etc/amportal.conf'

```
# USEDEVSTATE = true|false # DEFAULT VALUE false
# If this is set, it assumes that you are running Asterisk 1.4 or higher and want
to take advantage of the
# func_devstate.c backport available from Asterisk 1.6 which allows custom hints
to be created to support
# BLF for server side feature codes such as daynight, followme, etc.
#
USEDEVSTATE=true
```

This parameter has been introduced with FreePBX 2.5 and will work only if your Asterisk is compiled with the DEVSTATE module which is available in Asterisk 1.6 as well as in 1.4. Make sure that the DEVSTATE module is part of your Asterisk engine.



Note: This parameter is not mandatory for the XML scripts, the scripts will adapt to the configuration.

You can check if the module is available by typing

core show function DEVSTATE

```
-= Info about function 'DEVSTATE' =-

[Syntax]
DEVSTATE(device)

[Synopsis]
Get or Set a device state

[Description]
  The DEVSTATE function can be used to retrieve the device state from any device state provider. For example:
    NoOp(SIP/mypeer has state ${DEVSTATE(SIP/mypeer)})
    NoOp(Conference number 1234 has state ${DEVSTATE(MeetMe:1234)})

The DEVSTATE function can also be used to set custom device state from the dialplan. The "Custom:" prefix must be used. For example:
    Set(DEVSTATE(Custom:lamp1)=BUSY)
    Set(DEVSTATE(Custom:lamp2)=NOT_INUSE)
You can subscribe to the status of a custom device state using a hint in the dialplan:
    exten => 1234,hint,Custom:lamp1
```



The possible values for both uses of this function are:
UNKNOWN | NOT_INUSE | INUSE | BUSY | INVALID | UNAVAILABLE | RINGING
RINGINUSE | ONHOLD

module show like devastate



from the asterisk CLI.

This parameter allows advanced behavior of the BLF function for instance when the DND is activated for one user a BLF configured on this user will show the 'busy' state.

Please refer to Asterisk/Digium web site to find documentation on how to install/compile the DEVSTATE module.



Note: if you change the value of this FreePBX parameter in '/etc/amportal.conf/', you will need to restart amportal and also disable/enable the DND FreePBX module.

2.3.3 Configure Parking lot

The automated profiles for the phone will configure the park key for each phone, so you have to make sure that the parking module is enabled and configured.

This can be done using the 'Parking Lot' menu of FreePBX.

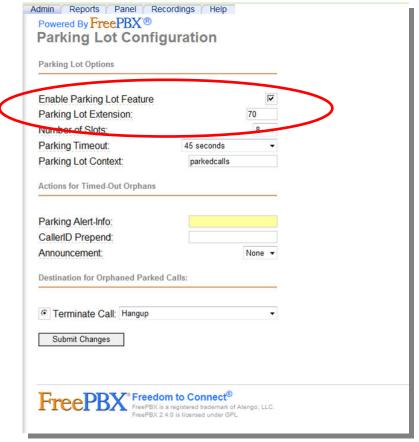


Figure 2: Parking lot configuration





Note: If later on you change the value of the Parking Lot Extension, you will have to perform a login/logout every phone on your platform as the configuration files must be regenerated in order to use the new value.

2.3.4 Create an extension on Asterisk (mode 'extensions')

Depending on the configuration (see chapter 8.2 for more details), a user will be authenticated using:

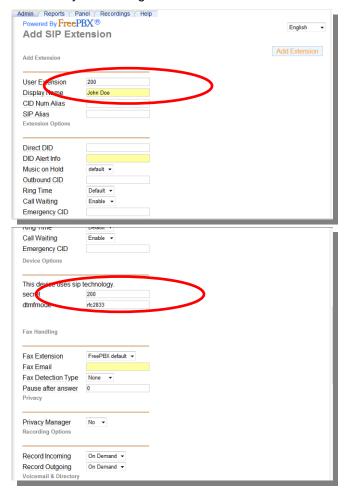
- its extension number,
- its voice mail password.

OR

- its extension number,
- the platform password configured in asterisk.comf.

With configuration 1, you will be able to connect a phone for this user <u>only</u> if a voice mail box with a password is created for this extension using FreePBX.

A voice mail box is not mandatory with configuration 2.





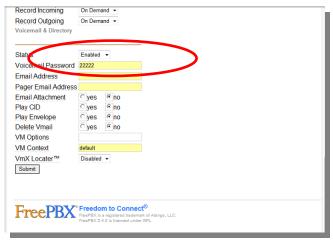


Figure 3: Extension configuration

2.3.5 Create a device and a user on Asterisk (mode 'deviceanduser')

In this implementation of self-configuration, the devices and the users are separated. You need to create a device for each phone of your installation; you will also have to create the users.

So we have implemented 2 self-configuration mechanisms:

- One for the devices
- · One for the users

Device configuration

A device is identified by

- · Its deviceID,
- Its password (secret)



Figure 4: Device configuration

User configuration

A user is identified by

its extension



• its user password

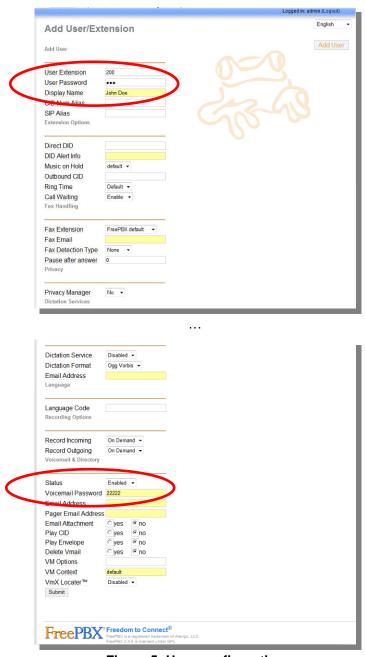


Figure 5: User configuration

2.3.6 Configure Find-me Follow-me

If you plan to use the find-me follow-me script, you need to configure the initial setting using FreePBX. The script is not able to configure the ring strategy.

The script detects if find-me follow-me is configured for the user.



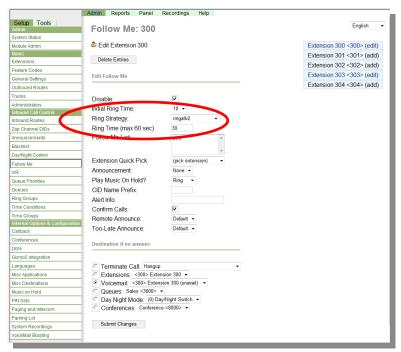


Figure 6: Find-me Follow-me configuration

2.3.7 Create a meet-me conference

In order to use the meet-me manager application, you need to create at least one meet-me conference using FreePBX.

The conference options are not really relevant for the XML application.

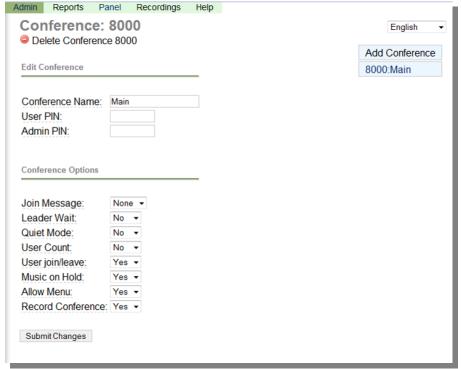


Figure 7: Conference configuration



2.3.8 Create Day/Night control

If you plan to use the Day/Night script, the feature has to be configured via FreePBX. The day/night index used by the scripts is configured in /var/www/html/aastra/config/asterisk.conf, by default the index is 0.

You can configure more than one day/night index but the XML scripts will only propagate the state of the configured index.

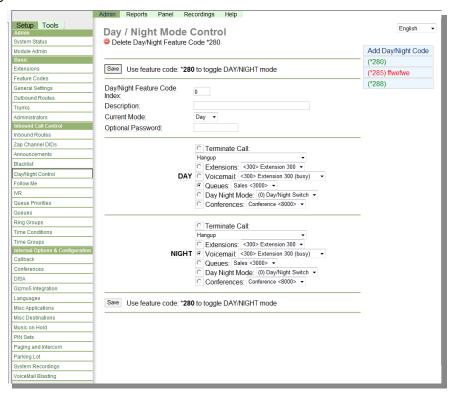


Figure 8: Day/Night configuration

2.3.9 Create a Queue

In order to use the queue management and the Agent Login/Logout application, you need to create at least one ACD queue using FreePBX.

A queue is identified with:

- an extension
- a description
- an optional password
- a list of optional static agents

The password will be used in the Agent login/logout application.



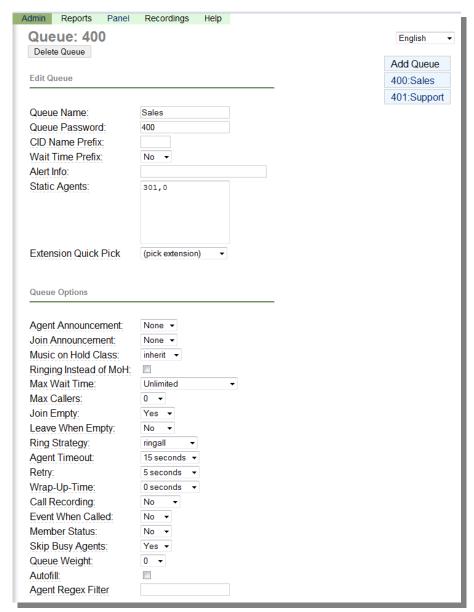


Figure 9: Queue configuration

2.4 Localization

The Aastra XML scripts have been designed for easy localization:

- If you use setup-aastra-xml to generate aastra.cfg, the following localization parameters are set:
 - Extra language(s)
 - o Default language
 - o Tone Set
 - Time Zone
 - Time format



- o Date format
- User selects language
- User selects time zone
- All the labels used in the scripts are defined in a text file (language.ini under /var/www/html/aastra)
- The date and time format used in the scripts is set to International if the time format is set to 24 hours in aastra.cfg.
- The scripts are using the language sent by the phone in the HTTP header which is not available for the Aastra 9112i, 9133i and 480i/480iCT, for these phones, it is necessary to force the language in server.conf.
- For the self-configuration files (.prf), the scripts will localize every potential labels (keys)
 using language.ini.

→	Note: the scripts are delivered in US English, French,	Spanish,	German	and Portug	Jese
----------	--	----------	--------	------------	------



3 FreePBX modes

FreePBX supports 2 radically different modes for managing the Asterisk users:

- extensions
- deviceanduser

Here is a quote from Philippe Lindheimer (FreePBX) explaining the differences between the 2 modes.

"Freepbx 'virtualizes' extensions. The basic concept is that there are users and then there are devices. A user can have multiple devices. The default shipping mode provides the 'extensions' tab which ends up creating a user with the same extension number as the device that you assign them. However, if you flip to 'deviceanduser' mode (see /etc/amportal.conf - AMPEXTENSIONS=) you will see that you now can control users separate from devices and you can assign multiple devices to a single user or you can make a device adhoc allowing any user to login to the device and it becomes their phone until they logout."

3.1 Configuration

The configuration parameter is 'AMPEXTENSIONS' described in '/etc/amportal.conf'

AMPEXTENSIONS: the type of view for extensions admin
If set to 'deviceanduser' Devices and Users will be administered seperately,
and Users will be able to "login" to devices.
If set to 'extensions' Devices and Users will be administered in a single
screen.
AMPEXTENSIONS=extensions

'extensions' mode

AMPEXTENSIONS=extensions

'deviceanduser' mode

AMPEXTENSIONS=deviceanduser



Note: If you change the value of this parameter, you will need to restart asterisk and freepbx ('amportal restart' command). It is recommended to do this change only if you do not have any device or extension configured.

3.2 'extensions' mode

In this mode which is the default mode, the user and the device are the same. A SIP extension created on Asterisk can be attached to only one phone as they share a single identity.

So when you define an extension, you configure the SIP credentials for this user and attach them later to a phone via a phone configuration file (MAC.cfg).

Extension 200 will be called by asterisk using SIP/200.

The main characteristics of an extension are:

- Extension number (which is also the SIP Authentication name)
- Caller ID
- SIP secret



Voicemail configuration

3.3 'deviceanduser' mode

In this mode, the device (phone) is separated from the user, so a user can log into any device and it can be done more than one time as the association between the user and the device is logical in the dial plan.

Extension 200 on device 3000 will be called by asterisk using SIP/3000.

You will use this mode if you want:

- More than one phone with the same user
- Login/logout capabilities without reboot.

When you create the device you have the choice between 3 modes:

- Fixed with default user, the device can not be attached to a user besides the configured default user. In a way it is the 'extensions' mode.
- Adhoc with default user, you can login/logout from the device but after a logout the phone will be attached to its default user.
- Adhoc without default user, you can login/logout from the device but after a logout the phone will have no user.



Note: Technically, you could use a 4th mode (fixed without default user) but it does not really make sense as you would not be able to call the phone.

The main characteristics of a device are:

- Device ID (which is also the SIP Authentication name)
- SIP secret
- Description
- Device type: Fixed or Adhoc
- Default user attached to this device

The main characteristics of a user are:

- Extension number
- User password (which is not the SIP secret)
- Caller ID
- Voicemail configuration

The login/logout capabilities on a device are performed via

- The TUI, *11 to login, *12 to logout
- The XML applications (if you use the profiles provided in the script package)

Note: As the SIP credentials are not changed on the phone during a login/logout sequence there is no need to reboot the phone, all the changes are dynamic.



4 Auto-discovery

This chapter describes the auto-discovery mechanisms that have been introduced in the Aastra SIP phones in firmware 1.4.1.

The purpose of these developments is to allow a non-configured phone (out of the box) to "discover" its Configuration Server automatically and get its configuration from there.

The discovery mechanism selected by Aastra to go beyond DHCP option 66 which might not commonly be available is multicastDNS (mDNS) also known as "Bonjour" in the Apple Computer community.

4.1 Principle

The principle of the auto-discovery mechanism using mDNS service is that:

- a mDNS client is implemented in the phone.
- a mDNS responder is implemented on the network (usually on the server hosting the IP-PBX).

At the first boot, the phone executes the following sequence:

Get an IP address

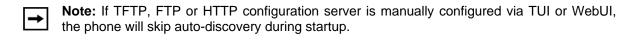
- Try to get IP address from DHCP server
- If DHCP fails, phone is going to skip auto-discovery.

Get Configuration server IP address

- From DHCP using option 66
- If no DHCP option 66, the phone broadcasts a mDNS query (the type of the service requested is _aastra-cfg._tcp standing for Aastra Configuration)
- The mDNS response contains the IP address of the TFTP server, currently only TFTP is supported for the auto-discovery mechanism.

Select the right server

- If there is more than one mDNS responder to the requested service on the network, the phone displays the list of servers identified.
- The user selects which one to use as a configuration server.
- This IP address is saved to the phone and will be used from that point on. Phone won't try
 another during startup auto-discovery until the IP address is removed from configuration



The following diagram shows the phone boot sequence with or without mDNS.



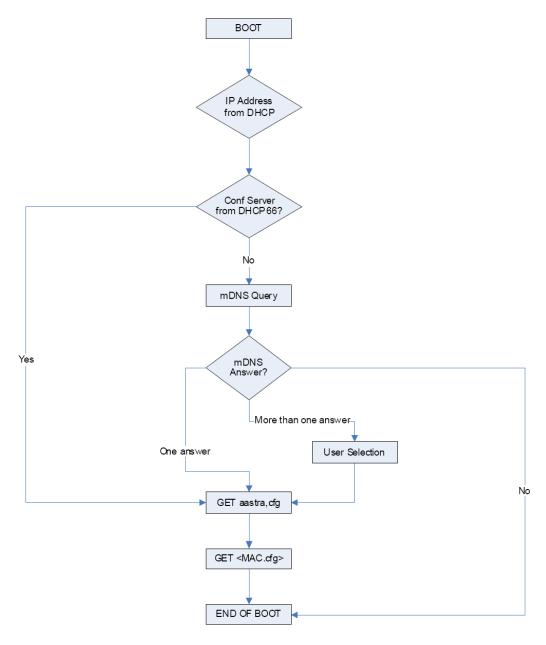


Figure 10: Phone boot sequence



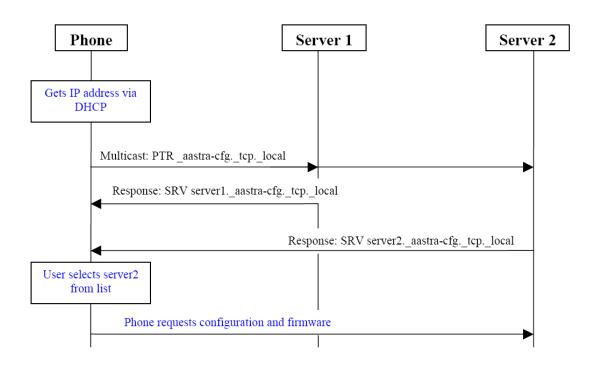


Figure 11: Multicast DNS query

4.2 Implementation on the server

The mDNS Responder is provided by the mDNSResponder-util package(s) which is available from the PBX in a Flash Web site.

This package is automatically installed with the aastra-xml-scripts package.

The mDNSResponder is configured as a Linux service running at init level 3.

Description of the mDNSResponder files installed on the PBX in a Flash server

/usr/sbin/mDNSResponder
 mDNS Responder executable binary

/etc/rc.d/init.d/mDNSResponder
 mDNSResponder service file

/etc/services_mDNS
 mDNSResponder configuration file

The configuration file includes the configuration to answer to the mDNS query sent by the Aastra SIP phones.

→ Note: the

Note: the mDNS service is automatically started after the aastra-xml-scripts installation.



5 Self-Configuration

This chapter describes the self-configuration mechanism provided with the aastra-xml-scripts package which allows the automatic configuration of an Aastra SIP Phone after the first boot.

The self-configuration relies on the XML API capabilities of the Aastra SIP phones and more specifically on:

- action uri startup which is a way to configure the phone to call an XML application at the end of the boot sequence.
- AastralPPhoneExecute XML object which allows an XML application to tell the phone to perform actions such as a reboot.
- AastralPPhoneConfiguration XML object which allows an XML application to dynamically change the phone configuration.

For more information on the Aastra XML API, please refer to the XML API SDK available from the Aastra web site www.aastratelecom.com.

5.1 Message flow

The following is a description of how this can be done using existing phone features.

- 1. The aastra.cfg file sets the startup action uri configuration parameter to point to the configuration script and configuration download information.
- 2. Phone downloads the aastra.cfg file, ignores missing <MAC>.cfg file and continues boot process.
- 3. Phone executes startup uri, running the configuration script. The MAC address of the phone and the phone model are in the HTTP headers of the request.
- 4. The script uses XML to gather required configuration information and creates <MAC>.cfg file on the TFTP server root directory. The <MAC>.cfg file must reset the startup action uri to avoid the configuration script being called on subsequent boots.
- 5. With 2.5.0 or better,
 - the new configuration is sent to the phone via a AastralPPhoneConfiguration objects,
 - no reboot needed
- 5. With a previous firmware,
 - the script reboots the phone via XML reboot command or via SIP check-sync message.
 - Phone reboots, directly downloads both aastra.cfg and newly created <MAC>.cfg file

The following diagram shows the message exchange between the phone and the server (TFTP server and XML applications).



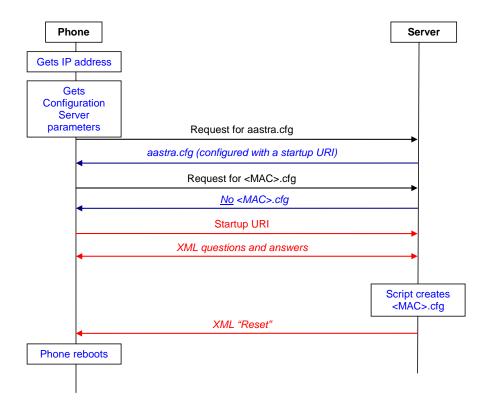


Figure 12: Self-Configuration message flow

5.2 Auto-configuration policy

The auto-configuration policy which includes the flow of questions asked to the user and the script to generate the <MAC>.cfg file is totally open with this mechanism.

Multiple options are available.

1. Extension is already provisioned in the IP-PBX database.

One way to implement this feature might be to have all the extensions already provisioned on the switch side and the XML flow will be used to identify the user (extension number and voicemail password for instance). The script must then control if the extension is not already assigned and create the <MAC>.cfg based on the extension(s) configuration.

Another way would be to display the list of available extensions and let the user select his extension; of course password protection is needed to avoid any hacking of the platform.

2. Extension is not provisioned in the IP-PBX database

A second option is to have the script to provision the extension in the database. To do so, the script can ask for user general parameters (name ...) and automatically creates an extension in the switch database and then creates the <MAC>.cfg, the extension number can be either automatically assigned or the user can select it in a list of available extensions.

Option 1 has been implemented in the aastra-xml-scripts package.



5.3 'extensions' mode self-configuration

5.3.1 Software architecture

In this mode, two XML scripts are provided to perform the hot desking features:

- /var/www/html/aastra/asterisk/startup.php for the login
- /var/www/html/aastra/asterisk/logout.php for the logout.

5.3.1.1 <u>Login</u>

The login script is called at the end of the boot sequence. Once the user has entered his extension, his voice mail password and his time zone, the script:

- Checks the authentication parameters
- Retrieve all the SIP parameters from the asterisk configuration
- Creates MAC.cfg file on the TFTP server root directory
- Updates the cache file with the user information
- Sends an email (optional) to log the operation.

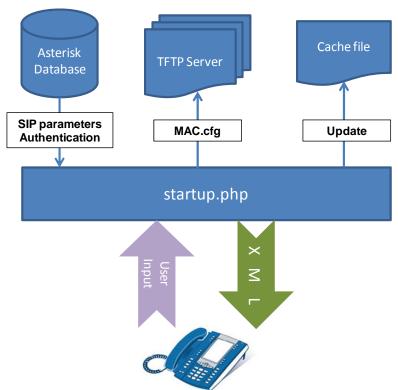


Figure 13: startup.php software architecture

The scripts also checks, using its cache file, that the user is not already registered on another phone, if this is the case, the script updates the MAC.cfg of the other phone and sends a SIP notify check-sync to make it reboot if the phone is registered.

Also the script can trigger an email for each hot desking event. This email parameters configured in /var/www/html/aastra/config/asterisk.conf. See chapter 8.2 for more details.



5.3.1.2 Logout

The logout script is called by the user using a configured key. Once the user enters his voice mail password (or configured platform password), the script:

- Checks the authentication parameters
- Creates an empty MAC.cfg file on the TFTP server
- Updates the cache file with the user information
- Sends an email (optional) to log the operation.

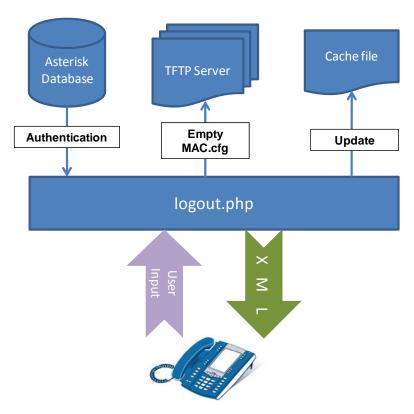


Figure 14: logout.php software architecture

Also the script can trigger an email for each hot desking event. This email address is configured in /var/www/html/aastra/config/asterisk.conf. See chapter 8.2 for more details.



5.3.2 Extension login



Phone

- Boots
- Gets an IP address
- Automatically discovers the server
- Loads aastra.cfg from the TFTP Server

If multiple languages have been installed and user language selection is enabled.

Language selection takes place here.



Depending on configuration.

User enters:

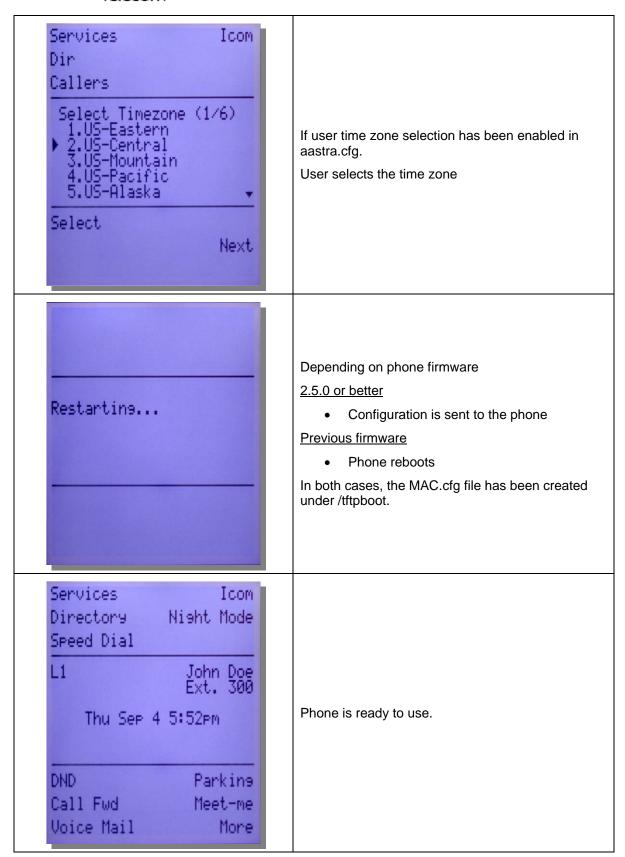
- his extension
- his voice mail password

OR

- his extension
- the platform password

<u>Note</u>: On phones running 1.4.x, this operation is done via 2 screens..







5.3.3 Default phone template configuration

The default phone template used by the self-configuration is

/var/www/html/aastra/asterisk/demo-user.prf

This file can be easily modified to fit your needs.

The name of the default prf file to be used for self configuration as well as the custom profiles are configured in asterisk.conf, see chapter 8.2 for more details.

Parameters

The template file supports the following variables which will be replaced by their value when the configuration file is generated.

Variable	Value	Origin
\$\$AA_SIPAUTHNAME_AA\$\$	SIP Authentication name	freePBX
\$\$AA_SIPSECRET_AA\$\$	SIP Secret	freePBX
\$\$AA_SIPUSERNAME_AA\$\$	SIP username	freePBX
\$\$AA_SIPCALLERID_AA\$\$	User Caller ID	freePBX
\$\$AA_PROXY_SERVER_AA\$\$	Proxy server address	asterisk.conf
\$\$AA_REGISTRAR_SERVER_AA\$\$	Registrar server address	asterisk.conf
\$\$AA_XML_SERVER_AA\$\$	XML Server IP address	asterisk.conf
\$\$AA_XMLDIRECTORY_AA\$\$	XML directory	asterisk.conf
\$\$AA_TZ_NAME_AA\$\$	Time zone name	User input
\$\$AA_TZ_CODE_AA\$\$	Time zone code	User input
\$\$AA_KEYPRESS_AA\$\$	Name of the key	Automatic
\$\$AA_PARKINGLOT_AA\$\$	Parking Lot main number	freePBX
\$\$AA_INTERCOM_CODE_AA	Intercom code	freePBX

Phone template

Aastra9112i

Key 1: Park

• Key 2: Logout

Aastra9133i/9143i

• Key 1: Park

• Key 2: DND

Key 3: Call Forward

Key 4: Directory

Key 5: Presence

Key 6: Parking

Key 7: Logout

Aastra480i/Aastra480iCT/Aastra9480i/Aastra9480iCT

Key 1: Directory

Key 2: Speed Dial

• Key 3: DND

Key 4: Call Forward

Key 5: Presence

Key 6: ACD Agent



Key 7: Voice MailKey 8: ParkingKey 9: Meet-me

• Key 20: Logout

• Services key Menu

Aastra6730i/6731i

Key 1: ParkKey 2: DND

Key 3: Call Forward

Key 4: PresenceKey 5: Parking

• Key 6: Delete (backspace key)

Key 7: DirectoryKey 8: Logout

Aastra6751i

The following applications are available through the Services key.

- Logout
- DND
- Call Forward
- Directory
- SugarCRM
- Speed Dial

Aastra6753i

• Key 1: Park

Key 2: Delete (backspace key)

Key 3: ParkingKey 4: DND

• Key 5: Call Forward

Key 6: Logout

Aastra6755i

Top Key 1: ServicesTop Key 2: DirectoryTop Key 3: Speed Dial

Top Key 4: Presence

Top Key 5: Day/Night

• Top Key 6: Icom



• Key 1: DND

Key 2: Call Forward

• Key 3: Follow-me

• Key 4: Voice Mail

Key 5: Parking

Key 6: Meet-me

Key 7: ACD Agent

• Key 8: Queues

Key 9: MP3 Player

• Key 20: Logout

Services key Menu

Aastra57i/Aastra57iCT

Top Key 1: Services

Top Key 2: Directory

Top Key 3: Speed Dial

Top Key 4: Presence

• Top Key 5: Day/Night

• Top Key 6: Intercom

Key 1: DND

Key 2: Call Forward

Key 3: Follow-me

Key 4: Voice Mail

Key 5: Parking

Key 6: Meet-me

Key 7: ACD Agent

Key 8: Queues

Key 9: MP3 Player

Key 20: Logout

Services key Menu

5.3.4 Custom phone templates

The self-configuration script uses the default template configured in asterisk.conf for all users but you can also configure custom templates for 'special' users who need a different configuration.

This configuration is also done in asterisk.conf.

Example

With the following configuration in asterisk.conf for the 'Profiles' tag.

[Profiles]



```
# support=200-249,251-299
# agent=400-
# manager=250,300,301
```

As long as you have created the following profile files in /var/www/html/aastra/asterisk:

- support-user.prf
- agent-user.prf
- special-user.prf

the self-configuration scripts will use

- support-user.prf for extensions 200 to 249 and 251 to 299
- agent-user.prf for extensions over 400
- manager-user.prf for extensions 250, 300 and 301
- the default profile for all other extensions.



Note: If the custom profile file is not available, the self-configuration fails.

5.3.5 Phone configuration update

Once a phone has been configured using the self-configuration, you have 2 ways to change the phone configuration.

Modify MAC.cfg

If you manually modify MAC.cfg located at /tftpboot, the changes will be applied after a phone reboot. The keys used for the applications such as DND, CFWD, Presence... are automatically detected after the phone reboots.

Modify the profile(s)

You can also modify the default profile file (/var/www/html/aastra/asterisk/demo-user.prf) as well as the custom profiles, the changes will apply when the phone performs a logout/login.

Another way to update the configurations with the new profile is to use the 'apply_prf' tool located at /var/www/html/aastra/asterisk.

This tool will automatically apply the new profile(s) to a list of phones (or all the platform phones) and remotely reboot them if needed.

```
Syntax

cd /var/www/html/aastra/asterisk

./apply_prf {-r} user1 user2...

Or

./apply_prf {-r} ALL
```

Where

- -r indicates that a reboot will be triggered
- user1 user2... is the list of users to update or ALL for all users (stored in /var/cache/aastra/startup_asterisk.cfg).

Example



Model: Aastra57iCT CallerID: Extension 300 MAC file updated Reboot command sent

5.4 'deviceanduser' mode self-configuration

5.4.1 Software architecture

Three XML scripts are provided to perform the hot desking features:

- /var/www/html/aastra/asterisk/startup.php for the device login
- /var/www/html/aastra/asterisk/login.php for the user login.
- /var/www/html/aastra/asterisk/logout.php for the user logout.

→ pla

Note: The device login operation should be managed by the administrator of the telephony platform.

5.4.1.1 <u>Device Login</u>

The device login script is called at the end of the boot sequence. Once the administrator has entered the device ID, the device password (secret) and the phone time zone, the script:

- Checks the authentication parameters
- Retrieve all the SIP parameters from the asterisk configuration
- Creates MAC.cfg file on the TFTP server root directory
- Updates the cache file with the device information
- Sends an email (optional) to log the operation.

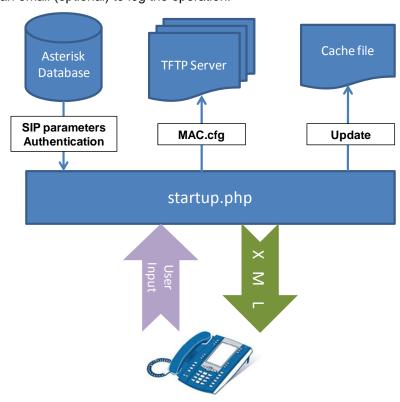




Figure 15: startup.php software architecture

The scripts also checks, using its cache file, that the device is not already registered on another phone.

The script can trigger an email for each hot desking event. This email address is configured in /var/www/html/aastra/config/asterisk.conf. See chapter 8.2 for more details.

5.4.1.2 User Login

Once the device is attached to a phone, the user can now login to this phone. The user login script is called when the user presses the 'Login' key on the phone, the script

- Asks for the user extension
- Asks for the user password
- · Checks the credentials
- Updates the cache file with the user information
- Asks Asterisk to send a SIP Notify aastra-xml to the phone



Note: Dialing *11 on the phone will perform the same user login and will also trigger a SIP Notify.

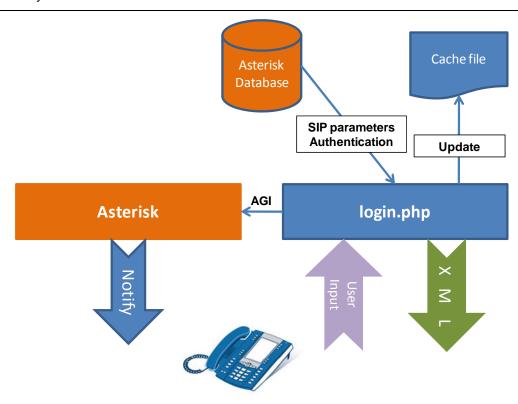


Figure 16: login.php software architecture

The SIP Notify is then processed by the phone calling the sync.php script which sends the configuration update to the phone based on the profile file.



→

Note: If a user is already logged in to the device, the login user script will logout the initial user

5.4.1.3 User Logout

The logout script is called by the user. Once the user his voice mail password, the script:

- Clear phone history (redial list...)
- Updates the cache file with the user information
- Asks Asterisk to send a SIP Notify aastra-xml to the phone

→

Note: Dialing *12 on the phone will perform the same user logout and will also trigger a SIP Notify.

The SIP Notify is then processed by the phone calling the sync.php script which sends the configuration update to the phone based on the profile file.

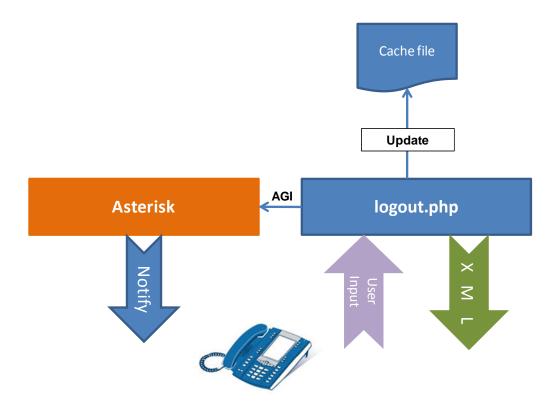
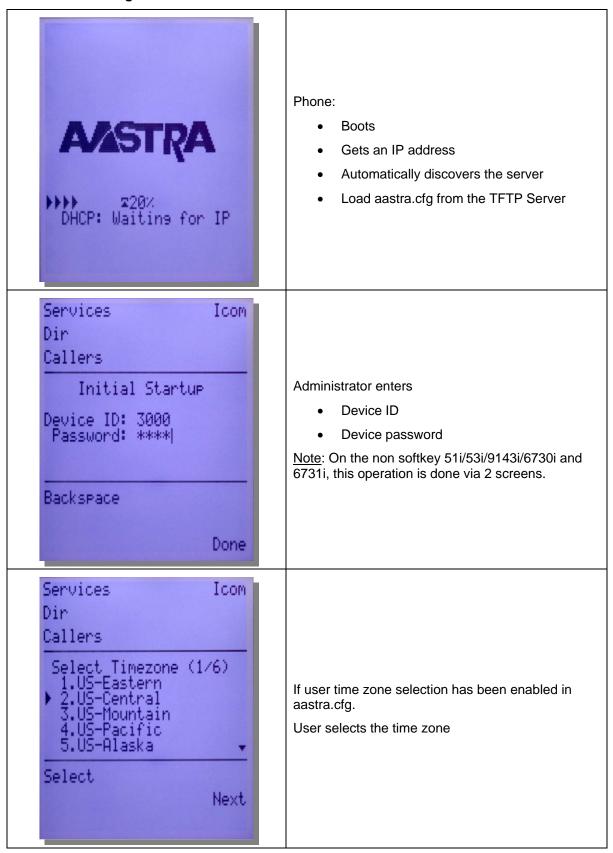


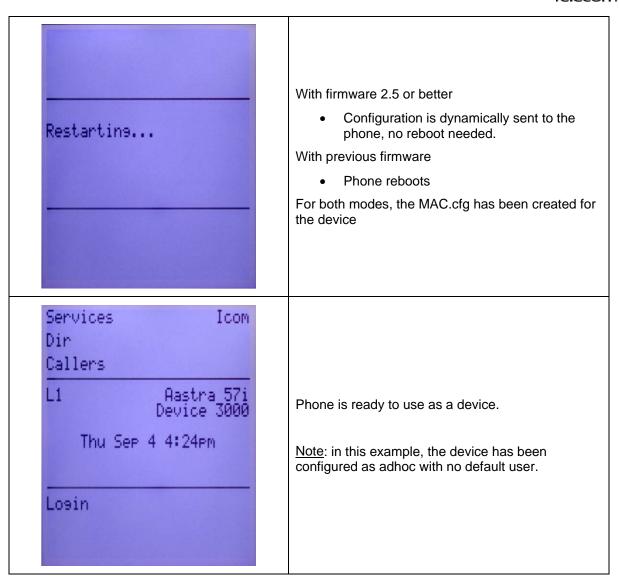
Figure 17: logout.php software architecture



5.4.2 Device Login





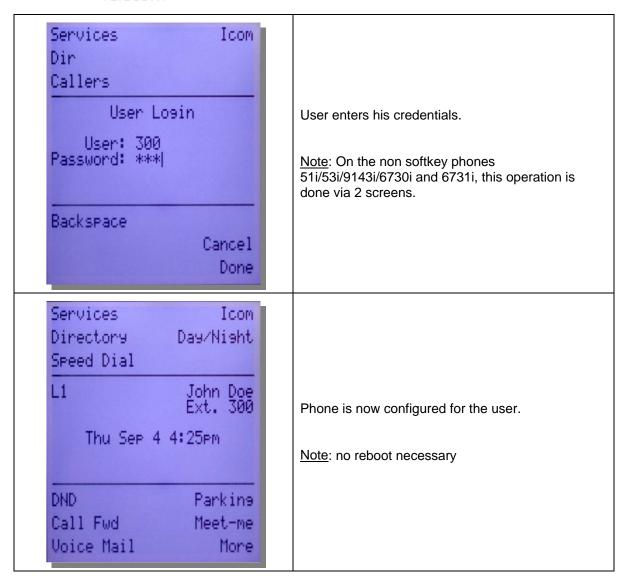


5.4.3 User Login

If multiple languages have been installed and user language selection is enabled.

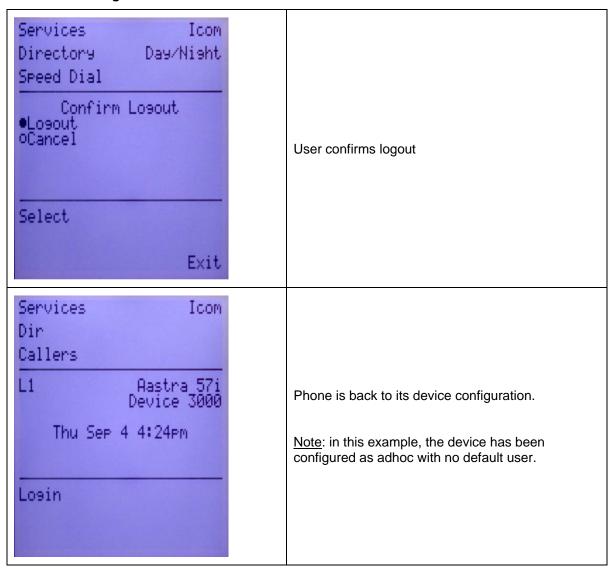
Language selection takes place here.







5.4.4 User Logout



5.4.5 Default Phone template configuration

The default phone templates used by the self-configuration in 'deviceanduser' mode are (as configured in asterisk.conf)

- /var/www/html/aastra/asterisk/demo-device-nouser.prf, this file contains the profile for a device without a user.
- /var/www/html/aastra/asterisk/demo-device-user.prf, this file contains the profile for a device with a logged user.

These files can be easily modified to fit your needs.

The name of the prf file to be used for self configuration as well as the custom templates are configured in asterisk.conf, see chapter 8.2 for more details.

Note: 'deviceanduser' mode is only supported by the phones running firmware 2.5.0 or better, which excludes 9112i, 9133i, 480i and 480iCT.



Parameters

The template files support the following variables which will be replaced by their value when the configuration file is generated.

Variable	Value	Origin	-nouser	-user
\$\$AA_SIPAUTHNAME_AA\$\$	SIP Authentication name	freePBX	✓	
\$\$AA_SIPSECRET_AA\$\$	SIP Secret	freePBX	✓	
\$\$AA_SIPUSERNAME_AA\$\$	SIP username	freePBX	✓	✓
\$\$AA_SIPCALLERID_AA\$\$	User Caller ID	freePBX	✓	✓
\$\$AA_PROXY_SERVER_AA\$\$	Proxy server address	asterisk.conf	✓	
\$\$AA_REGISTRAR_SERVER_AA\$\$	Registrar server address	asterisk.conf	✓	
\$\$AA_XML_SERVER_AA\$\$	XML Server IP address	asterisk.conf	✓	✓
\$\$AA_XMLDIRECTORY_AA\$\$	XML directory	asterisk.conf	✓	✓
\$\$AA_TZ_NAME_AA\$\$	Time zone name	User input	✓	
\$\$AA_TZ_CODE_AA\$\$	Time zone code	User input	✓	
\$\$AA_KEYPRESS_AA\$\$	Name of the key	Automatic	✓	
\$\$AA_PARKINGLOT_AA\$\$	Parking Lot main number	freePBX	✓	✓
\$\$AA_INTERCOM_CODE_AA	Intercom code	freePBX	✓	✓

5.4.5.1 Phone template for a device with no user

→

Note: 'deviceanduser' mode is only supported by the phones running firmware 2.4.1 or better, which excludes 9112i, 9133i, 480i and 480iCT.

Aastra9143i/6730i/6731i/6753i

• Key 1: Login

Aastra6755i/57i/57iCT/9480i/Aastra9480iCT

Key 1: Login

Services key Menu

Aastra6751i

The following applications are available through the Services key.

Login

5.4.5.2 Phone template for a device with a user

Aastra9143i

Key 1: Park

Key 2: DND

Key 3: Call Forward

Key 4: Directory

Key 5: Presence

Key 6: Parking

• Key 7: Logout

Aastra9480i/Aastra9480iCT

• Key 1: Directory

Key 2: Speed Dial

Key 3: DND



• Key 4: Call Forward

• Key 5: Presence

• Key 6: Agent

Key 7: Voice Mail

Key 8: Parking

• Key 9: Meet-me

• Key 20: Logout

Services key Menu

Aastra6730i/6731i

Key 1: Park

Key 2: DND

• Key 3: Call Forward

• Key 4: Presence

Key 5: Parking

Key 6: Delete

Key 7: Directory

Key 8: Logout

Aastra6751i

The following applications are available through the Services key.

- Login
- Logout
- DND
- Call Forward
- Directory
- SugarCRM
- Speed Dial
- Parking
- Presence
- MP3 Player

Aastra6753i

• Key 1: Park

• Key 2: Delete (backspace key)

Key 3: Parking

• Key 4: DND

Key 5: Call Forward

Key 6: Logout



Aastra6755i

• Top Key 1: Services

• Top Key 2: Directory

• Top Key 3: Speed Dial

• Top Key 4: Presence

• Top Key 5: Day/Night

• Top Key 6: Intercom

Key 1: DND

Key 2: Call Forward

• Key 3: Follow-me

Key 4: Voice Mail

Key 5: Parking

Key 6: Meet-me

Key 7: ACD Agent

• Key 8: Queues

Key 9: MP3 Player

• Key 20: Logout

• Services key Menu

Aastra57i/Aastra57iCT

• Top Key 1: Services

• Top Key 2: Directory

• Top Key 3: Speed Dial

Top Key 4: Presence

• Top Key 5: Day/Night

• Top Key 6: Intercom

Key 1: DND

Key 2: Call Forward

• Key 3: Follow-me

• Key 4: Voice Mail

Key 5: Parking

Key 6: Meet-me

Key 7: ACD Agent

• Key 8: Queues

Key 9: MP3 Player

• Key 20: Logout



5.4.6 Custom phone templates

The self-configuration script uses the default template configured in asterisk.conf for all devices and users but you can also configure custom templates for 'special' devices or users who need a different configuration.

This configuration is also done in asterisk.conf.

Example

With the following configuration in asterisk.conf for the 'Profiles' tag.

```
# [Profiles]
# support=200-249,251-299
# agent=400-
# manager=250,300,301
# custom=3000-3100
```

As long as you have created the following profile files in /var/www/html/aastra/asterisk:

- support-device-user.prf
- · agent-device-user.prf
- special-device-user.prf
- custom-device-nouser.prf

the self-configuration scripts will use

support-device-user.prf for extensions 200 to 249 and 251 to 299

Note: If the custom profile file is not available, the self-configuration fails.

- agent-device-user.prf for extensions over 400
- manager-device-user.prf for extensions 250, 300 and 301
- custom-device-nouser.prf for devices 3000 to 3100
- the default profile for all other devices/users.



5.4.7 Phone configuration update

5.4.7.1 <u>Device configuration update</u>

Once a device has been configured using the self-configuration, you have 2 ways to change the configuration.

Modify MAC.cfg

If you manually modify MAC.cfg located at /tftpboot, the changes will be applied after a phone reboot.

Modify the profile(s)

You can also modify the default profile file (/var/www/html/aastra/asterisk/demo-device-nouser.prf) as well as the custom profiles, the changes will apply when the phone reboots.

Another way to update the configurations with the new profile(s) is to use the 'apply_prf' tool located at /var/www/html/aastra/asterisk.

This tool will automatically apply the new profile(s) to a list of devices (or all the platform phones) and remotely reboot them if needed.

```
Syntax
cd /var/www/html/aastra/asterisk
```



```
./apply_prf {-r} device1 device2...
Or
./apply_prf {-r} ALL
```

Where

- -r indicates that a reboot will be triggered
- device1 device2... is the list of devices to update or ALL for all devices (stored in /var/cache/aastra/startup_asterisk.cfg).

Example

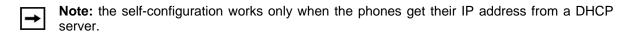
5.4.7.2 <u>User configuration update</u>

If you want to change a user configuration once a phone has been configured using the self-configuration, you can modify the default profile file (demo-device-user.prf) located at /var/www/html/aastra/asterisk as well as all the custom profiles.

The changes will be applied after a logout/login.

5.5 Before you connect the first phone

Make sure that you have followed all the steps detailed in chapter 2.3.





6 Asterisk applications

In this chapter, XML SERVER is the IP address of the server

6.1 **DND**

This application allows a user to activate and deactivate the server side DND on his phone. When activated, a status message is displayed and the LED attached to the key (when there is one) is lit.

The status is synchronized at the phone boot and on a regular basis (67i and 9i series only).

If the USEDEVSTATE is set to true in '/etc/amportal.conf' enabling the DND will also change the BLF status of the user to 'Busy'.

6.1.1 Phone Compatibility

All Aastra phones.

BUT no LED status for Aastra9112i/9133i/480i/480iCT/9480i/9480iCT

6.1.2 PHP script

Location

/var/www/html/aastra/asterisk/dnd.php

Parameters

user=XXX [Mandatory]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

Notes:



- only <u>one instance</u> of this script per phone is supported
- the LED key is automatically detected when the phone registers after a reboot.

6.1.3 Configuration

Aastra 9112i/9133i/480i/480iCT

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php ?action=register &user=\$\$SIPUSERNAME\$\$

• **uri**http://XML_SERVER/aastra/asterisk/dnd.php ?user=\$\$SIPUSERNAME\$\$

<u>Aastra 6751i</u>

As the Aastra6751i does not have any softkey, the DND application is available only through the 'Services' key.

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php ?action=register &user=\$\$SIPUSERNAME\$\$

action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php ?action=check &user=\$\$SIPUSERNAME\$\$

action uri poll interval: 1800



sip xml notify event: 1

action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php

?action=check
&user=\$\$SIPUSERNAME\$\$

xml application uri

http://XML_SERVER/aastra/menu/mymenu.php

?menu_source=menu2
&menu_user=\$\$SIPUSERNAME\$\$
&user=\$\$SIPUSERNAME\$\$

Aastra 53i/55i/57i/57iCT, 9143i/9480i/9480iCT and 6730i/6731i

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php

?action=register
&user=\$\$SIPUSERNAME\$\$

action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php

?action=check

&user=\$\$SIPUSERNAME\$\$

action uri poll interval: 1800

action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php

?action=notify
&user=\$\$SIPUSERNAME\$\$

uri

http://XML_SERVER/aastra/asterisk/dnd.php

?user=\$\$SIPUSERNAME\$\$

6.1.4 Configuration files

The DND application uses the following configuration files

server.conf

o General tag, language

6.1.5 Screenshots





6.1.6 Comments

'extensions mode'

This application works only if the phone is configured with a single extension.

'deviceanduser' mode

If a user is logged on multiple devices, the DND status is automatically updated on all the
devices.



6.1.7 Message flow

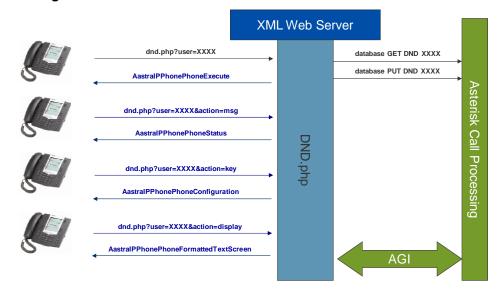


Figure 18: DND message flow

6.2 Call Forward

This application allows a user to activate and deactivate the server side CFWD ALL on his phone. When activated, a status message is displayed and the LED attached to the key (when there is one) is lit.

Depending on the script parameters (see 6.2.2) the script can have 2 modes:

- Manual: the user is prompted to enter the call forward destination target.
- Toggle: the target destination of the call forward is always the same and the scripts toggles between 'activated' and 'deactivated'.

The status is synchronized at the phone boot and on a regular basis (67xxi and 9i Series only).

6.2.1 Phone Compatibility

All Aastra phones.

BUT no LED status for Aastra9112i/9133i/480i/480iCT/9480i/9480iCT

6.2.2 PHP script

Location

/var/www/html/aastra/asterisk/cfwd.php

Parameters

user=XXX [Mandatory]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

OR



• user=XXX [Mandatory]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

Value=YYY [Optional]

where YYY is the target destination of the call forward.

Notes:



- only one instance of this script per phone is supported
- the LED key is automatically detected when the phone registers after a reboot.

6.2.3 Configuration

Aastra 9112i/9133i/480i/480iCT

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php ?action=register &user=\$\$SIPUSERNAME\$\$

uri

http://XML_SERVER/aastra/asterisk/cfwd.php ?user=\$\$SIPUSERNAME\$\$

Aastra 51i

As the Aastra6751i does not have any softkey, the CFWD application is available only through the 'Services' key.

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php ?action=register &user=\$\$SIPUSERNAME\$\$

action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php ?action=check

&user=\$\$SIPUSERNAME\$\$

action uri poll interval: 1800

action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php ?action=notify &user=\$\$SIPUSERNAME\$\$

xml application uri

http://XML_SERVER/aastra/menu/mymenu.php ?menu_source=menu2

&menu_user=\$\$SIPUSERNAME\$\$
&user=\$\$SIPUSERNAME\$\$

Aastra 53i/55i/57i/57iCT, 9143i/9480i/9480iCT and 6730i/6731i

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php ?action=register &user=\$\$SIPUSERNAME\$\$

action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php ?action=check &user=\$\$SIPUSERNAME\$\$

action uri poll interval: 1800

action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php ?action=notify

&user=\$\$SIPUSERNAME\$\$

uri

http://XML_SERVER/aastra/asterisk/cfwd.php ?user=\$\$SIPUSERNAME\$\$



6.2.4 Configuration files

The Call Forward application uses the following configuration files

server.conf

General tag, language

6.2.5 Screenshots



6.2.6 Comments

'extensions mode'

• This application works only if the phone is configured with a single extension.

'deviceanduser' mode

 If a user is logged on multiple devices, the CFWD status is automatically updated on all the devices.

6.2.7 Message Flow

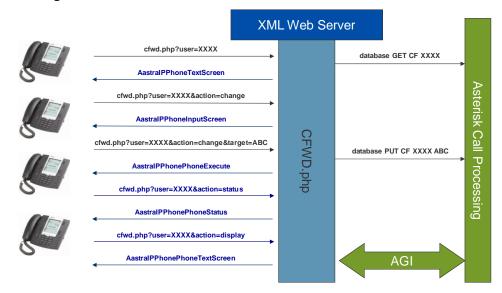


Figure 19: CFWD message flow

6.3 Follow-Me

This application allows a user to activate/deactivate as well as configure the find-me follow-me feature on the phone. When activated, a status message is displayed and the LED attached to the key (when there is one) is lit.



The status is synchronized at the phone boot and on a regular basis (67xxi and 9i Series only).

Note: find-me follow-me feature must first be configured from FreePBX as the scripts cannot handle the type of ringing strategy.

6.3.1 Phone Compatibility

All Aastra phones.

BUT no LED status for Aastra9112i/9133i/480i/480iCT/9480i/9480iCT

6.3.2 PHP script

Location

/var/www/html/aastra/asterisk/follow.php

Parameters

user=XXX [Mandatory]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

Notes:



- only one instance of this script per phone is supported
- the LED key is automatically detected when the phone registers after a reboot.

6.3.3 Configuration

Aastra 9112i/9133i/480i/480iCT

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php ?action=register &user=\$\$SIPUSERNAME\$\$

• uri

http://XML_SERVER/aastra/asterisk/follow.php ?user=\$\$SIPUSERNAME\$\$

Aastra 51i

As the Aastra6751i does not have any softkey, the CFWD application is available only through the 'Services' key.

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php ?action=register &user=\$\$SIPUSERNAME\$\$

action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php ?action=check &user=\$\$SIPUSERNAME\$\$

action uri poll interval: 1800

action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php

?action=notify
&user=\$\$SIPUSERNAME\$\$

&user=\$\$SIPUSERNAME\$\$

xml application uri

http://XML_SERVER/aastra/menu/mymenu.php

?menu_source=menu2
&menu_user=\$\$SIPUSERNAME\$\$

Aastra 53i/55i/57i/57iCT, 9143i/9480i/9480iCT and 6730i/6731i

• action uri registered:



http://XML_SERVER/aastra/asterisk/sync.php ?action=register &user=\$\$SIPUSERNAME\$\$

action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php ?action=check &user=\$\$SIPUSERNAME\$\$

action uri poll interval: 1800

action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php ?actio

?action=notify
&user=\$\$SIPUSERNAME\$\$

uri

http://XML_SERVER/aastra/asterisk/follow.php ?user=\$\$SIPUSERNAME\$\$

6.3.4 Configuration files

The Follow-me application uses the following configuration files

server.conf

General tag, language

6.3.5 Comments

'extensions mode'

This application works only if the phone is configured with a single extension.

'deviceanduser' mode

 If a user is logged on multiple devices, the Follow-me status is automatically updated on all the devices.

6.4 Day/Night

This application allows a user to change the mode of the Day/Night control from his phone. When in night mode, a status message is displayed, the label of the key is changed (if softkey) and the LED attached to the key (when there is one) is lit.

The status is synchronized at the phone boot and on a regular basis (5i and 9i Series only).

The list of users allowed to have this application on their phone as well as the list of users being notified is configurable in the asterisk.conf file see chapter 8.2 for more details.

The script detects which day/night index(es) have been configured via FreePBX and checks if the configured index has been configured.

If more than one index is configured, the script will allow the status change for all the indexes but the status is propagated only for the configured index.

6.4.1 Phone Compatibility

All Aastra phones.

BUT no LED status for Aastra9112i/9133i/480i/480iCT/9480i/9480iCT

6.4.2 PHP script

Location

/var/www/html/aastra/asterisk/daynight.php

<u>Parameters</u>

user=XXX [Mandatory]



where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

Notes:



- only <u>one instance</u> of this script per phone is supported
- the LED key is automatically detected when the phone registers after a reboot.

6.4.3 Configuration

Aastra 9112i/9133i/480i/480iCT

• action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php ?action=register

&user=\$\$SIPUSERNAME\$\$

• uri

http://XML_SERVER/aastra/asterisk/daynight.php?user=\$\$SIPUSERNAME\$\$

Aastra 51i

As the Aastra6751i does not have any softkey, the Day/Night application is available only through the 'Services' key.

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php

?action=register
&user=\$\$SIPUSERNAME\$\$

action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php

?action=check

&user=\$\$SIPUSERNAME\$\$

action uri poll interval: 1800

action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php

?action=notify

&user=\$\$SIPUSERNAME\$\$

xml application uri

http://XML_SERVER/aastra/menu/mymenu.php

?menu_source=menu2
&menu_user=\$\$SIPUSERNAME\$\$

&user=\$\$SIPUSERNAME\$\$

Aastra 53i/55i/57i/57iCT, 9143i/9480i/9480iCT and 6730i/6731i

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php

?action=register
&user=\$\$SIPUSERNAME\$\$

&user=\$\$SIPUSERNAME\$\$

· action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php

?action=check

action uri poll interval: 1800

action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php

?action=notify

&user=\$\$SIPUSERNAME\$\$

uri

http://XML_SERVER/aastra/asterisk/daynight.php

?user=\$\$SIPUSERNAME\$\$

6.4.4 Configuration files

The Daynight application uses the following configuration files

server.conf

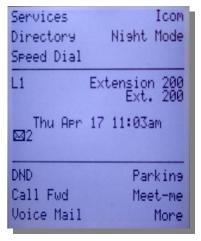
General tag, language



asterisk.conf

o Daynight tag, all parameters

6.4.5 Screenshots







6.4.6 Comments

'deviceanduser' mode

 If a user is logged on multiple devices, the Day/night status is automatically updated on all the devices hosting the user.

6.5 Presence

This application allows a user to setup and share presence information.

The presence statuses are:

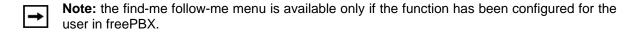
- Available
- Away
- At Lunch
- In a Meeting
- Out of Office

When the user is not available, the application allows him to:

- Enter a return date
- Enter a return time
- Record a temporary message

Also the user can configure a default phone behavior when he is not available (Preferences):

- Activate DND
- Activate Find-Me Follow-Me



When the user is not available, the LED attached to the key (when there is one) is lit.



This presence information is stored in the Asterisk database and is made available to other users via the directory application and the outgoing call application. The directory application allows another to be notified (voice or text message) when you are back to available.

The presence application can be disabled via configuration, see chapter 8.2 for more details.

6.5.1 Phone Compatibility

All Aastra phones.

No LED status for Aastra9112i/9133i/480i/480iCT/9480i/9480iCT

6.5.2 PHP script

Location

/var/www/html/aastra/asterisk/away.php

Parameters

user=XXX [Mandatory]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

Notes:



- only one instance of this script per phone is supported
- the LED key is automatically detected when the phone registers after a reboot.

6.5.3 Configuration

Aastra 9112i/9133i/480i/480iCT

• action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php ?action=register &user=\$\$SIPUSERNAME\$\$

action uri onhook:

&name=\$\$INCOMINGNAME\$\$
uri

Aastra 51i

As the Aastra6751i does not have any softkey, the Presence application is available only through the 'Services' key.

action uri registered:

action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php ?action=check &user=\$\$SIPUSERNAME\$\$

action uri poll interval: 1800

action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php

http://XML_SERVER/aastra/asterisk/away.php

?action=notify
&user=\$\$SIPUSERNAME\$\$

?user=\$\$SIPUSERNAME\$\$

xml application uri

http://XML_SERVER/aastra/menu/mymenu.php

?menu_source=menu2
&menu_user=\$\$SIPUSERNAME\$\$
&user=\$\$SIPUSERNAME\$\$



Aastra 53i/55i/57i/57iCT, 9143i/9480i/9480iCT and 6730i/6731i

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php

?action=register
&user=\$\$SIPUSERNAME\$\$

action uri onhook:

http://XML_SERVER/aastra/asterisk/onhook.php

?user=\$\$\$IPUSERNAME\$\$
&number=\$\$REMOTENUMBER\$
&name=\$\$INCOMINGNAME\$\$

action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php

?action=check
&user=\$\$SIPUSERNAME\$\$

action uri poll interval: 1800

action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php

?action=notify
&user=\$\$SIPUSERNAME\$\$

ur

http://XML_SERVER/aastra/asterisk/away.php

?user=\$\$SIPUSERNAME\$\$

6.5.4 Configuration files

The Presence application uses the following configuration files

server.conf

General tag, language

asterisk.conf

Presence tag, all parameters

6.5.5 Screenshots



6.5.6 Comments

All modes

 The recording of a temporary message works only if the user voicemail has been created and used one time.

'deviceanduser' mode

• If a user is logged on multiple devices, the Presence status is automatically updated on all the devices hosting the user.



6.6 Meet-me

This application allows a user to control a meet-me conference from his phone.

With this application, the user can:

- See the list of attendees
- Mute/Unmute attendees
- Kick attendees

6.6.1 Phone Compatibility

All Aastra phones with softkeys

- Aastra480i/480iCT
- Aastra9480i/9480iCT
- Aastra6755i/6757i/6757iCT

6.6.2 PHP script

Location

/var/www/html/aastra/asterisk/meetme.php

Parameters

ext=XXX [Mandatory]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

6.6.3 Configuration

• uri

http://XML_SERVER/aastra/asterisk/meetme.php

?ext=\$\$SIPUSERNAME\$\$

6.6.4 Configuration files

The Meet-me application uses the following configuration files

server.conf

o General tag, language

6.6.5 Screenshots





6.6.6 Comments

On the <u>Aastra 55i/57i/57iCT and 9480i/9480iCT</u>, the attendee list is automatically refreshed, where on the 480i/480iCT the list must be manually refreshed using the "Refresh" key.



6.7 Visual Voice Mail

This application allows a user to manage its Voice mail messages from the phone using a data interface comparable to an email reader, a.k.a visual voice mail.

With this application, the user can

- Play a message
- Delete a Message
- Save a message
- Restore a message
- Forward a message
- · Record his name
- Record his unavailable message
- Record his busy message
- Record his temporary message
- Enable/disable auto-answer mode
- Enable/disable auto-login

The application also manages the LED attached to the key if the application is configured for a dedicated mailbox (6755i, 6757i and 6757iCT only).

For the 9480i and 9480iCT which don't support LED management, the label attached to the softkey reflects the number of new messages in the Inbox.

6.7.1 Phone Compatibility

All Aastra phones with softkeys

- Aastra480i/480iCT
 - Aastra9480i/9480iCT
 - Aastra6751i/6753i/6755i/6757i/6757iCT
 - Aastra6730i/6731i

No LED management for Aastra480i/480iCT and Aastra9480i/9480iCT

6.7.2 PHP script

Location

/var/www/html/aastra/asterisk/vmail.php

Parameters

ext=XXX [Mandatory]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

user=YYY [Optional]

where YYY is the voice mail box ID to monitor, variable \$\$AA_SIPUSERNAME_AA\$\$ should be used there.



Notes:



- Multiple instances of this script per phone are allowed but with different mailboxes.
- the LED key(s) are automatically detected when the phone registers after a reboot.

6.7.3 Usage

Let's suppose that my phone is extension 100, there is also a general mail box with extension 300 Monitoring your own voice mail box

/var/www/html/aastra/asterisk/vmail.php?ext=100&user=100

Monitoring the general mailbox

/var/www/html/aastra/asterisk/vmail.php?ext=100&user=300

Using the scripts to access any VM box but no monitoring

/var/www/html/aastra/asterisk/vmail.php?ext=100

6.7.4 Configuration

action uri onhook:

http://XML_SERVER/aastra/asterisk/onhook.php

?user=\$\$SIPUSERNAME\$\$
&number=\$\$REMOTENUMBER\$
&name=\$\$INCOMINGNAME\$\$

uri

Monitoring the user mailbox

http://XML_SERVER/aastra/asterisk/vmail.php

?ext=\$\$SIPUSERNAME\$\$
&user=\$\$AA SIPUSERNAME AA\$\$

Monitoring any mailbox XXX

http://XML_SERVER/aastra/asterisk/vmail.php

?ext=\$\$SIPUSERNAME\$\$
&user=XXX

Not monitoring any mailbox

http://XML_SERVER/aastra/asterisk/vmail.php

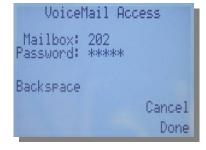
?ext=\$\$SIPUSERNAME\$\$

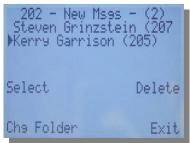
6.7.5 Configuration files

The Visual voice mail application uses the following configuration files server.conf

o General tag, language

6.7.6 Screenshots









6.7.7 Comments

This application works only if the phone is configured with a single extension

6.7.8 Message Flow

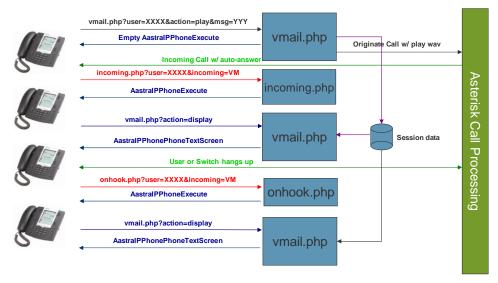


Figure 20: Visual Voice Mail message flow

6.8 Directory

This application allows a user to access to the Asterisk directory showing all the extensions configured on the platform.

The directory is presented as a sorted list with 15 (1.4.3) or 30 (2.5.0) items per page.

From there, the user can:

- Dial the extension
- Intercom the extension
- Add it to his speed dial list (phones with softkeys only)

You can filter the extensions you don't want to be displayed in the application in the asterisk.conf file see chapter 8.2 for more details.

When the presence application is enabled, the directory application displays the presence status of the users and also allows to be notified when a user is back to available.

6.8.1 Phone Compatibility

All Aastra phones

6.8.2 PHP script

Location

/var/www/html/aastra/asterisk/directory.php

Parameters

user=XXX [Mandatory]



where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

6.8.3 Configuration

uri

http://XML_SERVER/aastra/asterisk/directory.php ?user=\$\$SIPUSERNAME\$\$

6.8.4 Configuration files

The Directory application uses the following configuration files

server.conf

o General tag, language

asterisk.conf

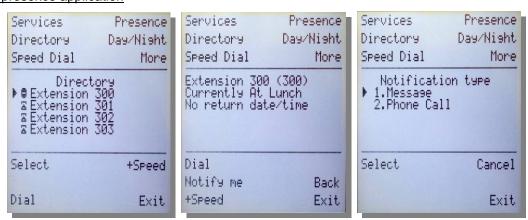
- Directory tag, all parameters
- o SpeedDial tag, all parameters

6.8.5 Screenshots

Without presence application



With presence application



6.8.6 Comments

On the phones without softkeys (51i/53i/9143i/6730i/6731i), the user cannot access to the speed dial feature from this application.



6.9 Contacts using a csv text file

The application described in this chapter is a generic directory application using a CSV file as source data.

The Contact application allows the user to perform a lookup based on

- The first letters of the first name AND last name¹
- Letters anywhere in the complete name

Also, it allows the user to configure¹:

- The results display format: 'first name last name' or 'last name first name'
- Sorting index: 'last name' or 'first name'

The user can also store any contact to his personal speed dial (if configured).

6.9.1 Phone Compatibility

The directory and speed dial applications are available for

- Aastra 51i, 53i, 55i, 57i, 57iCT
- Aastra 9143i, 9480i, 9480iCT
- Aastra 6730i/6731i

But some limitations apply in the directory application when the phone is a non softkey phone a user cannot:

- set a speed dial from the directory application
- · change sorting index and display format
- · access to record details
- perform a search using first name or last name

6.9.2 PHP script

Location

/var/www/html/aastra/asterisk/contacts.php

Parameters

user=XXX [Mandatory]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

source=YYY [Optional]

where YYY is the name of the csv file to use, this file must be stored in the cache directory (/var/cache/aastra) which is the default location or at the location configured in asterisk.conf, be named YYY.txt and be accessible to linux user asterisk in read mode. This parameter is optional; the default value is 'contacts'.

¹ Not available for non-softkey phones.



6.9.3 Configuration

• uri

http://XML_SERVER/aastra/asterisk/contacts.php

?user=\$\$SIPUSERNAME\$\$

6.9.4 Configuration files

The Contacts application uses the following configuration files

server.conf

General tag, location of the cache directory and language

asterisk.conf

- DialPlan tag, all parameters
- SpeedDial tag, all parameters
- Contacts, all parameters

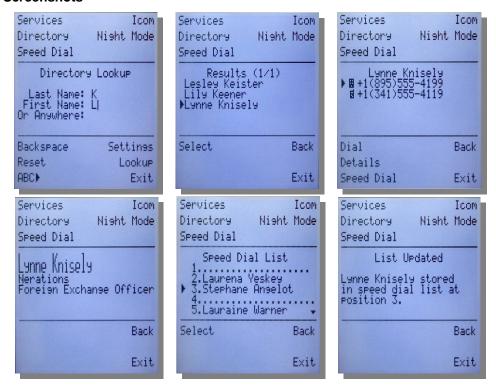
6.9.5 CSV file format

The CSV file must respect the following format:

```
First name, Last name, Company, Title, Work, Home, Mobile
```

The application is provided with a sample database '/var/cache/aastra/contacts.txt' where all the fields have been randomly generated.

6.9.6 Screenshots



6.9.7 Comments

On the phones without softkeys (51i/53i/9143i/6730i/6731i), the user cannot access to the speed dial feature from this application.



6.10 Speed Dial

This application allows a user to manage a list of 30 (2.4.1) or 15 (1.4.3) sped dial entries. Each speed dial entry can handle up to 4 numbers (work, home, mobile or other). The speed dial list is stored on the server. The user can:

- Create an entry
- · Modify an entry
- Delete an entry

This application is linked to the Directory and Contacts applications as you can create a speed dial entry directly it (phones with softkeys only).

6.10.1 Phone Compatibility

All Aastra phones with softkeys

- Aastra480i/480iCT
- Aastra9480i/9480iCT
- Aastra6755i/6757i/6757iCT

6.10.2 PHP script

Location

/var/www/html/aastra/asterisk/speed.php

Parameters

user=XXX [Mandatory]

where XXX is the context (cache in /var/cache/aastra) where the speed dial list is stored, usually it is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

mode=YYY [Optional]

where YYY is either static or dynamic. In static mode the user cannot edit the speed dial list, this mode can be used for a global central speed dial.

6.10.3 Configuration

• uri

http://XML_SERVER/aastra/asterisk/speed.php?user=\$\$SIPUSERNAME\$\$

6.10.4 Configuration files

The Directory application uses the following configuration files

server.conf

General tag, language

asterisk.conf

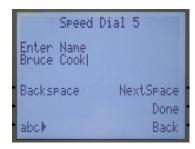
SpeedDial tag, all parameters



6.10.5 Screenshots







6.10.6 Comments

The speed dial list is stored on the cache directory on the server.

6.11 SugarCRM

This application allows a user to access to the SugarCRM contact numbers (work, mobile, home or other). The lookup is made based on the first letters of the last name, the results are presented as lists of 15 (1.4.3) or 30 (2.4.1) items per page.

From there, the user can dial the contact using one of his numbers.

6.11.1 Phone Compatibility

All phones running 2.x firmware and 480i/480iCT

- Aastra480i/480iCT
- Aastra9480i/9480iCT
- Aastra6751i/6753i/6755i/6757i/6757iCT
- Aastra6730i/Aastra6731i

6.11.2 PHP script

Location

/var/www/html/aastra/asterisk/sugarCRM.php

Parameters

None

6.11.3 Configuration files

The SugarCRM application uses the following configuration files

server.conf

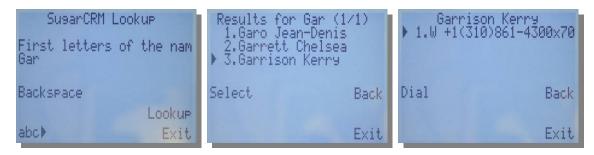
General tag, language

asterisk.conf

DialPlan tag, all parameters



6.11.4 Screenshots



6.11.5 Comments

This XML application works only if sugarCRM is installed and configured.

6.12 Parking

This application allows a user to access to the list of parked calls on the platform and perform a pickup.

Another part of this application is to display the parking orbit used by Asterisk after the call is parked. This second application is available only on the Aastra67i and 9i family.

If the key supporting the application has a LED, this LED will slow flash to indicate that at least one call is currently parked. The list of users having this feature is configurable see chapter 8.2 for more details.

6.12.1 Phone Compatibility

All Aastra Phones

BUT no LED for Aastra 9112i/9133i/480i/480iCT/9480i/9480iCT

6.12.2 PHP script

Location

/var/www/html/aastra/asterisk/park.php

Parameters

• user=XXX [Mandatory for 9112i/9133i]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

6.12.3 Configuration

Aastra 9112i/9133i/480i/480iCT

action uri onhook:

http://XML_SERVER/aastra/asterisk/onhook.php ?user=\$\$SIPUSERNAME\$\$ &number=\$\$REMOTENUMBER\$ &name=\$\$INCOMINGNAME\$\$

 uri http://XML_SERVER/aastra/asterisk/park.php

?user=\$\$SIPUSERNAME\$\$

Aastra 51i

As the Aastra6751i does not have any softkey, the Park application is available only through the 'Services' key.



· action uri onhook:

http://XML_SERVER/aastra/asterisk/onhook.php

?user=\$\$SIPUSERNAME\$\$
&number=\$\$REMOTENUMBER\$
&name=\$\$INCOMINGNAME\$\$

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php

?action=register
&user=\$\$SIPUSERNAME\$\$

action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php

?action=check
&user=\$\$SIPUSERNAME\$\$

action uri poll interval: 1800

· action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php

?action=notify
&user=\$\$SIPUSERNAME\$\$

xml application uri

http://XML_SERVER/aastra/menu/mymenu.php

?menu_source=menu2
&menu_user=\$\$SIPUSERNAME\$\$
&user=\$\$SIPUSERNAME\$\$

Aastra 53i/55i/57i/57iCT, 9143i/9480i/9480iCT and 6730i/6731i

action uri onhook:

http://XML_SERVER/aastra/asterisk/onhook.php

?user=\$\$SIPUSERNAME\$\$
&number=\$\$REMOTENUMBER\$
&name=\$\$INCOMINGNAME\$\$

action uri registered:

http://XML_SERVER/aastra/asterisk/sync.php

?action=register
&user=\$\$SIPUSERNAME\$\$

action uri poll:

http://XML_SERVER/aastra/asterisk/sync.php

?action=check
&user=\$\$SIPUSERNAME\$\$

• action uri poll interval: 1800

action uri xml sip notify:

http://XML_SERVER/aastra/asterisk/sync.php

?action=notify
&user=\$\$SIPUSERNAME\$\$

uri

http://XML_SERVER/aastra/asterisk/park.php

?user=\$\$SIPUSERNAME\$\$

6.12.4 Configuration files

The Parking application uses the following configuration files

server.conf

o General tag, language

asterisk.conf

Parking tag, all parameters

6.12.5 Screenshots





6.12.6 Comments

This application works only if the parking lot has been configured using FreePBX (see chapter 2.3.2.3 for details on the configuration).

The second part of this application is handled by the action uri onhook.

6.13 MP3 Player

This application allows a user to select and play MP3 files stored on the server. A default free of right MP3 file is provided with the package.

6.13.1 Phone Compatibility

Aastra phones with softkeys

Aastra480i/480iCT

Aastra9480i/9480iCT

6.13.2 PHP script

Location

/var/www/html/aastra/asterisk/music.php

Parameters

user=XXX [Mandatory]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

6.13.3 Configuration

action uri onhook:

http://XML_SERVER/aastra/asterisk/onhook.php ?user=\$\$SIPUSERNAME\$\$

&number=\$\$REMOTENUMBER\$ &name=\$\$INCOMINGNAME\$\$

uri

http://XML_SERVER/aastra/asterisk/music.php ?user=\$\$SIPUSERNAME\$\$

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6.13.4 Configuration files

List of directories with MP3 files

/var/www/html/aastra/config/asterisk.conf

File indexing

Each time the list of directories is modified or MP3 files are added or deleted from the monitored directories, the files must be reindexed. This is done using the following commands.

- Logged as root on the console
- cd /var/www/html/aastra/asterisk
- php genMP3.php



6.13.5 Screenshots





6.13.6 Comments

The MP3 files can be played only if they have been indexed and if they have minimum ID3 tags embedded (title and artist).

Back

Next

Exit

Some MP3 files might not be supported by the MP3 player used (mpg123).

The index file is located on the cache directory (/var/cache/aastra).

6.14 ACD Agent login/logout

This application allows a user to login/logout to an ACD queue.

Agents can be:

- Static, configured as a permanent agent to one or multiple queues. This configuration is done via FreePBX. When an agent is static for a given queue, he can not logout from this queue, he can just pause and unpause.
- Dynamic, agent has the capability to login/logout to any ACD queue configured on the platform. Some queues can be password protected.



Note: the application does not support the agents declared in /etc/asterisk/agent.conf.

6.14.1 Phone Compatibility

All Aastra phones.

BUT no LED for Aastra 9112i/9133i/480i/480iCT/9480i/9480iCT

6.14.2 PHP script

Location

/var/www/html/aastra/asterisk/agent.php

<u>Parameters</u>

agent=XXX [Mandatory]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

Notes:



- only <u>one instance</u> of this script per phone is supported
- the LED key is automatically detected when the phone registers after a reboot.



6.14.3 Configuration

• uri

http://XML_SERVER/aastra/asterisk/agent.php

?agent=\$\$SIPUSERNAME\$\$

6.14.4 Configuration files

The ACD agent login/logout application uses the following configuration files server.conf

o General tag, language

6.14.5 Screenshots



6.14.6 Comments

'deviceanduser' mode

Agent connection status is shared between the devices supporting the same user

6.15 ACD Queue monitoring

This application allows a user to monitor the ACD queues configured on the server. For each queue, the user can access to basic statistics as well as details on logged agents.

6.15.1 Phone Compatibility

All Aastra phones with softkeys.

6.15.2 PHP script

Location

/var/www/html/aastra/asterisk/queues.php

Parameters

No parameter

6.15.3 Configuration

• uri

http://XML_SERVER/aastra/asterisk/queues.php



6.15.4 Configuration files

The Queues application uses the following configuration files

server.conf

o General tag, language

6.15.5 Screenshots



6.16 Action uri registered

The action uri registered is triggered when the phone registers to the SIP proxy server. In this implementation, it is used to synchronize the phone status after a reboot for:

- DND
- Call forward
- Day/Night
- Presence
- ACD Agent

This synchronization is needed because after a reboot, the phone loses is idle screen message status and the LED status.

Location

/var/www/html/aastra/asterisk/sync.php

Parameters

- action=register [Mandatory]
- user=AAA [Mandatory]

where AAA is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

6.17 Action uri poll

The action uri poll is triggered when the configured timer expires (action uri poll interval). In this implementation, it is used to synchronize the phone status on a periodic basis for:

- DND
- Call forward



- Day/Night
- Presence
- ACD Agent

This synchronization is needed because the status for each application might be changed on the server side by other means than the XML application.

Location

/var/www/html/aastra/asterisk/sync.php

Parameters

action=check [Mandatory]user=AAA [Mandatory]

where AAA is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

6.18 Action uri xml sip notify

The action uri xml sip notify is triggered when the phone receives an aastra-xml notify event from the Asterisk server. In this implementation, it is used to propagate the phone status on multiple devices for:

- DND
- Call forward
- Day/Night
- Presence
- ACD Agent
- Parking
- Voice mail

as well as to push a new phone configuration when a user logs in/out from a device in the 'deviceanduser' mode.

Location

/var/www/html/aastra/asterisk/sync.php

Parameters

action=notify [Mandatory]user=AAA [Mandatory]

where AAA is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there.

6.19 Action uri incoming

The action uri incoming is triggered when the phone receives an incoming call (SIP INVITE). In this implementation it is used to intercept an incoming call for the following applications:

- The Visual voice mail
- The MP3 Player.

Location



/var/www/html/aastra/asterisk/incoming.php

Parameters

- user=AAA [Mandatory]
 where AAA is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$
 should be used there.
- name=BBB [Mandatory]
 where BBB is the callerID name of the incoming call, variable \$\$INCOMINGNAME\$\$ must
 be used there.
- number=CCC [Mandatory]
- where CCC is the callerID of the incoming call, variable \$\$REMOTENUMBER\$\$ must be used there.

6.20 Action uri onhook

The action uri onhook is triggered at the end of a communication. In this implementation, it is used to give control back to XML for the following applications:

- The Visual voice mail
- The MP3 Player
- Parking orbit display
- The Temporary Record for the Presence application

Location

/var/www/html/aastra/asterisk/onhook.php

<u>Parameters</u>

- user=AAA [Mandatory]
 where AAA is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$
 should be used there.
- name=BBB [Mandatory]
 where BBB is the callerID name of the incoming call, variable \$\$INCOMINGNAME\$\$ must
 be used there.
- number=CCC [Mandatory]

where CCC is the callerID number of the incoming call, variable \$\$REMOTENUMBER\$\$ must be used there.

6.21 Action uri outgoing

The action uri outgoing is triggered when the phone starts to dial a number (sends a SIP INVITE). In this implementation, it is used to display the name of the called party if it is an extension of the PBX, extra information on presence status is displayed as well.

Location

/var/www/html/aastra/asterisk/outgoing.php

Parameters

• number=AAA [Mandatory]

where AA is the dialed number, variable \$\$REMOTENUMBER\$\$ must be used there.

This internal directory lookup is configurable in asterisk.conf (see chapter 8.2 for more details)



7 Media applications

On top of Asterisk related applications, aastra-xml-scripts package also contains some media and information XML applications:

- Area code
- Ask Google
- Biorhythms
- Currency converter
- CNN News
- ESPN News
- Fox News
- Horoscope

- Local Weather
- Netflix
- Movies
- Stock
- Today...
- World Clock
- Yahtzee

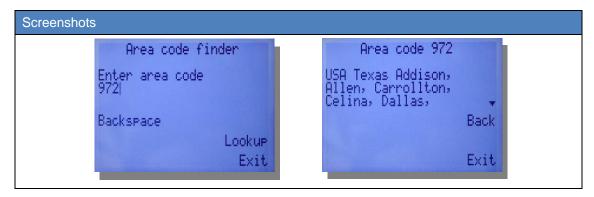
These XML applications can be configured individually on a phone key or as a global menu.

In this chapter XML_SERVER represents the IP address or name of the server

7.1 US Area code lookup

Description					
Thi	This application allows the user to lookup for the State/Cities of any given area code.				
Ph	one compatibility				
✓	Aastra9112i	✓	Aastra6751i		
✓	Aastra9133i	✓	Aastra6753i		
✓	Aastra480i/480iCT	✓	Aastra6755i		
✓	Aastra9143i	✓	Aastra6757i/6757iCT		
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i		
PH	P script				
Location /var/www/html/aastra/area/area.php Parameters None					
Со	Configuration				
	• uri http://XML_SERVER/aastra/area/area.php				





7.2 Ask Google

Description

This application allows the user to ask a general question to Google.com. Please refer to http://www.google.com/sms for more details.

Questions

- 1 USD in Euro
- Define TCP
- Movies 90210
- · Translate bread in French
- ...

Ph	Phone compatibility						
✓	Aastra9112i	✓	Aastra6751i				
✓	Aastra9133i	✓	Aastra6753i				
✓	Aastra480i/480iCT	✓	Aastra6755i				
✓	Aastra9143i	✓	Aastra6757i/6757iCT				
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i				

PHP script

Location

/var/www/html/aastra/google/google.php

Parameters

user=XXX [Optional]

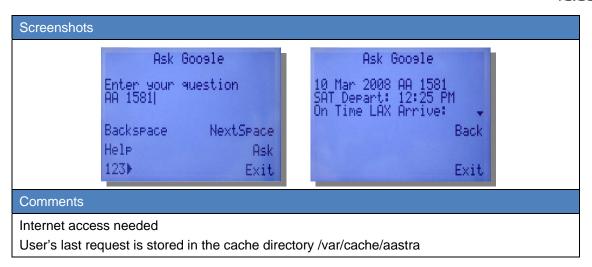
where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there. If not provided, the MAC address of the phone is used.

Configuration

uri

http://XML SERVER/aastra/qoogle/google.php?user=\$\$SIPUSERNAME\$\$





7.3 **Biorhythms**

De	Description					
Ch	Check your Biorhythms.					
Ph	Phone compatibility					
×	Aastra9112i	✓	Aastra6751i			
×	Aastra9133i	✓	Aastra6753i			
×	Aastra480i/480iCT	✓	Aastra6755i			
✓	Aastra9143i	✓	Aastra6757i/6757iCT			
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i			
PH	PHP script					
Lo	Location /var/www/html/aastra/games/biorhythms.php					

Parameters

user=XXX [Optional]

where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there. If not provided, the MAC address of the phone is used.

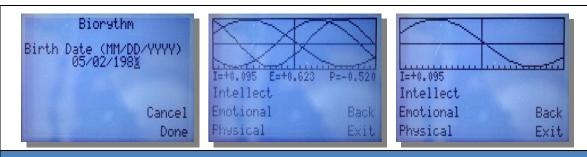
Configuration

uri

http://XML_SERVER/aastra/games/biorhythms.php?user=\$\$SIPUSERNAME\$\$

Screenshots





Comments

User's birth date is stored on the server.

Only phones with graphical display (55i/57i and 57iCT) will display the charts

PHP-GD extension is needed for this XML script.

7.4 Currency Converter

Description

This application uses www.yahoo.com to convert any currency in to another currency. It also allows the user to setup a list of favorite conversions.

Ph	Phone compatibility					
×	Aastra9112i	×	Aastra6751i			
×	Aastra9133i	×	Aastra6753i			
×	Aastra480i/480iCT	<	Aastra6755i			
×	Aastra9143i	~	Aastra6757i/6757iCT			
✓	Aastra9480i/9480iCT	×	Aastra6730i/6731i			

PHP script

Location

/var/www/html/aastra/stock/currency.php

Parameters

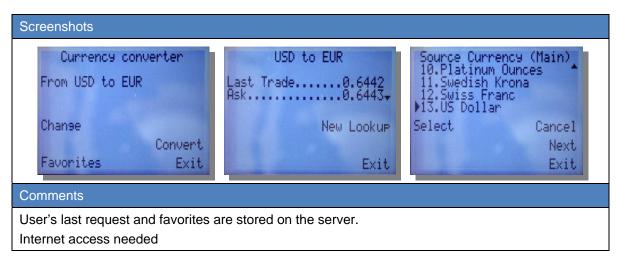
user=XXX [Optional]
 where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$
 should be used there. If not provided, the MAC address of the phone is used.

Configuration

• uri

http://XML_SERVER/aastra/stock/currency.php?user=\$\$SIPUSERNAME\$\$





7.5 CNN News

Description

RSS feed from CNN.com including the following topics:

- Top Stories
- World
- U.S.
- Politics
- Law
- Technology
- Science and Space
- Health

- Entertainment
- Travel
- Education
- Video
- Offbeat
- Most Popular
- Most Recent

Ph	Phone compatibility						
✓	Aastra9112i	✓	Aastra6751i				
✓	Aastra9133i	✓	Aastra6753i				
✓	Aastra480i/480iCT	✓	Aastra6755i				
✓	Aastra9143i	✓	Aastra6757i/6757iCT				
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i				

PHP script

Location

/var/www/html/aastra/rss/rss.php

Parameters

feed=XXX [Mandatory]
 where XXX is the name of the RSS configuration file to use



Configuration

ur

http://XML_SERVER/aastra/rss/rss.php?feed=cnn

Screenshots



Top Stories
found in U.S. drinking*
Oli Prices soar
Consumers Pinch
Pennies to Pay for gas.
Select Back
Exit

Consumers Pinch
Pennies to Pay for

New Yorker Evelyn
Molina used to spend a +

Back
Previous Next
Exit

Comments

Internet access needed

RSS feed files are cached in the cache directory /var/cache/aastra

7.6 ESPN News

Description

RSS feed from ESPN.com bringing news for the most popular sports in North America.

- Top Headlines
- NFL
- NBA
- MLB
- NHL

- Motorsports
- Soccer
- College Basketball
- College Football

Phone compatibility

✓	Aastra9112i	✓	Aastra6751i
✓	Aastra9133i	<	Aastra6753i
✓	Aastra480i/480iCT	✓	Aastra6755i
✓	Aastra9143i	✓	Aastra6757i/6757iCT
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i

PHP script

Location

/var/www/html/aastra/rss/rss.php

Parameters

feed=XXX [Mandatory]
 where XXX is the name of the RSS configuration file to use





7.7 FOX News

De	Description					
RS	S feed from foxnews.com including the follow	wing	topics:			
	Latest Headlines		Business			
	National		SciTech			
	• World		Health			
	• Politics		Entertainment			
Ph	one compatibility					
✓	Aastra9112i	✓	Aastra6751i			
✓	Aastra9133i	✓	Aastra6753i			
✓	Aastra480i/480iCT	✓	Aastra6755i			
✓	Aastra9143i	✓	Aastra6757i/6757iCT			
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i			
PH	P script					
Location /var/www/html/aastra/rss/rss.php Parameters • feed=XXX [Mandatory] where XXX is the name of the RSS configuration file to use						
Со	nfiguration					
	• uri http://XML_SERVER/aastra/rss/	rss	.php?feed=foxnews			



Comments

Internet access needed

RSS feed files are cached in the cache directory /var/cache/aastra

7.8 Horoscope

Description

RSS feed from astrosage.com providing a daily horoscope.

Phone compatibility ✓ Aastra6751i ✓ Aastra9133i ✓ Aastra6753i ✓ Aastra480i/480iCT ✓ Aastra6755i ✓ Aastra9143i ✓ Aastra6757i/6757iCT ✓ Aastra9480i/9480iCT ✓ Aastra6730i/6731i

PHP script

Location

/var/www/html/aastra/rss/rss.php

Parameters

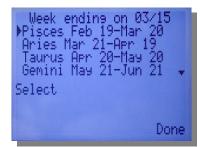
feed=XXX [Mandatory]
 where XXX is the name of the RSS configuration file to use

Configuration

• uri

http://XML_SERVER/aastra/rss/rss.php?feed=horoscope

Screenshots





Comments

Internet access needed

RSS feed files are cached in the cache directory /var/cache/aastra



7.9 Movies

Description

RSS feed from Yahoo.com including the following topics:

- · Opening This Week
- Coming Soon
- Weekend Box Office
- News & Gossip

- Top Selling DVDs
- New on DVD This Week
- New on DVD Next Week
- DVDs Available for Pre-Order

Phone compatibility						
>	Aastra9112i	✓	Aastra6751i			
<	Aastra9133i	<	Aastra6753i			
<	Aastra480i/480iCT	✓	Aastra6755i			
<	Aastra9143i	✓	Aastra6757i/6757iCT			
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i			

PHP script

Location

/var/www/html/aastra/rss/rss.php

<u>Parameters</u>

feed=XXX [Mandatory]
 where XXX is the name of the RSS configuration file to use

Configuration

uri

http://XML_SERVER/aastra/rss/rss.php?feed=movies

Screenshots



Comments

Internet access needed

RSS feed files are cached in the cache directory /var/cache/aastra



7.10 Netflix

Description

RSS feed from netflix.com including the following topics:

- Top 100
- New Releases
- Action/adventure Top 25
- Comedy Top 25
- Drama Top 25

- Horror Top 25
- Sci-Fi Top 25
- Television Top 25
- Thrillers Top 25

-				4.11 .1114	
-	ററ	na.	comi	oatibilit [,]	V/
	IU	ш	COLLI	Jaubilli	v

✓	Aastra9112i	✓	Aastra6751i
✓	Aastra9133i	✓	Aastra6753i
✓	Aastra480i/480iCT	✓	Aastra6755i
✓	Aastra9143i	✓	Aastra6757i/6757iCT
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i

PHP script

Location

/var/www/html/aastra/rss/rss.php

Parameters

feed=XXX [Mandatory]
 where XXX is the name of the RSS configuration file to use

Configuration

uri

http://XML SERVER/aastra/rss/rss.php?feed=netflix

Screenshots







Comments

Internet access needed

RSS feed files are cached in the cache directory /var/cache/aastra



7.11 Stock Quotes

Description

This application uses www.yahoo.com to get the value of any given stock. Please refer to yahoo.com for the syntax of the stock ticker.

Ph	Phone compatibility						
✓	Aastra9112i	✓	Aastra6751i				
✓	Aastra9133i	~	Aastra6753i				
✓	Aastra480i/480iCT	~	Aastra6755i				
✓	Aastra9143i	~	Aastra6757i/6757iCT				
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i				

PHP script

Location

/var/www/html/aastra/stock/stock.php

Parameters

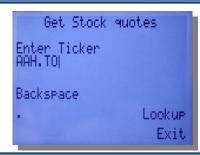
- user=XXX [Optional]
- where XXX is the extension of the phone on the platform, variable \$\$SIPUSERNAME\$\$ should be used there. If not provided, the MAC address of the phone is used.

Configuration

uri

http://XML_SERVER/aastra/stock/stock.php?user=\$\$SIPUSERNAME\$\$

Screenshots





Comments

Internet access needed

User's last request is stored in the cache directory /var/cache/aastra.

Only the phones with softkeys can access to the watch list.

7.12 Today...

Description

RSS feed from answers.com including the following topics:



- Word of the Day
- Birthdays today
- This day in History
- · Quote of the Day

Ph	Phone compatibility					
✓	Aastra9112i	✓	Aastra6751i			
✓	Aastra9133i	<	Aastra6753i			
✓	Aastra480i/480iCT	~	Aastra6755i			
✓	Aastra9143i	~	Aastra6757i/6757iCT			
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i			

PHP script

Location

/var/www/html/aastra/rss/rss.php

Parameters

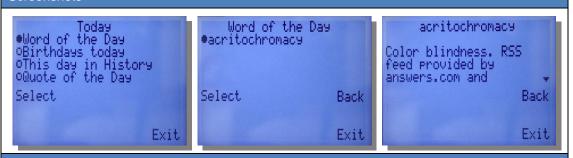
feed=XXX [Mandatory]
 where XXX is the name of the RSS configuration file to use

Configuration

uri

http://XML_SERVER/aastra/rss/rss.php?feed=day

Screenshots



Comments

Internet access needed

RSS feed files are cached in the cache directory /var/cache/aastra

7.13 US Local Weather

Description			
RSS feed from rssweather.com providing weather forecast for any given US ZIP code			
Phone compatibility			
✓	Aastra9112i	✓	Aastra6751i
✓	Aastra9133i	✓	Aastra6753i



✓	Aastra480i/480iCT	✓	Aastra6755i		
✓	Aastra9143i	✓	Aastra6757i/6757iCT		
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i		
PH	IP script				
Location /var/www/html/aastra/weather/weather.php Parameters None					
Со	nfiguration				
	uri http://XML_SERVER/aastra/weather/weather.php				
Sc	Screenshots				
7	US Local Weather Enter ZIP code 75034 Backspace Cancel Done Frisco, Texas Weather ©Currently ORest Of Today Mostly cloudy. Highs in the lower 60s. Light and variable Frisco, Texas Weather Rest Of Today Mostly cloudy. Highs in the lower 60s. Light and variable Frevious Next Done				
Comments					
Internet access needed RSS feed files (for each zip code) are cached in the cache directory /var/cache/aastra User's last request is stored in the cache directory /var/cache/aastra					

7.14 World Clock

Description Date and time from around the world using www.timeanddate.com. It allows the user to define a list of favorite cities for quick access. Phone compatibility Aastra9112i Aastra6751i Aastra9133i Aastra6753i Aastra480i/480iCT Aastra6755i Aastra9143i Aastra6757i/6757iCT Aastra9480i/9480iCT Aastra6730i/6731i PHP script Location /var/www/html/aastra/clock/clock.php **Parameters**



None

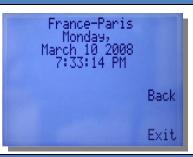
Configuration

• uri

http://XML_SERVER/aastra/clock/clock.php

Screenshots





Comments

Internet access needed

Favorites list is stored in the cache directory /var/cache/aastra

Only phones with softkeys can create create the favorites list.

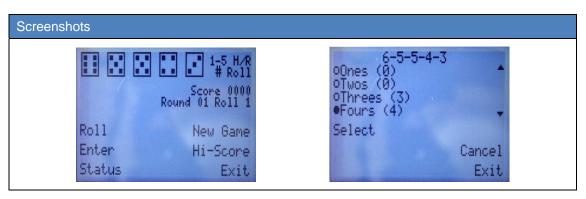
7.15 Yahtzee

uri

Description				
A Yahtzee game				
Phone compatibility				
×	Aastra9112i	×	Aastra6751i	
×	Aastra9133i	×	Aastra6753i	
×	Aastra480i/480iCT	✓	Aastra6755i	
×	Aastra9143i	✓	Aastra6757i/6757iCT	
×	Aastra9480i/9480iCT	×	Aastra6730i/6731i	
PHP script				
Location /var/www/html/aastra/games/yahtzee.php Parameters None				
Configuration				

http://XML_SERVER/aastra/games/yahtzee.php





7.16 Global menu

Description

This application is an XML application agragator. It can be configured as an XML key or as the XML custom menu behind the "Services" key (not available on 9112i, 9133i, 9143i, 51i and 53i).

Phone compatibility			
✓	Aastra9112i	✓	Aastra6751i
✓	Aastra9133i	✓	Aastra6753i
✓	Aastra480i/480iCT	✓	Aastra6755i
✓	Aastra9143i	✓	Aastra6757i/6757iCT
✓	Aastra9480i/9480iCT	✓	Aastra6730i/6731i

PHP script

Location

/var/www/html/aastra/menu/mymenu.php

Parameters

- menu_source=XXX [Optional]
- where XXX is the name of the menu configuration file located at /var/www/html/menu. If omitted, the default value is 'all'.

Configuration

• uri

http://XML_SERVER/aastra/menu/mymenu.php?menu_source=menu1

Screenshots





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Comments

User menu is stored in the cache directory /var/cache/aastra

Only Aastra phones with softkeys are able to customize the list of applications.

The configuration file with the list of applications behind the 'menu' key is /var/www/html/aastra/menu/menu1.menu



8 Appendix A: Configuration files

The general configuration files are located in the /var/www/html/aastra/config directory.

These files can be changed dynamically, no reboot needed.

8.1 server.conf

This file includes configuration parameters for the XML server.

```
# server conf
# Configuration file for Aastra XML scripts
# Version: 2.2.1
# Copyright 2009 Aastra Telecom Ltd
[General]
# Public IP address (optional), if not provided $_SERVER['HTTP_HOST'] is used
# Path for the Aastra cache directory (optional), if not provided /var/cache/aastra is
used. Do not use '\' for Windows implementation.
# Path for the TFTP root directory (optional) if not provided /tftpboot is used. Do not use
'\' for Windows implementation.
tftp=
# Path for the XML directory behind the HTTP Server (optional), default is xml
xmldirectory=aastra
# Mode DEBUG (0 or 1), default is 0
debuq=
# Mode TRACE (0 or 1), default is 0
# Forced language (optional), can be en, de, fr...
language=
```

When activated, the traces and debug files are stored in files located in the 'cache' directory (by default /var/cache/aastra) indexed by the date, a daily file is generated.

8.2 asterisk.conf

This file includes configuration parameters for

- The asterisk application
 - o SIP proxy IP address,
 - SIP registrar IP address,
- · The self-configuration
 - o default profile to use (.prf files located in /var/www/html/aastra/asterisk)
 - email addresses to send the hot desking event
 - identity of the email sender
 - Authentication mode
 - Using the user voicemail password (default)
 - Using a platform password



- Custom profiles for self-configuration
- The server dial plan (used by the sugarCRM application)
 - o country code,
 - long distance prefix
 - international prefix
 - outgoing prefix
- The directory with the list of extensions you want to keep secret
- The daynight application with the list of users having the application on their phone as as the list of users being notified on their phone.
- The MP3 Player (list of directories with MP3 files for indexing)
- The Presence application (enabled or disabled)
- The Parking application (list of users not having the updated LED)
- The outgoing lookup application (enabled or disabled)
- The directory location of the CSV file for the CSV based contacts application

```
# asterisk.conf
# Configuration file for Aastra XML scripts
# Version: 2.2.1
# Copyright 2009 Aastra Telecom Ltd
# IP address or name of the proxy server (optional), if not provided
$_SERVER['SERVER_ADDR'] is used
# IP address or name of the registrar server (optional), if not provided
$_SERVER['SERVER_ADDR'] is used
registrar=
[Startup]
# Default Phone profile to use for self-configuration
profile=demo
# Email address to send the hot desking events (optional)
# Identity of the email sender (optional) if not provided, the sender is no-reply@proxy
# Authentication method (optional) custom numeric password (voice mail password used by
default)
# This section describes the custom profile to be used for self-configuration,
# the default profile will apply if user/device is not configured below.
# Syntax
# profile=List of user/device ranges using the profile separated by a
       comma (xxx,xxx-yyy,-yyy,xxx-)
# Example
  [Profiles]
  standard=200-249,251-299
   agent=300-
#
  special=250
```



```
[Profiles]
[Directory]
# List of extension ranges to be hidden separated by a comma (xxx,xxx-yyy,-yyy,xxx-)
[SpeedDial]
# Speed dial application enabled (1) or not(0), default is 1
enabled=1
# Index of the day/night service (0 by default)
index=
# List of users having the day/night application separated by a comma or ALL
appli=ALL
# List of users being notified for day/night changes separated by a comma (on top of the
ones with the application) or ALL
notify=ALL
[DialPlan]
# International country code
country=1
# Long distance prefix
long distance=1
# International prefix
international=011
# Outgoing prefix
outgoing=9
# List of the MP3 directories separated by a comma
directory=/var/cache/MP3
# Presence application enabled (1) or not(0), default is 1
enabled=
[Parking]
# List of users NOT being notified for park changes separated by a comma
exclude=
[Outgoing]
# Lookup application enabled (1) or not(0), default is 1
enabled=
# Directory location of the csv text file (default is the cache directory
/var/cache/aastra)
location=
```

This configuration is typical for an Asterisk server with a US dial plan.



Note: the email configuration works only if the server has Internet access and is configured with a SMTP relay server.

8.3 init.conf

This file includes the configuration parameters for the self-configuration application.



List of choices at the phone boot.

[Choice]

label Label to be displayed

uri uri to be called

Variables

\$\$AA_XML_SERVER_AA\$\$ IP address/name of the XML server

\$\$AA_XMLDIRECTORY_AA\$\$ Name of the xml directory

8.4 timezone.conf

This file includes the list of time zones the user will have to choose from for the self-configuration. It can be easily changed in order to limit the choice or to display your country as the first one in the list.



9 Appendix B: Description of the Files

Directory /File	Comment	
/etc/asterisk		
asterisk/extensions-away-status.conf	Presence context	
/var/cache/aastra		
contacts.php	Sample contact file	
music.cfg	Index file for MP3 player	
/var/cache/MP3		
Wild_Child.mp3	MP3 file sample	
/usr/local/sbin/		
setup-aastra-xml	aastra.cfg generator	
/var/lib/asterisk/agi-bin/		
user_login_out.agi	User login/logout	
record-temporary-message.php	Record temporary message	
/var/lib/asterisk/sounds/custom		
temporary-message-restricted.wav		
temporary-message-saved.wav		
vm-no-box.wav	Custom sound files	
vm-you-no-box.wav		
welcome-back.wav	1	
/var/www/html/aastra	Scripts Root Directory	
language.ini	Language configuration file	
/var/www/html/aastra/area		
area.php	Area code application	
area_codes.txt	Data file for area code application	
/var/www/html/aastra/asterisk		
aastra_daemon1	Daemon for Parking LED management	
aastra_daemon2	Daemon for VMail LED management	
agent.php	ACD Agent login/logout	
away.php	Presence application	
contacts.php	Contacts application	
cfwd.php	Call Forward	
daynight.php	Day/Night	
demo-device-nouser.prf	Profiles for self-configuration	
demo-device-user.prf	i romes for sen-configuration	



Directory /File	Comment
demo-user.prf	
directory.php	Directory
dnd.php	DND
genMP3.php	MP3 indexing tool
incoming.php	Incoming call handler
login.php	Login for device and user mode
logout.php	Logout
meetme.php	Meet-me
music.php	MP3 Player
notify.php	Presence notification
onhook.php	On hook handler
outgoing.php	Outgoing call handler
park.php	Parking lot
queues.php	Queue
read_context	Debug utility
startup.php	Self-configuration
sugarCRM.php	Sugar CRM
sync.php	Synchronization handler
vmail.php	Visual voice-mail
/var/www/html/aastra/clock/	
clock.ini	Data file for world clock application
clock.php	World clock
/var/www/html/aastra/config/	
init.conf	Config file for self-configuration
server.conf	Server config file
asterisk.conf	Asterisk config file
timezone.conf	List of timezones
/var/www/html/aastra/games/	
yahtzee.php	Yahtzee game
biorhythm.php	Biorhythms
/var/www/html/aastra/google/	
google/google.php	Ask Google
/var/www/html/aastra/include/	
AastraAsterisk.class.php	Asterisk includes



Directory /File	Comment
AastraAsterisk.php	
AastraCommon.php	Common Aastra functions
AastraIPPhone.class.php	
AastraIPPhoneConfiguration.class.php	
AastraIPPhoneConfigurationEntry.class.php	
AastraIPPhoneDirectory.class.php	
AastraIPPhoneDirectoryEntry.class.php	
AastralPPhoneExecute.class.php	
AastraIPPhoneExecuteEntry.class.php	
AastraIPPhoneFormattedTextScreen.class.php	
AastraIPPhoneFormattedTextScreenEntry.class.php	
AastraIPPhoneGDImage.class.php	
AastraIPPhonelconEntry.class.php	Apotro VMI, pho elegado
AastraIPPhoneImageMenu.class.php	Aastra XML php classes
AastraIPPhoneImageMenuEntry.class.php	
AastralPPhoneImageScreen.class.php	
AastralPPhoneInputScreen.class.php	
AastraIPPhoneInputScreenEntry.class.php	
AastraIPPhoneSoftkeyEntry.class.php	
AastraIPPhoneStatus.class.php	
AastraIPPhoneStatusEntry.class.php	
AastraIPPhoneTextMenu.class.php	
AastraIPPhoneTextMenuEntry.class.php	
AastraIPPhoneTextScreen.class.php	
class.id3.php	ID3 tag parser
htmlparser.inc	HTML parser
License.txt	License file
preg_find.php	Special function
RSS.class.php	RSS include
/var/www/html/aastra/startup/	
init.php	Self-configuration initiator
/var/www/html/aastra/menu/	
menu1.menu	Custom menu 1
menu2.menu	Custom menu 2



Directory /File	Comment
mymenu.php	Menu
/var/www/html/aastra/rss/	
cnn.rss	CNN feed
day.rss	Day feed
espn.rss	ESPN feed
fox.rss	FOX News feed
horoscope.rss	Daily horoscope
movies.rss	Movies feed
netflix.rss	Netflix feed
rss.php	RSS reader
/var/www/html/aastra/scripts/	
setup-xml	aastra.cfg generator
/var/www/html/aastra/stock/	
currency.php	Currency converter
stock.php	Stock quotes
/var/www/html/aastra/weather/	
weather.php	Local weather (US zip code)



10 Appendix C: RPM Spec file

```
Summary:
            Aastra Telecom XML scripts
Name:
             aastra-xml-scripts
Version:
            2.2.1
Release:
License: BSD type/GPL see License.txt
Group:
            System/Servers
BuildArch: noarch
Source0: %{name}-%{version}.tar.gz
BuildRoot: %{_tmppath}/%{name}-%{version}
Vendor:
                    Aastra Telecom
             www.aastratelecom.com
URT.:
Packager: support@aastra.com
Requires: mDNSResponder-util,aastra-ipphone >= 2.5.0,mpg123,php-gd
AutoReqProv: no
%description
PHP scripts which enable the Aastra Telecom SIP Phones XML browser to interact
with the asterisk features.
%prep
%setup -q -n %{name}-%{version}
%build
%install
install -d %{buildroot}/var/www/html/aastra
cp -r SCRIPTS/* %{buildroot}/var/www/html/aastra
install -d %{buildroot}/var/cache/aastra
cp -r INSTALL/cache/* %{buildroot}/var/cache/aastra
install -d %{buildroot}/var/cache/MP3
cp -r INSTALL/MP3/* %{buildroot}/var/cache/MP3
install -D INSTALL/scripts/setup-aastra-xml %{buildroot}/usr/local/sbin/setup-
aastra-xml
rename %{buildroot}/var/lib/asterisk/agi-bin/user_login_out.agi
%{buildroot}/var/lib/asterisk/agi-bin/user_login_out.agi.orig
install -D INSTALL/agi-bin/user_login_out.agi %{buildroot}/var/lib/asterisk/agi-
bin/user_login_out.agi
rename %{buildroot}/var/www/html/admin/modules/core/agi-bin/user_login_out.agi
%{buildroot}/var/www/html/admin/modules/core/agi-bin/user_login_out.orig
install -D INSTALL/agi-bin/user_login_out.agi
%{buildroot}/var/www/html/admin/modules/core/agi-bin/user_login_out.agi
install -D INSTALL/agi-bin/record-vm-greetings.php
%{buildroot}/var/lib/asterisk/agi-bin/record-vm-greetings.php
install -D INSTALL/asterisk/extensions-away-status.conf
%{buildroot}/etc/asterisk/extensions-away-status.conf
install -d %{buildroot}/var/lib/asterisk/sounds/custom
cp -r INSTALL/sounds/* %{buildroot}/var/lib/asterisk/sounds/custom
%post
```



```
if [ ! -f '/etc/asterisk/sip_notify.conf' ]
  touch /etc/asterisk/sip_notify.conf
  chown asterisk /etc/asterisk/sip_notify.conf
fi
res=`grep -c aastra-check-cfg /etc/asterisk/sip_notify.conf`
if [ $res -eq 0 ]
then
  cat >> /etc/asterisk/sip_notify.conf <<EOF</pre>
; Aastra check-sync
[aastra-check-cfg]
Event=>check-sync
Content-Length=>0
EOF
fi
res=`grep -c aastra-xml /etc/asterisk/sip_notify.conf`
if [ $res -eq 0 ]
then
  cat >> /etc/asterisk/sip_notify.conf <<EOF</pre>
; Aastra XML event
[aastra-xml]
Event=>aastra-xml
Content-Length=>0
EOF
fi
res=`grep -c extensions-away-status /etc/asterisk/extensions_custom.conf`
if [ $res -eq 0 ]
then
  cat >> /etc/asterisk/extensions_custom.conf <<EOF</pre>
#include extensions-away-status.conf
EOF
fi
res=`grep -c daemon.php /etc/rc.d/rc.local`
if [ $res -eq 1 ]
then
       sed '/daemon.php/d' /etc/rc.d/rc.local > /etc/rc.d/rc.local.temp
       mv /etc/rc.d/rc.local.temp /etc/rc.d/rc.local
fi
res=`grep -c aastra_daemon1 /etc/rc.d/rc.local`
if [ $res -eq 0 ]
then
 cat >> /etc/rc.d/rc.local <<EOF</pre>
/var/www/html/aastra/asterisk/aastra_daemon1&
EOF
fi
res=`grep -c aastra_daemon2 /etc/rc.d/rc.local`
if [ $res -eq 0 ]
then
  cat >> /etc/rc.d/rc.local <<EOF
/var/www/html/aastra/asterisk/aastra_daemon2&
EOF
fi
chmod +x /etc/rc.d/rc.local
asterisk -rx 'module reload'
/etc/rc.d/init.d/mDNSResponder restart
```



```
%postun
res=`grep -c extensions-away-status /etc/asterisk/extensions_custom.conf`
if [ $res -eq 1 ]
then
      sed '/extensions-away-status/d' /etc/asterisk/extensions_custom.conf >
/etc/asterisk/extensions_custom.conf.temp
      mv /etc/asterisk/extensions_custom.conf.temp
/etc/asterisk/extensions_custom.conf
fi
res=`grep -c daemon.php /etc/rc.d/rc.local`
if [ $res -eq 1 ]
then
      sed '/daemon.php/d' /etc/rc.d/rc.local > /etc/rc.d/rc.local.temp
      mv /etc/rc.d/rc.local.temp /etc/rc.d/rc.local
fi
res=`grep -c aastra_daemon1 /etc/rc.d/rc.local`
if [ $res -eq 1 ]
then
      sed '/aastra_daemon1/d' /etc/rc.d/rc.local > /etc/rc.d/rc.local.temp
      mv /etc/rc.d/rc.local.temp /etc/rc.d/rc.local
fi
res=`grep -c aastra_daemon2 /etc/rc.d/rc.local`
if [ $res -eq 1 ]
then
      sed '/aastra_daemon2/d' /etc/rc.d/rc.local > /etc/rc.d/rc.local.temp
      mv /etc/rc.d/rc.local.temp /etc/rc.d/rc.local
fi
chmod +x /etc/rc.d/rc.local
asterisk -rx 'module reload'
/etc/rc.d/init.d/mDNSResponder restart
%files
%defattr(755,asterisk,asterisk)
/etc/asterisk/extensions-away-status.conf
/var/cache/aastra
/var/cache/MP3
/usr/local/sbin/setup-aastra-xml
/var/lib/asterisk/agi-bin/user_login_out.agi
/var/lib/asterisk/agi-bin/record-vm-greetings.php
/var/lib/asterisk/sounds/custom
/var/www/html/aastra
/var/www/html/admin/modules/core/agi-bin/user_login_out.agi
%changelog
Fri Apr 02 2009 Aastra Support
- Release 2.2.1
- Dependency for firmware 2.5.0
- Visual voice mail LED management
- Greetings record via the Vmail application
- Localization in French, Spanish, German and Portuguese
- Bug fixes
* Fri Jan 19 2009 Aastra Support
- Release 2.2.0
- Dependency for firmware 2.4.1
- Presence application
- User login/logout to ACD
- Bug fixes
* Fri Sep 19 2008 Aastra Support
```



- Release 1.0.0

- Release 2.1.1 - Dependency for firmware 2.3.1 - Bug fixes (Visual voice mail) * Tue Sep 02 2008 Aastra Support - Release 2.1.0 - Support for 9143i, 9480i and 9480iCT - Device and User mode support - Additional scripts - Bug fixes * Sun Mar 16 2008 Aastra Support - Release 2.0.0 - Auto-Discovery and Self-Configuration - Visual Call Park - Day/night schedule control - Additional scripts * Fri Jun 1 2007 Aastra Support - Release 1.1.0 - Enhancements to CFWD and DND for 5i series phones - Additional scripts for RSS feed reader, weather, stock quotes, ask google, speed dial, Horoscopes and World Clock. * Mon Feb 19 2007 Aastra Support



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