



PBX End Point Manager Admin User Guide





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Overview of EPM

The PBX End Point Manager (EPM) on your phone system lets you manage external device settings such as Phones, Gateways and Overhead Paging Devices. With the EPM you can create templates defining the settings you want for a group of devices and then map extensions to use specific templates.

The following items are the main parts to the EPM:

- **Global Settings** - These are global settings that the EPM will use for all templates such as what the external and internal IP Addresses of your PBX are.
- **Extension Mapping** - This is where we map an extension on the phone system to a specific MAC address of a device and what template it will use to build the configuration files.
- **Per Brand Templates** - For each brand of devices you can create one or more templates that can be used to generate configuration files.
- **Image Management** - Here you can manage uploading images that you can use in any template that support phone side images.
- **Basefile Edit** - This section is for advanced users and should only be used with guidance from support. This allows you to change hard coded values of any template settings on any brand of phone. Many settings for a template are set to use hard coded default values but these can be changed in the base file edit on a per template basis. You can also add new config file values that we do not let you define in the Template Management for each brand.
- **Firmware Management** - The firmware management section is used to install and update firmware for each brand of phone that we support the firmware management in. You can choose which firmware version should be installed and it lets you install 2 different versions in slots 1 and slots 2. You can then choose on a per template basis which firmware slot to use for that template.
- **Network Scan** - Network Scan is software that will scan your network for all MAC address of all the devices we support and present you all MAC addresses for devices that are currently not mapped in Extension Mapping and let you map those MAC addresses automatically to any extension and template.

Getting Started

When you first log into EPM you will see a screen like this. On the right side we can see all of our sections as defined above.

EndPoint Manager is Currently BETA

EndPoint

Global Settings

Extension Mapping

Brands

Aastra

Algo

AND

Audiocodes

Cisco

Cyberdata

Digium

Grandstream

Mitel

Panasonic

Polycom

Sangoma

Snom

Yealink

Advanced

Image Management

Basefile Edit

Firmware Management

Network Scan

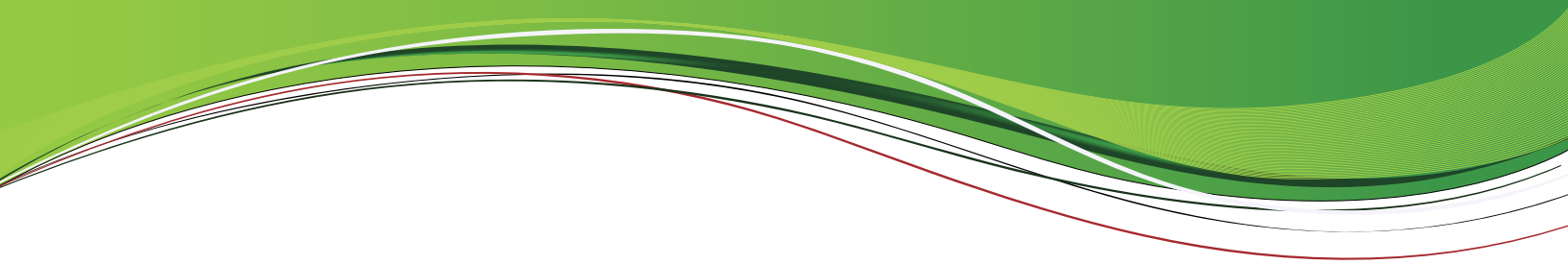
Global Settings

First, make sure we have some global settings set correct so choose the Global Settings option on the right.

EndPoint Manager is Currently BETA

Global Settings

| | |
|-------------------------|---|
| Internal IP Address: ? | <input type="text" value="10.10.0.1"/> |
| External IP Address: ? | <input type="text" value="ext.test.com"/> |
| Web Server Port: ? | <input type="text" value="2003"/> |
| HTTP Provision Port: ? | <input type="text" value="2004"/> |
| SIP Port: ? | <input type="text" value="5060"/> |
| Phone Admin Password: ? | <input type="text" value="222222"/> |
| Phone User Password: ? | <input type="text" value="111111"/> |



Internal IP- We need to set the Internal IP Address to be whatever the IP Address of the PBX is. We will use this later when creating a template. In our example this is set to 10.10.0.1 .

EndPoint Manager is Currently BETA

Global Settings

Internal IP Address: 

External IP- If we are going to have any phones connecting to the PBX outside your local network then make sure to define the External IP address or FQDN that will resolve to the External IP Address of your PBX. In our example we have set this to ext.test.com.

External IP Address: 

Web Server Port- If you are using Aastra phones with XML apps make sure you define what port XML is running on. By default this is port 2003 but you can change it in the Port Management section of your System Admin Module of your PBX.

Web Server Port: 

HTTP Provision Port- This is the port the phones config should be set if you are using HTTP provisioning for you phones. For PBXact or PBXetnded servers this port is defined based on what you setup in the Port Mapping section of Sysadmin and will automatically direct all traffic from this port to the folder that contains your phone configuration and firmware. For FreePBX systems you define the port but you will need to setup your http configuration to direct the traffic from this port to the /tftpboot directory. FreePBX has no ability to setup your http configuration for you.

HTTP Provision Port: 

SIP Port- Should be left at 5060 as this is the port we set all PBXs to use for SIP. This should not be changed unless directed by support.

SIP Port: 

Phone Admin Password- All phones that we support have a Phone Admin Password. You can set this password here and it will be used by all phones as the Admin password for logging into the Phone's Web GUI. You are required to use at least 6 characters for your password.

Phone Admin Password: 

Phone User Password- Some phones such as Cisco have both an Admin User and a Normal User. You need to first log in as a Normal User then Login as the Admin User. Here you can define the Password for the Normal User. You are required to use at least 6 characters for your password.

Phone User Password: 

Now that we have some global settings defined we can create templates for any brand of phone that we would like to connect to the PBX.

Per Brand Template Creation.

On the right side you will see a list of different brands of phones we support.



For each brand you can do the following:

- Create a "New Template" or "Import Template." The Import feature allows you to take a template you exported from another system and import it.

Templates

New Template

Import Template

- The middle section is a list of all current templates created and you can click on any of them to edit that template.

aastratest

sample

test2

Aastra Global Settings

(For PBXact and PBXtended Only, does not apply to FreePBX)

- Click on the Aastra option on the right side of the main EPM screen and we will see a screen like this:

EndPoint Manager is Currently BETA

New Aastra Template

On this page you can create templates for Aastra Phones

Templates

New Template

Import Template

aastratest

sample

test2

Global Aastra Options

Global Config

- The first thing we want to address is Global Configs. These are global options that relate to all Aastra templates and phones.

Global Aastra Options

Global Config

- You will now see the following options for Aastra Global Configs when viewing the Aastra template section:

Global Aastra Config Settings

Default Template:  sample ▼

Admin Password:  222222

No Voicemail Password:  1234

DHCP:  ☒ Enable DHCP
☐ Disable DHCP

Initial Startup Connection: 

Default Outgoing Image:  ▼

Debugging:  0

Trace: 0

- ☒ Internal IP (10.10.0.1)
☐ External IP (ext.test.com)
☐ Internal and External IP (Phone Button 1 will provision Internal, Button 2 will Provision External)

- **Default Template-** Aastra phones have the ability to log an extension in or out of a phone. If the extension you are logging in has not been mapped to a phone using the extension mapping in EPM then it will fall back to use the default template you choose here. By default when logging in a phone it will use the template that it has been mapped to if one has been mapped

Default Template: 

- **Admin Password-** All phones that we support have a Phone Admin Password. You can set this password here and it will be used by all phones as the Admin password for logging into the Phone's Web GUI. You are required to use at least 6 characters for your password. The Admin Password can be used to log in or out of an Aastra phone using the Logout button. By default you would use the voicemail password to login or logout but you can also use the Admin Password.

Admin Password: 


- **No Voicemail Password-** This is the password used to login or logout a phone if the extension does not have a voicemail box since the default is to use the voicemail password.

No Voicemail Password: 

- **DHCP-** If you want to globally enable or disable DHCP on Aastra phones. This should be set to "yes" in almost all cases.

DHCP:  ☒ Enable DHCP
☐ Disable DHCP

- **Debugging and Trace-** This is to enable debug and trace logging of the Aastra XML apps and should be set to 0 unless support asked for this to be changed because it will add a higher load to your PBX.

Debugging: 

Trace:

- **Initial Startup Connection-** If you connect an Aastra phone to your PBX without setting up Extension Mapping, the phone will display a login option. You can choose here if you want the login button to only connect to the Internal IP address, External IP Address or prompt the user with both options and let them choose. This is handy if you will have a phone that will travel between being at the office and at the user's home and want to let them log in between external or internal.

☒ Internal IP (10.10.0.1)
☐ External IP (ext.test.com)
☐ Internal and External IP (Phone Button 1 will provision Internal, Button 2 will Provision External)

- **Parking Notification-** By default all phones will be notified on the screen anytime a caller has been parked on the PBX and also if they have a Park Button programmed it will flash red. You can multi-select any users in the list to not be notified of a new Parked Call by another user. It is recommended on larger systems to not have more than 50 phones being notified of a park call.

Parking Notification: ?

| | |
|-----------------|--|
| 4000 (Luke 39i) | |
| 4101 (9480i) | |
| 4102 (9143i) | |
| 4103 (6731i) | |

- **Call Flow Control (0-9)**- If you have any Call Flow Controls setup on your PBX and you programmed the Call Flow Control in a Aastra Template here you can define which of the Call Flow Controls the user will see in their list. For each Call Flow Control you created, such as Call Flow Control 0, you can Multi-Select which extension will have the toggle displayed in the Call Flow Control Button.

Call Flow Control 0: ?

| | |
|-----------------|--|
| 4000 (Luke 39i) | |
| 4101 (9480i) | |
| 4102 (9143i) | |
| 4103 (6731i) | |

Call Flow Control 4: ?

| | |
|-----------------|--|
| 4000 (Luke 39i) | |
| 4101 (9480i) | |
| 4102 (9143i) | |
| 4103 (6731i) | |

- **Queue Settings**- If you have any queues setup on the PBX and you programmed a Queues Button in the Aastra template, here you can define which users are allowed to see and manage that Queue within their button. The Queue Button on the phone will display all queues that you have given that user to see.
- Make sure you press the submit button when done making changes.

Aastra Template Creation or Edit

(For FreePBX systems XML apps need to be defined with the full URL)

- Now that the Global Aastra options are setup we can create or edit a template. We will create a new template called Everyone by pressing the New Template Button.

EndPoint Manager is Currently BETA

New Aastra Template

On this page you can create templates for Aastra Phones

Remove

Export

Duplicate

Template Name: ? sample

Destination Address: ? 10.10.0.1 Internal External

Switch Focus to Ringing Line: ? Enable Disable

Auto Answer: ? Enable Disable

Mute Mic: ? Enable Disable

Allow Barge: ? Enable Disable

Auto Off Hook: ? Enable Disable

Call Stutter: ? Enable Disable



















- **Template Name-** Give your template a name such as Everyone.

Template Name:  Everyone

- **Destination Address-** Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address:  ☒ Internal ☐ External

- **UI Focus thru Time Server-** These are all options and preferences that you can set for the template. If you hover over the “?” it will explain what each option is for and you can choose what to set them to.

| | |
|---|---|
| Switch Focus to Ringing Line:  | <input checked="" type="radio"/> Enable <input type="radio"/> Disable |
| Auto Answer:  | <input checked="" type="radio"/> Enable <input type="radio"/> Disable |
| Mute Mic:  | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| Allow Barge:  | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| Auto Off Hook:  | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| Call Stutter:  | <input type="radio"/> Enable <input checked="" type="radio"/> Disable |
| Audio Mode:  | <input type="text" value="Speaker Only"/>  |
| DHSG Settings:  | <input type="radio"/> Enable <input type="radio"/> Disable |
| Timeout Length:  | <input type="text" value="4 Seconds"/>  |
| Tone Set:  | <input type="text" value="US/Canada"/>  |
| Time Zone:  | <input type="text" value="-06:00"/>  |
| Primary Time Server:  | <input type="text" value="time.schmoozecom.net"/> |
| Time Server 2:  | <input type="text" value="time1.schmoozecom.net"/> |
| Time Server 3:  | <input type="text" value="time2.schmoozecom.net"/> |

- **Background Image-** If you uploaded any background images you can pick which image you want this template to assign to any phone that supports background images.

Background Image:  

- **Provision Server Settings-** Here you define the IP Address of where the configuration files are located (which is usually the same as your Destination Address that you set above). You can then choose between TFTP or FTP. TFTP is the default that is most common. If you pick FTP, make sure you have FTP enabled in the System Admin module of your PBX and retrieve the username and password that you setup there.

Provision Server Address:  Server Address:

Provision Server Protocol: 

TFTP

FTP

HTTP

- **Available Phones-** You will now notice check boxes for each different model Aastra phone we support. You can select any model phone to have it bring up a list of options that you can program for each phone.

Available Phones







| | | | | | |
|-------|-------|---------|--------|-------|-------|
| 480i | 51i | 53i | 55i | 57i | 57iCT |
| 6731i | 6735i | 6737i | 6739i | 9112i | 9133i |
| 9143i | 9480i | 9480iCT | MBU400 | | |

- In our Example we are going to setup an Aastra 55i phone by selecting the check box next to that option. The first portion is the 6 Top Program keys on the 55i. The second portion is the bottom 20 softkeys for the Aastra 55i phone. We will see this screen:







Aastra 55i

Program Keys







Program Key 1

Type:  XML  Label:  Day-Night Value:  Day-Night  







Program Key 2

Type:  Intercom  Label:  Intercom Value:  Button 2 Value  







Program Key 3

Type:  XML  Label:  Tr-Vmail Value:  Tr-Vmail  







Program Key 4

Type:  Call List  Label:  Callers Value:  Button 4 Value  

Program Key 5

Type:  XML  Label:  Parking Value:  Parking  

Program Key 6

Type:  BLF/XFER  Label:  Mike john Value:  4003  

We are going to setup the following Top Program Keys

- Program Button 1- XML-Day-Night/Call Control App
- Program Button 2- Intercom
- Program Button 3- XML-Transfer to Voicemail App
- Program Button 4- Callers List
- Program Button 5- XML-Parked Callers App
- Program Button 6- BLF Extension 4003 Mike John

Aastra 55i

Program Keys

Program Key 1

Type: Label: Value:

Program Key 2

Type: Label: Value:

Program Key 3

Type: Label: Value:

Program Key 4

Type: Label: Value:

Program Key 5

Type: Label: Value:

Program Key 6

Type: Label: Value:

We are going to setup the following middle Soft Keys

- Soft Key 1- XML Do Not Disturb App
- Soft Key 2- XML Visual Voicemail App

Soft Key 1

Type: Label: Value:

Soft Key 2

Type: Label: Value:

- **Button Types**- For each button you can choose from the following types:
 - **BLF**- Busy Lamp Field allows you to program a button to monitor another extension. Anytime they are on a call the light by the button will be red. You can also press the button at anytime to call the user.
 - **BLF/XFER**- The same as BLF but while on a call you can transfer the active call to the extension of that BLF simply by pressing the BLF button.
 - **XML**- Aastra phones support a XML browser apps are included that can be used on the phone. Please see the XML User Guide for each each app and how they work.
 - **Speedial**- Allows you to program a number that when this button is pressed, will automatically be dialed for you.
 - **Intercom**- By pressing this button and then dialing an extension, the phone you are dialing will auto

answer on the speaker phone immediately instead of ringing.

- **Services**- The services button will take you to a page that list all XML apps that the phone supports. You can also navigate any XML app without having that specific XML App mapped to a button.
- **Call List**- This will give you a list of all missed and received calls to this phone while it is registered to the PBX.
- **Button Fields**- For each button you can define the following:
 - **Type**- Any of the above options such as BLF, XML, Speed Dial and such.
 - **Label**- If the button has a LCD display this will be displayed next to the button so you know what each button is for. (i.e. The person name or extension number).
 - **Value**- This is what will be dialed or in the case of a BLF which extension number we will monitor for that button.
- **Button States**- For each soft key style button you can also pick when the button is displayed depending on the state of the phone. The default is for all states to be selected and pressing the advanced option will let you change the state for each button.
 - **Idle**- This is the state of the phone when it has no call activity.
 - **Connected**- This is the state of the phone when it has an established call.
 - **Incoming**- This is the state of the phone when it is receiving an inbound call it has not answered yet.
 - **Outgoing**- This is the state of the phone when a user is placing an outbound call that has not been answered by the remote party yet.
 - **Busy**- This is the state of the phone when it is busy, such as navigating menus.

| Soft Key 1 | | | | | | |
|------------|--|---|--|--|--|----------|
| Type: ? | XML | Label: ? | DND | Value: ? | DND | Advanced |
| State: ? | <input checked="" type="checkbox"/> Idle | <input checked="" type="checkbox"/> Connected | <input checked="" type="checkbox"/> Incoming | <input checked="" type="checkbox"/> Outgoing | <input checked="" type="checkbox"/> Busy | |

- Once you setup your settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on it.
- **Expansion Module**- Aastra 6755 and 6757i both support Expansion modules 670 and 675. You can have a total of 3 expansion modules per phone. In this section we can setup the buttons on the Aastra 670 and 675. We let you define up to 3 different expansion module settings of each brand since the phones can support any 3 expansion modules daisy chained together. You will actually map what extensions use which expansion modules and what order they are in the Extension Mapping section

Available Expansion Modules

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 670-1 | 670-2 | 670-3 | 675-1 | 675-2 | 675-3 |
|-------|-------|-------|-------|-------|-------|

- We setup the Expansion Module buttons just like any other phone button.

Available Expansion Modules

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 670-1 | 670-2 | 670-3 | 675-1 | 675-2 | 675-3 |
|-------|-------|-------|-------|-------|-------|

Aastra 670-1

Program Keys

Program Key 1

Type: Label: Value:

Program Key 2

Type: Label: Value:

Program Key 3

Type: Label: Value:

Program Key 4

- When done do not forget to press the submit button at the bottom of the page.

Now that we have a template created and setup Expansion Module 670-1 we can go map a phone to use this template and Expansion Module. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes and pressing the submit button the configuration files for the device will be updated and you will need to reboot your phone to get the updated changes to the device.

Algo Template Creation or Edit

We will create a new template for Algo by pressing the New Template Button.

- Template Name-** Give your template a name such as "Everyone".

Template Name: Everyone


- Destination Address-** Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address: 10.10.0.1

- Time Zone-** Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: -06:00

- **Primary Time Server**- Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: 

- **Provision Server Address**- This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Address:  Server Address:

- **Provision Server Protocol**- Here you can tell the phone to use TFTP or FTP protocol for downloading firmware and configuration files. If defining FTP you will need to make sure you have FTP setup on your PBX and know what the Username and Password is. Please see the module called sysadmin for enabling FTP and the Username and Password.

Provision Server Protocol:  TFTP FTP HTTP

- **Device Settings**- You can define the following options for each device:

- **Algo 8028**

- **Door Phone Destination**- What number to dial when someone presses the intercom button. This can be any phone number or destination on your PBX like Ring Group, Queue or Extension Number.
- **Momentary Key press Digit**- What digit you can press on your phone after answering a call from the Call button that will unlock the door.



- **Algo 8180**

- **Pager Ring Tone**- Here you can pick which ringtone to play when someone dials the Overhead paging destination on the 8180
- **Pager Volume**- Define what volume you want the overhead paging to be at.
- **Ringer Tone**- Here you can pick which ringtone to play when someone dials the Ringer destination on the 8180
- **Ringer Volume**- Define what volume you want the ringer to be at.









Available Devices

☒ Algo8028 ☒ Algo8180

Algo8028

Door Phone Destination:  Momentary Key Press Digit: 

Algo8180

Pager Ring Tone:   Pager Volume:  
Ringer Tone:   Ringer Volume:  

- Once you setup the settings for a specific phone, uncheck the phone and pick a new phone to setup buttons.
- When done do not forget to press the “submit” button at the bottom of the page.

Submit

Now that a template is created we can map a phone to use this template. Please see the section [Extension Mapping](#) for information on this

Anytime extensions are mapped to use this profile after making changes and pressing the submit button the configuration files for the device will be updated. You will need to reboot your phone to get the updated changes to the device.


AND Template Creation or Edit

We will create a new template for AND by pressing the “New Template” button.

- **Template Name-** Give your template a name such as “Everyone”.

Template Name:  Everyone

- **Destination Address-** Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the “Internal” or “External” radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address:  ☒ Internal ☐ External

- **Time Zone-** Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: 

- **Primary Time Server-** Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: 

- **Device Settings-** All the device settings for the AND Clock are as follows. You can hover over the “?” for more information on each setting.

| | |
|-------------------------|---------------|
| SIP Mode: ? | paging |
| Speaker Volume: ? | 6 |
| Microphone Volume: ? | 7 |
| Feedback Suppression: ? | ultralow2 |
| Time Format: ? | 13 |
| Clock Font: ? | clock_gungsuh |
| Message Font: ? | arial_bold |
| Clock Color: ? | Hunter |
| Seconds Color: ? | Hunter |
| AM Color: ? | Hunter |
| PM Color: ? | Hunter |
| Message Color: ? | Orange |
| Show Seconds: ? | On |
| Blink Colon: ? | On |

- Once you have setup the settings for a specific phone, uncheck the phone and pick a new phone to setup buttons on.
- When done do not forget to press the submit button at the bottom of the page.

Submit

Now that we have a template created we can map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes and (pressing the submit button) the configuration files for the device will be updated and you will need to reboot the phone to get the updated changes to the device.

AudioCodes Template Creation or Edit

We will create a new template for AudioCodes by pressing the New Template Button.

- **Template Name-** Give your template a name such as "Everyone".

Template Name: ? Everyone

- **Destination Address-** Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address: ?

10.10.0.1

Internal

External

- **Time Zone-** Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: ? -06:00 ⌵

- **Primary Time Server-** Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: ? time1.schmoozecom.net

- **Provision Server Address-** This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Address: ? Server Address: 10.10.0.1

- **Provision Server Protocol-** Here you can tell the phone to use TFTP or FTP protocol for downloading firmware and configuration files. If defining FTP, you will need to make sure you have FTP setup on your PBX and what the Username and Password is. Please see the module called “sysadmin” for enabling FTP and the Username and Password.

Provision Server Protocol: ? TFTP FTP HTTP

- **Available Phones-** You will now notice check boxes for each different model phone we support. You can select any model phone to have it bring up a list of options that you can program for each phone.

Available Phones

310HD 320HD

- **Soft Keys-** In our example we are going to setup a 320HD phone by selecting the check box next to that option. . We will see this screen.We now have the ability to setup 12 soft keys as either Speed Dials or BLF keys.

Audiocodes 320HD

Soft Key 1

Type: ? BLF Key ⌵ Label: ? 4101 Value: ? 4101

Soft Key 2

Type: ? BLF Key ⌵ Label: ? 4102 Value: ? 4102

Soft Key 3

Type: ? BLF Key ⌵ Label: ? 4103 Value: ? 4103

Soft Key 4

Type: ? BLF Key ⌵ Label: ? 4104 Value: ? 4104

SoftKey 5

Type: ? BLF Key ⌵ Label: ? 4105 Value: ? 4105

Soft Key 6

Type: ? BLF Key ⌵ Label: ? 4106 Value: ? 4106

Soft Key 7

- **Button Types**- For each button you can pick from the following types:
 - **BLF**- Busy Lamp Field lets you program a button to monitor another extension and anytime they are on a call the light by the button will be red. You can also press the button at anytime to call the user.
 - **Speed Dial**- Allows you to program a number so that when this button is pressed, will automatically be dialed for you.
- **Button Fields**- For each button you can define the following:
 - **Type**- Either BLF or Speed Dial
 - **Label**- If the button has a LCD display this is what will be displayed next to the button so you know what each button is for such as the person name or extension number.
 - **Value**- This is what will be dialed or, in case of a BLF, which extension number we will monitor for that button.
- Once you setup the settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on it.
- When done do not forget to press the submit button at the bottom of the page.

Submit

Now that we have a template created we can map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes (and pressing the submit button) the configuration files for the device will be updated and you will need to reboot the phone to get the updated changes to the device.

Cisco Template Creation or Edit

We will create a new template for Cisco by pressing the New Template Button.

- **Template Name**- Give your template a name such as “Everyone”.

Template Name:  Everyone

- **Destination Address**- Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address: 

10.10.0.1

Internal

External

- **Time Zone**- Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: 

-06:00

- **Primary Time Server**- Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: 

time.schmoozecom.net

- **Provision Server Address**- This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Protocol: ?

TFTP

FTP

HTTP

- **Provision Server Protocol**- Here you instruct the phone to use TFTP or FTP protocol for downloading firmware and configuration files. If defining FTP you will need to make sure you have FTP setup on your PBX and know the Username and Password. Please see the module called “sysadmin” for enabling FTP and the Username and Password.

Provision Server Protocol: ?



Enable TFTP



Enable FTP

- **Available Phones**- You will notice check boxes for each different model phone we support. You can select any model phone to display a list of options that you can program for each phone.

Available Phones

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| SPA301 | SPA303 | SPA501G | SPA502G | SPA504G | SPA508G |
| SPA509G | SPA514G | SPA525G | SPA901 | SPA921 | SPA922 |
| SPA941 | SPA942 | SPA962 | | | |

- **Program Keys**- In the example we are going to setup a SPA525G phone by selecting the check box next to that option. We will see this screen and now have the ability to setup 5 program keys as either Line Keys or BLF keys.

Cisco SPA525G

Line Key 1

Type: ? Label: ? Value: ?

Line Key 2

Type: ? Label: ? Value: ?

Line Key 3

Type: ? Label: ? Value: ?

Line Key 4

Type: ? Label: ? Value: ?

Line Key 5

Type: ? Label: ? Value: ?

- **Button Types**- For each button you can choose from the following types:
 - **Line**- Since Cisco phones do not have dedicated line keys you need to program 1 or more of the buttons on the phone to be your line key so that you can make outbound calls.
 - **BLF**- Busy Lamp Field allows you to program a button to monitor another extension. Anytime they are on a call the light by the button will be red. You can also press the button at anytime to call the user.

- **Button Fields**- For each button you can define the following:
 - **Type**- Either Line, BLF
 - **Label**- If the button has a LCD display this is what will be displayed next to the button so you know what each button is for. For example the person name or extension number.
 - **Value**- For BLF, which extension number we will monitor for that button and also when pressed what extension we will dial. For Line keys you would leave this blank.
- **Speed Dial Keys**- We can also setup buttons 1-9 on the phone to be speed dial buttons that when pressed down and held will dial the numbers as defined below.

| | |
|---------------------|----------|
| Speed Dial 1 | |
| Label: ? | Value: ? |
| tony | 3760286 |
| Speed Dial 2 | |
| Label: ? | Value: ? |
| | |
| Speed Dial 3 | |
| Label: ? | Value: ? |
| | |
| Speed Dial 4 | |
| Label: ? | Value: ? |
| | |
| Speed Dial 5 | |
| Label: ? | Value: ? |
| | |

- **Button Fields**- For each button you can define the following:
 - **Label**- If the button has a LCD display this is what will be displayed next to the button so you know what each button is for. For example the person name or extension number.
 - **Value**- This is what will be dialed.
- **Expansion Module**- Some models of Cisco phones support Expansion modules. You can have a total of 2 expansion modules per phone. We setup the Expansion Module buttons just like any other phone button. You will actually map when extensions use which expansion modules and what order they are in the Extension Mapping section.

Available Expansion Modules

SPA500S-1

SPA500S-2

- **Available FXS Devices** - You will now notice check boxes for each different model ATA or Gateway we support. You can select any model phone to have it bring up a list of options that you can program for each phone. At this time there is no settings that need to be set on the Gateways or ATAs as they are all done in the “extension mapping” section.

Available FXS Devices

PAP2

SPA112

SPA122

SPA2102

SPA3102

SPA8000

- Once you establish the settings for a specific phone or device you can uncheck the phone and pick a another to setup buttons on.
- When done do not forget to press the submit button at the bottom of the page.

Submit

Now that we have a template created we can map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes (and pressing the submit button) the configuration files for the device will be updated. You will need to reboot your phone to get the updated changes to the device.

CyberData Template Creation or Edit

- We will create a new template for CyberData by pressing the New Template Button.

- **Template Name-** Give your template a name such as “Everyone”.

Template Name:  Everyone

- **Destination Address-** Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register and such. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address:  ☒ Internal ☐ External

- **Time Zone-** Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: 

- **Primary Time Server-** Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: 

- **Provision Server Address-** This is used to instruct the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Address:  Server Address:

- **Provision Server Protocol-** Here you can tell the phone to use TFTP or FTP protocol for downloading firmware and configuration files. If defining FTP you will need to make sure you have FTP setup on your PBX and know what the Username and Password is. Please see the module “sysadmin” for enabling FTP to determine the Username and Password.

Provision Server Protocol:  ☒ TFTP ☐ FTP ☐ HTTP

- **Available Devices-** You will notice check boxes for each different model phone we support. You can select any model phone to have it bring up a list of options that you can program for each phone.

- **Device Options-** Different devices have different options but below is an explanation of all the different options that can be set:

- **Door Phone Destination-** What number to dial when someone presses the intercom button. This can be any phone number or destination on your PBX like Ring Group, Queue or Extension Number.
- **Momentary Key press Digit-** What digit you can press on your phone after answering a call from the Call button that will unlock the door.
- **Pincode 1-10-** These are pin codes that a user can press on the keypad of the device to unlock the door from the keypad.
- **Dial Code 00-14-** These are the 15 different paging zones that someone can enter when dialing the zone

controller. You can then pick which combination of zones for each code will be included in the page.

Cyberdata Keypad-Intercom-V1

| | |
|------------------------------|-----------------------------------|
| Door Phone Destination: ? | <input type="text" value="4101"/> |
| Momentary Key Press Digit: ? | <input type="text" value="8"/> |

| | |
|---------------|--------------------------------------|
| Pincode 1: ? | <input type="text" value="1234"/> |
| Pincode 2: ? | <input type="text" value="4321"/> |
| Pincode 3: ? | <input type="text" value="Pincode"/> |
| Pincode 4: ? | <input type="text" value="Pincode"/> |
| Pincode 5: ? | <input type="text" value="Pincode"/> |
| Pincode 6: ? | <input type="text" value="Pincode"/> |
| Pincode 7: ? | <input type="text" value="Pincode"/> |
| Pincode 8: ? | <input type="text" value="Pincode"/> |
| Pincode 9: ? | <input type="text" value="123456"/> |
| Pincode 10: ? | <input type="text" value="654321"/> |

Cyberdata Zone-Controller

| | | | | |
|---------------|--|--|--|--|
| Dial Code 00: | <input checked="" type="checkbox"/> Zone 1 | <input checked="" type="checkbox"/> Zone 2 | <input checked="" type="checkbox"/> Zone 3 | <input checked="" type="checkbox"/> Zone 4 |
| Dial Code 01: | <input checked="" type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 02: | <input type="checkbox"/> Zone 1 | <input checked="" type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 03: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input checked="" type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 04: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input checked="" type="checkbox"/> Zone 4 |
| Dial Code 05: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 06: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 07: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 08: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 09: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 10: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 11: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 12: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 13: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |
| Dial Code 14: | <input type="checkbox"/> Zone 1 | <input type="checkbox"/> Zone 2 | <input type="checkbox"/> Zone 3 | <input type="checkbox"/> Zone 4 |

- Once you have setup the settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on.
- When done do not forget to press the submit button at the bottom of the page.

Submit

Now that we have a template created we can map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes and pressing the submit button the configuration files for the device will be updated. You will need to reboot your phone to get the updated changes to the device.

Digium Template Creation or Edit

- We will create a new template for Digium by pressing the New Template Button.
- **Template Name-** Give your template a name such as “Everyone”.

Template Name:  Everyone

- **Destination Address-** Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons, and it will pull the information from the EPM Global Settings for you.

Destination Address:  Internal External

- **Time Zone-** Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: 

- **Primary Time Server-** Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: 

- **Provision Server Address-** This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Address:  Server Address:

- **Provision Server Protocol-** Here you can tell the phone to use HTTP or FTP protocol for downloading firmware and configuration files. If defining FTP, you will need to make sure you have FTP setup on your PBX and enter the User name and Password. Please see the module called “sysadmin” for enabling FTP.

Provision Server Protocol:  TFTP FTP HTTP

- **Available Phones**- You will notice check boxes for each different model phone we support. You can select any model phone to have it bring up a list of options that you can program for each phone.

Available Phones

D40

D50

D70

- **Program Keys**- In the example we are going to setup a D70 phone by selecting the check box next to that option. We should see this screen. We now have the ability to setup 15 program keys as either Speed Dials or BLF keys.

Digium D70

Button 1

Type: BLF Key Label: aastra4101 Value: 4101

Button 2

Type: BLF Key Label: 4102 Value: 4102

Button 3

Type: BLF Key Label: 4103 Value: 4103

Button 4

Type: BLF Key Label: 4104 Value: 4104

Button 5

Type: BLF Key Label: 4105 Value: 4105

Button 6

Type: BLF Key Label: 4106 Value: 4106

Button 7

- **Button Types**- For each button you can pick from the following types:
 - **BLF**- Busy Lamp Field allows you to program a button to monitor another extension. Anytime they are on a call the light by the button will be red. You can also press the button at anytime to call the user.
 - **Speed Dial**- Allows you to program a number that when this button is pressed, will automatically be dialed for you.
- **Button Fields**- For each button you can define the following;
 - **Type**- Either BLF or Speed Dial
 - **Label**- If the button has a LCD display this is what will be displayed next to the button so you know what each button is for. For example such as the person name or extension number.
 - **Value**- This is what will be dialed or in case of a BLF, which extension number we will monitor for that button and also when pressed what extension we will dial.
- Once you setup the settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on.
- When done do not forget to press the submit button at the bottom of the page.

Submit

Now that we have a template created we can map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes (and pressing the submit button) the configuration files for the device will be updated. You will need to reboot the phone to get the updated changes to the device.

Grandstream Template Creation or Edit

We will create a new template for Grandstream by pressing the New Template Button.

- **Template Name-** Give your template a name such as "Everyone".

Template Name:  Everyone

- **Destination Address-** Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address: 

☒ Internal☐ External

- **Auto Answer-** If you want the device to auto answer to the speaker phone for every call that comes to the device.

Auto Answer: 

☒ Enable☐ Disable

- **Mute Mic-** If you have Auto Answer set to Enabled you can choose if you want the microphone on the phone muted by default when it auto answers.

Mute Mic: 

☐ Enable☒ Disable

- **Auto Off Hook-** If you have Auto Answer set to Enabled and the person calling this device hangs up, the phone can hang up or go back into idle mode.

Auto Off Hook: 

☐ Enable☒ Disable

- **Time Zone-** Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: 

- **Primary Time Server-** Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: 

- **Provision Server Address-** This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Address:  Server Address:

- **Provision Server Protocol-** Here you can tell the phone to use HTTP or FTP protocol for downloading firmware and configuration files. If defining FTP, you will need to make sure you have FTP setup on your PBX and know what the Username and Password is. Please see the module called “sysadmin” for enabling FTP and the Username and Password.

Provision Server Protocol:  TFTP FTP HTTP

- **Available Phones-** You will now notice check boxes for each different model phone we support. You can select any model phone to have it bring up a list of options that you can program for each phone.





Available Phones

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| DP715 | GXP-1105 | GXP-1160 | GXP-1165 | GXP1200 | GXP-1400 |
| GXP-2124 | GXP-1450 | GXP-2000 | GXP-2100 | GXP-2110 | GXP-2120 |





- **Program Keys-** In our Example we are going to setup a GXP2110 phone by selecting the check box next to that option. We will see a screen like this. We now have the ability to setup 18 program keys as either Speed Dials or BLF keys.

Grandstream GXP-2110





Button 1

Type:  BLF Key  Label:  4101 Value:  4101





Button 2

Type:  BLF Key  Label:  4102 Value:  4102

Button 3

Type:  BLF Key  Label:  4103 Value:  4103

Button 4

Type:  BLF Key  Label:  4104 Value:  4104

Button 5

- **Button Types-** For each button you can pick from the following types:
 - **BLF-** Busy Lamp Field lets you program a button to monitor another extension and anytime they are on a call the light by the button will be red. You can also press the button at anytime to call the user.
 - **Speed Dial-** Allows you to program a number when this button is pressed, will automatically be dialed for you.
 - **Dial DTMF-** Enter a series of DTMF digits in the Value field to be dialed during the call. Leave the Label field blank
 - **Voice Mail-** Enter the Voice Mail access number in the Value field. By default this is *97 but refer to the Feature Code Module in your PBX to verify this. Leave the Label field blank.
 - **Call Return-** The last answered calls can be dialed using Call Return. The Label and Value field should be left blank.
 - **Transfer-** Enter the number in the value field to be transferred (blind transfer) during the call. Leave the Label field blank
 - **Call Park-** Enter the call park extension in the value field to park a call. By default this is 70 but refer to the Feature Code Module in your PBX to verify this. Leave the Label field blank.
 - **Intercom-** Enter the intercom feature code in the value field to do the intercom. By default this is *80 but refer to the Feature Code Module in your PBX to verify this. Leave the Label field blank.

- **Button Fields**- For each button you can define the following:
 - **Type**- Either BLF or Speed Dial
 - **Label**- If the button has a LCD display this is what will be displayed next to the button so you know what each button is for. For example such as the person name or extension number.
 - **Value**- This is what will be dialed, or in case of a BLF, which extension number we will monitor for that button and also when pressed what extension we will dial.
- **Expansion Module**- Some models of Grandstream phones support Expansion modules. You can have a total of 2 expansion modules per phone. We setup the Expansion Module buttons just like any other phone button. You will actually map what extensions use which expansion modules and what order they are in the [Extension Mapping](#) section.

Available Expansion Modules

EXP-1

EXP-2

- **Available FXS Devices** - You will now notice check boxes for each different model ATA or Gateway we support. You can select any model phone to have it bring up a list of options that you can program for each phone. At this time there are no settings that need to be set on the Gateways or ATAs as they are all done in the extension mapping section.

Available FXS Devices

GXW-4004

GXW-4008

HT-286

HT-502

HT-503

HT-701

HT-702

HT-704

- **Gateway/ATA Settings**- For each Gateway that you want to use for faxing you can decide if you want to do Passthrough Mode for faxing or T38 Support. Usually with faxing you will enable T38 Fax Mode.
- Once you setup the settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on.
- When done do not forget to press the submit button at the bottom of the page.

Submit

Now that we have a template created we can go map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes (and pressing the submit button) the configuration files for the device will be updated and you will need to reboot your phone to get the updated changes to the device.

Mitel Template Creation or Edit

- We will create a new template for Mitel by pressing the New Template Button.
- **Template Name**- Give your template a name such as "Everyone".

Template Name: ?

Everyone

- **Destination Address**- Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address: ?

Internal

External

- **Time Zone**- Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: ?

- **Primary Time Server**- Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: ?

- **Provision Server Address**- This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Address: ?

Server Address:

- **Available Phones**- You will now notice check boxes for each different model phone we support. You can select any model phone to have it bring up a list of options that you can program for each phone.

Available Phones

| | | | | | |
|--------|--------|--------|--------|--------|--------|
| M-5212 | M-5215 | M-5220 | M-5224 | M-5304 | M-5312 |
| M-5320 | M-5324 | M-5330 | M-5340 | M-5360 | |

- **Program Keys**- In the example we are going to setup a M-5312 phone by selecting the check box next to that option. We will see this screen. We now have the ability to setup 12 program keys as either Line Keys, Speed Dials or BLF keys. Please note that Mitel requires the first 2 buttons to be line keys so we have hard coded this in all the phones.

Mitel M-5312

Button 1

Type: ? Line Label: ? Line Value: ? Line

Button 2

Type: ? Line Label: ? Line Value: ? Line

Button 3

Type: ? BLF Key Label: ? 4101 Value: ? 4101

Button 4

Type: ? BLF Key Label: ? 4102 Value: ? 4102

Button 5

Type: ? BLF Key Label: ? 4103 Value: ? 4103

- **Button Types**- For each button you can pick from the following types:
 - **Line**- Since Mitel phones do not have dedicated line keys you have to program 1 or more of the buttons on the phone to be the line key so that you can make outbound calls.
 - **BLF**- Busy Lamp Field lets you program a button to monitor another extension and anytime they are on a call the light by the button will be red. You can also press the button at anytime to call the user.
 - **Speed Dial**- Allows you to program a number so when this button is pressed, will automatically be dialed for you.
- **Button Fields**- For each button you can define the following:
 - **Type**- Either Line, BLF or Speed Dial.
 - **Label**- If the button has a LCD display this is what will be displayed next to the button so you know what each button is for. For example such as the person name or extension number.
 - **Value**- This is what will be dialed, or in case of a BLF, which extension number we will monitor for that button and also when pressed what extension we will dial. For Line keys you would leave this blank.
- Once you have setup your settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on it.
- When done do not forget to press the submit button at the bottom of the page.

Submit

Now that we have a template created we can go map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes (and pressing the submit button) the configuration files for the device will be updated and you will need to reboot your phone to get the updated changes to the device.

Panasonic Template Creation or Edit

We will create a new template for Panasonic by pressing the New Template Button.

- **Template Name**- Give your template a name such as “Everyone”.

Template Name: ?

Everyone

- **Destination Address**- Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address: ?

10.10.0.1

Internal

External

- **Time Zone**- Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: ?

-06:00

- **Primary Time Server**- Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: 

- **Provision Server Address**- This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Address:  Server Address:

- **Provision Server Protocol**- Here you can tell the phone to use TFTP or FTP protocol for downloading firmware and configuration files. If defining FTP you will need to make sure you have FTP setup on your PBX and what the Username and Password is. Please see the module called “sysadmin” for enabling FTP and the Username and Password.

Provision Server Protocol: 

TFTP

FTP

HTTP

- **Available Phones**- You will now notice check boxes for each different model phone we support. You can select any model phone to have it bring up a list of options that you can program for each phone.

Available Phones

TGP500

TGP55T04

UT123

UT133

UT136

UT670

- **Program Keys**- In the example we are going to setup a UT136 phone by selecting the check box next to that option. We will see a screen. We now have the ability to setup 24 program keys as either Line Keys, Speed Dials or BLF keys.

Panasonic UT136



Soft Key 1

Type:  Label:  Value: 



Soft Key 2

Type:  Label:  Value: 

Soft Key 3

Type:  Label:  Value: 

Soft Key 4

Type:  Label:  Value: 

Soft Key 5

Type:  Label:  Value: 

- **Button Types**- For each button you can pick from the following types:
 - **Line**- Since Panasonic phones do not have dedicated line keys you need to program 1 or more of the buttons on your phone to be your line key so that you can make outbound calls.
 - **BLF**- Busy Lamp Field lets you program a button to monitor another extension and anytime they are on

a call the light by the button will be red. You can also press the button at anytime to call the user.

- **Speed Dial**- Allows you to program a number that when this button is pressed, will automatically be dialed for you.
- **Button Fields**- For each button you can define the following;
 - **Type**- Either Line, BLF or Speed Dial.
 - **Label**- If the button has a LCD display this is what will be displayed next to the button so you know what each button is for. For example the person name or extension number.
 - **Value**- This is what will be dialed or in case of a BLF, which extension number we will monitor for that button and also when pressed what extension we will dial. For Line keys you would leave this blank.
- Once you have setup your settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on it.
- When done do not forget to press the submit button at the bottom of the page.

Submit

Now that we have a template created we can go map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes (and pressing the submit button) the configuration files for the device will be updated and you will need to reboot your phone to get the updated changes to the device.

Polycom Template Creation or Edit

We will create a new template for Polycom by pressing the New Template Button.

- **Template Name**- Give your template a name such as "Everyone".

Template Name:  Everyone

- **Destination Address**- Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings or you.

Destination Address: 

10.10.0.1

Internal

External

- **Time Zone**- Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: 

-06:00

- **Primary Time Server**- Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: 

time.schmoozecom.net

- **Daylight Savings-** Option to enable or disable daylight savings mode on the phone.

Daylight Savings: ?

Enable

Disable

- **Provision Server Address-** This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Address: ?

Server Address: 10.10.0.1

- **Provision Server Protocol-** Here you can tell the phone to use TFTP or FTP protocol for downloading firmware and configuration files. If defining FTP you will need to make sure you have FTP setup on your PBX and what the Username and Password is. Please see the module called “sysadmin” for enabling FTP and the Username and Password.

Provision Server Protocol: ?

TFTP

FTP

HTTP

- **Available Phones-** You will now notice check boxes for each different model phone we support. You can select any model phone to have it bring up a list of options that you can program for each phone.

Available Phones

| | | | | | |
|--------|--------|-------|--------|-------|-------|
| IP301 | IP320 | IP321 | IP330 | IP331 | IP335 |
| IP4000 | IP430 | IP450 | IP5000 | IP501 | IP550 |
| IP560 | IP6000 | IP601 | IP650 | | |

- **Program Keys-** In the example we are going to setup a IP650 phone by selecting the check box next to that option. We will see this screen. We now have the ability to setup 4 Vertical Soft Keys as either Line Keys, Speed Dials or BLF keys.

| Program Keys | | |
|-----------------|----------------|--------------------------------|
| Button 1 | | |
| Type: ? | Line Key | Label: ? 1 Value: ? 1 |
| Button 2 | | |
| Type: ? | BLF Key | Label: ? 4101 Value: ? 4101 |
| Button 3 | | |
| Type: ? | BLF Key | Label: ? 4102 Value: ? 4102 |
| Button 4 | | |
| Type: ? | Speed Dial Key | Label: ? Cell Value: ? 3760286 |

- **Button Types**- For each button you can pick from the following types:
 - **Line**- Since Polycom phones do not have dedicated line keys you have to program 1 or more of the buttons on your phone to be your line key so that you can make outbound calls.
 - **BLF**- Busy Lamp Field lets you program a button to monitor another extension and anytime they are on a call the light by the button will be red. You can also press the button at anytime to call the user.
 - **Speed Dial**- Allows you to program a number so when this button is pressed, it will automatically be dialed for you.
- **Button Fields**- For each button you can define the following:
 - **Type**- Either Line, BLF or Speed Dial.
 - **Label**- If the button has a LCD display this is what will be displayed next to the button so you know what each button is for. For example the person name or extension number.
 - **Value**- This is what will be dialed or in case of a BLF, which extension number we will monitor for that button and also when pressed what extension we will dial. For Line keys you would leave this blank.
- **Polycom Built In Features**- You can choose on each phone if you want the following buttons to be displayed on the bottom horizontal row of the phone.
 - **New Call**- New call will display a new call button on the phone that you can press to start a new call.
 - **Call Forward**- Call Forward application to be displayed as a button on the phone. This application will let you do phone side call forwarding at the device level.
- **Horizontal Soft Keys**- In this example the IP650 lets you program 8 horizontal soft keys. These can only be speed dial numbers. As shown below we setup the first button as a speed dial to 9209999999. The action field is where you define the number you want dialed.

| Horizontal Soft Keys | | | | |
|----------------------|--|---------|---|--|
| Button 5 | | | | |
| Label: | <input type="text" value="Tony Cell"/> | Action: | <input type="text" value="9209999999"/> | Enabled: <input checked="" type="checkbox"/> Active Calls: <input checked="" type="checkbox"/> Idle: <input checked="" type="checkbox"/> |

- **State Information**- For each horizontal soft key you can define when you want the button to be displayed on the phone.
 - **Active Call**- If enabled the button will be displayed on the phone while on a active call.
 - **Idle**- If enabled the button will be displayed on the phone when the phone is not ringing or on a call.
- **Expansion Module**- Some models of Polycom phones support Expansion modules. You can have a total of 3 expansion modules per phone. We setup the Expansion Module buttons just like any other phone button. You will actually map what extensions use which expansion modules and what order they are in the [Extension Mapping](#) section.

Available Expansion Modules

| | | |
|-------|-------|-------|
| BEM-1 | BEM-2 | BEM-3 |
|-------|-------|-------|

- Once you have setup your settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on it.

- When done do not forget to press the submit button at the bottom of the page.

Submit

Now that we have a template created we can map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes (and pressing the submit button) the configuration files for the device will be updated and you will need to reboot your phone to get the updated changes to the device.

Sangoma Template Creation or Edit

We will create a new template for Sangoma by pressing the New Template Button.

- **Template Name-** Give your template a name such as “Everyone”.

Template Name:  Everyone

- **Destination Address-** Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address:  ☒ Internal ☐ External

- **Time Zone-** Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: 

- **Primary Time Server-** Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: 

- **Provision Server Address-** This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN. At this time Sangoma devices only support TFTP provisioning.

Provision Server Address:  Server Address:

- **Available PFXS Devices-** You will now notice check boxes for each different model devices we support. You can select any model phone to have it bring up a list of options that you can program for each phone. At this time there are no settings that need to be set on the Gateways or ATAs as they are all done in the extension mapping section.

Available FXS Modules

Vega50-4FXS

Vega50-8FXS

- Once you setup the settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on.
- When done do not forget to press the submit button at the bottom of the page.

Submit

Now that we have a template created we can map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes and pressing the submit button the configuration files for the phone will be updated and you will need to reboot your device to get the updated changes to the device.

SNOM Template Creation or Edit

We will create a new template for SNOM by pressing the New Template Button.

- **Template Name-** Give your template a name such as “Everyone”.

Template Name:  Everyone

- **Destination Address-** Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address: 


10.10.0.1

Internal

External

- **Time Zone-** Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: 

-06:00 

- **Primary Time Server-** Here we define the IP or FQDN Address of the time Server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: 

time1.schmoozecom.net

- **Provision Server Address-** This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Address:  Server Address: 10.10.0.1

- **Provision Server Protocol**- Here you can tell the phone to use TFTP or FTP protocol for downloading firmware and configuration files. If defining FTP you will need to make sure you have FTP setup on your PBX and what the Username and Password is. Please see the module called “sysadmin” for enabling FTP and the Username and Password.

Provision Server Protocol: ?

TFTP

FTP

HTTP

- **Available Phones**- You will notice check boxes for each different model phone we support. You can select any model phone to have it bring up a list of options that you can program for each phone.

Available Phones

| | | | | | |
|-------|--------------|-------|-------|-------|-------|
| M9 | MeetingPoint | PA1 | S-300 | S-320 | S-360 |
| S-370 | S-710 | S-720 | S-760 | S-820 | S-821 |

- **Program Keys**- In the example we are going to setup a S-370 phone by selecting the check box next to that option. We will see this screen. We now have the ability to setup 11 program keys as either Line Keys, Speed Dials or BLF keys.

Snom S-370

Button 1

Type: ? Line Key Label: ? 1 Value: ?

Button 2

Type: ? Speed Dial Label: ? s1 Value: ? 3760286

Button 3

Type: ? BLF Key Label: ? 4101 Value: ? 4101

Button 4

Type: ? BLF Key Label: ? 4102 Value: ? 4102

Button 5

Type: ? BLF Key Label: ? 4103 Value: ? 4103

- **Button Types**- For each button you can pick from the following types:
 - **Line**- Since SNOM phones do not have dedicated line keys you have to program 1 or more of the buttons on your phone to be your line key so that you can make outbound calls.
 - **BLF**- Busy Lamp Field lets you program a button to monitor another extension and anytime they are on a call the light by the button will be red. You can also press the button at anytime to call the user.
 - **Speed Dial**- Allows you to program a number so when this button is pressed, it will automatically be dialed for you.
- **Button Fields**- For each button you can define the following:
 - **Type**- Either Line, BLF or Speed Dial.
 - **Label**- If the button has a LCD display this is what will be displayed next to the button so you know what each button is for. For example the person name or extension number.

- **Value-** This is what will be dialed, or in case of a BLF, which extension number we will monitor for that button and also when pressed what extension we will dial. For Line keys you would leave this blank.
- **Expansion Module-** Some models of Snom phones support Expansion modules. You can have a total of 3 expansion modules per phone. We setup the Expansion Module buttons just like any other phone button. You will actually map what extensions use which expansion modules and what order they are in the [Extension Mapping](#) section.

Available Expansion Modules

ExpV2-1

ExpV2-2

ExpV2-3

- Once you established the settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on it.
- When done do not forget to press the submit button at the bottom of the page.

Now that we have a template created we can map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes and pressing the submit button the configuration files for the device will be updated and you will need to reboot your phone to get the updated changes to the device.

Yealink Template Creation or Edit

We will create a new template for Yealink by pressing the New Template Button.

- **Template Name-** Give your template a name such as "Everyone".

Template Name: ?

Everyone

- **Destination Address-** Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address: ?

10.10.0.1

Internal

External

- **Time Zone-** Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: ?

-06:00

- **Primary Time Server-** Here we define the IP or FQDN Address of the time Server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net.

Primary Time Server: ?

time1.schmoozecom.net

- **Provision Server Address-** This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Address:  Server Address:

- **Provision Server Protocol-** Here you can instruct the phone to use TFTP or FTP protocol for downloading firmware and configuration files. If defining FTP you will need to make sure you have FTP setup on your PBX and what the Username and Password is. Please see the module called “sysadmin” for enabling FTP and the Username and Password.

Provision Server Protocol: 

TFTP

FTP

HTTP

- **Available Phones-** You will now notice check boxes for each different model phone we support. You can select any model phone to have it bring up a list of options that you can program for each phone.

Available Phones

SIP-T18P

SIP-T20P

SIP-T22P

SIP-T26P

SIP-T28P

SIP-T32G

SIP-T38G




VP-2009

VP350

- **Program Keys-** In the example we are going to setup a SIP-T28P phone by selecting the check box next to that option. We will see the screen. We now have the ability to setup 6 line keys as either Line Keys or Speed Dials

Yealink SIP-T28P

Line Key 1

Type:  Label:  Value: 

Line Key 2

Type:  Label:  Value: 

Line Key 3

Type:  Label:  Value: 

Line Key 4

Type:  Label:  Value: 

Line Key 5

Type:  Label:  Value: 

Line Key 6

Type:  Label:  Value: 

- **Button Types-** For each button you can pick from the following types:
 - **Line-** Since Yealink phones do not have dedicated line keys you need to program 1 or more of the buttons on your phone to be your line key so that you can make outbound calls.
 - **Speed Dial-** Allows you to program a number that when this button is pressed, will automatically be dialed for you.

- **Button Fields**- For each button you can define the following:
 - **Type**- Either Line, BLF or Speed Dial.
 - **Label**- If the button has a LCD display this is what will be displayed next to the button so you know what each button is for. For example the person name or extension number.
 - **Value**- This is what will be dialed or in case of a BLF, which extension number we will monitor for that button and also when pressed what extension we will dial. For Line keys you would leave this blank.
- **Expansion Module**- Some models of Yealink phones support Expansion modules. You can have a total of 2 expansion modules per phone. We setup the Expansion Module buttons just like any other phone button. You will actually map what extensions use which expansion modules and what order they are in the [Extension Mapping](#) section.

Available Expansion Modules

EXP39-1

EXP39-2

- Once you have setup your settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on.
- When done do not forget to press the submit button at the bottom of the page.

Now that we have a template created we can go map a phone to use this template. Please see the section [Extension Mapping](#) for information on this.

Anytime you have extensions mapped to use this profile after making changes and pressing the submit button the configuration files for the device will be updated and you will need to reboot your phone to get the updated changes to the device.

Xorcom Template Creation or Edit

We will create a new template for Xorcom by pressing the New Template Button.


- **Template Name-** Give your template a name such as Everyone.

Template Name:  Everyone

- **Destination Address-** Here we define what IP Address or FQDN we will program the phone with. This will tell the phone how to reach the PBX and where to register and such. You can either type an IP or FQDN or select either the Internal or External radio buttons and it will pull the information from the EPM Global Settings for you.

Destination Address:  ☒ Internal ☐ External

- **Time Zone-** Here we define the time offset from 0 that the phone will be located in. For example Central Time would be -6.

Time Zone: 

- **Primary Time Server-** Here we define the IP or FQDN Address of the time server we want the phone to use. For PBXact this is usually your PBX and for PBXtended we recommend using time.schmoozecom.net

Primary Time Server: 

- **Provision Server Address-** This is used to tell the phone what IP or FQDN Address it should use to locate and pull firmware and configuration files from. This is usually your PBX IP or FQDN.

Provision Server Address:  Server Address:

- **Provision Server Protocol-** Here you can tell the phone to use TFTP or FTP protocol for downloading firmware and configuration files. If defining FTP you will need to make sure you have FTP setup on your PBX and what the Username and Password is. Please see the module called sysadmin for enabling FTP and the Username and Password.

Provision Server Protocol:  ☒ TFTP ☐ FTP ☐ HTTP

- **Available Phones-** You will now notice check boxes for each different model phone we support. You can select any model phone to have it bring up a list of options that you can program for each phone.

Available Phones

XP0100P

XP0120P

- **Program Keys-** In our Example we are going to setup a XP0120P phone by selecting the check box next to that option. We should see a screen like this now and have the ability to setup 6 line keys as either Line Keys, BLF or Speed Dials

Xorcom XP0120P

Line Keys

Line Key 1

Type: Label: Value:

Line Key 2

Type: Label: Value:

Line Key 3

Type: Label: Value:

Line Key 4

Type: Label: Value:














submit button

- **Button Types-** For each button you can pick from the following types:
 - **Line**- Since Xorcom phones do not have dedicated line keys you have to program 1 or more of the buttons on your phone to be your line key so that you can make outbound calls.
 - **Speed Dial**- Allows you to program a number that when this button is pressed, will automatically be dialed for you.
 - **BLF**- Busy Lamp Field lets you program a button to monitor another extension and anytime they are on a call the light by the button will be red. You can also press the button at anytime to call the user.
- **Button Fields-** For each button you can define the following:
 - **Type**- Either Line, BLF or Speed Dial
 - **Label**- If the button has a LCD display this is what will be displayed next to the button so you know what each button is for. Such as the person name or extension number.
 - **Value**- This is what will be dialed or in case of a BLF, which extension number we will monitor for that button and also when pressed what extension we will dial. For Line keys you would leave this blank.

- **Expansion Module-** Some models of Xorcom phones support Expansion modules. You can have a total of 2 expansion modules per phone. We setup the Expansion Module buttons just like any other phone button. You will actually map what extensions use which expansion modules and what order they are in the [Extension Mapping](#) section.

Xorcom EXP20-1

Soft Keys

| | | |
|---|---------------------------------------|---|
| Button 1 | | |
| Type:  | <input type="text" value="Line Key"/> | Label:  <input type="text" value="Reserved"/> Value:  <input type="text" value="Reserved"/> |
| Button 2 | | |
| Type:  | <input type="text" value="BLF Key"/> | Label:  <input type="text" value="4101"/> Value:  <input type="text" value="4101"/> |
| Button 3 | | |
| Type:  | <input type="text" value="BLF Key"/> | Label:  <input type="text" value="4102"/> Value:  <input type="text" value="4102"/> |
| Button 4 | | |
| Type:  | <input type="text" value="BLF Key"/> | Label:  <input type="text" value="4103"/> Value:  <input type="text" value="4103"/> |
| Button 5 | | |
| Type:  | <input type="text" value="BLF Key"/> | Label:  <input type="text" value="4204"/> Value:  <input type="text" value="4204"/> |

Once you have setup your settings for a specific phone you can uncheck the phone and pick a new phone to setup buttons on it.

When done do not forget to press the submit button at the bottom of the page.

Submit

Now that we have a template created we can go map a phone to use this template. Please see the section Extension Mapping for information on this

Anytime you have extensions mapped to use this profile after making changes and pressing the submit button the configuration files for the device will be updated and you will need to reboot your phone to get the updated changes to the device.

Extension Mapping

Extension mapping is where we link an extension to a MAC Address of a phone and that phone to a specific template we have created. This will cause EPM to write out the configuration files for that phone based on the template. In the example we are going to map Extension 4100 to Aastra 6757i phone with a MAC Address of 00085D245678 and also to use the Expansion Module 675-1 that we created.

- First we will need to click on the Extension Mapping section in EPM:



- We will now see this table.

Extension Mapping

| Select | Extension | Brand | MAC Address | Template | Model | |
|--------------------------|-----------|-------------|-------------|---------------------|----------|--------|
| <input type="checkbox"/> | 2000 | Panasonic | 0080f0de3e | israel | UT670 | Remove |
| <input type="checkbox"/> | 2007 | Yealink | 0015652997 | israel | VP530 | Remove |
| <input type="checkbox"/> | 2204 | Grandstream | 000b8231f0 | default-grandstream | GXV-3175 | Remove |
| <input type="checkbox"/> | 4002 | Aastra | 00085d13B0 | sample | 6739i | Remove |
| <input type="checkbox"/> | 4004 | Digium | 000fd30530 | israel | D70 | Remove |
| <input type="checkbox"/> | 4006 | Aastra | 00085d13d7 | sample | 6739i | Remove |

Add ExtensionExport ListImport List

Save

Use Selected

- Press the Add Extension button at the bottom to add a new blank row to the page.
- Here we can pick the extension number, brand, define the MAC Address of the phone, pick the template we want to use and what model number the phone is.

☒

4100

Aastra

00085D245678

aastratest

57i

- Scroll to the bottom and pick the “save” button. This will save the information to the database and build the config file for that phone so the phone can retrieve the configuration file.

Save

Use Selected

- We can now go back to the extension we just added. Under the Advanced tab we can pick up to 3 different expansion modules that we want to include as part of this phones configurations.

Extension Mapping

| Select Extension | Brand | MAC Address Template | Model | |
|-------------------------------|-----------|----------------------|--------|---------------------|
| <input type="checkbox"/> 2000 | Panasonic | 0080f0de3e: | israel | UT670 Remove |
| <input type="checkbox"/> 2007 | Yealink | 0015652997 | israel | VP530 Remove |
| <input type="checkbox"/> 2201 | Aastra | 0001112223 | sample | 55i Remove Advanced |

Expansion 1 Expansion 2 Expansion 3

- Scroll to the bottom and pick the “save” button. This will save the information to the database and build or rebuild the config file for that phone so the phone can retrieve the configuration file.

- Anytime you have extension mapped to use this profile after making changes to the profile you need to go back to the Extension Mapping page and select all the Extensions that are using this Profile and at the bottom of the page pick the rebuild config option and then press the “Use Selected” button.

| | | | | | | | |
|-------------------------------------|------|-------------|------------|---------------------|----------|--------|----------|
| <input checked="" type="checkbox"/> | 2201 | Aastra | 0001112223 | sample | MBU400 | Remove | Advanced |
| <input type="checkbox"/> | 2204 | Grandstream | 000b8231f0 | default-grandstream | GXV-3175 | Remove | |
| <input checked="" type="checkbox"/> | 4002 | Aastra | 00085d13B0 | sample | 6739i | Remove | |
| <input type="checkbox"/> | 4004 | Digium | 000fd30530 | israel | D70 | Remove | |
| <input type="checkbox"/> | 4006 | Aastra | 00085d13d7 | sample | 6739i | Remove | |

- You can also send a reboot command to the phones that are registered with the PBX. Please note only some phone manufactures support this and some only support it if the config file on the sever has changed from what the phone has. In the [Extension Mapping](#) section select which phones you would like to reboot then in the drop down at the bottom of the page pick the reboot option and press the “Use Selected” button.

| | | | | | | | |
|-------------------------------------|------|-------------|------------|---------------------|----------|--------|----------|
| <input checked="" type="checkbox"/> | 2201 | Aastra | 0001112223 | sample | MBU400 | Remove | Advanced |
| <input type="checkbox"/> | 2204 | Grandstream | 000b8231f0 | default-grandstream | GXV-3175 | Remove | |
| <input checked="" type="checkbox"/> | 4002 | Aastra | 00085d13B0 | sample | 6739i | Remove | |
| <input type="checkbox"/> | 4004 | Digium | 000fd30530 | israel | D70 | Remove | |
| <input type="checkbox"/> | 4006 | Aastra | 00085d13d7 | sample | 6739i | Remove | |

- Some phones such as the Aastra MBU400 Wireless DECT Phones allow more than one extension to register to the same base station. In the case of an Aastra MBU400 which supports 8 wireless handsets each wireless handset is its own extension. To handle this you would create 8 extension entries in the Extension Mapping all with the same MAC address but under the Advanced Option you would pick between Accounts 1 thru 8 for each device and define for each extension the IEMI ID number of each wireless handset.

| Select Extension | Brand | MAC Address Template | Model | |
|--|------------------|----------------------|--------|------------------------|
| <input type="checkbox"/> 2000 | Panasonic | 000b8231f0 | israel | UT670 Remove |
| <input type="checkbox"/> 2007 | Yealink | 00085d13B0 | israel | VP530 Remove |
| <input checked="" type="checkbox"/> 2200 | Aastra | 000fd30530 | sample | MBU400 Remove Advanced |
| Line: Account 1 | IEMI: Handset ID | | | |
| <input checked="" type="checkbox"/> 2201 | Aastra | 000fd30530 | sample | MBU400 Remove Advanced |
| Line: Account 3 | IEMI: Handset ID | | | |

Image Management

- Image Management allows you to upload images such as a company logo. You can then use these images inside a template that supports background images as an option. Please note not all phones and models support this and at this time very few support this feature.
- Click the Image Management section of EPM.
- We will now see a list of all images we uploaded and also a button to "Upload Images"
- Press Upload Images. From here you can upload and GIF, JPEG or PNG that is 256KB or smaller by using the browse button and picking the file from your local computer.

Basefile Editing

- Basefile editing is designed to let you edit all the hidden default settings that EPM hard codes for each template created. Editing anything in basefile should only be done by someone who understands how phone configuration options work and what all the options mean. We will briefly show in this guide a simple example of turning off the Call Waiting beep that Aastra phones play.
- First we need to go into the Basefile Edit section of EPM and select the template we want to modify. In the example this will be the "Everyone" template.
- The parameter of Aastra phones to turn off the Call Waiting beep is "call waiting tone: 0". First you should search for "call waiting tone:" in the browser. We will notice we are not defining this option (so it will not be found) in the base file so it is using the default of the phone which is to play the Call Waiting tone.

- To set this option to off we will go to the bottom of the page and enter the following information as a new entry by pressing the Add Setting Button. That will bring up a new blank row to allow us to add our settings.
 - Models=** This can be global if we want it for all phones in this template or we can define a list of model numbers separated by commas such as 53i, 51i, 55i, 57i
 - Phone & FXS=** What device type it is. Since this is only for a Phone we will check the box for Phone
 - Parameter=** This is where we define the parameter we want to set such as "call waiting tone".
 - Attribute=** For Aastra phones this can be ignored. Only certain manufacturer support this option.
 - Value=** This is where you set the value. In this case the value is "0" for disabled and "1" for enabled.
- Press the "Submit" button when done to save the changes to the database. Pressing the "Submit" button will not add these changes to any existing phones that are using this template by default.

Submit

- To push these changes into existing phone configs that are mapped to this template press the "Regenerate Template" button.

Add Setting

Regenerate Template

- Anytime we add a new custom entry to a basefile or edit an existing included configuration option it will automatically mark the entry as custom with a check box on the far left side of the table. Any entries that have been marked as custom will never be changed when the EPM module is updated in your PBX since those are custom changes you made from stock defaults.

☒ aastra ☒ Phone ☐ FXS ☐

- To remove a custom entry or an included entry you can check the box on the far right of the screen next to each option and press the "submit" button and the entries will be removed. Make sure you "Regenerate Template" when done so existing phones will get the changes.

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- If you remove an entry that is a stock default option that we include with EPM you will see at the bottom of the list all the entries that you removed marked as "Removed From Template" and what the Parameter was that was removed and the "Custom" check box is marked since you modified a default included option.

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- You can also at anytime revert the removal of any included entry by checking the delete button on the far right and submitting your changes. This will remove your custom changes to the stock option and restore it back to the defaulted value.

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Firmware Management

- Most brands of devices that are supported in the End Point Manager will also let you manage the firmware for those devices. There are a few exceptions such as Sangoma and Mitel devices.
- To install firmware for a specific brand of phones we will first click on the Firmware Management section of the End Point Manager



- You will now see a list of brands on the right side of the screen.



- In our example we are going to setup Panasonic firmware for our Panasonic devices by clicking on the Panasonic Brand.

Firmware Revisions for Panasonic

Available Firmwares

1.00
1.01

Firmware Slot 1

Firmware Slot 2

- From here we will see a list of available firmware versions on the left side and a Slot 1 and Slot 2. You can install a separate firmware version into the two different holding slots. You do this by dragging a firmware version from the Available Firmware into either Slot 1 or Slot 2. Below you will see we dragged both available firmware versions into each slot.

Firmware Revisions for Panasonic

Available Firmwares

Firmware Slot 1

1.00

TGP500 12.17
TGP550T04 12.17
UT123 1.061
UT133 1.061
UT136 1.133
UT670 1.022

Firmware Slot 2

1.01

TGP500 12.58
TGP550T04 12.58
UT123 1.133
UT133 1.133
UT136 1.133
UT670 1.072

- You can see slot 1 has version 1.00 which consists of different firmware versions for each model of phone listed below the slot number. In slot 1 we see the firmware for the UT123 phone would be 1.061.
- To install the firmware press the submit button at the bottom of the page.

Submit

- While the firmware is downloading and installing you will see the page refresh with the downloading message.

Firmware Revisions for Panasonic

Available Firmwares

Firmware Slot 1

Firmware successfully installed.

1.00

TGP500 12.17
TGP550T04 12.17
UT123 1.061
UT133 1.061
UT136 1.133
UT670 1.022

Firmware Slot 2

Firmware downloading and installing.
Please wait.

1.01

TGP500 12.58
TGP550T04 12.58
UT123 1.133
UT133 1.133
UT136 1.133
UT670 1.072

- At any time you can drag a firmware from a slot back into the Available Firmware box to remove the firmware from that slot number and move a different firmware version into a specific slot number.

Firmware Revisions for Panasonic

Available Firmwares



Firmware Slot 1
Firmware successfully
installed.

1.00

Firmware Slot 2

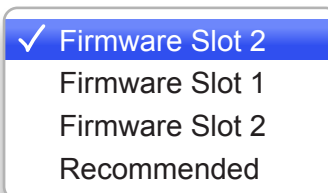


TGP500 12.17
TGP550T04 12.17
UT123 1.061
UT133 1.061
UT136 1.133
UT670 1.022

- Once you have the firmware installed you can go into any of your templates that you have created and pick which firmware that template should use for the devices that are mapped to your template.

Firmware Version ?

Available Phones



- You can pick from Slot 1 or Slot 2. You can also pick Recommended and this template will use the recommended version that we have used for all of our base testing.

Network Scan

Network Scan is software that will scan your network for all MAC address of all the devices we support and present you all MAC addresses for devices that are currently not mapped in Extension Mapping and let you map those MAC addresses automatically to any extension and template. This allows for quick setup of your phones. Please note network scan can only scan for devices that are on the same physical network as the PBX so if the phones are on a different network it will not find the devices.

When you first open the Network Scan page it will start a scan of your network. This can take up to 30 seconds so be patient waiting for the page to load as it is scanning. Once the scan is completed you should see a screen like below.

EndPoint Manager is Currently BETA

Available Devices

Scan this Subnet (x.x.x.x/x):

Scan This Subnet

| Extension | Brand | MAC | Template | Model |
|-----------|-------------|--------------------------|----------|----------|
| Select ▾ | Grandstream | 10.10.0.247 000000000000 | Select ▾ | Select ▾ |
| Select ▾ | Cisco | 10.10.0.4 000000000000 | Select ▾ | Select ▾ |
| Select ▾ | Cisco | 10.10.0.3 000000000000 | Select ▾ | Select ▾ |

In our example we see it found 1 Grandstream device and 2 Cisco devices. It will auto fill in the Brand and MAC address and display the IP address to you. From here you simple pick the extension you want to assign this device to and also pick a Template and Model. Just like you do in the Extension Mapping area.

| Extension | Brand | MAC | Template | Model |
|-----------|-------------|--------------------------|----------|----------|
| Select ▾ | Grandstream | 10.10.0.247 000000000000 | Select ▾ | Select ▾ |
| Select ▾ | Cisco | 10.10.0.4 000000000000 | Select ▾ | Select ▾ |
| Select ▾ | Cisco | 10.10.0.3 000000000000 | Select ▾ | Select ▾ |

Once done press the submit button at the bottom of the page.

The system will then generate the configuration files for the phone and they will now be displayed in the normal Extension Mapping page and you can edit and manage any advanced setting from there.

Extension Mapping

| Select Extension | Brand | MAC Address | Template | Model | | |
|------------------|---------------|--------------|--------------------|------------|---|-----------------|
| 4002 ▾ | grandstream ▾ | 000000000000 | grandstream-test ▾ | GXP-2124 ▾ |  | Advanced |

You can rescan the network or change the network subnet at the top of the page. We attempt to auto discover the network subnet of the PBX but you may need to change this if it does not discover correct.

Scan this Subnet (x.x.x.x/x):

Scan This Subnet

Extension Page Hooks

The End Point Manager hooks into the extension page of your PBX. From the extension page you can view the Brand, MAC Address, Template and Model that each extension is using.

Brand?

Grandstream

MAC?

00000000000

Template?

grandstream-test

Model?

GXP-2124

You can change any of these setting at anytime and upon submitting the Extension the new configuration file for this extension will be generated.

Submit

When creating a new extension you can also set the same 4 options to have the system generate your configuration file for this extension.

Brand?

MAC?

Template?

Select Brand First

Model?

Select Brand First

Once you add a device for this extension it will be displayed in the normal Extension Mapping page and you can edit and manage any advanced setting from there.

Extension Mapping

| Select Extension | Brand | MAC Address | Template | Model | |
|------------------|-------------|-------------|------------------|----------|--------------------------------|
| 4002 | grandstream | 00000000000 | grandstream-test | GXP-2124 | <div><div></div>Advanced</div> |



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