



Topic / Issue: Basic Aastra Configuration Guide for use as a local Quadro Extension

Written By: Chris Pulsford
Public Directory: <http://voip.alloy.com.au/config.htm>

Due to the strategic partnership between Epygi and Aastra you can fully or partially auto-provision an Aastra IP Phone as an extension of a Quadro PBX using the automatic configuration capability of Quadro.

The Quadro must be running firmware version 4.1.33 or later and the Aastra phones must be running firmware 2.0.1 (5 series models) or 1.4.1 (3 series models) or later.

Option 1: Full Auto-Deployment

This relies on using Quadro's DHCP server to assign IP parameters to the Aastra phone. When this is the case, the Quadro will provide the IP parameters to the Aastra phone, setting itself as the Boot Server and providing the phone with a configuration file that will provision the phone as an extension.

By default, the Quadro's DHCP service is enabled.

Main System Users Telephony Internet Uplink Network

DHCP Settings for the LAN Interface

Enable DHCP Server
 Give leases only to hosts listed in the Special devices table.

Dynamic IP Address Range: from 192 . 168 . 100 . 200 IP-Clipboard to 192 . 168 . 100 . 254 IP-Clipboard

WINS Server: 0 . 0 . 0 . 0 IP-Clipboard

Special devices:
[Add](#) [Edit](#) [Delete](#) [Select all](#) [Inverse Selection](#)

	Hostname	MAC Address	Static IP Address
<input checked="" type="checkbox"/>	Aastra9133i	00:08:5D:03:5A:D0	192.168.100.15

[View DHCP leases](#)

The Special Devices table allows you to assign specific IP address to certain devices based on their MAC address. If the 'Give leases only to hosts listed in the Special Devices table' setting is enabled only devices listed in the table will be given an IP lease from the Quadro.

To assign IP addresses to the Aastra IP Phones by using the special devices table, add the Aastra phones details into the special devices table.

Each IP Phone connected to a Quadro PBX uses one IP Line to register. The setting 'PnP for IP Lines' is enabled by default. This is required for the full auto-deployment.

When an Aastra phone with default settings is connected to the LAN, The Quadro will provide the IP parameters to the phone and also the configuration file for that model. The first available IP Line will be used to provision the phone and it will be assigned the attached extension number. Once the config is loaded the Aastra will reboot. Connect the IP Phones to the LAN in the order you want them to be numbered as extensions. Wait until the phone is fully provisioned before connecting the next phone.

Once the extension is provisioned, you will see a Web hyperlink in the details column of the IP Lines list. You can click on this link to open the phones GUI in a new browser window.

If the Firmware Version Control setting is enabled, The Quadro may force an upgrade of the phones firmware by connecting it to Epygi's web server. If you do not wish the Quadro to manage the phone firmware, disable this setting.

Main System Users Telephony Internet Uplink Network

Line Settings

[Onboard Line Settings](#) [IP Line Settings](#)

Available IP Lines	Attached Extension	Type	Details
IP Line 1	11	SIP	UserName: locext11, Model: 53i, 00:08:5D:18:D7:31, Web
IP Line 2	12	SIP	UserName: locext12, Model: Snom 300, 00:04:13:28:00:56, Web
IP Line 3	13	Inactive	
IP Line 4	14	Inactive	
IP Line 5	15	Inactive	
IP Line 6	16	Inactive	
IP Line 7	17	Inactive	
IP Line 8	18	Inactive	

Enable PnP for IP lines
 Enable firmware version control

Option 2: Partial Auto-Deployment

This method does not rely on the Quadro DHCP service. This allows you to disable DHCP on the Quadro, statically address the IP Phones and still use the Quadro' Aastra configuration file.

Main System Users Telephony Internet Uplink Network

IP Line Settings - IP Line 1

Inactive
 SIP Phone

Phone Model:

MAC Address: : : : : :

Line Appearance:

Username:

Password:

Use Session Timer

Go to Telephony > Line Settings > IP Line settings and select an available IP Line. Set the line to SIP Phone and select the Aastra model from the drop-down list. Enter the MAC address of the phone. Set the Line Appearance as required. This will restrict the number of calls that the phone can handle at one time. Set an authentication username and password.

Using the settings option on the Aastra handset, enter the Admin menu and set the IP address, subnet mask and gateway (Quadro IP) parameters. Go into the Config server settings and set TFTP as the download protocol and set the Quadro as the primary TFTP server. Reboot the Phone. The phone will reboot and download the config file from the Quadro and be provisioned as an extension.

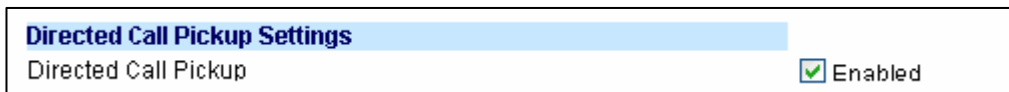
Additional Aastra configuration

Key	Type	Value	Line
1	Speeddial	*01	1
2	Do Not Disturb	208/xmlservice.cgi?ipphone=aastra&extensions=63	1
3	Callers List		1
4	BLF	12	global
5	BLF	13	global
6	Last Call Return		1

The config file provided by the Quadro will provision the phone as an extension and configures some of the hard coded function keys on the phone but will not setup the programmable keys. To do that, you can use the phones GUI and set the parameters of these keys manually. Depending on the Aastra model, you may also have the option to program some soft keys.

To configure the keys so they can monitor the status of other Quadro extensions, set the key type to BLF (Busy Lamp Field) and set the extension number of the monitored phone in the Value field. The LED assigned to this key on the phone will show the status of the monitored extension.

You can also pickup a ringing call from a monitored extension by pressing the programmable key when the LED is flashing. To allow this, enable the Directed Call Pickup option on the Preferences page of the Aastra GUI.



Summary:

(If required)

Simplify the configuration of Aastra IP phones as Quadro extensions using Epygi's Auto-Deployment feature.