

TechnicalArticle.doc Version1.0 23/10/07

Topic / Issue:	Basic Quadro Configuration
Written By:	Chris Pulsford

Configuring the LAN interface of the Quadro

The default IP address for Quadro IP PBX units is 172.30.0.1

Configure your local LAN IP address in your PC or Notebook to the same range as this IP. (Suggest 172.30.0.5)

Then use Internet Explorer or Firefox to browse the Quadro IP PBX management interface. By default the Administrators Username is admin and the Password is 19.

	Quadro	cepygi guadro
Quadro4x Ma	anagement	
Login		
Login as an Administrato	or or Extension.	
Username / Extension:	admin	
Password:	••	
Login		
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To configure the LAN interface of the Quadro, Select System Configuration Wizard from the System menu. This will open the System Configuration Wizard.

Main	System Users Telephony	Internet Uplink LAN Service	epvgi
	System Configuration Wizard		· · · · · · · · · · · · · · · · · · ·
	Internet Configuration Wizard		quadro
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Activ	Configuration Management		
A.C.	Update Configuration		
C-11.0	Events	us Called Dhama	
<u>cails</u>	Time / Date Settings	<u>Called Phone</u>	
	Mail Settings		
-	Firmware Update		
	Networking Tools		
	Diagnostics		Boot loader: 3.0.32/Release
	Automatic Provisioning		Firmware Version: 3.0.38/Release
	Features		Users currently logged in .
	Upload Language Pack		- admin from 203.33.178.51, expires 12:25
Interne	et connection status: static IP		
Please	e check your pending events!		
yright (C) 2005 Epygi Technologies, Ltd. All rights re	served.	

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Set your Emergency Code to 000 for Australian emergency services. Set a PSTN Access Code to route calls over the PSTN. Selecting 0 will mean dialling 0 then the desired phone number.

Cancel

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Configuring the WAN interface of the Quadro

Select Internet Configuration Wizard from the System menu.



1. PPPoE mode Option

Select the protocol for the WAN interface. If you are connecting to the Internet via an ADSL modem, select PPPoE. If you are running the Quadro behind a router, select Ethernet mode (see next section). Set your Upstream and Downstream Bandwidth parameters according to your internet connection. Specify a Minimum Data Rate. The Quadro will provide basic Quality of Service (QoS) by prioritizing Voice traffic over Data traffic. Set a minimum data rate to ensure voice does not use all of the bandwidth, preventing data transfer.

Important:

Alloy recommend for ease of installation and best results that the Quadro IP PBX be used as the Internet Router. Any Modem / Routers installed with the Quadro should be configured as Modem only (Bridging). The Quadro IP PBX should have the public IP on its WAN interface not the modem.

Internet Configuration Wizard

Uplink Configuration				
WAN Interface Protocol:				
		WAN	Interface Bandwidth:	
● PPPoE	Upstream:	128	[kbit/s] (max. 10000)	
	Downstream:	512	[kbit/s] (max. 10000)	
O Ethernet	Min Data Rate:	32	[kbit/s]	
Previous		Next	Cancel	Help

Enter the IP Address provided by your ISP if you have a static address, or leave Dynamic IP Address selected if your ISP uses dynamic addressing.

Internet Configuration Wizard

PP Configuration	n				
 Address Assignment Dynamic IP Address 					
O Fixed IP Address	Fixed IP Address:		IP-Clipboard		
O Fixed IP Address	Fixed IP Address:	,,,,,	IP-Clipboard		
	I				
Prev	ious	Next	Car	icel	Help

If your ISP has provided a MAC Address for authentication purposes, enter it here (this is not common) otherwise leave the default MAC address selected. You can select the packet size here if your Internet connection does not support the default maximum size.

Internet Configuration Wizard

WAN Interfac	IAN Interface Configuration							
MAC Address Assig	nment							
This device:	00:09:bd:01:14:86							
O User defined:	00_:00_:8c_:01	: 05 : d5						
Maximum Transfer U MTU: 1492 💌 I	Jnit (MTU) Bytes							
	Previous	Next	Cancel	Help				

Internet Co	onfiguration	Wizard				
DNS Setting	s					
Nameserver assi	gnment					
O Dynamically	by provider					
Fixed Name	server Address Nam	eserver:	202 . 45 . 198	IP-Clipboard		
	Alterr	native Nameserver:	203 . 35 . 26	. 154 IP-Clipboard		
	I]		
	Previous		Next	Cancel		Help
Userna	ation Settings: me: username@ISF	°.com.au				
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nish to complete the configuration of the WAN interface				
nternet Configuration	Wizard			
Summary Page				
All settings are done. By pressing 'Finish' ye	u will			
 save and activate all settings start the rollback feature 				
Depending on your IP settings it is possible ATTENTION: You have to confirm these setti	hat you cannot reach the device any more. You r igs on the main index page within 20 minutes. If	nay have to reboot or reconfigure your PC. not, the device will switch back to the previ	ous configuration and reboot	
Previous	Finish	Cancel	Help	
1	1	1	1	

Click OK to confirm the settings. If you don't click OK within 20 minutes, the previous configuration is restored.

Home
Confirm settings
Please press the 'Ok' button to confirm the settings. If you don't press 'Ok' within 20 minutes after start the system restores the previous configuration Ok
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2. Ethernet mode Option

Select Ethernet mode when running the Quadro behind a router. Set the Upstream / Downstream Bandwidth parameters according to your internet connection. Specify a Minimum Data Rate. The Quadro will provide basic Quality of Service (QoS) by prioritising Voice traffic over Data traffic. Set a minimum data rate to ensure voice does not use all of the bandwidth, preventing data transfer.

Internet	Config	uration	Wizard
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Uplink Configuration			
WAN Interface Protocol:			
O PPPOE	Upstream: 256	WAN Interface Bandwidth:	
O PPtP	Downstream: 1500	[kbit/s] (max. 10000)	
 Ethernet 	Min Data Rate: 48	[kbit/s]	
Previous	Next	Cancel	Help

If your IP Address is provided dynamically by your Router (or server), leave this option selected, otherwise select Assign Manually and enter a static IP Address. Specify the LAN IP address of the Router as the Default Gateway.

Internet Configuration Wizard

🔿 Assign automatically via DHC	P						
Assign manually	IP Address: Subnet Mask: Default Gateway:	203 . 63 255 . 25 203 . 63	, 28 5 , 255 , 28	. 211 . 0	IP-Clipboard IP-Clipboard IP-Clipboard		

The MAC Address used on the Quadro WAN can be changed but normally would be left as default. You can select the packet size here if your Internet connection does not support the default maximum size.

Internet Co	nfiguration Wizar	d		
WAN Interfac	e Configuration			
MAC Address Assig	Inment			
This device:	00:09:bd:01:14:86			
O User defined:				
Maximum Transfer MTU: 1500 💌	Unit (MTU) Byles			
	Previous	Next	Cancel	Help

Some networks will dynamically provide DNS information. If not enter them here.

Internet	Configu	Iration	Wizard

C	NS Settings				
	Nameserver assignment				
	O Dynamically by provider				
	Fixed Nameserver Address	Nameserver:	203 , 63 , 28	. 229 IP-Clipboard	
		Alternative Nameserve	er: 203 , 63 , 28	230 IP-Clipboard	
	Previous		Next	Cancel	Help

Internet Configuration Wiz	ard		
Summary Page			
All settings are done. By pressing 'Finish' you will			
 save and activate all settings start the rollback feature 			
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Development	Finish	Cancel	Help

Click OK to confirm the settings. If you don't click OK within 20 minutes, the previous configuration is restored.

Home
Confirm settings
Please press the 'Ok' button to confirm the settings. If you don't press 'Ok' within 20 minutes after start the system restores the previous configuration Ok
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Important Information for Configuration behind existing Routers and Firewalls.

To achieve basic internet connectivity behind an Existing Router (NAT or Routing) you will need to expose several port ranges, and if in NAT mode Port Forward these to the Private WAN IP of the Quadro.

We have listed the basic ports required.

(for more complex configuration these may need to be expanded on)

Protocol	Port Range
TCP (SIP)	5060
UDP (SIP)	5060
UDP (STUN)	4569
UDP (STUN)	3478-3479
TCP (STUN)	3478-3479
UDP (RTP)	6000-6100

Status Information



After configuring the LAN and WAN interfaces of the Quadro, you can check the status by selecting Status from the System menu.

This will tell you if the interfaces are connected. If both WAN and LAN are correctly configured and connected, there should be an entry for each in the Interfaces table.

Quadro Status - Network Status

General Information	Interf	aces				
Network Status		Interface name	IP address	Subnet Mask	Properties	<u>Monitor</u>
<u>Lines Status</u>		LAN	172.30.0.1	255.255.0.0	MAC: 00-09-BD-01-14-85	Watch LAN
Memory Status		WAN	203.33.178.210	255.255.255.0	MAC: 00-09-BD-01-14-86	Watch WAN
SIP Registration Status	Defa	ult Gateway:	203.33.178.13	1		
	DNS	Server:	203.33.178.12	9		
	Alter	native DNS Server	r: 203.33.178.13	0		

General Information	Extension	<u>Reg. Name</u>	<u>Server</u>	Registered	Registration Time
Network Status	00	77078900	sip.epygi.com	Yes	28-Nov-2005 12:55:16
Lines Status	34	77078934	sip.epygi.com	Yes	28-Nov-2005 12:55:15
Memory Status	33	77078933	sip.epygi.com	Yes	28-Nov-2005 12:55:14
Hardware Status	32	77078932	sip.epygi.com	Yes	28-Nov-2005 12:55:13
SIP Registration Status	31	77078931	sip.epygi.com	Yes	28-Nov-2005 12:55:12
	14	77078914	sip.epygi.com	Yes	28-Nov-2005 12:55:12
	13	77078913	sip.epygi.com	Yes	28-Nov-2005 12:55:10
	12	77078912	sip.epygi.com	Yes	28-Nov-2005 12:55:09
	11	77078911	sip.epygi.com	Yes	28-Nov-2005 12:55:08

In the SIP Registration Status page, you can check that the Quadro is registered to the Epygi SIP Server. Once connected to the internet, this should be automatic. As ITSP accounts are created, the Quadro will automatically register with the SIP Servers of the ITSPs.

(Please allow a few minutes)

Configuring IP Lines Select Line Settings from the Telephony menu.



Analogue phones directly connected to the FXS (phone) ports on the Quadro should not need any configuration. Click on IP Line Settings to configure Lines for attached IP Phones. For each IP extension that will be used (Attached Extension column) the corresponding IP line must be enabled. Click on Line 1 to enable a line for Extension 31.

Line Setting	js		
Onboard Line Settings	IP Line Settings		
Available IP Lines	Attached Extension	<u>Type</u>	<u>Details</u>
IP Line 1	31	Inactive	
IP Line 2	32	Inactive	
IP Line 3	33	Inactive	
IP Line 4	34	Inactive	
IP Line 5 (disabled)	35	Inactive	
IP Line 6 (disabled)	36	Inactive	

Select SIP phone to configure the line as attach to an IP phone supporting the SIP protocol. Set the Line appearance value to the number of calls that can be presented to the SIP phone. If greater than 1, simultaneous calls will be presented as Ring and not necessarily go to voice mail as a Busy. **IP Line Settings - IP Line 1** Inactive O MGCP Phone IP-Clipboard IP Address: Gateway Name: Endpoint Name: aaln/1 SIP Phone Line Appearance: 2 SIP-Clipboard Username: Password: Save Back The Username and Password is used to authenticate the IP phone or Soft-phone that connects to this Extension.

Configuring the Extensions

Select User Management and Extension Settings from the Users menu.

Main System	Users Te	lephony In	ternet Uplink	LAN Services
	User Manage	ment and Extens	sion Settings	
	Change Admi	n Password		
Quadro4	lx Mana	gement		
Active Call	\$			
Active Call	s			
Active Call	S Call Duration	Calling Phone	Called Phone	1

Tick the box of the extension you want to configure and click Edit. Analogue extensions start at 11 and IP extensions start at 31.

User Management

Add Edit Delete Select all Inverse Selection

<u>Extension</u>	<u>Display Name</u>	Attached Line	SIP Address	Percentage of System Memory	<u>Call</u> <u>Relay</u>	<u>Codecs</u>
00	Attendant		77078900@sip.epygi.com:5060	3% (5 min 53 sec)		<u>PCMU,</u>
<u>11</u>		Line 1	77078911@sip.epygi.com:5060	4% (7 min 51 sec)	No	<u>G726-32,</u>
<u>12</u>		Line 2	77078912@sip.epygi.com:5060	4% (7 min 51 sec)	No	<u>G726-32,</u>
<u>13</u>		Line 3	77078913@sip.epygi.com:5060	4% (7 min 51 sec)	No	<u> G726-32,</u>
<u>14</u>		Line 4	77078914@sip.epygi.com:5060	4% (7 min 51 sec)	No	<u>PCMU,</u>
<u>31</u>	31	IP Line 1	77078931@sip.epygi.com:5060	4% (7 min 51 sec)	No	<u>G726-32,</u>
<u>32</u>	32	IP Line 2	77078932@sip.epygi.com:5060	4% (7 min 51 sec)	No	<u> G726-32,</u>
<u>33</u>	33	IP Line 3	77078933@sip.epygi.com:5060	4% (7 min 51 sec)	No	<u>G726-32,</u>
<u>34</u>	34	IP Line 4	77078934@sip.epygi.com:5060	4% (7 min 51 sec)	No	<u>G726-32,</u>

Give each extension that is to be used a display name. This is used to identify extensions in the management interface. The Password is used to restrict access to the users Voice Mail and other Extension Features.

User Management - Edit Entry						
Extension Settings						
Extension	31					
Display Name	31					
Password	•••••					
Confirm Password	•••••					
Attached Line	IP Line 1 💌					
Allow Call Relay						
Use for Call Park						

Configuration summary:

Once you have configured the above settings and attached an IP Phone.

You should be able to:

- A) Make extension to extension calls
- B) Making and receiving SIP calls to/from other Quadro's via Epygi's SIP Server
- C) If a PSTN connection exists Make and receive PSTN via the External Line Prefix
- D) Connect to the Epygi test service. (Dial 899 for Epygi in the United States)

Also Try:

- 1) Dial 00 for the Auto Attendant
- 2) Dial *0 for your Voice Mailbox
- 3) Dial *74 for IP line Settings

NOTE: For more in-depth configuration of Both Aastra and Snom IP phones, see Aastra and Snom "Configuration with Epygi IP PBX" support page.