

Release Note Quadro4L/2x2 5.3.21 Edition 1

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1 Introduction

This Release Note describes hardware and software requirements to use with the

Quadro4L/2x2 software 5.3.21 Date: February 25, 2013

Additional enhancements, bug fixes and known issues incorporated in this software will be listed as known.

Date: March 11, 2013

2 Requirements

2.1 Hardware requirements

- The software can be used on all Quadro4L/2x2 models.
- The model name is written on the back plate of the unit and the model number is on the bottom label.

2.2 Software requirements

- A software upgrade can be made from 5.2.58 or later software.

2.3 Supported and Tested SIP phones

Listed below are the Epygi Supported SIP phones with the corresponding firmware versions that are tested and recommended for use with Quadro4L/2x2 SW 5.3.21.

Vendor	Model	Software
snom	300	Application: snom300-SIP 8.4.35
snom	320	Application: snom320-SIP 8.4.35
snom	360	Application: snom360-SIP 8.4.35
snom	370	Application: snom370-SIP 8.4.35
snom	710	Application: snom710-SIP 8.7.3.15
snom	720	Application: snom720-SIP 8.7.3.15
snom	760	Application: snom760-SIP 8.7.3.15
snom	821	Application: snom821-SIP 8.4.35
snom	870	Application: snom870-SIP 8.4.35
snom	MeetingPoint	Application: snomMP-SIP 8.4.35
Aastra	9143i (33i)	Application version: 2.6.0.2019-SIP
Aastra	9480i (35i)	Application version: 2.6.0.2019-SIP
Aastra	9480iCT (35iCT)	Application version: 2.6.0.2019-SIP
Aastra	6753i	Application version: 2.6.0.2019-SIP
Aastra	6755i	Application version: 2.6.0.2019-SIP
Aastra	6757i	Application version: 2.6.0.2019-SIP
Aastra	6757iCT	Application version: 2.6.0.2019-SIP
Aastra	6730i	Application version: 2.6.0.2019-SIP
Aastra	6731i	Application version: 2.6.0.2019-SIP
Aastra	6739i	Application version: 3.2.2.2088-SIP

Please Note: Any problems and limitations on these SIP phones are described in detail in the **Quadro Features on Supported IP Phones** document.

Please Note: Quadro IP phones firmware control mechanism will not upgrade snom firmware version from 6.x to 7.x. This should be done manually via snom web site. Once the snom firmware version is 7.x, the Quadro's firmware control will automatically upgrade/downgrade the phone to Epygi's recommended version but not to 6.x.

Listed below are the Epygi Tested SIP phones with the corresponding firmware versions that are tested and recommended for use with Quadro4L/2x2 SW 5.3.21.

Any problems and limitations on these SIP phones are described in detail in the **Quadro Features on Tested Phones** document.

Vendor	Model	Software
Alcatel Temporis	IP200	13.60.0.89
Alcatel Temporis	IP600	14.60.0.89
Alcatel Temporis	IP800	15.60.0.89
Audiocodes	310HD	1.6.0_build_37
Audiocodes	320HD	1.6.0_build_37
Cisco	SPA525G2	7.4.9c
Cisco	SPA303	7.4.9c
Cisco	SPA501G	7.4.9c
Cisco	SPA509G	7.4.9c
Polycom	SoundPoint IP 330SIP*	Application: SIP software 3.3.1.0933
Polycom	SoundPoint IP 331SIP*	Application: SIP software 3.3.1.0933
Polycom	SoundPoint IP 335SIP*	Application: SIP software 3.3.1.0933
Polycom	SoundPoint IP 450SIP*	Application: SIP software 3.3.1.0933
Polycom	SoundPoint IP 550SIP*	Application: SIP software 3.3.1.0933
Polycom	SoundPoint IP 650SIP*	Application: SIP software 3.3.1.0933
Polycom	SoundStation IP 5000*	Application: SIP software 3.3.1.0933
Polycom	SoundStation IP 6000*	Application: SIP software 3.3.1.0933
Polycom	VVX 1500*	Application: SIP software 3.3.1.0933
Polycom	KIRK wireless server 300	PCS08__
Polycom	KIRK wireless server 6000	PCS08__
Panasonic	KX-TGP550T04	12.17
Panasonic	KX-UT123-B	01.061
Panasonic	KX-UT136-B	01.061
snom	PA1	8.4.35
snom	m9	9.4.7
Grandstream	GXP1400	Program- 1.0.4.13
Grandstream	GXP1405	Program- 1.0.4.13
Grandstream	GXP1450	Program- 1.0.4.9
Grandstream	GXP2000	Program- 1.2.5.3
Grandstream	GXP2100	Program- 1.0.4.9
Grandstream	GXP2110	Program- 1.0.4.9
Grandstream	GXP2120	Program- 1.0.4.9
Grandstream	GXP2124	Program- 1.0.4.10
Grandstream	GXV3140	Program- 1.0.7.3
Grandstream	GXV3175	Program- 1.0.3.22
Grandstream	HT286	Program- 1.1.0.26
Grandstream	HT386	Program- 1.0.3.96
Yealink	SIP-T20P	SW version: 9.61.0.85

Vendor	Model	Software
Yealink	SIP-T22P	SW version: 7.61.0.80
Yealink	SIP-T26P	SW version: 6.61.0.83
Yealink	SIP-T28P	SW version: 2.61.0.80
Yealink	SIP-T32G	SW version: 32.70.0.100
Yealink	SIP-T38G	SW version: 38.70.0.100
Yealink	VP-2009P	22.21.0.40/22.30.0.60
Yealink	VP-530	23.70.0.40
Fanvil	C62	2.2.75.28

Both mentioned documents are available at www.epygi.com and can be found under the Channel's Portal.

Please Note: In the model's list the Polycom phones with (*) sign are also presented as **Polycom-xx-Pre-3.3.0** due to backward incompatibility of UCSoftware 3.1.1 configuration. It is recommended to use **Pre-3.3.0** models with Application SIP software 3.2.2.0477.

Please Note: The usage of Key System Emulation (KSE) services (available only for Quadro4L) is limited currently to the following IP phone models with the perspective to enlarge the list with new models in the future:

- Aastra 480i
- Aastra 480iCT
- Aastra 9133i
- Aastra 9480i
- Aastra 9480iCT
- Aastra 9143i
- Aastra 6755i
- Aastra 6757i
- Aastra 57iCT
- Aastra 6730i
- Aastra 6731i
- Aastra 6739i
- snom 320
- snom 360
- snom 370
- snom 710
- snom 720
- snom 760
- snom 820
- snom 821
- snom 870

Please Note: There is an issue with duplicated keys on snom 370 phones. For details see **16753** under Known issues

2.4 Interaction with other Quadro SW releases

QuadroISDN or QuadroFXO external PSTN gateways used in the shared mode should have SW 5.1.12 or higher to achieve maximum feature functionality with the Quadro4L/2x2 SW 5.3.21.

Quadro FXS 16 Gateway should have SW 5.2.1 or higher for PnP configuration with the Quadro4L/2x2 SW 5.3.21.

ActiveX Control SW 5.3.0 or higher should be used with 3pCC functions with the Quadro4L/2x2 SW 5.3.21.

Auto Dialer SW 1.0.5 or higher should be used with the Quadro4L/2x2 SW 5.3.21.

DCC SW 1.8 or higher should be used with the Quadro4L/2x2 SW 5.3.21.

To use Quadro4L/2x2 SW 5.3.21 with a 3pcc or Click2Dial application the "3pcc/Click2Dial Login Allowed" checkbox should be enabled for each extension(s) using this feature.

3 New Features History

The table below indicates a high-level list of new features that have been added beginning with the most recent Quadro4L/2x2 SW release.

Release	New Features
5.3.21	A new warning in the security audit for the case when the filtering on the routing rule is enabled, but the Source Call Type is set to anything but PBX.
	New Automatic Fax Receiving Mode.
	A new feature code (*84) for manually configuring and switching no answer call forwarding on the phone handset.
	PnP and auto configuration support for new IP phones: snom 710, Alcatel Temporis IP200/IP600/IP800, Grandstream GXP2124.
	Auto configuration support for new Fanvil C62 IP phone.
	New "URL" functionality in IP Phones advance settings.
	Support for Yealink T2x's hybrid configuration (M7+M1).
5.3.14	Support for the new Epygi Desktop Communication Console (DCC) application (with a license key).
	The Caller ID based services are improved by adding the presence state of the extension for use with the DCC application.
	Extension watching permission in the Extensions Management-Edit entry page. The watching is enabled by default for all local PBX extensions.
	The maximum number of active calls in Find Me/Follow is now configurable. If the number is set to 1 then only one active call will be possible and the next call will go to voice mail. If that number is >1 then the next call will ring the Find Me/Follow phones which are not on a call.
	Added option for the Auto Attendant Customized Scenario to download the generated script in VXML format.
	Added capability to activate Voicemail profile based on caller id and presence state.
	PnP and auto configuration support for new IP phones: snom 720, snom 760, Yealink SIP T32G, Yealink SIP T38G, Yealink VP 530.
	The Zero-Out redirection in the Call Queue settings is modified with a new option to redirect the call to the Voice Mail of the extension, or to another destination.
	LDAP support for Yealink IP phones.
	The Add Multiple Extensions feature is improved which allows the assignment of the IP Lines to be selected when configuring multiple extensions.
	A new MS Exchange Server option has been added in the Use External Voice Mail settings for extensions. This allows voice messages to be kept in one universal inbox.
	Yealink IP phone configuration support enhanced to auto-detect the phone firmware and to provide the proper configuration.
5.3.2	

4 Changed Features History

The following table provides a high-level list of changed features that have been changed beginning with the most recent Quadro4L/2x2 SW release.

Release	Changed Features
5.3.21	Added Use RTP proxy mode in Call routing for PBX type calls.
	snom PA1 template enhancement: " Intercom Policy " has been added for snom PA1. Its default value is set to "off".
	Distinctive Ring tones have been changed for Yealink phones.
	snom 7xx phones (720 & 760) have been upgraded to FW version 8.7.3.15.

Release	Changed Features
	<p>Recommended FW version for Yealink T3X and VP530 phones is updated to public Version 70 (3x.70.0.100/23.70.0.40 accordingly).</p> <p>New FW recommendations for Aastra , Grandstream, Cisco and Yealink IP phones.</p> <p>Added Speed dial based services for Polycom.</p> <p>Added "Park", DirPckUp, "BrdgeIn" soft keys on Polycom UCSoftware.3.3.1 or higher.</p> <p>Language Pack update for Aastra, Alcatel, Grandstream GXP2000 and Polycom (FW 3.3.1.F) IP phones.</p> <p>Voice mail Specific Profile selection is simplified using the drop-down list of the created profiles.</p> <p>Aastra IP phone template enhancements: Added Callers List Script field, Call Waiting/Hold Reminder/Stutter Tones and Password protected "Options" checkboxes.</p> <p>Maximum allowed number of subscriptions (BLF + MWI) for all IP phones registered on the Quadro increased from 100 to 150.</p>
5.3.14	<p>All preconfigured functions have been removed from Aastras' Programmable Keys Configuration.</p> <p>Improved the voice message played when collecting the user logs using feature code *82</p> <p>Improved the voice message played when user marks the call using feature code *81</p> <p>Added the Log Lines to Show drop down list to choose the maximum number of log lines to display on the View System Logs page.</p> <p>Yealink T2x phones default settings updated.</p>
5.3.2	

5 Fixed Issues

Issues fixed since version 5.3.14:

It is impossible to park or transfer a call when there is a second incoming call in ringing state		17593
D:		
C:		
Only the User type Extensions are shown on Quadro4L/2x2 public directory		17603
D:	Extensions other than User type are not shown in public directory on phones even though they have "Show on public directory" checkbox available	
C:		
An issue with "Automatically attach to IP Line" option in the "Add Multiple Extensions" feature		17529
D:	When "Start From the SIP User Name" field is empty, after generating multiple extensions IP lines are not attached to the extensions.	
C:		
Phone parameters configured in IP Phone Template get default after renaming the Template		17588
D:		
C:		
DHCP server crashes in case of enabling it for both LAN and VLAN interfaces		16418
D:	It`s necessary to use DHCP server simultaneously on both interfaces for organizing IP Phones PnP and auto configuration functionality (when using VLAN) without third party DHCP server.	
C:		
Quadro crashes when using auto redial(*1) for calling to hunt Group with Circular Mode		17686
D:		
C:		
After enabling/disabling the SNMP some of the service agents continue running thus occupying system resources which may destroy Quadro functionality		17728
D:		
C:		
DTMF Caller ID detection doesn't work		17641
D:		
C:		
FW version control option for IP lines doesn't work for snom 821 phone		17591
D:		
C:		

6 Known Issues

D: Description

C: Consequences

Fix: How to avoid the situation, or what to do in case the situation has occurred.

It is impossible to login as 'admin' after making changes on "Advanced PPP Settings" page		9549
D:	You cannot login to the Quadro as 'admin' after making changes on the "Advanced PPP Settings" page. You can only login as 'user'.	
C:	No consequences	
Fix:	Restart the Quadro to resolve this.	
One way audio with IPsec VPN in the scenario "Gateway<->Remote Subnet"		9327
D:	Scenario: <ol style="list-style-type: none"> 1. Establish an IP-Sec connection between two Quadros (connection type is "Quadro <-> Remote Subnet"). 2. Make an SIP call from Quadro1 (gateway) to Quadro2 (remote subnet). 	
C:	The call is established, but there is no audio in Quadro1. The same result will occur when calling from Quadro2 to Quadro1. A direct call cannot be established at all.	
Fix:	Add an additional "Quadro <> Remote Gateway" tunnel in IPsec configuration. With two tunnels: "Quadro <> Remote Gateway", "Quadro <> Remote Subnet" in IPsec VPN configuration this issue will resolved; Or register the IP phone from Remote Subnet as the RE for Quadro.	
Call interception fails in a specific scenario with a watched extension in the many extension ring list		9399
D:	Scenario: <ol style="list-style-type: none"> 1. Use snom360 for receptionist extension (for example, extension #31), 2. Configure Many Extension Ringing on ext. #31 with extensions #31 and #12 in the MER list, 3. Configure extensions #11 and #12 as watched extensions, 4. Make a call to extension #31, 5. The phones for extensions # 31 and #12 will start ringing. 6. The programmable key for the ext. #12 is flashing on the receptionist's ext. #31, 7. Pressing that key the receptionist stops ringing, but ext. #12 is still ringing, 8. Hang-up the phone for that caller's extension. 	
C:	Call interception on the receptionist's line fails. The light for ext. #11 will stay ON on the ext. #31.	
Fix:	This problem is specific for snom phones only. When using a snom phone, calls should be answered on your own extension and not the watched extension.	
An issue with configuring IP phones as local extensions for Quadro IP PBX		13471
D:	Plug and Play and Auto configuration of IP phones is impossible with the modified "HTTP Server Port" on the Quadro.	
C:		
Fix:	Add the changed http port value in the "option tftp-server-name" row ("dhcpd.conf.lan" file) for each IP phone. Example: "option tftp-server-name "http://172.30.38.1:8080". Will be fixed in the future releases.	
Some of the Quadro voice mail services could be unavailable if external Voice Mail is in use for extension		12190

D:	In this scenario some of the features, for example Zero-out and entering the VMS directly with option "1" will not work.
C:	
Fix:	This is normal, as those features are the Quadro's internal VMS system features. If external VMS system is used, user gets the features of that external system.
snom, Aastra, Grandstream and Thomson IP phones may disconnect if you press "Mute" button for a long time (60 min)	
D:	
C:	
Fix:	Under investigation, will be fixed in the future releases.
Aastra IP phone is not ringing when it is used in many extensions ringing list 13830	
	Scenario: <ol style="list-style-type: none"> 1. Many extension ringing is enabled on a virtual extension with an Aastra phone in the list 2. Distinctive Ringing is enabled on that virtual extension with Nickname that contains space
C:	When a call with no Caller ID comes to that extension, the Aastra phone in many extensions ringing list does not ring.
Fix:	The problem is solved if there is a Caller ID available on the incoming call or if the Nickname doesn't contain spaces. This problem is limited to Aastra IP phones only.
An issue with configuring Aastra IP phones as local extensions for Quadro IP PBX 13802	
D:	After changing the LAN IP address for the Quadro the 480i, 9133i and 55i Aastra phones with currently recommended 1.4.1.2000 firmware are not registering after restart.
C:	
Fix:	They must be factory reset to register again. Under investigation. Will be fixed in the future FW versions for Aastra phones.
An issue with distinctive ringing on the snom, Aastra and GrandStream IP phones 11519	
D:	snom, Aastra and GrandStream phones ring only once if the distinctive ringing is enabled with the "winter" ringing pattern.
C:	No consequences
Fix:	Use other ringing patterns for distinctive ringing on snom, Aastra and GrandStream IP phones.
Impossible to track who answered the call coming to SLAs 14156	
D:	Scenario: When Quadro is configured in Key System Emulation mode and incoming FXO call is answered by the phone, it is not possible to track from the active call list or call statistics pages who answered the calls.
C:	
Fix:	Under investigation, will be fixed in the next release.
Call Interception doesn't work on GrandStream GXP2000 configured as a receptionist, when extensions are watched on expansion module 14797	
D:	
C:	
Fix:	Use basic 7 keys instead of expansion module. Will be fixed in the future releases.
Paging and intercom services do not work on the GrandStream BT100 IP phone 14909	
D:	

C:	
Fix:	Currently BT100 has no support for paging/intercom.
It is not possible to pickup (via pickup group) the call to extension with FindMe/FollowMe enabled 15942	
D:	
C:	
Fix:	Will be fixed in the next releases.
After changing Quadro LAN IP configuration (IP address or subnet mask) IP phones lose registration and become unusable 16037	
D:	
C:	
Fix:	After changing Quadro LAN IP configuration first reboot the Quadro then reboot the IP phones. Will be fixed in the next release.
MAC address recognition problem in the FXS Gateway Management" page 16468	
D:	In the page Line Settings-> IP Line Settings->FXS Gateway Management, if FXS Gateway is added manually, the system can't recognize MAC address of FXS Gateway entered in uppercase.
C:	As a result the "Edit" and "Reboot" functional buttons become unusable and then it is not possible to edit existing records or reboot the registered FXS Gateways.
Fix:	Enter the MAC address in lowercase. Will be fixed in the next releases.
A problem with incoming Secure RTP call in a specific scenario 16533	
D:	When incoming Secure RTP call is connecting to the destination via Call Routing table, Quadro always tries to connect it as an un-secure call and the call is being dropped due to the media parameters incompatibility.
C:	
Fix:	Will be fixed in the next releases.
Find me/follow me doesn't work for incoming Secure RTP call 16683	
D:	Though the call came with SRTP option the FM/FM is making unsecure calls
C:	As a result the call isn't established
Fix:	Will be fixed in the next releases.
An issue with duplicated keys on snom 370 phones 16753	
D:	Quadro4L is in Key System Emulation mode. When pressing one of the Shared Line Appearance (SLA) keys, a second key on the phone is also lit. E.g. Pressing key 6 will also light key 4, pressing key 5 will also light key 3, etc.
C:	
Fix:	Should be fixed by snom in the future firmware versions.
The configuration page for Expansion Module is missing when configuring Yealink T28 and T26 as receptionist phones 16971	
D:	In Receptionist Management wizard the Expansion module configuration pages are not available for Yealink T28 and T26 phones.
C:	
Fix:	Will be fixed in the next release.
An issue with Intercom service on snom 8xx phones 17282	
D:	When the snom phone of 8xx series (tested with snom phones 821, 870 running FW version's 8.4.32, 8.4.33) have some watching configured for it's functional keys and the status of the watching resource is changed (e.g. the watching phone receives or makes a call), immediately the next intercom call to snom phone doesn't activate the intercom but continuously ring the phone.
C:	As a result, if the calling phone is configured as watched extension, the snom phone never activates the intercom for that caller.
Fix:	Will be fixed in some future FW release for snom.
Local authentication doesn't work for a call scenario 16784	
D:	Local authentication configured in the Local AAA table by User Login or by PIN

	code is ignored for the following call scenario; a SIP call to Quadro Auto Attendant, then call to a SIP destination.
C:	Quadro doesn't ask for authentication in this case.
Fix:	Will be fixed in the next release.
The expansion module does not work for Aastra, snom and Grandstream phones configured as receptionist 17396	
D:	The settings in the Receptionist Phone Configuration Wizard don't apply to expansion module for Aastra 6755i, snom 370 and Grandstream 2000 phones.
C:	
Fix:	Will be fixed in the next release.
Shared Mailbox watching doesn't work when using "Allow access to Shared Mailbox for enabled extensions" option in Many Extension Ringing configuration 16635	
D:	Extension has Many Extension Ringing enabled with a few extensions configured for Shared Mailbox.
C:	However, in the IP Line settings, the "Shared VMail Ext. xxx" option is not listed in the drop down list for Advanced-Programmable Keys Configuration.
Fix:	Use the "Shared Mailbox: Edit Voice Mailbox Access List" link in the Voice Mailbox Settings for extension. Will be fixed in the next releases.
Call which is done after Call Relay(*2) on auto attendant isn't shown in call statistics 17404	
D:	Only the call to attendant is shown in the call statistics. The call leg after call relay is missing in the call statistics in case if the external caller is terminating the call first.
C:	
Fix:	Use feature code *1 instead of *2 for call relay. Will be fixed in the next releases.
The snom phone doesn't allow multiple call park/retrieve 17340	
D:	Upon successful call park/retrieve on snom the call couldn't be parked again using programmable key.
C:	
Fix:	Will be fixed in some future FW release for snom.
The Network Diagnostics test in System Diagnostics doesn't work 17432	
D:	The Network Diagnostics test in System Diagnostics is failing on the step when checking for physical link.
C:	
Fix:	Will be fixed in the next releases.
Network mode changes in networkphycfgi.cgi hidden page have no effect on data transmission 17525	
D:	Ethernet ports are fixed at 100 Mbps, Full Duplex
C:	
Fix:	Will be fixed in the next releases.
The Programmable Keys don't function on Grandstream GXP2124 phone if configured using Line Keys in IP line Advanced Settings 17709	
D:	
C:	
Fix:	Use Multi-Purpose Keys when programming Keys. Will be fixed in some next FW version for GXP2124.
Extension watching doesn't work on Fanvil C62 phone	
D:	
C:	
Fix:	Will be fixed in the next releases.
DHCP Server status is incorrect in Quadro Status - Network Status-Services 17679	
D:	It shown as stopped even if DHCP server is running

C:	
Fix:	Will be fixed in the next releases.
The "Lamp Indication" option is not enabled by default for extension 17660	
D:	The "Lamp Indication" option in the Voice Mail Settings is not enabled by default for newly added extensions.
C:	
Fix:	Go to the Voice Mail Settings for newly added extension and enable the "Lamp Indication" for visual announcing new voice mails in mailbox. Will be fixed in the next releases.

7 Upgrading Instructions

7.1 Technical Advisory

Attention: For manually configured IP phones, it is now required to have the **SIP Registration Timeout** parameter set to 120 seconds or more on your IP phone. Values less than 120 seconds will not be accepted by the Quadro and will cause the IP phone registration failure on the Quadro.

7.2 General hints

It is recommended to execute the update by downloading the software first to a PC located in the LAN side of the Quadro and perform the firmware update from the LAN side. This is to ensure that the Internet connection will not affect the upgrade process.

In general, the configuration of a system will remain after the software update. Remember that some data is lost during upgrade:

- **Call Statistics**
Workaround - to save the existing call statistics, download it to the PC from Call Statistics-Statistics Settings before performing the firmware update.
- **Voice mails**
Workaround – save the recorded voice mails from the Voice Mailbox before performing the firmware update.
- **All custom voice greetings**
Workaround – backup and download all configuration and voice data to a PC.
- **All custom recordings for the custom Auto Attendant**
Workaround – backup and download all configuration and voice data to a PC.
- **Pending events**
- **Transfer statistics for the network**
- **DHCP leases**

The following steps describe how to correctly perform the firmware update:

1. Save the current configuration by doing a Backup and Download of all config and voice data (**System->Configuration Management->Backup and download all config and voice data**).
2. Perform the Firmware Update.
3. Restore the configuration that was saved in Step 1 (**System -> Configuration Management -> Upload and Restore all config and voice data**).

This is necessary to restore the extension custom voice messages and the custom Auto Attendant messages.

7.3 Limitations and restrictions

- The memory used by "DSP Capture", "Call Capture" and "Network Capture" hidden pages is limited to 3 MB. This will put a limitation on the duration of captured file
- In case if voice mail recording codec is other than PCMU, the maximum length of VM sent by email is limited to 3 minutes
- The number of VMs in the mailbox for one extension is limited to 300
- Use Session Timer in IP Line Settings is deselected by default