

# Release Note Quadro2x 5.2.47, Edition 1

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### **1** Introduction

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

#### Quadro2x software 5.2.47 Date: June 23, 2011

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

# Date: June 27, 2011

### 2 Requirements

#### 2.1 Hardware requirements

**Attention:** The 5.2.x software can be used on almost all Quadro2x units. The exception to this is for older Quadro2x models that have only 32MB of NAND flash memory. The following hardware

versions support 5.2.x: SASY-MICRO-0101-0002, SASY-MICRO-0101-0101, SASY-MICRO-0102xxxx, SASY-MICRO-0103-xxxx

Additional details are provided in **Section 7: Upgrading Instructions** 

#### 2.2 Software requirements

**Attention:** The software upgrade to 5.2.x can **ONLY** be done from 5.1.38 and higher 5.1 versions. Before updating to 5.2.12 the unit should be updated to 5.1.38 or higher 5.1 version first.

#### 2.3 Supported and Tested SIP phones

Below is the list of SIP phones with the corresponding firmware versions that are supported by Epygi and are recommended for optimal compatibility with Quadro2x.

Vendor	Model	Software			
snom	300 Application: snom300-SIP 7.3.27				
snom	320 Application: snom320-SIP 7.3.27				
snom	360	Application: snom360-SIP 7.3.27			
snom	370	Application: snom370-SIP 7.3.27			
snom	820	Application: snom820-SIP 8.2.11			
snom	821	Application: snom821-SIP 8.4.18			
snom	870	Application: snom870-SIP 8.3.2			
snom	MeetingPoint	Application: snomMP-SIP 8.2.1			
Aastra	480i Application version: 1.4.3.23				
Aastra	9112i Application version: 1.4.3.23				
Aastra	9133i	9133i Application version: 1.4.3.23			
Aastra	9143i (33i)	) Application version: 2.5.2.1010			
Aastra	9480i (35i)	Application version: 2.5.2.1010			
Aastra	6751i	Application version: 2.5.2.1010			
Aastra	6753i	Application version: 2.5.2.1010			
Aastra	6755i				
Aastra	6757i	Application version: 2.5.2.1010			
Aastra	6730i	Application version: 2.5.2.1010			
Aastra	6731i	Application version: 2.5.2.1010			
Aastra	6739i	Application version: 3.0.1.38			

**Please Note:** Any problems and limitations on the SIP phones listed below 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.

In the list below are the SIP phones with the corresponding firmware versions that are tested by Epygi. The document **Quadro Features on Tested IP Phones** describes the problems and limitations on the SIP phones that have been tested by Epygi.

**Please Note:** snom IP phones running firmware version 8.x.x do not sending the correct secure RTP media type and the Quadro rejects the call. As a result the call will fail when pressing hold or transfer. For more details and for a workaround see the item **16734** under the Known issues.

7960 SPA525G2	POS3-07-4.00 7.4.8				
SPA525G2	7.4.8				
SPA303	7.4.8				
SPA501G	7.4.8				
SPA509G	7.4.8				
ST201	Application: SipTone 1.2.0 rc Z_21				
SoundPoint IP 300SIP	Application: SIP software 3.1.1.0137				
SoundPoint IP 330SIP	Application: SIP software 3.2.2.0477				
SoundPoint IP 331SIP	Application: SIP software 3.2.2.0477				
SoundPoint IP 335SIP	Application: SIP software 3.2.2.0477				
SoundPoint IP 450SIP	Application: SIP software 3.2.2.0477				
SoundPoint IP 501SIP	Application: SIP software 3.1.3.0439				
SoundPoint IP 601SIP	Application: SIP software 3.1.3.0439				
	Application: SIP software 3.2.2.0477				
	Application: SIP software 3.2.2.0477				
	Application: SIP software 3.2.2.0477				
/VX 1500	Application: SIP software 3.2.2.0481				
	PCS05B				
	3.1.4(a)				
	8.3				
ИЗ	Application: snom-m3-SIP 2.11				
	Application: snom190-SIP 3.60s				
	Application version: 3.56m				
	Application version: 3.56m				
	Application version: IP10 SP v1.0.1 b3				
	APP Version: V2.72				
5000	SW version: 22102154				
3T200	Program- 1.1.6.16				
	Program- 1.1.0.3				
	Program- 1.2.4.3				
	Program- 1.0.1.66				
	Program- 1.0.5.5				
	Program- 1.0.1.4				
	Program- 1.1.0.26				
	Program- 1.0.3.96				
	SW version: 5.1.8				
	SW version: 5.2.8				
	SW version: 5.1.8				
	SW version: 5.2.8				
	3.1.20				
	3.1.15(LS)				
	SW version: 9.43.0.30				
	SW version: 7.43.0.30				
	SW version: 6.43.0.30				
	SW version: 2.43.0.30				
VP-2009/VP-2009p	22.21.0.70				
	Application version: 2 20				
VIBU400 IP550 Spectrum Plus	Application version: 2.20 SW version: 1.7.252.253				
	SPA509G         ST201         SoundPoint IP 300SIP         SoundPoint IP 330SIP         SoundPoint IP 331SIP         SoundPoint IP 335SIP         SoundPoint IP 450SIP         SoundPoint IP 501SIP         SoundPoint IP 601SIP         SoundPoint IP 650 SIP         SoundPoint IP 650 SIP         SoundPoint IP 650 SIP         SoundPoint IP 650 SIP         SoundStation IP 6000         VX 1500         (IRK wireless server300)         SPA 841         A1         A3         90         000         220         P 10S         ST 2030 SIP         S000         B1200         ST100         SXV3140         SXV3175         ST286         SPA921         SPA922         SPA941         SPA921         SPA92002         SPA921         SPA921         SPA921         SPA922         SPA941         SPA942         SPA2002         SPA2002         SPA2002         SPA2002				

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

#### 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 Quadro2x SW 5.2.47.

QuadroFXS 16 Gateway should have SW 5.2.1 or higher for PnP configuration with the Quadro2x SW 5.2.47.

ActiveX Control SW 5.3.0 or higher should be used with 3pCC functions with the Quadro2x SW 5.2.47.

Auto Dialer SW 1.0.5 or higher should be used with the Quadro2x SW 5.2.47.

To use Quadro2x SW 5.2.47 with a 3pcc or Click2Dial application need to enable the "3pcc/Click2Dial Login Allowed" checkbox for the used extension(s).

# **3** New Features History

The table below indicates a high-level list of new features that have been added beginning with the most recent Quadro2x release.

Release	New Features					
5.2.47	Security enhancement. A new security check has been added to prevent an external 3PCC or Click2Dial application from using any of the Quadro features unless specifically authorized from the user's extension settings. The new option (3pcc/Click2Dial Login Allowed) is displayed when doing an edit on the extension and is disabled by default. <b>Please note</b> . If the Quadro extension is currently being used with some 3PCC or					
	Click2Dial application, then this option will need to be enabled after the firmware update or the feature will no longer work. Epygi applications that use 3PCC, such as HotCall and HotKeyCall, do not rely on this setting to be enabled to work. Auto Attendant Customized builder to create Interactive Voice Response (IVR)					
	scenarios from the Quadro GUI. Support for the new Epygi Auto Dialer application (with a license key).					
	TDVC and H.263+ codecs support.					
	Language pack support for Polycom IP phones. Polycom phones change the GUI to the installed custom language.					
	Local Admin password management enhanced. The local admin login password for GUI access is alphanumeric and a second numerical password can be entered for accessing settings from the phone handset, such as the Auto Attendant greeting					
	messages.					
	The Administrator password for phones is added as an item in the security audit. Auto configuration support for Cisco SPA303, SPA501G, SPA509G, SPA525G2 phones.					
	PnP and auto configuration support for Grandstream GXP2120 and GXV3175 phones.					
	PnP support for Grandstream GXV3140 video phone					
	PnP and auto configuration support for Yealink VP-2009P model flavor.					
	Added the falsealertmsg.cgi hidden page to make timeout for false ALERT message configurable. So that Quadro may send to ISDN false ALERT message after some timeout (defined in timeout value) if ISDN side does not receive any ringing from					
	Quadros high level applications.					
5.2.28	New Quadro System Security Management page added with security diagnostics and a security audit					
	Secure system mail allowing to work with TLS or SSL mail servers					
	A new option in Call Routing - Local AAA Table: Authentication by PIN code					
	Possibility to enable/disable TLS functionality for IP Lines and extensions A new option in the extension voice mail settings under the Send new voicemail notifications via e-mail, allowing differentiating between fax messages and voicemail messages when deciding whether or not to receive email notifications, with or without attachments.					
	Admin password management enhanced. The admin login password for GUI access is alphanumeric and a second numerical password can be entered for accessing settings from the phone handset, such as the Auto Attendant greeting messages.					
	PnP and auto configuration support for snom 821					
	PnP and auto configuration support for Aastra 6739i phone					
	Auto configuration support for Grandstream GXV3140 video phone					
	PnP and auto configuration support for Yealink VP-2009 video phone					
	Auto configuration support for snom PA1 paging system Polycom KIRK Wireless server 300 phone support					

Release	New Features							
	Downloaded call statistics enhancements to include detailed information regarding the used interface for each call (PSTN, ISDN, etc), if call had been forwarded, transferred, etc.							
	Viewing the Call Statistics on the Quadro GUI has been updated to select the number of records per page							
5.2.12								
5.2.9	Full support for Secure RTP (SRTP) to encrypt voice packets.							
	Full support for TLS (Transport Layer Security) protocol (RFC 2246) to provide communications privacy for the SIP messaging port over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping of the SIP messages.							
	HD codecs such as G.722 and G.722.1 are now supported in pass-through mode.							
	Security enhancement. Password strength checking has been added in the IP Lines settings table for configuring IP Phones. The system will provide feedback on whether the chosen password is weak. An option is also provided to let the system create a strong, random password. Password strength enforcement can be configured in the hidden menu generalconfig.cgi.							
	Security enhancement. Protection against certain SIP DoS attacks has been added by enabling the "SIP IDS" feature in the hidden menu generalconfig.cgi. Enabling this option will automatically block malicious IPs in the firewall.							
	Global speed dialing. Configured in Telephony/Call Routing/Global Speed Dial Directory. An Excel .CSV file can be used to upload the entries in the format: Code, Number (e.g. 44, 9726921166). Each entry should be on a new line.							
	Emergency Call Interrupt feature in the Caller ID based services. A new feature that will allow specific Caller Ids to be configured so that a call received from one of these numbers will immediately disconnect the call in progress and ring the user's extension.							
	Configuring IP phones from WAN option							
	System logging enhancement. If a user encounters a problem while on a phone call the pertinent details related to the call can be saved. The user will dial *82 (getting dialtone and dial *82 from the same or a different phone) as soon as the problem occurs. The details will be saved until the next time someone enters *82. When the systemlogs are downloaded it will contain the details from the most recent *82 entry. The voicemail to email option can now be configured in Telephony/Voice Mail Common Settings so that the subject of the email contains a user defined text along with selected system variables (e.g. caller id).							
	Option to select the format of FAX in Voice Mail sent by email. Defined in Telephony/Voice Mail Common Settings. TIFF or PDF can be used.							
	A prompt to the user is provided with the option to save the system configuration prior to executing a firmware update							
	Authorized phones database can now be used with a custom auto attendant scenario. This allows callers to bypass authentication in custom auto attendants for user's who have been included in the authorized phone database.							
	Configurable auto attendant Callback Response Delay allows users to specify a timeout before the system will try to call back the user.							

Release	New Features						
	Configurable auto attendant callback activation timeout from the GUI, which allows activating automatic Call Back for trusted PSTN and SIP callers not after the one - two rings as previously defined, but during the time frame specified in the GUI. So now users can configure the activation timeout in seconds needed to wait for initiating the callback. This configuration is accessible from the hidden menu "extmanagement.cgi". Allow the Automatic Callback feature to be used to call back to the originating caller using the "Auto" call type. User can select "Auto" as the "Callback Call Type", while leaving the "Callback Destination" field empty. This will allow to callback to the caller using the Caller ID for callback.						
	Quadro FXS gateway PnP support						
	Support for T38 FAX proxy (from standalone IP Phone in the LAN to outside)						
	Yealink IP phone enhancements. PnP and auto configuration support for T20, T22 and T26 models. Advanced button configuration added in the IP Line Settings. Receptionist configuration support for add on modules. A custom logo image can now be displayed.						
	Polycom IP phone enhancements. PnP and auto configuration for Polycom IP335 and IP450 models. Advanced button configuration added in the IP Line Settings. Receptionist configuration support for add on modules. Custom data files for Polycom IP phones can now be uploaded from the hidden menu ipphonesdirectory.cgi.						
	PnP and auto configuration for Aastra 6730i phone						
	PnP and auto configuration for snom 870 and snom MeetingPoint						
5.1.39							
5.1.38	Ability to configure speed-dial buttons of snom IP phones via IP phone template mechanism						
	The size of NAND Flash memory is shown in the HW status page						
5.1.31	Possibility to download the call statistics in CSV format						
5.1.27	Telematrix IP phones auto configuration support						
	Call Forking (FindMe/FollowMe service)						
	Call max duration (disconnecting call after specified time)						
	Yealink phone auto configuration						
	Reason header in SIP CANCEL message (prevents the call from being reported as "missed" if it was picked up by another extension)						
	Auto configuration and compatibility for Polycom VVX 1500 video phone						
	Automatic logout for HotDesking phones						
	Hot Desking capability enabled for remote extensions						
	Line appearance added on Remote Extensions						
	Park slot segmentation (access list for call parking and retrieve)						

Release	New Features						
	3PCC: capability for 3pcc programmer to modify username						
	Shared Voice Mailbox						
	Call routing table debug/tracing tools (new events raised from Routing rule: call failover, fail, success)						
	Aastra 6731i autoconfiguration and PnP						
	Polycom Soundpoint IP 331 auto configuration and PnP						
	3PCC: ability to differentiate call failure reasons (different error codes)						
5.1.19							
5.1.18							
5.1.17	Music on Hold can originate from the Epygi Media Streamer which is a software application running on a PC that can have a playlist of MP3 files.						
	The Quadro Call Statistics (CDR) can be automatically sent via email or uploaded to an FTP or TFTP server.						
	Plug and Play for Polycom IP Phones						
	Click To Dial (CTD) feature updated to allow calls to be initiated from a Website, connecting two parties together via the Quadro. There are two options to make the call: (a) Using the HTTP request to specific URI from a third party WEB page or application;						
	(b) Using a special hidden page on Quadro's WebGUI (in the hidden menu callcontrol.cgi)						
	New system events added to track IP phones registration status						
	A custom logo image can be displayed on snom 360, 370 and 820 IP Phones						
	Speed Dial numbers can now be updated from the phone handset (*76)						
	Outgoing Call Blocking can be updated from the phone handset (*79)						
	Hot Desking feature. This allows a single phone (IP or analogue phone) to be used by many users. Users can login to the Hot Desking phone (*78) using their extension number, and get all the credentials of their extension until they logout (*78). Virtual extensions can be optioned to provide a simulated ring back. The VE can be						
	assigned to a receptionist phone and this option will now give him/her the option to answer the call before it goes to voice mail.						
	Zero-out on Auto Attendant						
	The Automatic Call Back option has been expanded to include callback to SIP callers. Previously, this feature was specific to PSTN callers.						
	TLS/SSIP support added to send and receive encrypted SIP messages from designated peers						
	Video phone support (proxy mode)						
	E1 MELCAS digital hookflash feature added for E1 CAS to SIP calls						

New Features						
The Unconditional Call Forwarding option has been enhanced so that enabling/disabling the feature from the handset can include the designated caller Ids.						
Load balancing for the FXO lines (including FXO gateways)						
Easier for extensions to forward their calls to external numbers without compromising the security of Call Routing entries that have the PBX filtering option enabled.						
Possibility for a user to designate a bad call in the system logs by dialing *81 after releasing the bad call.						
The Quadro system voice messages can be browsed and updated from a PC using 3PCC						
New features in 3pcc: Using the SIP Dialog package the call states for extensions can be viewed and tracked.						
New features in 3pcc: This feature allows the 3pcc application to subscribe to the Quadro's extension's list and receive an event notification the list has changed.						
New features in 3pcc: The connect function has been added which allows the application to use an extension's authentication parameters (extension number, password). After successful connection establishment an application can manipulate options on the extension.						
New features in 3pcc: Capability to upload the contents of legible configuration files and do the configuration update via 3pCC						
An option to "Discard Non-Numeric Symbols" is added in the Call Routing Wizard to delete extra characters that might be received in the caller id.						
Possibility to append the called number to the caller id using the format <dialednum:range>. This will allow the user to appropriately answer a call based on the number that was dialed.</dialednum:range>						
snom M3 support						
snom820 auto-configuration support						
Ability to download "packages" of CGI's in legible format						
The configuration templates that the Quadro uses for the IP Phones can now be modified.						
Ability to remotely access the Auto Attendant and use the admin login menu (*75) to update the AA greeting messages. Previously this login was only accessible from an extension.						
Capability to configure emergency numbers from the VoIP Carrier Wizard						
Support for multiple extensions adding to quickly and easily configure the system						
Distinctive ringing, intercom and paging support for Polycom IP phones						
Random call hunting						
Capability to choose GUI desired theme in login						
Capability to Show/Hide extensions attached to disabled IP lines in the Extensions Management						
Management						

New Features							
Auto configuration support for the following Linksys IP phone models: SPA941, SPA942, SPA921, SPA922							
Ability to remove the Display name of the call passing through Routing Table							
New Auto Attendant or extension adding process simplified							
Add mechanism for the DND and CallFwd functionality of snom and Aastra IP phones.							
Ability to record voice messages from a phone that are referenced from the Auto Attendant Interactive Voice Response menu. When needed, the recordings can then be easily updated with current messages.							
Support for MS OCS and MS Exchange configuration with Quadro							
It is now possible to reboot each IP phone separately from the Quadro's GUI							
FXO diagnostics have been added to automatically adjust to the best echo cancellation settings							
Added receptionist wizard and expansion module support for Grandstream GXP2000							
Added silent VM recording option in the Voice Mail Settings							
Added Custom Profiles for Voice Mail Settings							
Programmable Keys Configuration page added in the IP Line Settings for snom, Aastra, (except for snom300 and Aastra51i, 9112i), Grandstream GXP2000. There is an advanced link on IP Lines page to configure the programmable buttons of each phone models for the "watching" and for the standard services like "DND" and others							
DHCP Advanced Settings added							
Extended flexibility for the Intercom feature: added PBX-Intercom call type in Call Routing wizard and 3 options to enable Intercom service							
A new checkbox called "Check with 3PCC" is added in Call Routing Wizard. When checking it will allow 3PCC application to place a hook on calls done through that rule							
Local authentication parameters are shown in Details column of Call Statistics							
"Check/Update Now" option is added in Automatic Firmware Update page							
Added SNMP status and configuration							
The results of system configuration backup & download are reflected in the system events							
snom, Aastra and Grandstream phones automatically get rebooted when the Quadro is rebooted							
Added auto configuration support for the following Polycom IP phone models: Soundpoint IP 330, Soundpoint IP 550 and Soundpoint IP 650							
Intercom and paging support for Grandstream IP phones							
Possibility to hide/show disabled records in the call routing table							
SIP P-Asserted-Identity support for SIP calls to ISDN network							

Release	New Features						
	Caller ID can be used to define the call destination in call routing table						
	The "Deny reinvites" option is added for ITSPs that do not support this option.						
	Call forwarding configuration through custom Auto Attendant						
	Added two stage dialing for FXS calls						
	G729/G729a codec type selection is GUI configurable						
	Added dependence for Server status and E1/T1 link status						
	Language pack support for the IP Phones						
	Extended auto configuration capabilities for the Aastra phones. For Aastra phones the "Time-zone" setting has been added to set up this parameter according to Quadro regional settings.						
	Changed the Auto Attendant custom scenario to allow multiple WAV files to be uploaded all at once in a single compressed ZIP file.						
	Added possibility to change the original display name in the Caller ID						
	Added Kickback feature allowing not to lose the call after blind transfer						
	Changed the Subscription limitations and made it configurable from generalconfig. hidden page.						
4.1.58							
4.1.57							
4.1.52	The results of system configuration backup & download are reflected in the system events						
	snom and Aastra phones automatically get rebooted when the Quadro is rebooted						
	Added auto configuration support for the following IP phone models: Aastra51i, snom370						
	Added MSN selection for ISDN Point-To-Point mode						
	Added ISDN BRI timeslot selection in Call Routing (for Japan ISDN)						
	Adjusted timezone parameters for Venezuela according to new standards						
4.1.40	IP phones do not lose registration after Quadro soft reboot (i.e. if the reboot is not initiated by disconnecting/reconnecting the power or pressing the reset button on the back of the Quadro)						
	Possibility to upload and customize system messages (in the uploadownmessages.cgi hidden page)						
	Attendant Ringing Announcement is now available both for default and custom AA scenarios and the selection is moved to the bottom in Attendant Scenario Settings page						
	Possibility to change the default memory size to be allocated as a temporary storage						
	for unified FAX message (in the extmanagement.cgi hidden page)						

Release	New Features							
	Multiedit support in Extensions Management for Codec Settings							
4.1.33	SIP Address Resetting function in the Extensions Management for restoring the default SIP settings of extensions Possibility to change static, running logos, links and browser mini logo (accessible at loadlogo.cgi hidden page)							
	Possibility to change the signaling procedure for hold process in case the "Send Music to Remote Party" is enabled on the extension Added auto configuration support for the following IP phone models: Aastra53i, Aastra55i, Aastra57i, Aastra57iCT, Grandstream GXP-2000, BT-200, (not fully automatic yet), ATL Berkshire 5000, Thomson ST2030s							
	Added PnP	for the Aa	istra53i, Aa	stra55i, A	astra57i, A	astra57iCT		
	IP Line bas The following IP line cape	ng chart c	ompares th	ne previous	s (release 4	4.0.4) IP lin	). e capacity t	o the new
4.1.29		Old	IP Pho Expansion	ne Capacity Max	y Changes (F New Base	XS + IP) Expansion	Expansion	New Max
	Model	Base Capacity	Options	Capacity	Capacity	1	2	Capacity
	Quadro2x	2 + 4	12 User Expansion	2 + 16	2 + 8	8 User Expansion	N/A	2 + 16
4.1.22	Support of	2-stage d	ialing for IS	SDN BRI				
7.1.22	Initial VM Setup via Phone							
4.1.18DS	Support for	<sup>-</sup> US new I	Daylight sav	ving rules				
4.1.18	SIP Trunk							
3 <sup>rd</sup> Party Call Control								
	Flexible Numbering Plan for extensions							
ISDN NT Mode								
	Download IP phone FW and Reboot of Aastra/snom IP Phones							
	Download Quadro Directory via XML to snom/Aastra phones							
	IP Phone Pl	lug-and-Pl	ау					
	Automatic	Quadro FV	V update					
	Easier GUI	for forwar	ding lists					
	Use 8 and 9 for extensions							
	Kill a call from Active Calls page							
	Detect FAX	ring/voice	e ring for A	ustralia				
	Use List pa	ckage for	QCM/Quad	ro notifica <sup>-</sup>	tions			

Release	New Features								
	Distinctive ringing on snom and Aastra IP phones								
	Play custom message instead of ring back tone on Auto Attendant								
	Add month	ı/weekday	to filter						
	Incoming in	nter digit s	service (for	E1/T1 CA	S)				
	Send EVEN	ITS via SM	S						
	CDR Tags f	for Billing							
	DNS/DHCP	' enhancer	nent						
	Daylight sa	avings adju	ustment						
	SMS and E	-mail notif	ication abo	out the call	forwarding	9			
	Change ex	tension pa	ssword from	m phone h	andset				
	Access to e	access to extension voice mailbox from outside by-pass the Auto Attendant							
	Automatic	Automatic backup and download of Quadro configuration							
	IP Line capacity changes, including new IP Line licensing The following chart compares the previous IP Phone capacities to the new IP Phone capacities.							P Phone	
4.0.4	Model	3.x Base	Expansion	3.x Max	y Changes (F New Base Capacity	Expansion	Expansion 2	New Max Capacity	
	Quadro2x	Capacity 2 + 2	Options 4 User Expansion	Capacity 2 + 6	2 + 4	12 User Expansion	N/A	2 + 16	
	QCM centralized licensing included								
3.1.21	SNMP support for event monitoring								
	Intercom service (for snom, Aastra480i and Aastra480e phones)								
	Paging group service (for snom, Aastra480i and Aastra480e phones)								
	Redirection on timeout to the specified address if no action on the AA welcome message								
	AA welcome and menu messages enabling/disabling capability								
	Call queue for virtual extensions								
	Toggling for call routing entries from the handset								
	Retrieve timeout configuration for parked call								
	SDMF Caller ID standard								
1	Routing rules activity timeout								

Release	New Features					
	Capability to make SIP calls using TCP as a transport protocol					
	"Client Code Identification" feature on routing rule (with RADIUS enabled)					
3.1.14						
	Receptionists' Call Queue					
	Extension Status Monitoring					
	Call Interception					
	Direct Transfer to Voicemail					
	Call Park Capability on IP Phones					
	Call Pickup Group					
	Paging support with 3rd party devices					
	Simplified IP Phone Installation (auto configuration for certain IP phones)					
	Administrator Rights Management					
3.1.7	Support for an External Voicemail System					
	Empty Voicemail Truncation					
	QuadroFXO Auto Configuration					
	Proprietary method for Remote Extension to bypass certain types of NAT (Symmetric RTP)					
	Status for Registered IP Lines and Remote Extensions					
	Readable Transfer statistics					
	New voice mail notifications via phone and via SMS					
	Universal extension recording (music on hold, VM greetings, incoming/outgoing blocking messages)					
	Sending unified fax message from mailbox to fax machine					

# 4 Changed Features History

The following table provides a high-level list of changed features that have been changed beginning with the most recent Quadro2x release.

Release	Changed Features
	Added information regarding video codec's under the Details in the call statistics
	Added P-asserted identity header in all SIP messages that contain "p-preffered
	identity" or "Remote-party-ID". Changed the SIP parser for proper processing of From: field in header if URI scheme is
5.2.47	included.
	The SIP IDS configuration options are available in the SIP IDS settings page.
	The "3pcc/Click2Dial Login Allowed" checkbox is available when editing multiple
	extensions at the same time.
	The Skype service is added in the VoIP Carrier list Multiple SMS numbers can be allowed in SMS destination fields, separated by SMS
	provider required delimiter (the comma for Clickatell)
	Extension Login permission to access the Quadro GUI. The login is disabled by default
	for all extensions.
5.2.28	Multiple DHCP subnet support (two subnets allowed instead of one, making it possible to have about 500 devices getting DHCP from Quadro).
0.2.20	The "Send Hold Music to remote IP party" is enabled by default in the Basic services for extensions.
	The Developer Logging is enabled by default.
	The SoTel SIP trunk is modified in the VoIP Carrier Wizard.
	All "Extension Codecs Settings" page parameters are available for any selected group
5.0.10	of extensions in multiple extensions edit mode, including the Secure RTP options.
5.2.12	Changed the behavior of intercom and paging to not interrupt current active call by
	default
	Intercom option has been changed so that an audible sound is now provided to the
5.2.9	called phone to alert the person when the microphone is opened.
	Indication of BLF/MWI subscription count and raising an event if the upper limit is reached
	Allowing to have multiple recording sessions regardless of the "max mail/recording duration" setting on the VM/recording box
5.1.39	
	The SIP server value for Broadvox in the VoIP Carrier Wizard was changed
F 4 20	Added an option in the Automatically Download Call Statistic page to choose the download format
5.1.38	The VM-to-email text for FAX mail was changed to be different from the one of the regular voicemail text
	An audible sound to the called phone is provided in case of intercom call
	In the call statistics-automatically download page a new option added to select the file format to download
5.1.31	Added possibility to correct TX/RX gains for Aastra phones from configuration templates
5.1.27	After using the feature code *79 (for outgoing call blocking) from phone handset to block a dialed number the "Send Message to Caller Party " option should be enabled automatically

Release	Changed Features
	The limitation for the number of entries in the local AAA table has been eliminated
5.1.19	
	Added new VoIP carriers to the VoIP Carrier Wizard list (Acf2i and babyTEL)
5.1.18	The "Automatic Firmware Update" link is moved from "Configuration Management" to "Firmware update" page
5.1.10	The auto-configuration and PnP support are added for Polycom SoundStation IP 6000
	The auto-configuration support is added for Yealink T28 IP phone
	Added new VoIP carriers to the VoIP Carrier Wizard list
	Adding extensions to Paging and Call Pickup groups has been simplified
	The expiration date for trial keys are shown under the Features menu
	The Call Routing Management option for the Auto Attendant has been changed from *7 to *77. This option allows entries in the Call Routing Table to be remotely enabled/disabled.
5.1.17	Possibility to multi-edit the some of the extension's Voice Mailbox Settings
	A prefix is added to the Caller ID to identify calls returned by the Kickback option
	It is possible to upload the Call Queue messages as Universal Extension Recordings
	The timeout for automatic Call Back feature is changed. To activate automatic Call Back the PSTN callers should disconnect the call not after the two rings as previously, but just after one.
	The "MAC address" widget behavior is changed to be like IP address widget: if user presses 2 digits/letters, the cursor moves to the next text field.
5.0.19	
5.0.17	
5.0.16	In the System-> IP routing Configuration the name of "VPN Routes" changed to "PPTP/L2TP Routes
5.0.12	
	For snom phones, the "Call join on Xfer (2 calls)" setting is configurable in the phone GUI
5.0.11	Adjusted timezone parameters for Venezuela according to new standards
5.0.11	Added status info in 3PCC settings
	Added scrollbars in the tables for Call Routing and Extension Management pages
4.1.58	
4.1.57	Changed the tone detection mechanism to resolve FXO disconnect problems in South Africa
4.1.52	The minimum value of SIP Registration Timeout parameter for IP lines is limited to 120 seconds. For more details see <u>Technical Advisory</u> chapter.

Release	Changed Features
	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
	The maximum length of VM sent by email is limited to 3 minutes
	The no-answer timeout range for extensions is increased to 180 seconds
	The maximum count for allowed MSN numbers is increased from 10 to 16
	The number of VMs in the mailbox for one extension is limited to 300
	The firmware version control for IP lines is forcefully disabled to avoid problems on the phone during FW upgrade. If user is sure he needs that, he should re-enable that after upgrade
	Use Session Timer in IP Line Settings is deselected by default
	SNMP is disabled in default configuration
	Call bandwidth usage statistics is temporarily removed
	The Call Park feature has been changed so that pressing the pound key (#) is no longer required if a password has not been assigned to the CP Extension
	IP line status and SIP registration status are shown in separate pages under Quadro Status
	The "SIP Tunnels to Slave Devices" and "SIP Tunnels to Master Devices" shown under Quadro status only if there is at least one SIP tunnel active of the corresponding type
	The "SIP Trunk" is renamed to "SIP Tunnel"
4.1.40	Increased the logs capacity of the Quadro by archived logging
	The echo cancellation parameters for ISDN trunks are optimized: the default values for NLP Difference and NLP Shift are set to 6 dB and 3 dB accordingly (in the trunkecho.cgi hidden page)
	New Zealand Daylight Savings Changed
	The default domain name "epygi-config.com" replaced with "epygi-config.loc"
	ISDN wizard improved
	The default registration timeout for all IP phones is set to 1 hour
	Telephone Event Draft Support checkbox removed from RTP Settings
4.1.33	Best Matching Algorithm is modified
4.1.29	
4.1.22	Two new IP-PSTN providers in the "VoIP Carrier Wizard" list (AGN and Netlogic)
4.1.18DS	
4.1.10	Backup and Restore configuration procedure changed
4.1.18	Download and Upload Legible configuration procedure changed

Release	Changed Features
4.0.4	
3.1.21	Call back through call routing and IP/IP-PSTN implemented
3.1.21	SMS settings redesigned allowing providers different from Clickatel
	Hunt Group Changes
3.1.7	Extensions Management –GUI is enhanced
	VoIP Carriers Wizard Pre-configured Carriers list expanded

# **5** Fixed Issues

Issues fixed since version 5.2.28:

	PIN code is not effective for PSTN routing rules. Instead of auth	entication by
	Quadro always ask for authentication by login	16781
D:		10701
C:		
-	authentication(both by PIN code and by login) isn't functional	for the call
	ario: SIP call to Auto Attendant then call to SIP destination	16784
D:		
C:		
	rect information regarding the call quality in the RTP statistics	16901
D:	Example. The call quality shown as "excellent" under the "Details" co	olumn in the
	successful call statistics incorrectly changed to "good" or "satisfactor	y" in the RTP
	Statistics.	-
C:		
	prer 9 browser	16952
D:		
C:		
0.		
-	all statistics file automatically delivered by email is always (.log	g) format 16770
-		16770
The c	Regardless whether selecting the (.log) or (.cvs) format, the call statiation automatically send by email is always (.log) format.	16770
The c	Regardless whether selecting the (.log) or (.cvs) format, the call sta	16770
The c D: C:	Regardless whether selecting the (.log) or (.cvs) format, the call sta	16770
The c D: C:	Regardless whether selecting the (.log) or (.cvs) format, the call state automatically send by email is always (.log) format.	16770 tistics file 17031
The c           D:           C:           "Dow	Regardless whether selecting the (.log) or (.cvs) format, the call state automatically send by email is always (.log) format.	16770 tistics file 17031 e SIP Settings
The c           D:           C:           "Dow	Regardless whether selecting the (.log) or (.cvs) format, the call state automatically send by email is always (.log) format. Inload Current CA Root Certificate" link doesn't work After pressing the "Download Current CA Root Certificate" link on the	16770 tistics file 17031 e SIP Settings
The c           D:           C:           "Dow           D:           C:	Regardless whether selecting the (.log) or (.cvs) format, the call state automatically send by email is always (.log) format. Inload Current CA Root Certificate" link doesn't work After pressing the "Download Current CA Root Certificate" link on the	16770 tistics file 17031 e SIP Settings
The c           D:           C:           "Dow           D:           C:	Regardless whether selecting the (.log) or (.cvs) format, the call state automatically send by email is always (.log) format. <b>Inload Current CA Root Certificate'' link doesn't work</b> After pressing the "Download Current CA Root Certificate" link on the page, system forward you to home page instead of starting the down	16770 tistics file 17031 e SIP Settings nloading. 17044
The c D: C: Dow D: C: Abno	Regardless whether selecting the (.log) or (.cvs) format, the call state automatically send by email is always (.log) format. Inload Current CA Root Certificate" link doesn't work After pressing the "Download Current CA Root Certificate" link on the page, system forward you to home page instead of starting the down rmal time shift in some rare cases	16770 tistics file 17031 e SIP Settings nloading. 17044 not taken into
The c D: C: <b>Dow</b> D: C: Abno	Regardless whether selecting the (.log) or (.cvs) format, the call state automatically send by email is always (.log) format. Inload Current CA Root Certificate" link doesn't work After pressing the "Download Current CA Root Certificate" link on the page, system forward you to home page instead of starting the down mail time shift in some rare cases In rare cases when Quadro corrects the time, the time zone value is	16770 tistics file 17031 e SIP Settings nloading. 17044 not taken into

## 6 Known Issues

- D: Description
- C: Consequences
- Fix: How to avoid the situation, or what to do in case the situation has occurred.

Settin	mpossible to login as 'admin' after making changes on "Advanced PPP lgs" 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
F:	Restart the Quadro to resolve this.
One w	vay audio with IPSec VPN in the scenario "Gateway<->Remote Subnet"
	9327
D:	Scenario:
	1. Establish an IP-Sec connection between two Quadros (connection type i
	"Quadro <-> Remote Subnet").
C:	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.
F:	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.
Call ir	nterception fails in a specific scenario with a watched extension in the many
	sion ring list 9399
D:	Scenario:
	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,
	<b>3.</b> Configure extensions #11 and #12 as watched extensions,
	4. Make a call to extension #31,
	<ul> <li>5. The phones for extensions # 31 and #12 will start ringing.</li> <li>6. The programmable key for the out, #12 is flashing on the recentionistic out.</li> </ul>
	<ol> <li>The programmable key for the ext. #12 is flashing on the receptionist's ext #31,</li> </ol>
	<ul> <li>7. Pressing that key the receptionist stops ringing, but ext. #12 is still ringing,</li> </ul>
	<ol> <li>8. Hang-up the phone for that caller's extension.</li> </ol>
C:	Call interception on the receptionist's line fails. The light for ext. #11 will stay ON
	on the ext. #31.
F:	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 iss	sue 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.
<u>C:</u>	
F:	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.
ivam	e recording" from Admin Login (*75) does not apply to the entries in the nsions Directory" 13454
"Evto	
<b>"Exte</b> D: C:	No consequences

	e of the Quadro voice mail services could be unavailable if external Voice 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:	
F:	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.
	n, Aastra, Grandstream and Thomson IP phones may disconnect if you press te" button for a long time (60 min)
D:	
C:	
F:	Under investigation, will be fixed in the future releases.
Aast	ra IP phone is not ringing when it is used in many extension ringing list 13830
	Scenario:
	1. Many extension ringing is enabled on a virtual extension with an Aastra phone in the list
	<ol> <li>Distinctive Ringing is enabled on that virtual extension with Nickname that contains space</li> </ol>
C:	When a call without Caller ID comes to that extension, the Aastra phone in MER does not ring.
F:	The problem is solved if there is a Caller ID available on the incoming call or if the Nickname doesn't contain a space. This problem is limited to Aastra IP phones only.
An is PBX	ssue with configuring Aastra IP phones as local extensions for Quadro IP 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:	
F:	They must be factory reset to register again. Under investigation. Will be fixed in the future FW versions for Aastra phones.
An is	ssue with distinctive ringing on the snom and Aastra IP phones 11519
D:	snom and Aastra IP phones ring only once if the distinctive ringing is enabled with the "winter" ringing pattern.
C:	No consequences
F:	Use other ringing patterns for distinctive ringing.
	Interception doesn't work on GrandStream GXP2000 configured as ptionist, when extensions watched on expansion module 14797
D:	
C:	
F:	Use basic 7 keys instead of expansion module. Will be fixed in the future releases.
Pagi	ng and intercom services do not work on the GrandStream BT100 IP phone 14909
D:	
C:	
F:	Currently BT100 has no support for paging/intercom.
	impossible to pickup (via pickup group or extension watching) the call to nsion with Find Me/Follow Me enabled 15942
D:	
C:	
F:	Will be fixed in the next releases.
	change in the Quadro LAN IP configuration makes it impossible to use the
auto	configuration for supported IP Phones 16037

	Gateway entered in uppercase.
C:	As a result the "Edit" and "Reboot" functional buttons become unusable that
	makes not possible to edit existing records or reboot the registered FXS Gateways.
F:	Enter the MAC address in lowercase. Will be fixed in the next releases.
	bblem 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:	
F:	Will be fixed in the next releases.
	call will fail when pressing hold or transfer on snom IP phones using
firm	ware version 8.x.x 16734
D:	This problem will happen if one of options: "make unsecure calls, accept anything"
	or "try to establish secure calls, accept anything" is used in Secure RTP settings
2.	for the extension.
2.	
C:	
C:	
	Configure the Secure RTP settings for extension in the Quadro to make and accept
C:	Configure the Secure RTP settings for extension in the Quadro to make and accept
C:	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every
C:	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every
C:	Configure the Secure RTP settings for extension in the Quadro to make and accept
C: F:	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.
C: F:	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions. me/follow me doesn't work for incoming Secure RTP call 16683
C: F: Find	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions. me/follow me doesn't work for incoming Secure RTP call 16683
C: F: <b>Find</b> D:	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       16683
C: F: <b>Find</b> D:	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       16683
C: F: <b>Find</b> D: C:	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       As a result the call isn't established
C: F: <b>Find</b> D: C:	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       As a result the call isn't established
C: F: <b>Find</b> D: C: F:	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for ever extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       As a result the call isn't established         Will be fixed in the next releases.       Will be fixed in the next releases.
C: F: D: C: F: Some	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       As a result the call isn't established         Will be fixed in the next releases.       e of the functions in the Programmable Keys Configuration page for IP lines
C: F: D: C: F: Some	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       As a result the call isn't established         Will be fixed in the next releases.       e of the functions in the Programmable Keys Configuration page for IP lines
C: F: D: C: F: Some are r	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       As a result the call isn't established         Will be fixed in the next releases.       e of the functions in the Programmable Keys Configuration page for IP lines to working for Polycom phones
C: F: D: C: F: Some	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       As a result the call isn't established         Will be fixed in the next releases.       e of the functions in the Programmable Keys Configuration page for IP lines 16682         The "Speed Dial" and "Call recording" features are not working for Polycom phone       16682
C: F: D: C: F: Some are r	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       As a result the call isn't established         Will be fixed in the next releases.       e of the functions in the Programmable Keys Configuration page for IP lines 16682         The "Speed Dial" and "Call recording" features are not working for Polycom phone       16682
C: F: D: C: F: Some are r D:	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       As a result the call isn't established         Will be fixed in the next releases.       e of the functions in the Programmable Keys Configuration page for IP lines
C: F: D: C: F: Some are r	Configure the Secure RTP settings for extension in the Quadro to make and accept only unsecure calls. This would need to be changed on the codec settings for every extension. Will be fixed by snom in the future firmware versions.         me/follow me doesn't work for incoming Secure RTP call       16683         Though the call came with SRTP option the FM/FM is making unsecure calls       As a result the call isn't established         Will be fixed in the next releases.       e of the functions in the Programmable Keys Configuration page for IP lines 16682         The "Speed Dial" and "Call recording" features are not working for Polycom phones       16682

	start call recording manually on Polycom phone during the call use the soft key buttons "More" and then "Recording". Will be fixed in the next releases.	
	It isn't possible to pickup the call addressed to watched extension using the programmable key on Grandstream GXP2120 16997	
D:		
C:		
F:	It is an issue with GXP2120 current FW version 1.0.1.66. Will be fixed in the future GXP2120 FW 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:		
F:	Will be fixed in the next releases.	
The A	dvanced configuration page of Snom821 phone is incorrect 16954	
D:	The advanced page of Snom821 appears like for 360/370 with 12 configurable	
	buttons, but the Snom821 is like Snom820 and has only 4 buttons on its case.	
C:		
F:	Will be fixed in the next releases.	

# 7 Upgrading Instructions

In general, the configuration of a system will remain after the software update.

### 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 Quadro SW and HW requirements for upgrading to 5.2

Attention: The software upgrade to 5.2.x can **ONLY** be done from 5.1.38 and higher 5.1 versions. Before updating to 5.2.12 the unit should be updated to 5.1.38 or higher 5.1 version first.

Attention: The 5.2.x software can be used on almost all Quadro2x units. The exception to this is for older Quadro2x models that have only 32MB of NAND flash memory.

The following hardware versions support 5.2.x:

SASY-MICRO-0101-0002, SASY-MICRO-0101-0101, SASY-MICRO-0102-xxxx, SASY-MICRO-0103-xxxx Note: The SASY number is found on the bottom of the unit.

Beginning with 5.1.38 software the size of NAND flash memory is also displayed within the Quadro GUI under System/Status/HW Status page. Only units that indicate 64MB of "NAND Flash" size can install 5.2.x.

**Note**: For units with 32MB of NAND Flash an error message is provided after an unsuccessful attempt to install 5.2. The unit will need to be rebooted at this point to recover the system.

#### 7.3 General hints

It is recommended to execute the update by downloading the software first to a PC located in the LAN 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.

Additionally, it is recommended to backup the existing configuration prior to upgrading.

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
- Transfer statistics for the network
- Event log
- DHCP leases