User Access Privileges on the Quadro

Revision: 1.1

Abstract: This document explains how to secure the Quadro's Web access.

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Document Revision History

Revision	Date	Description	Valid for SW	Valid for models
1.0	28-Jun-07	Initial Version	4.1.x	All Quadros
1.1	17-Oct-07	Edited	4.1.x	All Quadros

1 Introduction

This document explains how to secure the Quadro's Web access.

This document is applicable to all Quadro models running software version 4.1.x and higher.

2 Functional Description

The Quadro has a secure Web access to configure and manage the system. An unsecured Quadro may cause extra traffic and fraudulent calls if it is accessed and mis-configured by an unauthorized user.

To avoid these problems, you should secure the Quadro's Web access and utilization. This document will provide you with options on how to secure the system.

3 Securing Access to Quadro's Web Management

Access to the Quadro's Web Management can be secured by the customer's network configuration: high-level firewall security or network filtering rules. These network configurations are external to the Quadro and are out of the scope of this document.

This document will show how to secure the Quadro's Web Management, regardless of the customer's configuration.

3.1 Managing Web Management Password Protection

To protect the Quadro's Web Management from unwanted access, login accounts should be properly managed and valid passwords should be defined. Three levels of GUI administration access are available on the Quadro:

Administrator - this is the main account to administer the Quadro. The administrator has access to all Web GUI pages and no other user has permission to change this account. The administrator is responsible for granting access privileges to all other user groups. By default, a factory reset of the Quadro will reset the admin's password.

Local Administrator - this is a common (sub-) administrator's account. The Local Administrator can be given permission to adjust each GUI page. Be default, the localadmin user cannot login after a factory reset.

Extension - this account refers to all extensions created on the Quadro.

3.1.1 Administrator's Login Password Protection

Only one account with Administrator privileges is available on the Quadro. The username for Web Management login is "admin". This username cannot be changed and permissions for the Administrator's account cannot be modified.

To protect the Administrator's access to the Quadro's Web Management a proper password should be defined.

1. Login as an Administrator to Quadro's Web Management. The login username is "admin", and the password by default is "19".

2. Go to **User Rights Management** under **System** menu.
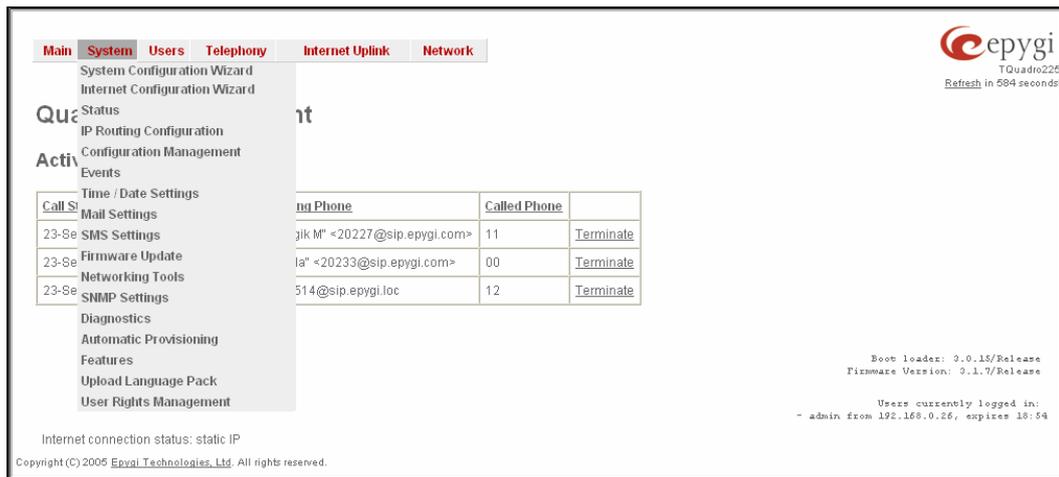
Fig. 1 System menu of Quadro's Web Management

A table for **User Right Management** is displayed.
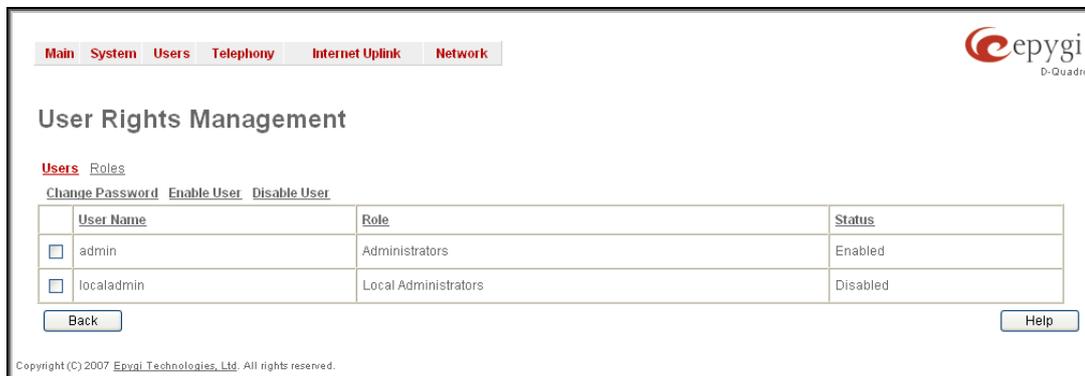
Fig. 2 User Rights Management page

3. Click the checkbox beside the **admin** entry in the table and press **Change Password**. The **Change Password** page for Administrator permission appears.
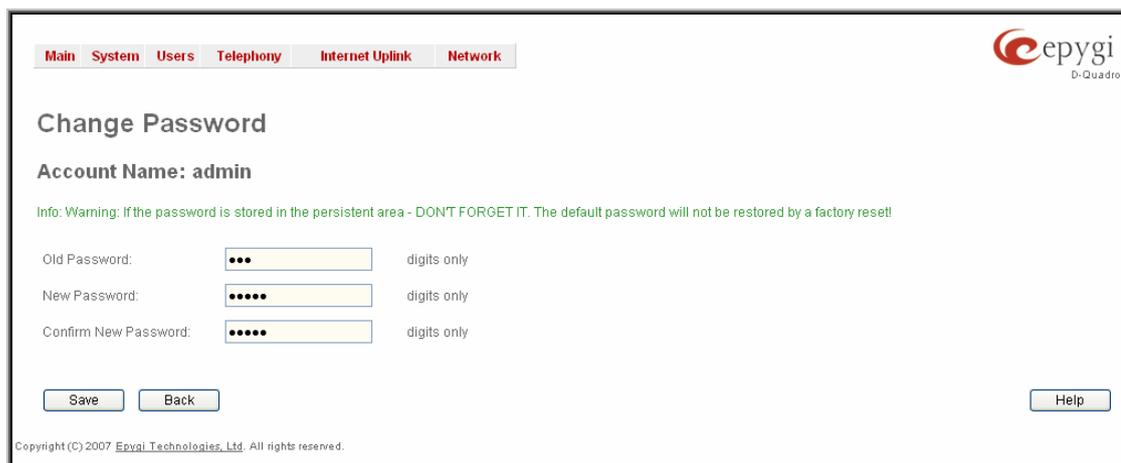

Fig. 3 Change Password page for Administrator

4. Insert the old password into **Old Password** text field. If you have never changed the Administrator's password, then insert 19.

5. Insert the new password into the **New Password** text field.

6. Confirm the new password in the **Confirm New Password** text field.

Please Note: The Administrator's password should contain digits only. Up to 20 digits are allowed. A corresponding warning appears if any other symbols are inserted.

7. Press **Save** to apply the new Administrator's password.

Attention: In order to keep the Administrator's password safe, do not write it down in public places and do not share it with other people. The administrator's password is the only way to protect the Quadro's Web Management for the administrating person.

3.1.2 Local Administrator's Login Password Protection

One account with Local Administrator permission is available on the Quadro. The username for Web Management login is "localadmin". The username cannot be changed but the permissions for the Local Administrator account can be modified.

The Local Administrator's account is disabled by default, so you need to enable it first. Contact your Administrator to enable it from the **User Rights Management** page. From the same page, the Administrator may also adjust the permissions for the Local Administrator account (see Appendix).

To protect the Local Administrator's access to the Quadro's Web Management, a proper password should be defined as follows:

1. Login as an Administrator to Quadro's Web Management. The login username is "localadmin", and the password by default is "19".

2. Go to **User Rights Management** under **System** menu. A table of **User Right Management** is displayed.

3. Click the checkbox beside the **localadmin** entry in the table and press **Change Password**. The **Change Password** page for Administrator permission appears.
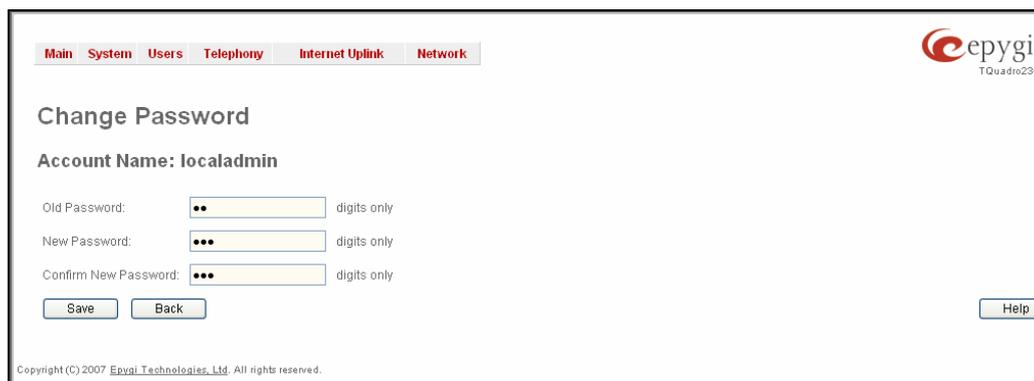
Fig. 4 Change Password page for Local Administrator

4. Insert the old password into **Old Password** text field. If you have never changed Local Administrator's password, then insert 19.

5. Insert the new password into the **New Password** text field.

6. Confirm the new password in the **Confirm New Password** text field.

Please Note: The Local Administrator's password should contain digits only. Up to 20 digits are allowed. A corresponding warning appears if any other symbols are inserted.

7. Press **Save** to apply the new Local Administrator's password.

Attention: In order to keep the Local Administrator's password safe, do not write it down in public places and do not share it with other people. If you have lost or forgotten the localadmin's password, contact your system Administrator.

3.1.3 Extension User's Login Password Protection

There are numerous extensions on the Quadro by default. Users with Administrator and Local Administrator permissions are capable of creating or deleting extensions. However, an extension's personal settings and password can be managed by each extension user.

To protect the Extension's access to the Quadro's Web Management a proper password should be defined as follows:

1. Login as an Extension to the Quadro's Web Management. The login username is the extension number and the password per default is empty.

2. Go to **Account Settings** under **Your Extension** menu.

Fig. 5 Your Extension Menu of Quadro Web Management for Extension User

The **Account Settings** page appears.

Fig. 6 Account Settings page

3. Click on the **Change Password** link. A page where extension's password can be modified appears:
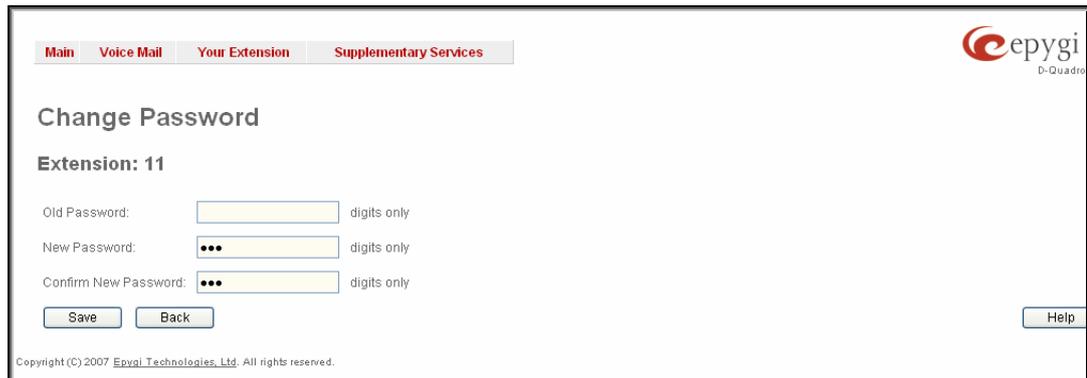
Fig. 7 Change Password page for extension user

4. Insert the old password into the **Old Password** text field. If you have never changed the extension's password, then leave this field empty.

5. Insert the new password into the **New Password** text field.

6. Confirm the new password in the **Confirm New Password** text field.

   Please Note: An extension's password should contain digits only. Up to 20 digits are allowed. A corresponding warning appears if any other symbols are inserted.

7. Press **Save** to apply the new password for an extension.

Please Note: If you have lost or forgotten your extension's password, contact your system Administrator.

Additional Option to Change the Extension's Password

You may also change the extension's password from the handset by entering the Voice Mail Services (feature code - ***0**) and selecting Password Change menu (feature code - **4**).

4 Appendix

The table below shows the CGI names and the corresponding descriptions for the Role Extension and the Local Administrator.

For the Role Extension

CGI Name	Description
statistics	Provides access to the Call Statistics page to view Successful, Missed and Unsuccessful Outgoing Calls
forwardadd	Provides access to Forwarding List-Add Entry page to configure Unconditional, Busy or No Answer call forwarding to the added entry.
huntadd	Provides access to the Call Hunting Service-Add Entry page to add User Extension or an Attendant for call hunting service.
hold	Provides access to the Basic Services-Hold Music Settings page to define the music that will be played when on hold
dnd	Provides access to the Basic Services-Do Not Disturb Settings page to enable DND functionality
hotline	Provides access to the Basic Services-Hot Line Settings page to enable the Hot Line Service.
redial	Provides access to the Basic Services-General Settings page to determine the No Answer Timeout, Call Waiting and the Auto Redial services.
sds	Provides access to the Speed Calling Settings page to add /edit and delete speed calling numbers.
usersettings	Provides access to the Account Settings page which allows to change the password and to protect the password for incoming and outgoing calls
userpsw	Provides access to the Change Password page to change the user's password.
vmail	Provides access to the Voice Mailbox page which allows to manage the Voice Mails (forward, mark, delete)
vms	Provides access to the Voice Mail Settings page, to configure Voice Mail Settings.
grouplist	Provides access to the Group List page which allows managing group lists to send, forward voice messages to a number of addresses at once.
grouplistadd	Provides access to the Address List for the group page, to define the list of addresses for the corresponding group.
supservices	Provides access to the Caller ID Based Services for Any Address page to configure Caller ID Based services for the corresponding extension depending on a certain address (Hiding Caller Information, Incoming/Outgoing Call Blocking, Distinctive Ringing, Call Hunting, Many Extension Ringing, Unconditional Call Forwarding, Busy Call Forwarding, No Answer Call Forwarding, and Intercom).

addressmanagement	Provides access to the Caller ID Based Services page which contains a table of the caller ID based services with ON/OFF status.
callhandlingindex	Provides access to the Caller ID Based Services and Basic Services page only in Plain GUI theme
yourextensionindex	Provides access to the Call Statistics, Speed Calling, Account Settings pages only in Plain GUI theme
voicemailindex	Provides access to the Voice Mailbox, Voice Mail Settings and Group List pages only in Plain GUI theme
rtpstatistics	Provides access to the RTP Statistics page which provides detailed information about the established call when Quadro serves as an RTP proxy.
faxstatistics	Provides access to the Fax Statistics page which provides information about received fax packets of the established fax call.

For the Role Local Administrator

CGI Name	Description
nettools	Provides access to the Networking Tools page and offers two services to check the Internet connection: Ping and Traceroute.
eventedit	Provides access to the Edit Event Settings page and allows editing the selected event
event	Provides access the Events page, with two sections: System Events and Event Settings
features	Provides access to the Features page listing all features, that may be activated by a software key
diag	Provides access to the System Diagnostics page to start detecting WAN protocol, ISDN and Network Diagnostics as well as to reboot the device and download system logs.
autoprovisioning	Provides access to the Auto Provisioning page to automatically configure the WAN network settings of Quadro
mail	Provides access to the System Mail Settings page to automatically generate emails
sms	Provides access to the SMS Settings page to send voice mail notifications or event notifications via SMS
rightsmanagement	Provides access to the User Rights Management page to set restrictions and grant access to certain Web GUI configuration pages.
rightschange	Provides access to the Change Access Rights page, to define permissions to access Quadro GUI pages for each selected user
timedate	Provides access to the Time/Date Settings page
timedateadd	Provides access to the Add SNTP Server and Edit SNTP Server pages to configure Quadro as an SNTP server

CGI Name	Description
backuprestoreconf	Provides access to the Configuration Management page to manage the system configuration settings and the voice data, download and upload the legible configuration, configure the automatic configuration backup and restore the system defaults settings
autobackupconfig	Provides access to the Automatically Backup Configuration Settings page to enable the automatic backup of the system configuration and the voice data
iprouting	Provides access to the IP Routing Configuration to create IP Static, IP Policy and VPN routes for the routing of IP packets
editstaticroute	Provides access to the Add IP Static Route page and Edit IP Static Route page to manage IP Static Routes
editpolicyroute	Provides access to the Add IP Static Route page and Edit IP Static Route page to manage IP Policy Routes
editvpnroute	Provides access to the Add VPN Route and the Edit VPN Route pages to manage VPN Routes
languageupload	Provides access to the Upload Language Pack page, that allows you to upload Voice Messages and a custom language for GUI as well as remove the current Language Pack
netwizard	Provides access to the Internet Configuration Wizard to configure the WAN interface settings and to adjust Quadro's connectivity with external network
syswizard	Provides access to the System Configuration Wizard to define the Quadro's Local Area Network settings and to specify regional configuration settings
snmpconfig	Provides access to the Simple Network Management Protocol Settings page to manage network performance, find and solve network problems, and plan for network growth
status	Provides access to the System Status page which displays non-editable tables providing extensive system status information about Quadro
usermanagement	Provides access to the Extensions Management page to create a variety of extensions and auto attendants on the Quadro
usermanagementadd	Provides access to the Extensions Management - Add Entry to define the type and number of the new extension
bandwidthhistory	Provides access to the Call Bandwidth Statistics page which allows to build a chart with call traffic bandwidth usage per day/hour
usermanagementedit	Provides access to the Extensions Management –Edit Entry page to adjust a newly created user or attendant extension settings

CGI Name	Description
usermgmtgensettings	Provides access to the Extensions Management –Edit Entry- General Settings page to configure the extension's personal information
usermgmtsipsettings	Provides access to the Extensions Management –Edit Entry- SIP Registration Settings page to configure the extension's SIP registration settings
usermgmtsipadvsettings	Provides access to the Extensions Management – Edit Entry - SIP Advanced Settings page to configure the extension's advanced SIP settings
usermgmtremotesettings	Provides access to the Extensions Management – Edit Entry - SIP Remote Extension Settings to remotely operate Quadro
usermgmtvmsettings	Provides access to the Extensions Management – Edit Entry - Voice Mailbox Settings page to manage Voice Mail service for the corresponding extension and to define the location where voice mails will be collected
usermgmtcallqueuesettings	Provides access to the Extensions Management – Edit Entry - Call Queue Settings page to keep multiple incoming calls in a queue and to answer them in the order they have been received
usermgmtlicensesettings	Provides access to the Extensions Management – Edit Entry - License Settings page to configure the extension to be used by the Quadro Communication Manager (QCM) soft-phone application
linesettings	Provides access to the Line Settings page to configure Quadro FXS and IP Line settings
linesettingsadd	Provides access to the Edit Line Settings page to select the Caller ID method, configure remote party disconnect indication, enable FAX support on the line and select a ringer type.
lineipsettingsadd	Provides access to the Edit IP Line Settings page to configure the IP line
codecsmanagement	Provides access to the Extension Codecs page with all Active Codecs table
fxo	Provides access to the FXO settings page with the list of local FXO Lines, shared FXO lines on the remote devices and their settings
vpn	Provides access to the VPN Configuration page which consists of two sections: IPSec Configuration and PPTP/L2TP configuration
ipsec	Provides access to the IPSec Connection Settings page, with an overview of all existing IPSec connections, listed in a table
vpnwizard	Provides access to the IPSec Connection Wizard which is a helpful tool for the Quadro administrator to create an IPSec Connection

CGI Name	Description
vpnwizardaddpage	Provides access to the IPSec Connection Wizard-Add IPSec Connection to configure IPSec connection
vpnwizardgatewaypage	Provides access to the IPSec Connection Wizard- IPSec Connection Properties to configure IPSec connection
vpnwizardautokeypage	Provides access to the IPSec Connection Wizard- Automatic keying to configure IPSec connection
vpnwizardmanualkeypage	Provides access to the IPSec Connection Wizard-Manual keying
vpnrsakey	Provides access to the RSA Key Management page
vpnstartinfo	Provides access to the VPN Start (IPSec Connection Info) page displayed during establishing a VPN connection
ipseccondetails	Provides access to the IPSec Connection Details page
pptpl2tp	Provides access to the PPTP/L2TP Configuration page, where a new PPTP and L2TP connection can be configured
pptpl2tpwizard	Provides access to the PPTP/L2TP Connection Wizard page which is used to create and configure a new PPTP or L2TP connection
pptpl2tpwizardaddpage	Provides access to the PPTP/L2TP Connection Wizard-Add PPTP/L2TP Connection page
pptpl2tpwizardpage	Provides access to the PPTP/L2TP Connection Wizard-PPTP Connection Properties page
pptpl2tplog	Provides access to the VPN Connection Info page, that displays the logout information about PPTP/L2TP connection status
directoryservice	Provides access to the Extensions Directory a useful tool for callers to get direct access to the Quadro extensions by spelling the user's name with the help of the phone keypad
regional	Provides access to the Regional Settings and Preferences page to select settings according to the location where Quadro is currently located
codecgaincontrol	Provides access to the Gain Control page, which consists of the Transmit Gain and Receive Gain drop down lists for each line
operationmode	Provides access to the External PSTN Gateways page
siptrunksettings	Provides access to the SIP Trunking Settings page to build a tunnel between Quadros and to use that tunnel for routing the SIP calls through the remote Quadros
receptionist	Provides access to the Receptionist Management to configure IP phones to be used as a receptionist on the Quadro.
rpcwizard	Provides access to the Receptionist Phone Configuration Wizard page to create and configure a new receptionist phone

CGI Name	Description
provider	Provides access to the PPP/PPTP Settings page, to establish a connection over the DSL link (or any other type of uplink) to the ISP (provider party)
dyndns	Provides access to the Dynamic DNS Settings page to map a dynamic IP address to a host name
dns	Provides access to the DNS Settings page to assign the correct IP addresses to the requested domain name
firewall	Provides access to the Firewall Configuration page to setup a firewall, to configure the security level and to enable the NAT and IDS services
advancedfwsettings	Provides access to the Advanced Firewall Settings page to deny Ping and Port scanning operations addressed toward the device
filter	Provides access to the Filtering Rules page to configure filters for incoming and outgoing traffic
filteradd	Provides access to the Add Filtering Rules page, that shows the event type in it's headline, for which the filtering rule is being defined
ippool	Provides access to the IP Pool Configuration page to create or modify groups of IP addresses that have the same restriction criteria
ippooladd	Provides access to the IP Pool Group Configuration page, where all existing members of the selected group are listed with their Member IP addresses.
servicepool	Provides access to the Service Pool Configuration page to create new services with the appropriate settings
ppp	Provides access to the Advanced PPP Settings page to enable/disable certain parts of the negotiation process during connection establishment.
radiussettings	Provides access to the RADIUS Client Settings page to enables RADIUS client on the Quadro
radiushidden	Provides access to the RADIUS Hidden Settings page
dnsserver	Provides access to the DNS Server Settings page to configure DNS server settings on the Quadro and to define a list of aliases for the devices in the Quadro's LAN.
dnsserveradd	Provides access to the DNS Server Settings - Add Host page to define aliases for the device in the Quadro's LAN.
dhcphostadd	Provides access to the DHCP Settings for the LAN Interface - Add Host page to define a new static MAC address binding.
dhcp	Provides access to the DHCP Settings page to enable a DHCP server and control the Quadro user's LAN settings
dhcp-leases	Provides access to the DHCP Leases page which displays the list of the leased host addresses that are part of Quadro LAN

CGI Name	Description
autologin	Provides access to the Authorized Phones Database page which consists of the Authorized Phones Database table where trusted phones are listed.
idslog	Provides access to the IDS (Intrusion Detection System) Logs page which presents information on dropped packets and the senders responsible for those packets
rtp	Provides access to the RTP (Real Time Protocol) Settings page to configure codec's packet size and silence suppression for each voice codec
sip	Provides access to the SIP (Session Initiation Protocol) Settings page to allow selecting DNS server configurations for SIP
vmcs	Provides access to the Voice Mail Common Settings page to configure the Voice Mail recording codec and memory allocation for voice mails and user defined system messages
nattraversal	Provides access to the NAT Settings page to configure General Settings, SIP Parameters, RTP Parameters, STUN Parameters and NAT Exclusion Table
callrt	Provides access to the Call Routing page which simplifies the calling procedure for Quadro users, i.e. different types of calls (internal, SIP, PSTN or IP-PSTN) may be accomplished in the same way.
routingmanagement	Provides access to the Call Routing Table page, in which creating patterns gives a possibility to establish a direct connection to the destination or to use a SIP server to route calls through it
rmmoveto	Provides access to the Move To page to move the selected entry to some other position in the Call Routing Table
lanindex	Only in Plain GUI theme to access the Network link
systemindex	Only in Plain GUI theme to access the System link
telephonyindex	Only in Plain GUI theme to access the Telephony link
uplinkindex	Only in Plain GUI theme to access the Internet Uplink link
usersindex	Only in Plain GUI theme to access the Users link
changeextlength	Provides access to the Change Extension Length page to define the extension settings applicable to all extensions on the Quadro
checklist	Provides access to the Install Checklist page and serves as an instruction for the most useful actions and lists the corresponding hyperlinks to initially setup and configure the Quadro
qosnotification	Provides access to the Configure Call Quality Event Notification page to configure event notification policy when the call quality is lower than the allowed level
edittrap	Provides access to the Add SNMP Traphost page, to add a new traphost

CGI Name	Description
firmwareupload	Provides access to the IP Phones Firmware Upload page to upload the SIP phone firmware to the Quadro's external USB flash memory, and then to load and install it to the certain SIP phone
local	Provides access to the System Configuration Wizard - System Configuration page to specify the Quadro's host name, IP address and subnet mask on the LAN side
emergency	Provides access to the System Configuration Wizard - Emergency Codes and PSTN Access Codes Settings page to configure the dial plan parameters used in the routing mode
uplink	Provides access to the Internet Configuration Wizard - Uplink Configuration page to specify the Quadro's WAN interface connection type and its bandwidth settings
ethconfig	Provides access to the Internet Configuration Wizard - WAN IP Configuration page where IP addresses of the uplink interface, the subnet mask, and the default gateway should be defined
wanmac	Provides access to the WAN Interface Configuration page to modify the MAC address of Quadro
voipcarrierwizard	Provides access to the VoIP Carrier Wizard to define access codes for available VoIP Carrier accounts
voipcarrierselect	Provides access to the VoIP Carrier Wizard-Select VoIP Carrier page
voipcarriersettings	Provides access to the VoIP Carrier Wizard-VoIP Carrier Settings page
voipcarrieraccesscode	Provides access to the VoIP Carrier Wizard-VoIP Carrier Access Code page
voipcarriersummary	Provides access to the VoIP Carrier Wizard-VoIP Carrier Summary page
rpcphonemodel	Provides access to the Receptionist Phone Configuration Wizard-IP Phone Model page
rpcmappediplines	Provides access to the Receptionist Phone Configuration Wizard-Mapping IP Lines To Programmable Keys page
rpcwatchedext	Provides access to the Receptionist Phone Configuration Wizard- Watched Extensions page
rpcsrvcodewatchedext	Provides access to the Receptionist Phone Configuration Wizard part Programmable Keys Configuration page
rpcsettingsinfo	Provides access to the Receptionist Phone Configuration Wizard part Summary page
getconfsummary	Provides access to the Configuration Summary page to generate a piece of legible configuration and to download it to a PC or to view it directly in the browser
putconf	Provides access to the Upload Legible Configuration page to upload a configuration file in a text format
generatemib	Provides access to the MIB Generator for SNMP page

CGI Name	Description
atm-statistics	Provides access to the ATM Statistics page
universal	Provides access to the Upload Universal Extension Recordings page, where recordings are to be defined by the Quadro administrator. They will stand instead of the default voice messages for all extensions on the Quadro and will be used when no custom messages have been uploaded or recorded
line	Provides access to the Transfer Statistics page that offers statistic tables to show a user-defined statistics table with the transmit/receive value, interface type and time period
callpolicy	Provides access to the Call Policy hidden cgi
usermgmtscenariosettings	Provides access to the Attendant Scenario Settings page, to select between default and custom attendant functionality scenarios
uploadfile	Provides access to the Upload Custom Scenario Voice Messages page to upload voice messages to be played in the custom Auto Attendant scenario
updateconfiguration	Provides access to the Automatic Firmware Update page
lcrwizard	Provides access to the Call Routing Wizard page to create a new pattern in the local call routing table
lcrwizardcalltype	Provides access to the Call Routing Wizard-Routing Call Type page
lcrwizardcstimeslots	Provides access to the Call Routing Wizard-Routing Call Settings page
lcrwizardtimeslots	Provides access to the Call Routing Wizard-Select Inbound Timeslots page
lcrwizardcallsource	Provides access to the Call Routing Wizard -Select Timeslots page
lcrwizardcssettings	Provides access to the Call Routing Wizard -Inbound Call Type page
lcrwizarddatetimeperiod	Provides access to the Call Routing Wizard-Inbound Call Settings page
lcrwizardfinish	Provides access to the Call Routing Wizard- Date/Time Rules page
pickupgroup	Provides access to the Call Routing Wizard part Summary page
sysintro	Provides access to the System Configuration Wizard - Getting Started page
netintro	Provides access to the Internet Configuration Wizard - Getting Started page
sysextro	Provides access to the System Configuration Wizard - Summary page

CGI Name	Description
netextro	Provides access to the Internet Configuration Wizard part Summary page
accesslist	Provides access to the Access List of Extension page, lists all users and the appropriate permissions to use the Call Pickup or Paging Call services on the extension
isdntrunk	Provides access to the ISDN Trunk Settings page to configure the ISDN trunk and its signaling
isdnwizard	Provides access to the ISDN Wizard page to configure the ISDN signaling settings of the selected trunk(s)
isdnstat	Provides access to the ISDN Trunk Status page, that provides information about the state of the selected trunk
trunkstathistory	Provides access to the ISDN Channel Usage Statistics page
isdnsignaling	Provides access to the MSN Service page, which consists of a table where all existing MSN numbers on the Quadro are listed
interfacestatistics	Provides access to the LAN Interface Statistics page
editsnmpv3	Provides access to the Add Snmp V3 User page
isdnwizarddid	Provides access to the ISDN Wizard -ISDN DDI Settings page
burn	Is the last page of Firmware Update procedure and shows progress of uploading
featurelockedinfo	Opens when the user tries to reach to some features with a disabled key.
isdnwizardlowlevel	Provides access to the ISDN Wizard -ISDN Low Level Settings page
isdnwizardmsn	Provides access to the ISDN Wizard -Routing Settings page
isdnwizardsettings	Provides access to the ISDN Wizard - L2 & L3 Settings page
isdnwizardfinish	Provides access to the ISDN Wizard- Summary result of ISDN BRI Settings page
isdnnetworkmode	Provides access to the ISDN Network Mode page

5 References

Refer to the following documents and the corresponding software release:

- Quadro Manual I – Installation Guide,
- Quadro Manual II - Administrators Guide,
- Quadro Manual III – Extension User's Guide.