



# Manual III: Extension User's Guide

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#### Administrative Council for Terminal Attachments (ACTA) Customer Information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. Located on the equipment is a label that contains, among other information, the ACTA registration number and ringer equivalence number (REN). If requested, this information must be provided to the telephone company.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive REN's on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the REN's should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total REN's contact the telephone company to determine the maximum REN for the calling area.

This equipment cannot be used on the telephone company-provided coin service. Connection to Party Line Service is subject to State Tariffs.

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If trouble is experienced with this equipment, please contact EPYGI TECHNOLOGIES, LTD.

If the trouble is causing harm to the telephone network, the telephone company may request you to remove the equipment from the network until the problem is resolved.

#### **Electrical Safety Advisory**

To reduce the risk of damaging power surges, we recommend you install an AC surge arrestor in the AC outlet from which the Quadro or QX is powered.

### Industry Canada Statement

This product meets the applicable Industry Canada technical specifications.

#### **Safety Information**

- Before using the Quadro or QX, please review and ensure the following safety instructions are adhered to:
  - To prevent fire or shock hazard, do not expose your Quadro or QX to rain or moisture.
  - To avoid electrical shock, do not open the Quadro or QX. Refer servicing to qualified personnel only.
  - Never install wiring during a lightning storm.
  - Never install telephone jacks in wet locations unless the jack is specified for wet locations.
  - Never touch non-insulated telephone wire or terminal unless the telephone line has been disconnected at the network interface.
  - Use caution when installing or modifying cable or telephone lines.
  - Avoid using your Quadro or QX during an electrical storm.
  - Do not use your Quadro, QX or telephone to report a gas leak in the vicinity of the leak.
  - An electrical outlet should be as close as possible to the unit and easily accessible.

#### **Emergency Services**

The use of VoIP telephony is made available through IP networks such as the Internet and is dependent upon a constant source of electricity, network availability and proper operation of the equipment. If a power outage, network disruption or equipment failure occurs, the VoIP telephony service could be disabled. User understands that in any of those events the Quadro or QX may not be able to support 911 emergency services, and further, such services may only be available via the user's regular telephone line or mobile lines that are not connected to the Quadro or QX. User further acknowledges that any interruption in the supply or delivery of electricity, network availability or equipment failure is beyond Epygi's control and Epygi shall have no responsibility for losses arising from such interruption.

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The default Music on Hold on the Quadro or QX is a 22 second fragment from Chopin's *Nocturne Op.9 #2* performed by Marina Vardanyan and kindly provided to Epygi Technologies, LTD. The recording is royalty free.

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This guide describes step-by-step instruction to install and configure QX IP PBX.

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This guide describes detailed the menus available for administrators only and includes further all system default values at a glance.

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# About this Extension User's Guide

# The QX IP PBX Manual is divided into three parts:

- Manual-I: Installation Guide gives step-by-step instructions to provision the QX IP PBX and configure the phone extensions with the Epygi SIP Server. After successfully configuring the QX IP PBX, a user will be able to make SIP phone calls to remote QX IP PBX devices, make local calls to the PSTN and access the Internet from devices connected to the LAN.
- Manual-II: Administrator's Guide that explains all QX IP PBX management menus available for administrators only. It includes a list of all System Default Values.
- Manual-III: Extension User's Guide explains all QX management menus available for extension users. A list of all call codes can be found here in Extension User's Guide.

This guide contains many example screen illustrations. Since QX IP PBXs offer a wide variety of features and functionality, the example screens shown may not appear exactly the same for your particular QX IP PBX as they appear in this manual. The example screens are for illustrative and explanatory purposes, and should not be construed to represent your own unique environment.

QX IP PBX's Feature Codes explains all call codes available for extension users.

<u>QX IP PBX's Auto Attendant Services</u> explains the operating mode of QX IP PBX's auto attendant and lists the call codes that may be used to enter the auto attendant.

Your Extension Graphical Interface explains the QX IP PBX's Your Extension graphical user interface and the input options available for extension users and administrators.

Appendix: Glossary explains various technical terms.

Appendix: Software License Agreement includes the contract for using QX IP PBX's hardware and software.



# **QX IP PBX's Feature Codes**

This chapter describes how QX IP PBX's feature codes allow the user to navigate through QX IP PBX's services with the help of a phone handset. These services are **Establishing a Call**, **PBX Services** and **Voice Mail Services**.

### **Establishing a call**

To make a call, dial the **Routing Number**.

**Routing Numbers** and available routes to, from and through QX IP PBX are listed in the **Call Routing Table** (see Manual II: Administrator's Guide). The **Call Routing Table** is configured and managed by QX IP PBX's Administrator. To receive information about dialing rules, please contact the administrator.

Please Note: You may accelerate establishing a connection by entering a pound (#) sign dialed at the end of the routing number.

#### **Using PBX Services**

PBX Services accessible at the dial tone, characterized by beginning with the key 🙁 :

Entering the Voice Mail Services	*0
(see further key codes below)	
<ul> <li>Redialing automatically</li> <li>For extensions attached to FXS lines, this service may be used in two ways: <ul> <li>Press *1 and hang up. As soon as the last called destination will be reached, your phone will start ringing.</li> <li>Press *1 and stay with the handset lifted. The connection will be established immediately when the called destination answers the call.</li> </ul> </li> <li>A specific beep will be heard during the entire auto redialing period (specified on the <u>Basic Services – General Settings</u> page). A beep will be heard if no auto redialing is possible. To stop the auto redialing process, simply lift the handset and hung up again (if you were keep waiting with the handset lifted, you will need to push the hook button twice on your phone to stop the redialing).</li> </ul>	00
<ul> <li>For extensions attached to IP lines: <ul> <li>Press *1 to redial the last number that you called.</li> <li>If the called number is busy after dialing *1 keep the handset lifted to activate the auto redialing of the last called number. The connection will be established immediately when the called destination answers the call.</li> </ul> </li> <li>Please Note: This service is functional for SIP and PBX calls only. For PSTN calls, this feature works as a single redial (with no multiple attempts to reach the called destination).</li> <li>Please Note: This service works when the Voice Mail and Call Waiting services are disabled on the called destination.</li> </ul>	
Calling back the last caller	* 2
If calling back is not possible, you will hear the message "The dialed number doesn't exist".	
<u>Unconditional Call Forwarding Management</u> configured for <b>Any Address or Other Addresses</b> in the <u>Caller ID Based Services</u> table will get activated. To toggle (activate or deactivate) the <b>Unconditional Call Forwarding service</b> again, press 1 directly after entering the *4 menu. If no unconditional forwarding is configured for <b>Any Address/Other Addresses</b> entries, the system will not activate the forwarding service and a voice message will ask to configure the forwarding settings first. (See further key codes below.)	• 4
<b>Enabling/Disabling</b> the <b>Do Not Disturb</b> service turns off/on your phone bell for the time period indicated on the <u>Do Not Disturb</u> settings page. Incoming calls will be routed to voice mail.	*72
Blocking the last caller The last caller party will be blocked and added to the table on the Caller ID Based Services. You may unblock it later from the Incoming Call Blocking page. This service is available for 10 seconds after the call has been terminated. Attention: Blocking the caller with anonymous caller ID (for example, anonymous@anonymous or similar) will lead to blocking all callers with an unknown caller address.	878
Getting the line information	800
You will hear your line, extension and SIP number.	804
<b>Speed Calling</b> is used to add a new entry to your Speed Calling table. A two digit speed calling code is required followed by the destination number. In the Speed Calling table, the registered destination will have an Auto call type.	*76
<b>Hot Desking</b> used to login/logout to the public phone with the virtual extension. To login, the extension number and the password of the preconfigured virtual extension are required. After login, the phone becomes a full featured QX IP PBX phone with all supplementary PBX features available. When logged out, the public phone becomes available for other users to login and the extension which has been last used on that phone becomes again inactive.	*78
Outgoing Call Blocking used to block or unblock outgoing calls for certain called number. Insert the extension's password and press 1	660
to block or 2 to unblock a number. Dial a Called Number to be blocked and press #. Dial a Called Number to be unblocked and press #.	
Mark the Last Call as Bad This will mark the last call in the system logs in the specific way and is used for diagnostics purposes only.	*81



Logs Collecting	
This will generate a special user's failure log with the details of the last call for administrator's revision. Use this code in the cases your administrator has advised you. You will get the dial tone after this feature code is dialed.	
Easy Login/Logout	<b>A</b> 88
Used by ACD agent to easy login or logout to all groups where it is subscribed to.	
<u>No Answer Call Forwarding Management</u> configured according to the No Answer Call Forwarding settings for <b>Any Address</b> entries in the <u>Caller ID Based Services</u> table will get activated. To toggle (activate or deactivate) the forwarding service again, press 1 directly after entering the *84 menu. If no <u>No Answer Call Forwarding</u> is configured for <b>Any Address</b> entries, the system will not activate the forwarding service and a voice message will ask to configure the forwarding settings first. (See further key codes below.)	884
Access to the Shared Mailboxes used to access other extension's mailboxes on the QX IP PBX. If the mailbox is configured as shared, no password will be prompted to enter it. Otherwise, the corresponding extension's password will be prompted to enter its mailbox. The mailbox can be configured as shared either by administrator from Extension's Management - Voice Mailbox Settings page (see Manual II: Administrator's Guide) or by the extension's user from Many Extensions Ringing page. Once entered the other extension's mailbox, you will get all the same menu options and functionality as you have in your own mailbox.	886
	*91+
Listen in to the third party's call. You will not be able to speak in the call.	Extension
	Number + #
	*92
Whisper to the third party's call. You will be able to listen to the call and speak only to extension you have dialed.	+ Extension
	Number + 🌐
	*93
Barge in to the third party's call. You will be able to listen to the call and speak to all participants.	+ Extension
	Number+ #
If you have problems using * 91, * 92 and * 93 feature codes, turn to your system administrator for the corresponding con	nfiguration.
This feature code is only available when the extension you dial is in the call.	
	*94
Intercept allows you to pick up a ringing call on another specified extension after this feature code is dialed.	+ Extension
	Number+ #

PBX services accessible during the call (for phones connected to the FXS lines), characterized by starting with the key Flash

<b>Keeping a call on hold</b> <b>Flash</b> is used to hold the active connection, in order to place or receive a second call. When holding the first call, the user is able to place a call to a third party, in particular cases for conferencing (3 way calling) or call transferring purposes. To be able to receive a second call while currently being on a call, the call waiting service should be enabled on the <u>Basic Services – General Settings</u> page. When a second call comes in, the beep sound indication is heard in the active call.	Flash ()
Transferring a call without consultation	
Press <b>Flash</b> to hold a call partner and to get a dial tone (within approximately 1 second). Enter the <b>phone number of the destination phone</b> where the call should be transferred to. Hang up on the ring tones. The call on hold will be transferred to the specified destination.	
Transferring a call with consultation	Flash
Press <b>Flash</b> to hold a call and to get the dial tone (within approximately 1 second). Enter the <b>phone number of the destination phone</b> where the call should be transferred to. Talk to the called party and then hang up. The call partner on hold will be connected to the called party.	
Joining active lines to start a conference call	
Hold the first call (Flash ()), make the second call (or receive a new one) and press Flash (3) to join both active lines together for the	
conference call. To terminate the conference call with the first or second party, use correspondingly <b>Flash</b> 1 or <b>Flash</b> 2 key	
combinations.	Flash 3
Attention: Pressing <b>Flash</b> and waiting for 5 seconds will initiate a call switch and will connect you back to the held party instead of	
initiating the a conference call.	
Attention: After initiating a conference call, the extension can leave the conference by pressing <b>(1880)</b> without terminating the call between the other two parties.	



To terminate the call	Flash 4
Call Park	
Dial Flash 5 to park a call (system will play the extension number and SIP username of the first available <b>Call Park</b> extension). Go to	
the remote location and call the <b>Call Park</b> extension to pick up the parked call. If enabled, the system will ask for the password authentication. If successfully entered, the parked call will be resumed.	
To use the <b>Call Park</b> feature, at least one <b>Call Park</b> extension should be created on the QX IP PBX.	Flash 5
<b>Attention:</b> The Call Parking is valid within the timeout defined by QX IP PBX's administrator, during which hold music (if configured) will be played to the parked party. Contact your system administrator if you need the call parking timeout to be modified. When the <b>Call Park</b> timeout expires, a short ring notification will be sent to the phone initiating the call parking, and if no one picks up the parked call or if the phone is off the hook, the parked call will be automatically disconnected.	
Directed Call Park	
Hold the current call (Flash ()) and dial the Call Park extension number within the five second timeout.	
Attention: If the five second timeout is exceeded, then the QX IP PBX will consider it as an attempt for retrieving the parked call.	
Go to the remote location and call the <b>Call Park</b> extension to pick up the parked call. If enabled, the system will ask for the password authentication. If successfully entered, the parked call will be resumed.	Flash + Call Park Extension
To use the <b>Directed Call Park</b> feature, multiple <b>Call Park</b> extensions should be created on the QX IP PBX.	Number+ 伊
<b>Attention:</b> The Call Parking is valid within the timeout defined by QX IP PBX's administrator, during which hold music (if configured) will be played to the parked party. Contact your system administrator if you need the call parking timeout to be modified. When the <b>Call Park</b> timeout expires, a short ring notification will be sent to the phone initiating the call parking, and if no one picks up the parked call or if the phone is off the hook, the parked call will be automatically disconnected.	

For PBX services on IP phones accessible during the call, refer to the "Epygi IP PBX Features on Epygi Supported IP phones" document on the Epygi's Web portal.

# **Outgoing Call Blocking**

Outgoing Call Blocking       (available on the dial tone)		
Insert the extension's password and press $^{igoplus}$		
Enable Outgoing Call Blocking Disable Outgoing Call Blocking		
Dial a Called Number	Dial a Called Number	
to be blocked and press $ ilde{ heta}$	to be unblocked and press $^{igoplus}$	

# **Unconditional Call Forwarding Management**

ک 🕢 Unconditional Call Forwarding Management (when this menu is accessed, the Unconditional Call Forwarding service is already getting toggled)		
<b>1</b> Toggle (enable or disable) the Unconditional Forwarding service again*	al Change the Forwarding Number	
	Dial a new <b>Forwarding Number</b> and press	
	Confirm the new Forwarding Number with <i>to</i> or press <b>to</b> dial a new Forwarding Number.	

**Please Note:** Using the **Change the Forwarding Number** option will change the first entry in the **Unconditional Call Forwarding** table with **Auto** call type to the inserted **Forwarding Number**. Any other entries with **Auto** call type, as well as with other call types will not be modified.

\* Besides Any Address/Other Addresses entry of the Unconditional Call Forwarding table this toggling also affects all those entries that have **Toggle from Handset** option selected. The states of those entries will be set equal to the state of Any Address/Other Addresses entry after toggling.



# No Answer Call Forwarding Management



Please Note: Using the Change the Forwarding Number option will change the first entry in the No Answer Call Forwarding table with Auto call type to the inserted Forwarding Number. Any other entries with Auto call type, as well as with other call types will not be modified.

### **Voice Mail Services**

The **Voice Mail Services** are divided into three parts: **Voice Mailbox**, **Personal Settings** and **Password Change**. Each of these parts has a hierarchy that is described below.



\* After the first boot-up of the QX IP PBX or if the Voice Mail Configuration Wizard is manually enabled by QX IP PBX's administrator, entering the Voice Mail Services for the first time will activate the Voice Mail Configuration Wizard which will prompt the essential user's personal settings. Below are instructions on how to proceed with the Voice Mail Configuration Wizard from the handset.



)	💌 🛈 Enter Voice Mail Services		
ng W	<b>1</b> Voice Mailbox Menu		
	Send a Message or Leave a Reminder	<b>2</b> Play First Message	<b>3</b> Get Date/Time Info
ir e	4 Play Previous Message*	5 Play Current Message	6 Play Next Message*
	Print the attached FAX	8 Play Last Message	9 Delete Current Message

The following key combinations are available to navigate through Voice Mail Services menus.

## Voice Mailbox

After entering the voice mail services (using the keys (0)) press the key (1) to enter the Voice Mailbox menu. The following key combinations are available to navigate within the new messages.

 During the message playback 4 and 6 keys change their functionality and serve to rewind and forward the message for the timeout (by default 3 seconds) configured by the extension user from <u>Voice Mail Settings</u>.



(and press START button on the FAX machine)		
♦	Reply or Forward a Message	#

The Voice Mailbox menu has the following sub-hierarchy in the Reply or Forward a Message and the Send a Message or Leave a Reminder menus:

O Reply or Forward a Message			
Call Back immediately	1 Reply by Voice Mail	Forward a (any FAX attached to the mea	a Message ssage will be also forwarded)
	Dial 1 to mark the message as Urgent, or press pound to assign the Normal priority.	Di Destinatio	al n Number
	# Record a Message	<b>#</b> Record a Message	Dial additional Destination Number
		Dial <b>1</b> to mark the message assign the No	Record a Message as Urgent, or press pound to rmal priority.

<b>1</b> Send a Message or Leave a Reminder			
Dial Destination Number		<b>#</b> Leave a reminder	
<b>#</b> Record a Message	Dial additional <b>Destination Number</b>	Dial 1 to mark the message as Urgent, or press pound to assign the Normal priority.	
	<b>#</b> Record a Message		
Dial 1 to mark the message as Urgent, or press pound to assign the Normal priority.			

Please Note: This service is restricted regarding sending a message to PSTN destinations. A message will be successfully received by the destination if all of the following criteria are met:

- The connection to the destination is successful;
- The voice mail service is enabled on the destination;
- There is enough space in the voice mailbox of the destination;
- The duration of the forwarded/replied message is less than the maximum voice mail duration set up at the destination.

#### **Personal Settings**

Use the digit <sup>3</sup> to enter the area where the personal system messages can be modified. A voice notification will play the list of available system messages that may be modified so the user can select the desired system message by the corresponding buttons:



		<b>*0</b> Enter Vo	ice Mail Services		
		<b>3</b> Review S	ystem Messages		
1 Greeting Message	3 Incoming Blocking Message	<b>4</b> Outgoing Blocking Message	5 Your Name	<b>6</b> Out of Office Message	Find Me/Follow Me (FMFM) Message
1 Listen to Current Greeting Message	Listen to Current Incoming Blocking Message	Listen to Current Outgoing Blocking Message	Listen to Current Name recorded	Listen to Current Out of Office Message	Listen to Current FMFM Message
2 Record a New Greeting Message	<b>2</b> Record a New Incoming Blocking Message	<b>2</b> Record a New Outgoing Blocking Message	2 Record a New Name	2 Record a New Out of Office Message	2 Record a New FMFM Message
<b>3</b> Restore Default Greeting Message	<b>3</b> Restore Default Incoming Blocking Message	<b>3</b> Restore Default Outgoing Blocking Message	<b>3</b> Restore Default Name	<b>3</b> Restore Default Out of Office Message	<b>3</b> Restore Default FMFM Message
€ Stop Recording or Playback Greeting Message	Image: Constraint of the second se	f Stop Recording or Playback Outgoing Blocking Message	<b>#</b> Stop Recording or Playback Name Message	Geording or Playback Out of Office Message	<b>#</b> Stop Recording or Playback FMFM Message

# **Change Password**

Use the digit 4 to enter the area where the extension's user may change its password. This password is used to access personal configuration settings (also voice mailbox) through the QX IP PBX Web Management and the voice mailbox through the handset.



# Services for Incoming Calls

Calling to the extension	Calling to the extensi	Calling to the extension's Voice Mailbox					
<b>1</b> Skip the greeting message and enter the called extension's Voice Mailbox (authentication required)	(during the greeting message) Calling to the Zero Out destination	<b>#</b> Skip the greeting message and record a Voice Mail	O Leave the call queue and record a Voice Mail				



# **Recording Box**

To reach the extension's Recording Box from the phone handset, you should simply call that extension by dialing its PBX number, SIP address or calling from PSTN.

• During the recording playback ④ and ⑥ keys change their functionality and serve to rewind and forward the recording for the certain timeout (by default 3 seconds).

Call the extension to enter its Recording Box									
Recording Box extension password may be required if security is configured									
1	2	8							
• • •	Play First Recording	Get Date/Time Info							
4	5	6							
Play Previous Recording*	Play Current Recording	Play Next Recording*							
7	8	9							
	Play Last Recording	Delete Current Recording							
*	0	(#)							





# **QX IP PBX's Auto Attendant Services**

**QX IP PBX's Auto Attendant** provides remote access to the QX IP PBX voice connectivity services. Specifically, it supports remote connection to QX IP PBX extensions along with their mailboxes and making pass-through calls to other destinations. Remote access to the QX IP PBX auto attendant is possible through IP and PSTN calls.

**QX IP PBX's Auto Attendant** can be accessed locally, remotely from the IP network (by dialing Auto Attendant's SIP address) and from the PSTN network (by dialing QX IP PBX's PSTN number) if the calls addressed to the QX IP PBX's PSTN number are routed to the Auto Attendant.

Attention: If the Auto Attendant authentication attempts fail consecutively five times, QX IP PBX's Auto Attendant will become unavailable for the next 5 minutes.

The Auto Attendant services are divided several feature groups, but only **Connection Service** and **Extensions Directory** are supported by the voice messages which helps the caller to navigate within the area using the telephone handset buttons. Other services are available using the appropriate call code, but are not supported by voice messages. Thus, they are hidden for external callers.

**Connection Service** provides access to all extensions of the QX IP PBX device without restrictions. All QX IP PBX extensions may call each other dialing the extension number. All external callers (using PSTN or IP calling) can reach each QX IP PBX extension dialing QX IP PBX's phone number and using the Auto Attendant's voice menu to be connected to the desired extension by entering the extension number.

**Remote Enquiry** allows access to the mailboxes of QX IP PBX's extensions (both, active or inactive) in order for example to check the voice messages left for an absent user. The mailbox may be protected by a user password (optional, set by the system administrator or user).

You may remotely access your mailbox dialing QX IP PBX's phone number and using the Auto Attendant's voice menu (key 😵 🕕 for Voice Mail) and entering your password (if any). To navigate within your voice mails use the Voice Mailbox service call codes (for example dial 8 to hear the last message in your mailbox).

#### **Call Relay**

The QX IP PBX Auto Attendant is registered at Epygi's SIP server by default. It may be used similar to a private switching center if the Auto Attendant is routed to a particular ISDN trunk a "default user". It then allows, for example, establishing cost-saving long-distance calls via PSTN to the QX IP PBX Auto Attendant at the United States headquarters, via IP to the remote QX IP PBX Auto Attendant in the Office Asia or via PSTN to the other desired destinations (see <u>QX IP PBX's Feature Codes</u>). Access to **Call Relay** needs authorization.

#### **Remote Configuration Menu**

This menu allows extension owners to remotely enable/disable the **Unconditional Call Forwarding** service for **Any Address** or **Other Addresses** entries of the <u>Caller ID Based Services</u> table on the corresponding extension, as well as to change the certain forwarding number in the Unconditional Call Forwarding table. This menu requires extension authorization. For more details about the access key combinations, see <u>Unconditional Call Forwarding</u>.

#### **Call Back**

With the QX IP PBX's Call Back service callers can save the call charge when calling to/through the QX IP PBX to the third party SIP or PSTN destinations. The QX IP PBX allows you to configure a list of trusted callers that are allowed to make free of charge calls. Two types of Call Back configurations are available on the QX IP PBX: **Pre-configured Call Back** and **Remote Call Back Configuration**.

### **Pre-configured Call Back**

For **Pre-configured Call Back**, a list of trusted callers must be configured in the QX IP PBX's Authorized Phones Database using Web Management. The Call Back service should be enabled and a valid callback destination should be specified for each caller.

To use **Pre-configured Call Back**, the caller registered in the Authorized Phones Database should simply call to the QX IP PBX's Auto Attendant through SIP or PSTN, let the call to ring twice and then hang up. Call Back will be instantly activated, and QX IP PBX will call back to the defined Call Back destination. By answering the incoming call caller will be connected to the Auto Attendant menu.

#### **Remote Call Back Configuration**

The **Remote Call Back Configuration** service is used by authorized callers to configure or reconfigure existing call back configuration on the QX IP PBX. Remote Call Back Configuration is divided into two modes accessible from the QX IP PBX's Auto Attendant:

- Permanent Call Back
- Non-Permanent (Instant) Call Back

Please Note: Remote Call Back Configuration services are only available when the Automatically Enter Call Relay Menu checkbox is disabled in the Call Back settings for the trusted user.

#### **Permanent Call Back**

Permanent Call Back service allows callers registered in the Authorized Phones Database to create a new trusted caller with Call Back enabled. They can also modify the Call Back destination of existing callers in the Authorized Phones Database. By calling QX IP PBX's Auto Attendant and entering the Auto Attendant menu, the caller can use the 3 3 code (see <u>QX IP PBX's Feature Codes</u>) to create a new trusted caller as well as to modify the Call Back destination for the already registered callers in the Authorized Phones Database.



By entering Permanent Call Back reconfiguration menu, system asks caller to login by dialing the number and an appropriate password for the QX IP PBX's extension that is used as login extension in the Call Back settings. After passing the login, callers should follow the voice instructions for configuring a new entry or reconfiguring existing entries in Authorized Phone database.

When system accepts the inserted settings, the corresponding entry will be logged to the Authorized Phones Database. The caller will then be disconnected from the QX IP PBX's Auto Attendant and the defined Call Back destination will receive a call from the QX IP PBX within the next 45 seconds. Answering the incoming call, the caller will be reconnected to the QX IP PBX's Auto Attendant.

**Please Note:** The detected caller number must correspond to the one applied by the caller. In case of PSTN call back at least one PSTN line must be available on the QX IP PBX. There must be network connectivity and the destination must be reachable.

#### Non-Permanent Call Back

Non-Permanent Call Back configuration service allows trusted caller to organize one-time Call Back to the defined destination. In this situation, no entry will be logged to the Authorized Phones Database. By calling QX IP PBX's Auto Attendant and entering the Auto Attendant menu, the caller can use 🛠 🕤 menu (see <u>QX IP PBX's Feature Codes</u>) to modify the Call Back destination for already registered callers in the Authorized Phones Database.

The system will ask to login by dialing the number and an appropriate password for the QX IP PBX's extension that is used as login extension in the Call Back settings. After login, caller should follow the voice instructions for reconfiguring the existing entry in Authorized Phone database. The caller will then be disconnected from the QX IP PBX's Auto Attendant and the defined Call Back destination will receive a call from the QX IP PBX within the next 45 seconds. Answering the incoming call, the caller will be reconnected to the QX IP PBX's Auto Attendant.

Please Note: For both Permanent Call Back and Non-Permanent Call Back, the detected caller number must correspond to the one configured for trusted caller. In case of PSTN call back at least one PSTN line must be available on the QX IP PBX. There must be network connectivity and the destination must be reachable.

#### **Call Routing Management Menu**

This menu is used to manage the routing entries in the Call Routing table, i.e. to enable/disable certain dialing rules by dialing key combinations preconfigured on each routing entry.

Dialing **? 7 7** at the Auto Attendant welcome message, will ask for an enabler/disabler key used to enable or disable the routing rule(s) correspondingly. Since multiple routing rules may have the same enabler/disabler key combinations (the same key may be used as enabler for one routing rule, and as disabler for another one), dialing the certain key will affect all pre-configured routing rules.

If the routing record has an authorization enabled on the enabler/disabler key, administrator's password will be required to be inserted after the key. Once the administrator's password is dialed, system plays a confirmation about the accepted configuration and the state of the certain routing rule(s) is getting modified.

If administrator's password has been inserted incorrectly for 3 times, no status changes will be applied to any of the routing record(s), even to those which have no authorization enabled.

Mainly targeting external users, QX IP PBX AA also provides voice services for local users. It will be helpful if the desired extension number is unknown.

The **Extensions Directory** is used to access QX IP PBX's extensions by spelling names (assigned to the extensions and configured by administrator) using the keypad of the phone. More than one name may be assigned to an extension, reaching the extension by spelling one of the names attached to it. If the spelled name matches to some record in the extensions directory table, a wave file with the extension user name (or any other information characterizing the extension's user) will be played to the caller. Every extension's user may configure these wave files individually.



# **Call Codes Available in Auto Attendant**

The following key combinations are available to access and manipulate within Auto Attendant services for external calls addressed to the Auto Attendant, incoming calls from the mainline routed to the Auto Attendant or local calls made by dialing the 2-digit attendant extension:

Incoming call to Auto Attendant	Services	Keys
(press 🕕 on the Auto Attendant w	relcome message to dial the ZeroOut destination)	
<b>Extensions Menu</b> - establishing a c	- (already in)	
<b>Remote Enquiry</b> - establishing a co	★ 0	
Call Relay Menu - mainly for extern	nal calls (IP/PSTN) but local calls are also allowed.	*2
This service avoids having to hang u or the user decides to cancel the cal and the user will get an invitation to the call has been established.	up and redo the entire dialing process if QX IP PBX detects an error in the dialed number Il and dial a new number. By entering the combination 😒 😒 the call will be interrupted o dial a new one. This is applicable during dialing, after the ring tone has started, and after	
"★ ★ " digit combination is	Under the following restrictions:	
<ul><li><b>applicable:</b></li><li>During the dialing,</li></ul>	<ul> <li>This feature can only be used when accessing from PSTN to the external SIP destination through QX IP PBX's AA or vice versa.</li> </ul>	
• After ring tones start,	• This feature is not available on the second QX IP PBX Auto Attendant (calling from	
• After call establishment.	one Auto Attendant to another).	
<b>Remote Configuration Menu</b> – a <b>Address</b> or <b>Other Addresses</b> ent forwarding destination.	llows remote enabling/disabling of the Unconditional Call Forwarding service for <b>Any</b> tries in the <u>Caller ID Based Services</u> table on the extension and to modify the certain	♦ ④
Non-Permanent Call Back – allo destination for a one-time callback change will not be logged into Auth	ws PSTN callers registered in the Authorized Phones Database to change the callback a. After the caller hangs up, QX IP PBX will call back to the newly specified number. This porized Phones Database.	* 5
<b>Permanent Call Back</b> – allows P Phones Database entries by modify only by calling from the newly spec	PSTN callers registered in the Authorized Phones Database to reconfigure Authorized ring the caller's and/or callback numbers. The caller will then be able to initiate a callback ified caller number.	* 6
<b>Administrator Login</b> Allows to modify Auto Attendant g	reeting and menu messages, as well as to manage universal extension messages.	*75
Call Routing Management Menu certain routing rules by dialing key	<ul> <li>a allows managing the routing entries in the Call Routing table, i.e. to enable/disable</li> <li>combinations pre-configured on each routing entry.</li> </ul>	*77
<b>Extensions Directory -</b> accesses phone.	QX IP PBX extensions by spelling the extension's user name using the keypad on the	<b>#</b>
Quits the Auto Attendant and start	s a dial tone.	Flash 4





# **Your Extension Graphical Interface**

QX IP PBX configuration management may be accessed on two different levels: for users (extensions) and administrators. If you are an extension user, log in with the extension number and the password (if any) you received from your system administrator.

If you are an admin, additionally the **Return** link will appear to go back to the QX Management page.

Log Out is used to close the session between the user PC and QX and to leave the QX Your Extension Management.

Your Extension menus allow you to access the following settings to operate and perform actions that are private for each user:

### Voice Mail

- <u>Voice Mailbox</u>
- <u>Voice Mail Settings</u>
- <u>Voice Mail Profiles</u>
- Group List

Call History

PBX Information

**Speed Calling** 

#### Account Settings

#### **Basic Services**

- <u>General Settings</u>
- Hold Music Settings
- Do Not Disturb
- <u>Hot Line Settings</u>

# Caller ID Services

- Hiding Caller Information
- Incoming Call Blocking
- Outgoing Call Blocking
- Distinctive Ringing
- <u>Call Hunting</u>
- Many Extensions Ringing
- Unconditional Call Forwarding
- Busy Call Forwarding
- <u>No Answer Call Forwarding</u>
- <u>Unregistered/Inaccessible Call Forwarding</u>
- <u>Find Me / Follow Me</u>
- Emergency Interrupt
- <u>Intercom</u>
- Voicemail Profile

#### **Entering SIP Addresses Correctly**

Calls over IP are implemented based on Session Initiating Protocol (SIP) on the QX IP PBX. When making a call to a destination that is somewhere on the Internet, a SIP address must be provided.

SIP addresses needs to be specified in one of the following formats:

"display name" <username@ipaddress:port> "display name" <username@ipaddress> username@ipaddress:port username@ipaddress username

For your convenience, the following combinations can be used:

- \*@ipaddress any user from the specified SIP server
- username@\* a specified user from any SIP server
- \*@\* any user from any SIP server

The display name and the port number are optional parameters in the SIP address. If a port is not specified, 5060 will be set up as the default one. The range of valid ports is between 1024 and 65536.

A flexible structure of wildcards is allowed. In comparison with a wildcard, the "?" character stands for only one unknown digit and the "\*" character stands for any number of any digits.

**Please Note:** Wildcards are available for caller addresses only. No wildcard characters are allowed for called party addresses. Exceptions are addresses in the **Caller ID Services - Addresses** table that are used by **Outgoing Call Blocking** and **Hiding Caller Information Settings** services. To use "\*" and "?" alone (as non wildcard characters), use "\\*" and "\?" correspondingly.



# **Voice Mail**

The **Voice Mail Service** provides a possibility to leave brief voice messages on the mailbox of an unavailable or busy QX IP PBX extension. The caller hears a greeting message (configurable by the extension user) and a signal initiating the Voice Mail recording. The extension user may configure the maximum duration of the voice message as well as the Voice Mail system activation timeout (see chapter <u>Voice Mail Settings</u>).

Received voice messages are stored in the <u>Voice Mailbox</u>. They can be accessed by the 😢 🕕 key combination from the phone handset and via QX IP PBX management. Voice messages can to be played, marked (from GUI only), deleted, replied to (from handset only) or forwarded by the user. Messages with a facsimile (FAX) attached will be displayed in a special way in the Voice Mailbox on web management access and will be indicated by a special voice signal when accessing the message from the handset. The Incoming FAX message can be viewed and downloaded to the PC from the Voice Mailbox at Web management access as a \*.tif picture file.

QX IP PBX's Voice Mail service also allows reviewing system messages used for telephony services functionality. The voice mail greeting, incoming and outgoing blocking messages, user's name and out of office greeting can be played, recorded and restored. Greeting messages are played to the caller announcing that the called extension is unavailable and asking to leave a voice mail. Blocking messages are played when receiving or making incoming/outgoing calls from/to the restricted destination. User's name is played when surfing the Extensions Directory. The personal out of office greeting is played instead of the main greeting message, when out of office option is selected on the extension.

QX IP PBX provides caller the possibility of leaving voice messages when called extension is busy or unavailable. A voice mail greeting message, and a voice signal indicating voice mail recording initiation, are played back to the caller.

All voice mail functionality settings, such as enabling the greeting message, adjusting the maximal voice mail duration, voice mail system activation timeout, etc, are configurable by the user through the extension's <u>Voice Mail Settings</u>.

### **Voice Mailbox**

QX IP PBX supports two ways of accessing the extension's Voice Mailbox: through the phone handset and through QX IP PBX Web Management. With both options, the user is free to manipulate with voice mails located in the Voice Mailbox, such as playing, deleting, forwarding, etc.

When accessing the Voice Mailbox through the phone handset, additional settings to manipulate the user defined system messages are provided. The user can define their own Voice Mail Greeting, Incoming and Outgoing Blocking messages as well as the User's recorded name. Each of these system messages can be played, recorded and restored. Voice Mail Greeting messages are played back to the caller announcing that the called extension is unavailable and asking to leave a voice mail. Blocking messages are played back to the caller when receiving or making incoming/outgoing calls from/to the restricted destination. User's recorded Name is used in the Extensions Directory when the spelled name matches the entry in the directory table.

Instructions on accessing and navigating within the voice messages and Voice Mailbox Services via the phone handset are described in the Feature Codes.

Please Note: When playing newly received voice mails (via a phone handset or with the use of the Play button in this page) will deprive the "New" state of the voice mail.

The **Voice Mailbox** can hold **New** (not yet played) and **Old** (already played) voice mails. The **Status** column in the Voice Mailbox table indicates the current state of the voice mails. All new mails in the table are displayed in bold font. Playing a voice mail cancels both the **New** status and bold font.

Voice mails can be selected to be played, deleted, marked as important or book-marked, etc. Additionally they can be forwarded to desired email addresses.

**VM free space** provides information on the number of minutes/seconds of free voice mailbox space.

The following functional buttons and fields are available:

**Check Mail** refreshes the mailbox and updates the number of newly arrived mails (if any).

**New Mails** shows the number of newly arrived mails since the user's last access to the voice mailbox.

**All Mails** shows the number of all mails existing in the mailbox.

										✓Pending Events	Logged In As: Administrator (admin)	Log Out
	/oice Ma	G	History	PBX Information	Speed Callin	a Account	Basic Services	Caller ID Services				
sion Vei	ice Mailb	x Voic	Vail Setting	Voice Mail Profiles	Group List							
Vo	oice	Mailb	х									He
Ex	xtens	ion:	02									
VN Ch	M free s heck Ma	iace:									1 day 3 hour 26 mi	n 39 se
Fo	orward	Non-m	ked 🔻	Mark Delete								naits: 1
Fe	orward Sta	Non-m	iked 🔻	Mark Delete	Call	r			Date & Time 🔺		Message	nails: Fa
Fo	orward Star	Non-m us I	iked ¥ M	Mark Delete	Calle	r		13-Aug-2014 16:35:55	Date & Time 🛦		Message	Fa
FC	orward Star	Non-m us I	rked • M 10 10	Mark Delete	Call	ir		13-Aug-2014 16:35:55 13-Aug-2014 16:32:48	Date & Time 🛦		Message	Fa ec)
Fo	orward	Non-m	M 10 10	Mark Delete	Call	:F		13-Aug-2014 16:35:55 13-Aug-2014 16:35:48 13-Aug-2014 16:32:34	Date & Time ▲		Message	Fa ec)
Fe	orward Star New New	Non-m us I	rked V M 10 10 10 10	Mark Delete	Calle	17 17		13-Aug-2014 16:35:55 13-Aug-2014 16:32:48 13-Aug-2014 16:32:34 13-Aug-2014 16:32:34	Date & Time ▲		Message	Fa ec)
F	orward Star Nev Nev Nev Nev	Non-m	rked V M 10 10 10 10 10 7/	Mark Delete	Calle	я 		13-Aug-2014 16:35:55 13-Aug-2014 16:32:48 13-Aug-2014 16:32:34 13-Aug-2014 16:32:54 13-Aug-2014 16:17:13	Date & Time ▲		Message	ec) ()
FC	Star	Non-m	rked V M 10 10 10 10 7/ 7/	Mark Delete , , , , , , , , , , , , ,	Call	f		13-Aug-2014 16:35:55 13-Aug-2014 16:35:55 13-Aug-2014 16:32:34 13-Aug-2014 16:32:34 13-Aug-2014 16:32:34 13-Aug-2014 16:17:13 13-Aug-2014 16:13:31	Date & Time 🛦		Message (15 rc) (1 min 27 s (1 min 27 s (1 min 27 s (1 min 1 se) (1 min 1 se) (1 min 1 se) (48 sec)	rails: ec) ()
Fr C	orward	Non-m	Ked V M 10 10 10 10 10 10 10 10 10 10	Mark Delete i i i i i i i i i i i i i	Call	17		13-Aug-2014 1635:55 13-Aug-2014 1632:48 13-Aug-2014 1632:48 13-Aug-2014 1622:44 13-Aug-2014 1612:31 13-Aug-2014 1612:31 07-Aug-2014 1511:00	Date & Time ▲		Message () [15 sc) () [1 min 27 s () [1 min 1 sc () [1 min 1 sc () [1 min 1 sc () [48 sc) () [6 sc) () [5 sc)	Fa ec) ()

Fig.III- 1: Voice Mailbox page

The **Voice Mailbox** tables display all voice mails in the mailbox:

Status - indicates whether the voice mail is New and not yet played. New mails are displayed in bold font.

! - indicates whether message has an urgent priority or not.

BM (bookmark) - shows marked records. The fields can include some indications (image signs) depending on the type of being marked.

Caller - is the address of the caller who left the voice mail.

Date & Time – is the voice mail receipt date and time.

**Message** – indicates voice mail duration (in minutes/seconds) and a speaker sign used to play (using any available media player supported by your Operation System) the received voice mail or to download the audio file to the PC.





**FAX** (facsimile) – indicates whether a FAX message is attached to the voice mail, and if so, displays the size of the FAX message (in KBs) and an icon used to view the incoming FAX message or download the graphical file to PC.

The column headings of the voice mail tables are created as a link. By clicking on the column heading the table will be sorted by the selected column. Upon sorting (ascending, descending) arrows will be displayed next to the column heading. Each row in the Voice Mailbox tables can be selected by a checkbox for editing, deleting or marking.

The following functional buttons serve to modify the table entries:

**Forward** link allows forwarding a selected voice mail to one or more email addresses with some enclosed message in the email body. The link refers to the page where email addresses should be defined (use a space, semicolon or a comma to separate the mailing addresses in the text field), email subject and some message can be inserted. Voice mails will get automatically converted to the G.711 codec before being attached to the email. The Voice Mail forwarding feature is active only when Mail Service is enabled otherwise the "Mail Service is disabled" error appears.

Please Note: If the voice mail contains FAX inside, then the graphical file of the FAX message will be forwarded together with the accompanying voice mail.

Mark submits the values chosen out of the drop down list aside (Important or Bookmark) to the selected records.

#### To Play a Voice Mail

- 1. Click on the speaker icon of the corresponding voice message.
- 2. Depending on your browser's settings the .wav file will be played directly or an application will ask you to save the .wav file on the local PC. In the second option, please specify the path and run the media file from the specified location to play it.

### To Mark a Voice Mail Record

- 1. Select the checkbox of the corresponding record in the **Voice Mailbox** table that should to be marked.
- 2. Select the desired marking type from the Mark drop down list.
- **3.** Select the **Mark** button to initiate the marking operation. Depending on the selected marking type the record(s) will show an image sign in the corresponding **BM** field.

#### To Delete a Voice Mail Record

- 1. Select the checkbox of the corresponding record(s) in the **Voice Mailbox** table that should to be deleted.
- 2. Select the Delete button.
- 3. Confirm the deletion with Yes. The selected voice messages will be deleted. To abort the deletion and keep the messages in the inbox, select No.

#### **Voice Mail Settings**

The **Voice Mail Settings** permits enabling the **Voice Mail Service** for the callers if the called extension is not available or does not answer. The voice mail system will be activated allowing the caller to leave a voice message. This page also provides information on the voice mailbox settings such as maximal mail message duration, voice mail indication method when a new voice mail arrives, various settings for the voice mailbox as well as a possibility to send voice mails via e-mail.



The **Voice Mail Settings** page offers the following input options:

**Maximum mail message duration** lists the possible values for the maximum mail duration (counted in minutes) during which a voice mail will be recorded. The **Unlimited** selection allows voice message recording as long as the user's space remains.

Ask password before granting local access to mailbox protects local access of the user's voice mailbox. If the checkbox is checked a user password will be required to access the voice mailbox via (\* 0) digit combination.

Ask password before granting remote access to mailbox protects remote access of the user's voice mailbox. If the checkbox is checked a user password will be required to access the voice mailbox when reaching it through the Auto Attendant.

**Send welcome message** enables a welcome message to be played to the user when accessing the mailbox locally.

**Play Voice Mail Help** is an optional setting that plays voice mail help instructions to the user when entering the Voice Mailbox. This option guides the user through the mailbox, explaining how to play and delete the voice mails as well as modifying system messages.

Automatically play messages will auto play of all voice mails. Whenever entering the voice mailbox, the system will sequentially play the date/time when the message was received followed by the voice mail itself in the order sorted by the priority level (starting with the message in highest priority) or. If no priority is specified, they will be played in the order in which messages were received, i.e. starting with first (oldest) message. When the last message is played, the Voice Mail help will be replayed.

**Send mails count information message** announces the number of **New** (unread) voice messages in the mailbox when entering the mailbox.

**Send date/time information message** announces the time and date a voice message was received and is played before every voice message.

**Send beep at the end of message** enables an optional parameter that activates a "beep" sound after each played voice message.

gi			Language +	✓Pending Events	Logged in As: Administrator (admin)	Log Out
	Voice Mail Call History PBX Information Speed Calling Account Basic	Services Caller ID Services				
sion	Voice Mailbox Voice Mail Settings Voice Mail Profiles Group List					
	Voice Mail Settings					Help
	Extension: 103					
	Maximum mail message duration (min) 5					_
	Ask password before granting local access to mail box	Voice Mail Indication				
	Ask password before granting remote access to mail box	Lamp indication				
	Send welcome message	Tone indication				
	Play Voice Mail help	Ringing indication				
	Automatically play messages	Ring duration (sec) 0.2 *				
	Send mails count information message	Silence duration (min) 10 *				
	Send date/time information message					
	Send beep at the end of message	Enable ZeroOut				
		Redirect call type PBX •				
	Send new voicemail notifications via e-mail	00				
	Fimal address artabil: ranaranan@anuninem.em	Rearrect address				
	ascgnik_sanasaryan@epygiarm.am					
	Repeat every 1 min	Enable Fax Redirection				
	maximum 1 times					1
	Voice Mail: Send polification with attachment	Redirect to extension 114 V				
	Permore Voice Mail on rand	Automatic Fax Receiving Mode				
	Fax Send notification with attachment	Fnable Out Of Office				
	Remove Fax on send					
		Restore default out of office greetin	g file			
	Send new vorce message notifications via SMS     Mobile number 098654218	Upload new out of office greeting file	Choose Fil	e No file c	hosen	
		Restanting Bull and Rest				
	Repeat every 1 min	Expiration Date and Time				
	maximum 1 times	en Expires in				
		Aug ▼ 7 ▼ 2014 ▼				
	Send new voice message notifications via phone call	at 10 V : 36 V				
	C-11 Amer 700 V					
	сантуре Рых 🔻					
	Call to 104	Forward/Rewind duration (sec) 3				
	Repeat every 1 min					
	maximum 1 times					
	Partora default Notification Marcana					
	III RESLUE UEIAUR NOTIFICATION MESSAGE					
	Upload new Notification Message Choose File No file chosen					
						1
	<<< Less notification options					
	Restore default greeting file					-
	Upload new greeting file Choose File No file chosen					
	Download graating file					
	Download discrinid line					
	Save					
	© 2000-2014 Epypi Technologies, LTD, Al	Rights Reserved. (en_US)				

Fig.III- 2: Voice Mail Settings page

When the **Silent VM recording** checkbox is selected, callers who have reached the extension's voice mail service will not hear an invitation to record a voice mail and the following beep sound. The voice mail recording will start without any additional notification.

Send new voice message via email is an option to send new voice mail files via e-mail to the defined recipients. Mails will be automatically converted to the Windows PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format before being attached to the e-mail. Checkbox activates the following input options:

**Email Address** requires the e-mail address(es) of the person(s) that should to receive the newly arrived voice mails on their e-mail account(s). Use a space, semicolon or a comma to separate the mailing addresses in the text field.

The next two fields are used for retransmission of the voice mail via email. Number of times text field requires the maximum number of times the voice mail will be delivered via email to the recipient within the interval (in minutes) defined in the **Repeat every** text field. If the voice mail is required to be sent only once, insert "1" in **Repeat every** text field and "0" in the Number of times text field.

The Voice Mail and Fax dropdown lists allow to select the email sent options- do not send notification, send notification without attachment or send notification with voice or fax attachments.

Remove Voice Mail on send removes the voice mail from the user mailbox after sending it to the e-mail recipient(s).

Remove Fax On Send removes fax attachment from the user mailbox after sending it to the email recipient(s).

Attention: The e-mail can only handle up to 3 minutes long voice mails. If the voice mail is longer than 3 minutes, it will be truncated and only the first 3 minutes of it will be sent to the indicated e-mail address. However, in the e-mail body the recipient will receive the information that the attached voice mail is truncated and the total length of the voice mail. Please note that the voice mails longer than 3 minutes will not be removed from the voice mailbox once they are sent per e-mail even if the **Remove Voice Mail on send** checkbox is selected. This gives you a possibility to listen to the ending of the voice mail directly from your voice mailbox (from the handset or by downloading it from the Web management).

Please Note: This service will work only when System Mail is enabled on the QX IP PBX. Contact your system administrator if you have problems with voice mail delivery via email.



Send new voice message notification via SMS allows the voice mail notification delivery via SMS to the defined mobile number. Checkbox activates the following input options:

**Mobile Number** text field requires the destination's mobile number.

The next two fields are used for retransmission of SMS notifications. The number of times text field requires the maximum number of times the notification should be delivered to the recipient within the interval (in minutes) defined in the **Repeat every** text field. If the notification is required to be sent only once, insert "1" in **Repeat every** text field and "0" in the Number of times text field.

**Please Note:** This service will work only when **SMS Service** is enabled on the QX IP PBX. Contact your system administrator if you have problems with voice mail notifications delivery via SMS.

**Send new voice message notification via phone call** enables the voice mail notification delivery via a phone call to the defined phone number. The checkbox activates the following input options:

**Call Type** drop down list includes the available call types:

- PBX local calls to QX IP PBX extensions;
- SIP calls through a SIP server;
- Auto for undefined call types. The destination (independent on whether it is a PBX number or SIP address) will be reached through Routing;
- Callback automatic call to the voice mail author. This can be used as a notification that the recipient has received the voice mail but has not yet played it.

**Call To** text field requires the destination's phone number depending on the selected call type. For **Callback** call type, no destination's phone number is required.

The next two fields are used for retransmission of phone notifications. Number of times text field indicates the maximum number of times the notification should be delivered to the recipient within the interval (in minutes) defined in the **Repeat every** text field. If the notification is specified to be sent only once, insert "1" in **Repeat every** text field and "0" in the Number of times text field. For **Callback** call type, the first notification is sent to the voice mail author after the first expiration of the interval defined in the **Repeat every** text field. For calls with call type different from Callback, the first notification will be sent immediately.

Restore default Notification Message restores the default notification message. If the checkbox is selected, the file upload will be disabled.

**Upload new Notification Message** will show the attached notification file selected by the current extension. Please note that a different notification message can be uploaded in case this service serves as a notification to the extension user (to inform about the new voice mail received) or if it serves as a notification for the voice mail author to be informed that the message has been received by the QX IP PBX but is not yet played by the extension user. The uploaded file needs to be in the PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format, otherwise the system will prevent uploading with the "Invalid audio file, or format is not supported" warning message. The system also prevents uploading in case insufficient space is available on QX IP PBX for the corresponding extension and gives a "You do not have enough space" warning.

Choose File browses for the notification file that must be in PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format.

**Download Notification Message** appears only if a file has been uploaded previously. The link is used to download the audio file to the PC and opens the file-chooser window where the saving location can be specified.

Voice Mail indication enables user notifications for new voice messages in the mailbox. During Lamp indication, depending on the type of phone a visual blinking signal will announce a new voice mail.

The **ZeroOut** voice mail feature allows a caller that has reached the called extension's voice mailbox to accelerate the automatic redirection feature instead of leaving a message in the extension's Voice Mailbox. To activate this feature, the caller should dial **()** digit (see Feature Codes) during the voice mail greeting which invites the caller to leave a message. The caller will then be automatically transferred to the destination specified in this page.

Enable ZeroOut checkbox selection enables the ZeroOut feature and activates the following fields to be inserted:

Redirect Call Type drop down list includes the available call types:

- PBX local calls between QX IP PBX extensions and the Auto Attendant
- SIP calls through a SIP server
- PSTN calls to PSTN
- Auto used for undefined call types. Destination (independent on whether it is a PBX number, SIP address or PSTN number) will be reached through Routing.

The **Redirect Address** text field requires the destination address where the caller should be automatically forwarded to if activating the ZeroOut feature.

The **Enable FAX Redirection** checkbox is used to redirect the incoming FAX (facsimile) when the FAX tone is detected after Voice Mail has been activated. The checkbox selection enables the **Redirect to extension** drop down list where extensions with enabled FAX Support are listed and is used to select the extension where the incoming FAX should be forwarded.

The Automatic Fax Receiving Mode checkbox is used to set the Unified voice mail to FAX receiving mode without receiving initial FAX CNG signal from the caller side.

The **Enable Out of Office** checkbox allows activation of the Out of Office message which acts as an optional Voice Mail Greeting message in the period while the user is out of office, on vacations, etc. When this checkbox is selected, a user-defined Out of Office message will be played (if uploaded or recorded from the phone handset, otherwise a default Out of Office message will be used) to the caller which reached the called extension's Voice Mailbox.

Restore default Out of Office file restores the default Out of Office message file. If the checkbox is selected, the file upload will be disabled.



**Upload new Out of Office Greeting file** will show the attached Out of Office message file selected by the current user. The Out of Office message file will be played to a caller when entering the voice mail system. The uploaded file needs to be in PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format, otherwise the system will prevent its uploading and will give the "Invalid audio file, or format is not supported" warning message. The system also prevents uploading when insufficient space is available on QX IP PBX for the corresponding extension. In this situation, the "You do not have enough space" warning will be received. Optionally, the Out of Office message can be recorded from the phone handset (see Feature Codes).

Choose File browses for the Out of Office message file that must be in PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format.

**Download Out of Office Greeting file** appears only if some file has been uploaded previously. The link is used to download the audio file to the PC and opens the file-chooser window where the saving location can be specified.

**Expiration Date and Time** selection is used to set the expiration date and time of the Out of Office message validity. When the expiration date/time expires, the Out of Office message automatically gets disabled and Voice Mail regular greeting gets activated again.

**Forward/Rewind Duration** drop down list is used to select the timeout in seconds used to shift the voice mail playback from the handset. For more instruction on how to shift the voice mail playback, please refer to Feature Codes.

Restore default Greeting file will restore the default greeting file. If the checkbox is selected, the file upload will be disabled.

**Upload new greeting file** will show the attached greeting file selected by the current user. The greeting file will be played to a caller when entering the voice mail system. The uploaded file needs to be in PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format, otherwise the system will prevent uploading and the "Invalid audio file, or format is not supported" warning message will be received. The system also prevents uploading in case insufficient space is available on QX IP PBX for the corresponding extension. In this situation, the "You do not have enough space" warning will be received. Optionally, a greeting file can be recorded from the phone handset (see <u>QX IP PBX's Feature Codes</u>).

Choose File browses for the greeting file that must be in PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format.

**Download Greeting File** appears only if a file has been previously uploaded. The link is used to download the audio file to the PC and opens the filechooser window where the saving location can be specified.

# **Voice Mail Profiles**

The Voice Mail Profiles page is used to define custom voice mail profiles and their settings.

The **Voice Mail Profiles** page contains a table where all Voice Mail Profiles for the corresponding extension are listed. The following functional buttons are available:



Add opens the Add Entry page where a new Profile Name should be defined.

**Edit** opens the **Edit Entry** page where **Voice Mail Profile** settings should be defined.



Fig.III- 4: Voice Mail Profiles – Add Entry page



The **Voice Mail Profiles** page is used configure the profile specific voice mail settings. This page contains the following components:

**Maximum Mail Message Duration** lists the possible values for maximum mail duration (counted in minutes) during which a voice mail will be recorded. The **Unlimited** selection allows voice message to be recorded as long as the user's space could hold.

**Send new voice message via email** is an option to send new voice mail files via e-mail to the defined recipients. Mails will be automatically converted to the PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format before being attached to the e-mail. Checkbox activates the following input options:

**Email Address** requires the mailing address(s) of the person(s) that should to receive the newly arrived voice mails on their email accounts. Use a space or a comma to separate the mailing addresses in the text field.

The next two fields are used for retransmission of voice mails via email. **Number of times** text field requires the maximum number of times the voice mail will be delivered via email to the recipient within the interval (in minutes) defined in the **Repeat every** text field. If the voice mail is required to be sent only once, insert "1" in **Repeat every** text field and "0" in the Number of times text field.

The **Voice Mail** and **Fax** dropdown lists allow to select the email sent options- do not send notification, send notification without attachment or send notification with voice or fax attachments.

**Remove Voice Mail on send** removes the voice mail from the user mailbox after sending it to the email recipient(s). **Remove Fax On Send** removes the fax attachment from the user mailbox after sending it to the email recipient(s).

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200 Extension	Veloc Mail         Call History         PSX biformation         Speed Calling         Account         Basis           Veloc Mails         Veloc Mail Settings         Veloc Mail Settings         Coup Lint         Profiles for Voice Mail Settings - VMSforOffice	Services Caller ID Services		Help
	Extension: 103 Maximum mail message duration (min) 5			
	ØE       Send new volce messages via e mail         E-mail address       astgrik_sanasaryan@epysam.am         Repeat every	Enable ZeroOut  Redirect cal type  PEX  Redirect address  0		
	Call type PER  Call to  509			
	Repeat every min maximum times  Restore default Notification Message Upload new Notification Message Choose File No file chosen  <			
	Restore default greeting file     Upload new greeting file     Choose File     No file chosen     Save		]	
	e 200-201 <u>East Tablecourt</u> (TD A	Rights Reserved. (an, US)		

Attention: The e-mail can only handle up to 3 minutes long voice mails. If the voice mail is longer than 3 minutes, it will be truncated and only the first 3 minutes of it will be sent to the indicated e-mail address. However, in the e-mail body the recipient will receive the information that the attached voice mail is truncated and the total length of the voice mail. Please note that the voice mails longer than 3 minutes will not be removed from the voice mailbox once they are sent per e-mail even if the **Remove Voice Mail on send** checkbox is selected. This gives you a possibility to listen to the ending of the voice mail directly from your voice mailbox (from the handset or by downloading it from the Web management).

Please Note: This service will work only when System Mail is enabled on the QX IP PBX (see Manual II - Administrator's Guide). Contact your system administrator, if you have problems with voice mail delivery via email.

Send new voice message notification via SMS allows voice mail notification delivery via SMS to the defined mobile number. Checkbox activates the following input options:

#### Mobile Number text field requires the destination's mobile number.

The next two fields are used for retransmission of SMS notifications. The **Number of times** text field requires the maximum number of times the notification should be delivered to the recipient within the interval (in minutes) defined in the **Repeat every** text field. If notification is required to be sent only once, insert "1" in **Repeat every** text field and "0" in the **Number of times** text field.

Please Note: This service will work only when SMS Service is enabled on the QX IP PBX (see see Manual II - Administrator's Guide). Contact your system administrator, if you have problems with voice mail notifications delivery via SMS.

**Send new voice message notification via phone call** enables the voice mail notification delivery via phone call to the defined phone number. The checkbox activates the following input options:

Call Type drop down list includes the available call types:

- PBX local calls to QX IP PBX extensions;
- SIP calls through a SIP server;
- Auto for undefined call types. Destination (independent on whether it is a PBX number or SIP address) will be reached through Routing;
- **Callback** automatic call to the voice mail author. This can be used as a notification that the recipient has received the voice mail but has not yet played it.
- **Call To** text field requires the destination's phone number depending on the selected call type. For Callback call type, no destination's phone number is required.
- The next two fields are used for retransmission of phone notifications. The number of times text field indicates the maximum number of times the notification should be delivered to the recipient within the interval (in minutes) defined in the **Repeat every** text field. If the notification is specified to be sent only once, insert "1" in **Repeat every** text field and "0" in the Number of times text field. For **Callback** call type, the first

Fig.III- 5: Voice Mail Profiles – Edit Entry page



notification is sent to the voice mail author after the first expiration of the interval defined in the **Repeat every** text field. For calls with call type different from Callback, the first notification will be sent immediately.

Restore default Notification Message restores the default notification message. If the checkbox is selected, the file upload will be disabled.

**Upload new Notification Message** will show the attached notification file selected by the current extension. Please note that a different notification message can be uploaded in case this service serves as a notification to the extension user (to inform about the new voice mail received) or if it serves as a notification for the voice mail author to be informed that the message has been received by the QX IP PBX but is not yet played by the extension user). The uploaded file needs to be in the PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format, otherwise the system will prevent uploading with the "Invalid audio file, or format is not supported" warning message. The system also prevents uploading in case not enough space is available on QX IP PBX for the corresponding extension and gives a "You do not have enough space" warning.

Choose File browses for the notification file that must be in PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format.

**Download Notification Message** appears only if a file has been uploaded previously. The link is used to download the audio file to the PC and opens the file-chooser window where the saving location can be specified.

The **ZeroOut** voice mail feature allows a caller that has reached the called extension's voice mailbox to accelerate the automatic redirection feature instead of leaving a message in the extension's Voice Mailbox. To activate this feature, the caller should dial **0** digit (see QX IP PBX's Feature Codes) during the voice mail greeting which invites the caller to leave a message. The caller will then be automatically transferred to the destination specified in this page.

Enable ZeroOut checkbox selection enables the ZeroOut feature and activates the following fields to be inserted:

Redirect Call Type drop down list includes the available call types:

**PBX** - local calls between QX IP PBX extensions and the Auto Attendant

 $\boldsymbol{SIP}$  - calls through a SIP server

 $\ensuremath{\textbf{PSTN}}\xspace$  - calls through the  $\ensuremath{\textbf{PSTN}}\xspace$ 

Auto - used for undefined call types. Destination (independent on whether it is a PBX number, SIP address or PSTN number) will be reached through Call Routing.

Redirect Address text field requires the destination address where caller should be automatically forwarded in case of activating the ZeroOut feature.

Restore Default Greeting File will restore the default greeting file. If the checkbox is selected, the file upload will be disabled.

**Upload New Greeting File** shows an attached greeting file selected by the current user. The greeting file will be played to a caller party when it is entering the voice mail system. The uploaded file needs to be in PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format, otherwise the system will prevent uploading and the "Invalid audio file, or format is not supported" warning message will be received. The system also prevents uploading in case not enough space is available on QX IP PBX for the corresponding extension. In this situation, the "You do not have enough space" warning will be received. Optionally, greeting file can be recorded from the phone handset (see Feature Codes).

The **Choose File** button helps to choose the desired greeting file that should be in PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format. **Download Greeting File** appears only if a file has been previously uploaded. The link is used to download the audio file to the PC and opens the file-chooser window where the saving location can be specified.

# **Group List**

**Group List** page allows you to define Groups with the specified addresses inside. The **Group List** is used to send or forward voice messages (see <u>QX IP</u> <u>PBX's Feature Codes</u>) to the number of addresses simultaneously. Groups may consist of a variety of PBX and SIP addresses.

The **Group List** page consists of a table where all defined Group Keys and the corresponding addresses are listed.

Press on a link in the **Addresses** column to access the **Address List for the Group** page and to modify the addresses of the corresponding group. If Group doesn't include addresses, "no address is available" will be displayed in the **Addresses** column.

The **Add** functional button opens the **Group List - Add Entry** page where a new Group Key can be defined.

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QX200	Ve	pice Mail	Call History	PBX Information	Speed Calli	ng Account	Basic Services	Calle	er ID Services				
Vour Extension	Voic	e Mailbox	Voice Mail Settings	Voice Mail Profiles	Group List								
- Ketuin	Gr	oup Li	ist										Help
	Ex	tensio	on: 103										
			Gr	oup name			Group key			Add	lresses		
	8	QX Users	Group			65			SIP-11369@sip.epygi.loc Auto-367845				
					0;	000-2014 <u>Epval Tech</u>	rologies, LTD, All Rights Res	erved. (en_l	15)				

Fig.III- 6: Group List page



The **Group List - Add Entry** page consists of two text fields used to insert the **Group Key** and the **Group Name** (optionally). The **Group Key** should include numeric characters only and should be unique in the Group List table.

**Please Note:** Groups with keys equal to extension numbers on QX IP PBX have a higher priority and will be applied when sending or forwarding a voice message to the corresponding destination.



The **Add** functional link moves to the **Address List for the Group – Add Entry** page where new address may be defined.



Fig.III- 7: Add Group page



Fig.III- 8: Addresses List page

**Address** List for the Group – Add Entry page consists of the following components:

Call Type lists the available call types:

- **PBX** local calls between QX IP PBX extensions and Auto Attendant
- SIP calls through a SIP server
- Auto used for undefined call types. The destination (independent on whether it is a PBX number or SIP address) will be reached through Routing.

The **Address** text field is used to define the address that ought to be included in the group. The value in this field is strictly dependent on the Call Type defined in the same named drop down list. If the **PBX** call type is selected, the QX IP PBX extension number should be defined in this field. For the **SIP** call type, the SIP address should be defined.



Fig.III- 9: Add Address page

#### **To Configure a Group**

- 1. Press Add in the Group List page. Group List Add Entry page will be displayed in the browser window.
- 2. Fill in the Group Key and Group Name (optionally) in the same named field.
- 3. Press Save.
- 4. Click on the link in the row corresponding to the newly created Group.
- 5. Press Add in the Address List for the Group page. Address List for the Group Add Entry page appears.
- 6. Choose a Call Type from the corresponding drop down list.
- 7. Define the group member address in the Address text field.
- 8. Press Save.





# **Call History**

The **Call History** page collects the call events and their parameters over the QX IP PBX, i.e. incoming and outgoing calls reporting. It contains three tables and provides reports on successful, not successful and missed incoming and outgoing calls for the current extension only. This page also allows you to filter the collected **Call History** based on various criteria. The search components are as follows:

The **From** and **To** text fields are used to search by date and time. The data must be inserted in the following format: dd-mm-yyyy hh:mm:ss or dd-Mon-yyyy hh:mm:ss. The **From** field must indicate an earlier date and time from that which is indicated in the **To** field. If the entered data is not an earlier date and time, the "Minimal date should be less than maximal date" error message prevents statistics from filtering.

- The **From** and **To** drop down lists are used to search by duration. The duration needs to be specified from the listed values. The **From** field must indicate a shorter duration than the **To** field. If the entered data is a larger duration, the "Minimal duration should be less than maximal duration" error message prevents statistics from filtering.
- **Called Phone** requires the called party's SIP address, extension or PSTN number as a search criteria.
- Calling Phone requires the caller party's SIP address, extension or PSTN number as a search criteria. For both Called and Calling Phone wildcards are available (see chapter Entering SIP Addresses Correctly). If the defined caller or called addresses are inserted incorrectly the "Calling (Called) address is incorrect" error message will prevent filtering.

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QX200	Voice Mail Call History PB	Information Speed Callin	ng Account Basic Services Caller ID	Services			
Your Extension	Successful Calls Missed Calls Unsucc	stul Outgoing Calls					-1
Return	Call History - Succes	sful Calls				н	elp
	000000						- 1
	Extension: 103						
	Number of Records	Total Duration	Maximum Duration	Average Duration	Minimum Duration		- 1
	7	4 min 57 sec	1 min 4 sec	42 sec	27 sec		- 1
	Filter						
	From:04-Aug-2014	From:					- 1
		▼ min 27 ▼ sec	Calling Phone:	Called Phone:			- 1
	Tex05-Aug-2014	To:					- 1
	dd-Month-yyyy hhonmoss	1 • min 16 • sec					
	Call Start Time	Call Duration	Calling Phone	Called Phone	Details		
	05-Aug-2014 14:23:48	S8 sec	101	104	Codec: PCMU, Quality: 2 (good)		
	05-Aug-2014 14:22:20	43 sec	104	103			- 1
	05-Aug-2014 14:21:05	32 sec	101	104	Codec: PCMU, Quality: 2 (good) sall transferred		
	05-Aug-2014 14:19:39	1 min 4 sec	102	104	Codec: PCMU, Quality: 2 (good)		
	05-Aug-2014 14:18:58	27 sec	102	104			
	05-Aug-2014 12:31:24	40 sec	102	104			
	05-Aug-2014 12:30:41	33 sec	102	104	Codec: PCMU, Quality: 2 (good)		
				Reco	rds per page: 25   <u>50   100   200   400   800</u>		
			1				
	Download Call Detail Records (Success	ful Calls)					
			© 2000-2014 Epyel Technologies LTD All Rights Res	erved. (er.,1/5)			

The **Call History - Successful Calls, Missed Calls** and **Unsuccessful Outgoing Calls** tables list the successful, missed and not successful incoming and outgoing calls and their parameters (Call Start Time, Call durations, Calling and Called phones) for each corresponding extension. Each column heading in the tables are created as links. By clicking on a column heading, the table will be sorted by the selected column. After the sorting (ascending or descending) arrows will be displayed next to the column heading.

Number or records displays the current number of statistics entries in the table. For successful calls, Total Duration, Maximum Duration, Average Duration and Minimum Duration are displayed at the top of the table.

The Filter performs a search procedure according to the selected criteria. The search may be conducted with several criteria at the same time.

The **Records per page** are used to select the number of displayed statistic records per page. The **Previous** and **Next** can be utilized to switch between these pages.

The Download Call Detail Records links are available below in all Call History tables and allows you to download the displayed call history in a text file.

#### **To Filter the Call History**

- **1.** Enter the desired search criteria.
- 2. Click on the Filter button to search call reports within the Call History table.

Please Note: To return to the complete call history table clear all search criteria and press Filter.

Fig.III- 10: Call History page



# **PBX Information**

The **PBX Information** page provides read only information about the extension codecs, other existing extensions and available PSTN lines on the QX IP PBX depending on the active interface.

The **PBX Information** displays a list of available codecs for the corresponding extension, the list of other extensions on the QX IP PBX, their Display names, the SIP registration username and line number (if attached). Any shared FXO lines, E1/T1 and ISDN trunks are also visible here.

										nding vents
	Voice Mail Call History	PEXInfo	rmation	Speed Calling	Account Ba	usic Services	Caller ID Service	5		ſ
r Extension	PBX Information									
	Extension: 103	PCMA G7	793							
	User Settings									
	Extension	Display	v Name	Attached Line		SIP Addre	966			
	00	Attendant	,		741200@19	2.168.0.209.5	060			
	10	ACD Atten	idant		10					
	320 (Pickup Group)	Pickup320		None	7412320@1	92 168 0 209	5060			
	310 (Call Park)	Park310		None	7412310@1	92 168 0 209	5060			
	315 (Call Park)	Park315		None	7412315@1	92 168 0 209	5060			
	330 (Paging Group)	Paging330		None	7412330@1	92 168 0 209	5060			
	200 10 00 0	ACD700		None	7412700@1	92 168 0 209	5060			
	700 (ACD Group)									
	400 (Recording Box)	RB		None	7412400@1	92 168.0.209	5060			
	400 (ACU GROUP) 400 (Recording Box) FXO Settings FXO Lines	RS	Alloy	None wed Call Type	7412400@1	92168.0.209	5060 PSTN Number			
	FXO Settings FXO Lines FXO 1	R8 Enabled Yes	Allow	None wed Call Type	7412400@1:	92.168.0.209	PSTN Number			
	100 (Recording Box)           400 (Recording Box)           FXO Settings           FXO Lines           FXO 1           FXO 2	RB Enabled Yes Yes	Allow Both Incomi Both Incomi	None wed Call Type ing and outgoing call ing and outgoing call	7412400@11	92.168.0.209	PSTN Number			
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	10 (Judu Holl) 40 (Jesofing Bol) <b>FO Setting</b> FIO 1 FIO 2 FIO	Enabled           Yes           Yes	Allos Both incomi Both incomi	None wed Call Type ling and outgoing call ing and outgoing call	7412400@10 2 00 2 00 4 00 4 00 5 00	92 168.0 209:	PSTN Number			

Fig.III- 11: PBX Information page

# **Speed Calling**

The **Speed Calling** service of QX IP PBX simplifies dialing to the called destination. It provides short digit combinations for frequently dialed phone numbers. From this page, you may assign short digit combinations to certain destinations to make the dialing easy and avoid long phone number dialing. To call the corresponding destination using Speed Calling service, dial () + Speed Calling Code from the handset. The system will dial out the destination assigned to the Speed Calling Code.

The new Speed Calling entries can also be created from the handset by dialing 😢 76 (see <u>QX IP PBX's Feature Codes</u> for more details).

The **Speed Calling Settings** page lists all defined **Calling codes** with following parameters:

Add opens the **Speed Calling Settings-Add Entry** page where the user may add a preferred key combination for Speed Calling.

**Edit** opens the **Speed Calling Settings-Edit Entry** page where the Speed Calling codes may be edited. The page includes the same components as the **Add Speed Calling Code** page.

If no records are selected and the user attempts to **Edit** or **Delete** them, the "No records selected" error message will appear.

epygi 🥐				Language + Pending Events	Logged In As: Administrator (admin) Log Out
QX200 • Your Extension • Return	v. Sp	ce Mail Call History PBX Information	Speed Calling Account Basic Set	vices Caller ID Services	Нер
	Ext Add	tension: 103			
		Calling code	Description	Call to	Call type
		#22	Saler Mananer	11309@sip.epygi.ioc	DCTN
		74	© 2000-2004 <u>Toyot Technologies, LTD</u> , All Rights B	uared (ar.Ul)	1211

Fig.III- 12: Speed Calling Settings page

The **Speed Calling Settings - Add Entry** page includes the following fields and buttons:

**Call Type** lists the available call types:

- **PBX** local calls between QX IP PBX extensions and Auto Attendant
- **SIP** calls through a SIP server
- **PSTN** calls to PSTN
- Auto used for undefined call types. The destination (independent on whether it is a PBX number, SIP address or PSTN number) will be reached through Routing.



Fig.III- 13: Speed Calling Settings - Add Entry page



The **Calling Code (#)** requires a key combination to dial the destination phone number. Only numeric characters are allowed for this field. If nonnumeric symbols are entered and the **Save** button is selected, "Incorrect calling code: no symbol characters allowed" will appear. This field is limited to two digits. If the calling code already exists in the **Speed Calling Codes** table, the "Speed Calling Code already exists" error will appear when you select **Save**.

Description allows entering a short description about the called destination or simply the username of the remote party.

Depending on the selected call type the **Call To** text field requires the SIP address, extension or PSTN number that has to be dialed whenever the calling code is used. The extension number should be inserted in the **Call To** field for the **PBX** call type. A SIP address should be entered for **SIP** call type. Only SIP registration username can be inserted here to call to the SIP user registered on the same SIP server that the current extension is registered on. If the SIP server hostname is omitted, the system will automatically set the current extension's registration server hostname instead. A PSTN number should be inserted for PSTN call type. The PSTN number length depends on the area code and phone number. For the PSTN call type, the symbols ",", "p" and "P" are available to be inserted in this field. These symbols are used to insert a 1 second long pause which might be required by the PSTN dialing rules.

# To Add a Speed Calling Code

- 1. Press the Add button on the Speed Calling Settings page. The Speed Calling Settings Add Entry page will appear in the browser window.
- 2. Select the call type from the **Call Type** drop down list.
- 3. Choose a **Calling Code** and enter the **Description** for the called party.
- 4. Enter the destination SIP address, extension or PSTN number (dependant on the chosen call type) in the Call To text field according to the entering rules.
- 5. To create the Speed Calling Code click on Save.

### To Edit a Speed Calling Code

- 1. Select the checkbox of the corresponding record that has to is be edited in the Speed Calling Codes table
- 2. Press the Edit button on the Speed Calling Settings page. The Speed Calling Settings-Edit Entry page will appear in the browser window.
- 3. Change the desired fields.
- 4. To save the modifications click on **Save**.

# To Delete a Speed Calling Code

- 1. Select the checkbox of the corresponding record that should to be deleted from the **Speed Calling Code** table.
- 2. Press the **Delete** button on the **Speed Calling** page.
- 3. Confirm the deletion by clicking the Yes button. The speed calling code with its parameters will be deleted. To abort the deletion and to keep the original record in the list, select No.

# **Account Settings**

The **Account Settings** page provides information on the extension display name, allows changing the user password, enabling user password protection for incoming/outgoing calls and downloading/uploading of a file with the user-defined voice greetings. All parameters listed on this page may be modified and submitted. This page consists of the following components:

**Extension** shows a non-editable parameter providing information about the current user extension number. **Display Name** defines an optional parameter used to identify the caller. Usually the display name appears on the phone display if a call is placed or a voice mail is sent. The field is not limited regarding symbol usage but its length is limited to twenty characters.

**Password Protection for:** 

- Incoming Calls enables password protection for incoming calls. If the service is enabled a user password is required to be able to accept the incoming calls.
- **Outgoing Calls** enables password protection for outgoing calls. If the service is enabled a user password is required to be able to make calls.

🙋 epygi								Language 🛩	✓Pending Events	Logged In As: Administrator (admin)	Log Out
QX200	Voice Mail	Call History	PBX Information	Speed Calling	Account	Basic Services	Caller ID Services				
<ul> <li>Your Extension</li> <li>Return</li> </ul>	Account	Settings									Help
	Extensio	n: 103									
	Display Name:	John Smith									
	User Permissi	ons									
	User Password P	Protection for:									
	🕑 Incomin	g Calls									
	<ul> <li>Outgoin</li> </ul>	g Calls									
	User's name f	or Extensions [	Directory to upload:	Choose File	No file cho	isen					
	Custom Voice	Messages									
	WARNING: U	ploading selected	file will replace your cu	istom voice messag	es.						
	File to uplo	oad: Choos	e File No file chose	en							
	Download cu	istom voice messi	iges								
	Restore o	default voice mes	ages								
	Change Passw	vord									
	Save										
				© 2000-2014 <u>Epys</u>	Technologies, LT	D. All Rights Reserved. (e	m_US)				

Fig.III- 14: Extension Account Settings page

**Enable SIP Remote Extension Settings** checkbox is only visible when the system administrator has activated the **SIP Remote Extension** service for the corresponding extension at least one time. With this checkbox, the extension user may enable/disable the **SIP Remote Extensions** functionality. The administrator defines all settings of the SIP Remote Extension feature.

**Please Note:** If you find the **Enable SIP Remote Extension Settings** checkbox missing on this page, please consult with your system administrator for the first-time activation of the **SIP Remote Extension** service on the corresponding extension.



The **User's name for Extensions Directory to upload** text field is used to enter the path where the file with the user's name is located. If the file with the user's name is browsed with the help of file-chooser, this field displays the path of the browsed file. The **Choose File** button is used to browse for the file with the user's name. The user's name also can be modified from the handset and will be played when the spelled name matches the name configured for the corresponding user.

Please Note: A user cannot be reached through the Extensions Directory until their name is recorded/uploaded into the Extensions Directory.

The Download User's name link is used to download the user-defined wave file with the user's name.

The **File to upload** text field is used to type in the path where the backed up file with voice messages is located. If voice greetings are browsed with the help of a file-chooser, this field displays the path of the browsed file. The **Choose File** button is used to browse for the previously downloaded file with custom voice messages.

Attention: Uploading the selected file will replace your custom voice messages. Uploading custom messages downloaded from the other QX IP PBX will overwrite messages that have not been configured by the user with the current device defaults. This means that if some default messages were used on one QX IP PBX, they may be completely different on another QX IP PBX after uploading of the voice data.

The link **Download custom voice messages** appears only when there are user-defined custom greetings recorded. It is used to download a compressed file with all user specified voice messages. The link opens the file-chooser window to specify the saving location.

The **Change Password** page is used to change the user's password.

The GUI Access Password offers the following components:

- The New Password field requires a new password for the Extension. The Password field is checked against its strength and you may see how strong is your inserted password is right below that field.
- Reentering the new password in the Confirm New Password field will confirm the new password. The password can consist of numeric values only.

🕜 epygi							✓Pending Events	Logged In As: Administrator (admin)	€ Log Out
QX200 Vour Extension Return	Voice Mail Call Hirt Change Passw Extension: 103 New Password: Confirm New Password:	Vord	Speed Calling digits only digits only	Account	Basic Services	Caller ID Services			
	Save		© 2000-2014 <u>Epvej Techn</u>	<u>tologies, LTD</u> , All Ri	ights Reserved. (en_US)				

Fig.III- 15: Change Password page for extension access

**Please Note:** Up to twenty (0-20) digits are allowed. A corresponding warning appears if any other symbols are inserted. It is highly recommended to define a proper and non-empty password on this page if the extension is being used for the Call Relay service from the QX IP PBX's Auto Attendant.

# **Basic Services**

The **Basic Services** page allows you to configure the basic telephony features of QX IP PBX, such as Call Waiting, Hold Music and Do Not Disturb services.

The **Basic Services** page consists of two frames. The left frame lists all services. When you click on a service, its corresponding settings will be displayed in the right frame.

Please Note: Remember to save changes before moving between the service configuration pages.

# **General Settings**

The **General Settings** page consists of the following components:

#### <u>Main</u>

**No answer timeout** lists the possible timeout values for the incoming call ringing duration before the voice mail system answers (if Voice Mail service is enabled).

#### Call Waiting

**Call Waiting** is used to receive an incoming call when you are currently on a call. The caller will hear a ringing tone and the QX IP PBX user will hear a special beeping on the telephone when the call arrives. For analog phones, to switch between the current call and the new incoming call, use the appropriate calling code. For IP phones to switch between the current call and the new incoming call, use the corresponding Hold or Line softkey/button (for more details refer to the "Epygi IP PBX Features on Epygi Supported IP phones" document on the Epygi's Web portal).

**Enable Call Waiting Service** activates this service and makes it available for the phone handset.

🤕 epygi							Language +	✓Pending Events	Logged In As: Administrator (admin)	Log Out
Qx200 Vour Extension Raturn	Voice Mar. Call He Central Held Marcia Basic Service Extension: 100 General Settings Held Maric Settings Held Maric Settings	toy PK2 biformation De Nat Disture Net Lin S - General S 3 Main No answer timeout (sec) Call Waiting W Enable Call Waiting Autoredial Internal (sec) Autoredial Internal (sec) Save	Speed Calling H Service Service Service	Account	Bald Service	Caller ID Services				Help
			© 2000-2014 <u>5815</u>	21 Technologies, LJ	12. All Rights Reserved. (o	n,US				

Fig.III- 16: Basic Services - General Settings page



# <u>Auto Redial</u>

The **Autoredial** service of QX IP PBX supports automatic redialing if the called destination is currently busy or unavailable.

The **Autoredial Settings** page displays the available settings for automated redialing. Use the appropriate calling code to enable **Autoredial** from the handset. The caller may hang up or stay with the lifted handset after enabling the **Autoredial** service. When hanging up, the system will keep trying to reach the last called destination for the specified time period. When the destination is reached, the caller's phone will start to ring. A voice message is being played to the called party asking to wait until the caller answers. If the caller keeps the handset lifted, the system will also continue to reach the last called destination and the call will be established when the destination called answers the call.

Autoredial Interval sets the time values between redialing attempts (counted in seconds).

Autoredial Period sets the total duration of redial attempts (counted in minutes).

Please Note: This service is functional for SIP and PBX calls only. For PSTN calls, this feature works as a single redial (with no multiple attempts to reach the called destination).

### **Hold Music Settings**

The **Hold Music Settings** are used to define the music that will be played while on hold or putting a remote party on hold. To specify this music the following checkboxes and text fields are available:

**Send Hold Music to Remote IP Party** enables the specified music for sending to a remote IP party whenever it is on hold and waiting. If this checkbox is disabled, QX IP PBX will not send any hold music to the remote IP party. The remote IP party will then hear their own hold music, or something similar, if configured. The hold music is always sent to PBX and PSTN destinations independent on the configuration of this option.

The **Listen Hold Music** drop down list specifies the music the current user will hear while on hold. It offers the following options:

- Off no music will be played.
- Own Music the current user will define the music that will be played to them self while being on hold.
- Remote Party's Music the current user will hear the remote party's hold music, if enabled, and sent by remote party.

			Language +	<ul> <li>Pending</li> <li>Events</li> </ul>	Logged In As: Administrator (admin)	Log Out
Quoo	Voice Mail Call He General Held Marce Basic Service Extension: 100 General Settings Held Mark Settings Held Mark Settings	PEE Momention     Syscel Galling     Account     Beak Services     Caller Di Services       De MarcOntinue     Matterie       > + Hold Music Settings       3       Send Hold Music for remote P perty       Litters Hold Music for remote P perty       Litters Hold Music for emote Perty       Uptered new Hold Music file       Of Choose Channel       ØCChannel				(Hel)

Fig.III- 17: Basic Services - Hold Music Settings page

The manipulation radio buttons group allows you to select the way custom hold music will be provided.

• File selection is used to upload the hold music file. The following options are available under this selection:

**Restore Default Hold Music File** enables the default music. If the checkbox is selected, the text field **Upload New Hold Music File** will be disabled.

The **Upload New Hold Music File** text field can be used to enter the path where the hold music file is located. If the hold music file is browsed with the help of file-chooser, this field displays the path of the browsed file. The **Choose File** button is used to browse for the hold music file. The music file needs to be in PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format, otherwise the system will prevent uploading the file and will display the warning message "Invalid audio file or format is not supported". Additionally, the system will refuse uploading if insufficient memory is available for the corresponding extension and will then announce "You do not have enough space".

**Please Note:** It is recommended to use a piece of music not longer than one minute to leave enough space for user-defined messages and voice mails.

The **Download Hold Music File** link appears only if a file has been uploaded recently. It downloads the audio file to the PC and opens a window where the saving location can be specified.

- **RTP Channel** selection is used to define the channel for the broadcast streaming. The RTP channels are created by the system administrator. Therefore if you are experiencing problems with using the RTP channels as hold music, or no RTP channels are available to select on this page, turn to your system administrator for clarification.
- Audio Line In (available only for QX50/QX200) selection uses the external radio broadcasting or any other audio resource as the hold music. When selecting this option, check with your system administrator if there is an external audio resource connected to the QX IP PBX.



#### **Do Not Disturb**

**Do Not Disturb Settings** are used to configure the **Do Not Disturb** service. The service is used to turn off the phone ringer and may only be enabled from the handset with the appropriate calling code. If you have **Do Not Disturb** service enabled along with the Voice Mail Service, all incoming calls will directly go to the extension's voice mailbox.

The Do Not Disturb Settings page consists of the following components:

The Actual State field indicates the state of the service (active or not active). It also indicates the time left until the end of **Do Not Disturb** service functionality or "Service is not active" if the service is disabled.

The **Expiration Timeout** drop down list is used to choose the period for the phone ringer to be off when enabling the **Do Not Disturb** service.

The **Send Message to Caller** checkbox enables a voice message notification to be sent to callers if the Voice Mail Service is disabled on the extension. If the **Send Message to Caller** checkbox is selected, but the extension has no voice mailbox assigned, a voice message that the called destination is temporarily unavailable will be played to callers. If the checkbox is not selected, incoming calls will be routed to the extension's voice mailbox if available or will be unconditionally disconnected.

An extension with DND enabled can be reached again as soon as the service is disabled or the **Expire Timeout** period is over.

n epygi 🕐			Language 👻	✓Pending Events	Logged In As: Administrator (admin)	Log Out
QX200	Voice Mail Call Histo General Hold Music Basic Services Extension: 103	ny PRXIIIonadion Speed Calling Account Reac Service Caller D Services - Do Not Disturb Settings Actual Setting Services in ret sche				Help
	Hold Music Settings Do Not Disturb Settings Hot Line Settings	Espie Trineout (3) min • ② Sourd Message to Caller Save				
		0.200.204 first lattice states and $0.4Hyper frames of one 10$				

Fig.III- 18: Basic Services - Do Not Disturb Settings

#### **Hot Line Settings**

**Hot Line Settings** (available only for QX50/QX200) are used to set a destination that should be automatically dialed in case of no action for a predefined period after lifting the handset. This user-configurable service is commonly used for emergency calls.

Attention: This service is only available on the FXS lines; it is not available if your extension is attached to an IP line. If you find Hot Line settings unavailable for your extension, please contact your system administrator.

The Hot Line Settings page offers of the following input options:

Enable Hot Line Service enables the Hot Line Service and all components below.

**Timeout** is used to select the inactivity timeout before the defined number will be dialed automatically.

Call Type lists the available call types:

- PBX local calls between QX IP PBX extensions and the Auto Attendant
- SIP calls through a SIP server
- PSTN calls to PSTN
- Auto destination (independent on whether it is a PBX number, a SIP address or a PSTN number) will be reached through Routing.

Depending on the **Call Type** selection, a destination extension number, a SIP address (see chapter <u>Entering SIP Addresses</u> <u>Correctly</u>), or a PSTN number should be inserted into the text field **Called Address**. If the defined caller address is not corresponding to these requirements, an error message, "Caller address is incorrect", will appear and prevent saving the incorrect data. The PSTN number length depends on the area code and the phone number.

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QX200 • Your Extension • Return	Voice Mail General Hold Basic Sel	Call History Music Do P	PBX Informatio	n Speed Calling Line Settings	Account	Basic Services	Caller ID Services				Help
	General Settings Hold Music Setti Do Not Disturb S Hot Line Setting	ings Settings 95	Enable Hot Line Se Timeout 1 Call Type P Called Address 1 Save	nice 9 sec • 8X • 83							
				© 2000-2014 <u>Enve</u>	ei Technologies, LTD	Al Rights Reserved. (e	in,US)				]

Fig.III- 19: Basic Services - Hotline Settings page



# **Caller ID Services**

The **Caller ID Based Services** page provides options to configure a set of telephony settings from the same page. Call Forwarding, Incoming and Outgoing Call Blocking, Hiding Caller Information, Call Hunting, Many Extension Ringing, Distinctive Ringing, Find Me/Follow Me, Intercom, Emergency Interrupt and Voicemail Profile settings are configurable from this page.

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U #	QX200 Your Extension Return	Ca Ex	aller ID E tension:	Call History Cased Se 103	PBX Informat	tion Speed	l Calling	Account	Basic Serv	ices C	aller ID Servi	ces							Help
		Add	Description	Presence States	Addresses	Hiding Caller Information	Incoming Call Blocking	Outgoing Call Blocking	Distinctive Ringing	Call Hunting OFF	Many Extension Ringing	Unconditional Call Forwarding OFF	Busy Call Forwarding OFE	No Answer Call Forwarding OFF	Unregistered/ Inaccessible Call Forwarding OFF	Find Me / Follow Me	Intercom Service Activate If	Emergency Interrupt OFE	Voicemail Profile
				Busy, Meeting	Addresses PBX-105	OFF	OFF	OFF	OFF	OFF	OFF	<u>on</u>	OFF	OFF	OFF	OFF	Requested Activate If Requested	OFF	Requested As Requested
								© 2000-21	114 <u>Eovgi Technol</u>	ogies LTD. Al	Rights Reserved	. (en,US)							

Fig.III- 20: Caller ID Based Services for Any Address page

The **Caller ID Based Services** page contains a table listing all caller or called destinations and the ON/OFF status of the caller ID based services. The caller or called destination numbers are used to configure caller ID based services based. The column headings in the table are designed as links. By clicking on a column heading, the table will be sorted by the selected column. After sorting, (ascending or descending) arrows will be displayed next to the column heading.

The table also has **Any Address** entry that is undeletable. It is used to configure caller ID based services for all addressed. When adding a new caller address **Any Address** is changed to **Other Addresses**. Now there could be different configurations for the specified addresses and for all others.

Add opens the Caller ID Based Services - Add Entry page where a new address and presence states can be defined. This page consists of the following components:

The **Description** text field requires optional information about the address owner.

Call Type lists the available call types:

- PBX local QX IP PBX extensions and Auto Attendant
- SIP caller or called destinations reached through a SIP server
- PSTN caller or called destination dialed from or to PSTN
- Auto used for undefined call types. In this case, for incoming calls from specific address, configuration of caller ID based services will apply either to PBX, SIP or PSTN callers. For outgoing calls, the called destination will be reached through Routing.

Address requires a SIP address (see chapter Entering SIP Addresses Correctly), an extension or a PSTN number, for whom supplementary services should be applied. If the address already exists in the table, selecting **Save** will give the error "Caller address already exists". A wildcard is allowed in this field (see chapter Entering SIP Addresses Correctly). Entering "\*" as PBX or PSTN addresses will apply configuration of supplementary services to all extensions or PSTN users.

The extension number should be inserted in the **Address** text field for the PBX call type. The PSTN number length depends on the area code and phone number.

The Presence State radio buttons allows to set the Presence State of an extension.

- **All States** selection is used to select all states for an extension.
- **Specific States** selection contains a group of radio buttons that are used to select the state of the corresponding extension:
  - o Online
  - o Offline
  - o Busy
  - o Away
  - o DND
  - MeetingVacation
  - Vacation
     Lunch

 Image: Contract of the contract



When clicking on the **Address** in the **Caller ID Based Services** table, the caller ID based services configuration pages for the corresponding extension will be displayed.

The **Caller ID Based Services for Address** page consists of two frames. In the left frame all caller ID based services are listed. Clicking on the corresponding caller ID based service, its settings will be displayed in the right frame.

Please Note: Remember to save changes before moving between the caller ID based services configuration pages.

Below are the instructions to configure each caller ID based service available to the user.

#### **To Configure Caller ID Based Services**

- 1. Press the Add button on the Caller ID Based Services page. The Caller ID Based Services Add Entry page, where new addresses can be defined, will appear in the browser window.
- 2. Define an optional **Description** of the address.
- **3.** Select the call type from the **Call Type** drop down list.
- 4. Enter the SIP address, extension or PSTN number (dependant on the chosen call type) in the Address text field according to the entering rules.
- 5. Select the **Presence State** of an extension.
- 6. To add an address to the Caller ID Based Services table, click Save.
- 7. Click on the newly created Address in the Caller ID Based Services table to open the Caller ID Based Services for Address page.
- 8. From the left frame, choose a Caller ID Based Services. From the right frame, enable, configure and adjust the corresponding service. Do this for each service. Remember to **Save** the configurations each time moving between the Caller ID Based Services configuration pages.

#### **To Edit Caller ID Based Services**

- 1. Select the checkbox of the corresponding address that has to be edited in the **Caller ID Based Services** table. The **Caller ID Based Services Edit Entry** page will appear in the browser window.
- 2. Change the **Description** of the address, if needed.
- 3. Change the Call Type and the Address defined in the corresponding fields.
- **4.** Change the **Presence State** of the extension, if needed.
- 5. Save changes.
- 6. If the reconfiguration of **Caller ID Based Services** is needed, click on the corresponding **Address** in the **Caller ID Based Services** table to open the **Caller ID Based Services** for **Address** page.
- 7. From the left frame, choose a Caller ID Based Services. From the right frame, change the corresponding service settings, if required. Remember to **Save** the configurations each time moving between the Caller ID Based Services configuration pages.

#### **Hiding Caller Information**

The **Hiding Caller Information** service is used to hide QX IP PBX user information depending on the called destinations. When this service is activated, **Unknown** or **Anonymous** (or similar text, depending on the type of the phone) will be displayed on the called phone when the current user of QX IP PBX makes outgoing calls to the selected destination.

Attention: Using the "Block Last Caller" operation from the handset for the caller with the hidden caller ID (for example, anonymous@anonymous or similar) may block all unknown callers.

The **Enable Service** checkbox selection hides the current extension's information when calling to the corresponding **Address** listed in the Caller ID Based Services table.

**Please Note:** Even if the **Hiding Caller Information** service is enabled, it shall work only for internal PBX calls and SIP calls. If you call through FXO/ISDN port to a PSTN number, the called party will still see your caller ID. To hide your caller ID for PSTN destinations, contact your PSTN operator.



Fig.III- 22: Hiding Caller Information page



### **Incoming Call Blocking**

**Incoming Call Blocking** allows blocking unwanted incoming calls for a QX IP PBX extension. This page provides the necessary settings for incoming call blocking. It indicates if the service is enabled for the particular caller and whether or not the custom message will be used to inform the caller about the call being blocked. If the service for the particular caller has been enabled by the administrator and has been stated as protected, the user cannot disable it.

Please Note: The administrator can protect the service from being disabled by you. Contact the administrator if callers complain that they cannot reach you.

The **Enable Service** checkbox selection blocks all calls to the current extension using the corresponding **Address** listed in the Caller ID Based Services table where the Incoming Call Blocking service is configured.

The **Send Message to Caller Party** checkbox is available when the service is enabled and initiates a message to inform the caller that their line has been blocked. Otherwise, the calling party will be disconnected without notification.

The **Restore Default Blocking Message File** restores the default incoming call blocking message if another user-defined file has been previously selected. When the checkbox is selected, the file upload possibility will be disabled.

The **Upload New Blocking Message File** requires the name of the desired voice message file. The file needs to be in PCMU (CCITT ulaw, 8 kHz, 8 bit Mono) wave format, otherwise the system will prevent uploading it and the "Invalid audio file, or format is not supported" warning message will be received. The system also prevents uploading if there is not enough space available for the corresponding extension. You will then receive the "You do not have enough space" warning.

**Choose File** is used to browse custom voice message used for incoming call blocking.

The **Download Custom Blocking Message File** link only appears if a file has been previously uploaded. The link is used to download the audio file to the PC and opens a window where the saving location can be specified.

n epygi								Language 🕶	✓Pending Events	Logged In As: Administrator (admin)	E Log Out
QX200	Voice Mail	Call History	PBX Informatio	n Speed Calling	Account	Basic Services	Caller ID Services				
<ul> <li>Your Extension</li> <li>Return</li> </ul>	Caller ID	Based §	Services	or Any Add	ress						Help
	Extensio	n: 101									
	Hiding Calles In Incoming Call Durgening Call Distinctive Ring Call Hunting Many Extension Unconditional No Anower Cal Unregistered/In Entry Anover Cal Entry Calleron Intercom Voicemeil Profi	dermatien Blocking Illecking Illecking atting Call Envarding erding Envorating accessible Call Fr wids mugt It	Up	Enable Service Send Message to C Restore Default Blockin oad New Blocking Mes Save	aller Party g Message File	thoose File No 1	fie chosen				
				m 2000-2014 §g	val Technologies,	<u>LTD</u> Al Rights Reserved.	(en_US)				

Fig.III- 23: Incoming Call Blocking page

# **Outgoing Call Blocking**

**Outgoing Call Blocking** allows blocking unwanted outgoing calls for a QX IP PBX extension where the destination **Address** service is configured. This page provides the necessary settings for the outgoing call blocking service. It indicates whether service is enabled for the particular caller and whether or not a custom message will be used to inform caller about the call being blocked. If the service a particular caller has been enabled by administrator and has been stated as protected, the user cannot disable it.

Please Note: The administrator can protect the service from being disabled by you. Contact the administrator if you have problems establishing a certain call.

The **Enable Service** checkbox selection blocks all calls to the corresponding **Address** listed in the Caller ID Based Services table associated to the corresponding extension.

The **Send Message to Caller Party** checkbox is available when service is enabled and it initiates a message to inform the caller that their line has been blocked. Otherwise, the calling party will be disconnected without a warning.

The **Restore Default Blocking Message File** restores the default outgoing call blocking message if another user-defined file has been previously selected. When the checkbox is selected, the file upload possibility will be disabled.



The **Upload New Blocking Message File** requires the name of the desired voice message file. The file needs to be in PCMU (CCITT ulaw, 8 kHz, 8 bit Mono) wave format, otherwise the system will prevent uploading it and "Invalid audio file, or format is not supported" warning message will be received. The system also prevents uploading if there is not enough space available for the corresponding extension. The "You do not have enough space" warning will then be received.

**Choose File** is used to browse custom voice message used for outgoing call blocking.

The **Download Custom Blocking Message File** link appears only if a file has been previously uploaded. This link is used to download the audio file to the PC and opens a window where the saving location can be specified.

🔁 epygi					Language + Pending Events	Logged in As: Administrator (admin)	Log OL
QX200	Voice Mail Call History PBX Info	rmation Speed Calling	Account Basic Services	Caller ID Services			
Your Extension	Caller ID Based Service	es for Any Addr	ess				He
	Extension: 101						
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	Emergency.Interrupt Intercom Voicemail Profile	Save					
		© 2000-2014 <u>Fav</u>	<u>te Technologies, LTD</u> All Rights Reserved.	(en,US)			

Fig.III- 24: Outgoing Call Blocking page

### **Distinctive Ringing**

The **Distinctive Ringing** service of QX IP PBX allows you to assign different ringing patterns to individual callers. The **Distinctive Ringing Settings** page provides the necessary settings to receive a distinct ring depending on the caller's address.

**Please Note:** Refer to the **"Epygi IP PBX Features on Epygi Supported IP phones**" document on the Epygi's Web portal for more details on the list of IP phones that supports Distinctive Ringing.

The **Enable Service** checkbox enables the service. Other components on this page are available only when this checkbox is selected.

Nick Name requires the callers nickname (if any).

**Ringing Pattern** lists the possible ringing patterns that may be assigned to a specified caller.

epygi						Language <del>-</del>	✓Pending Events	Logged In As: Administrator (admin)	Log Out
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	Extension: 101								
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	Incoming Call Blocking	Nick Name:	Star						
	Outgoing Call Blocking Distinctive Ringing	Ringing Patterns:	autumn T Preview						
	Call Hunting								
	Many Extension Ringing								
	Unconditional Call Forwarding								
	Busy Call Forwarding								
	No Answer Call Forwarding								
	Unregistered/Inaccessible Call Forwarding								
	Find Me / Follow Me								
	Emergency Interrupt								
	Intercom								
	Voicemail Profile	Save							
		0.2	00-2014 <u>Epygi Technologies. LT</u>	Q. All Rights Reserved.	(2U_na)				

**Please Note:** All phones attached to the extensions in the Many Extension Ringing/Call Hunting table will ring with the pattern defined for the individual caller to that extension.

#### **Call Hunting**

The **Call Hunting** service provides the possibility of an incoming call consecutively ringing on several extensions depending on the calling party. The **Call Hunting** page contains a table where all the participants in the call hunting group for the corresponding extension should be defined.

**Attention:** By configuring the **Call Hunting** service, **Unconditional Call Forwarding, Find Me/Follow Me** and **Many Extensions Ringing** automatically will be disabled on the current extension.

Selecting **Enable Service** activates the Call Hunting service on the current extension.

The table displayed here lists the extensions where the call must be consecutively duplicated in case of a call from the corresponding caller. **Status** indicates if the extension is **Attached**, **Not Attached** or **Attendant**. An extension cannot ring if it is **Not Attached**. The administrator must attach it to the line from the **Extensions Management** page.

When the order of entries in the **Call To** table is defined in the consecutive ringing order, the **Move Up/ Move Down** becomes available. This will move the checked **Call To** extension either one level up or down.

epygi								Language 👻	✓Pending Events	Logged In As: Administrator (admin)	Log Out
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				@ 2000-2004 <u>B</u>	zygi Technologies, L	10. Al Rights Reserved. (	en_US)				

Fig.III- 26: Call Hunting page

Fig.III- 25: Distinctive Ringing page



Add opens the Add Entry page to add called extensions (an attendant or a user extension). It has manipulation radio buttons to select the type of extension to be added to Call Hunting. It contains the following components:

- The **Call To** drop down list contains QX IP PBX's attendant or user extensions, depending on the radio button selected. It is possible to add the same extension more than once to the **Call To** table. The extension will ring, depending on the order, as often as configured.
- The **Duration** drop down list is only available for user extensions only. It is used to select the period (in seconds) for which the corresponding user's extension should ring.

🕜 epygi								Language 👻	✓Pending Events	Logged In As: Administrator (admin)	Dog Out
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	Add User Ext	tension: Call to Durati	114 ¥								
	Save										
				0 2000-2014 <u>ER</u>	rai Technologies, L	10 Al Fights Reserved. (	(en,125)				

Fig.III- 27: Call Hunting – Add Entry page

The **Circular Mode** checkbox enables the call hunting start over when the last extension in the Call Hunting table has been called and there is still no answer. The Circular Mode will last as long as the **No Answer Timeout** is configured in the <u>Basic Services – General Settings</u> page. When this checkbox is not selected, call hunting will terminate once the last extension in the Call Hunting table does not answer the call, the incoming call will then be redirected to the Voice Mailbox of the extension it originally called (if enabled) or it will be disconnected.

**Please Note:** The Voice Mail Service will be activated on then originally called extension only after all extensions in the Call Hunting table are called at least once, regardless the **No Answer Timeout** configured from the <u>Basic Services – General Settings</u> page.

Attention: The Circular Mode will not work if the list of called destinations contains at least one Auto Attendant extension, otherwise the hunted call will be answered by the Auto Attendant and will terminate there.

The **Random Hunting** option allows an incoming call to ring extensions in the Call Hunting table in random order. If this checkbox is selected, an incoming call will ring at an extension randomly selected from the Call Hunting table. If the called extension does not answer the call, the next extension will be chosen randomly from the remaining extensions list. The process will continue until the last extension on the list is called. If the call is still not answered, it will be forwarded to the voice mail box of the originally called extension.

If both the **Circular Mode** and **Random Hunting** checkboxes are selected, the cycle will restart in the same random order after calling the last extension. If nobody answers, the call will be redirected to the mailbox of the originally called extension after the **No Answer Timeout** expires.

When saving the Call Hunting configuration a message will notify the user that Many Extension Ringing, Find Me/Follow Me and Unconditional Call Forwarding services have been disabled.

### **Many Extensions Ringing**

The Many Extensions Ringing service of QX IP PBX provides parallel ringing on several extensions when there is an incoming call.

Attention: By configuring Many Extensions Ringing service, Unconditional Call Forwarding, Find Me/Follow Me and Call Hunting services will be automatically disabled on the current extension.



Selecting **Enable Service** activates the Many Extensions Ringing service on the current extension.

The table displayed here lists all existing extensions on the QX IP PBX. Any or all of the extensions can be enabled to participate in the Many Extensions Ringing for the selected extension. The **State** column displays whether or not the extension is enabled to participate with the Many Extension Ringing. The **State** column also displays whether or not the extension is active.

The **State** column indicates whether the extension is **Attached** or **Not Attached**. An extension cannot ring if it is **Not Attached**. It has to be attached to the line by the administrator from the **Extensions Management** page.

The **Enable/Disable** functional buttons are used to select one or more extensions to be involved or not in the Many Extensions Ringing procedure. The state of the participant (Enabled or Disabled) is also displayed in the table.

**Please Note:** The system will prevent the enabling of extensions if the total number of extensions participant to the specific caller **Many Extension Ringing** exceeds a certain number dependant on the hardware resources of the board.

When saving the Many Extensions Ringing configuration, a message will notify the user that the Forwarding services have been disabled.

By default, the Many Extension Ringing table includes only one preconfigured extension for that the service is already configured. Otherwise if the **Many Extensions Ringing** service is enabled but no called extensions are provided (or the extension provided by default has been deleted), the current extension will not ring.

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		Save			

Fig.III- 28: Many Extension Ringing page

The **Allow access to Shared Mailbox for enabled extensions** checkbox is used to share the mailbox of the current extension to all enabled extensions in the Many Extensions Ringing list. With this option selected, all enabled extensions in this list will have a direct access to the current extension's mailbox without password authentication. For details on how to access Shared Mailboxes, see <u>OX IP PBX's Feature Codes</u>.

# **Call Forwarding**

QX IP PBX offers the following types of call forwarding:

- Unconditional all incoming calls from the certain caller will be forwarded to the defined destinations.
- Busy calls from the certain caller will be forwarded to the defined destinations only when called extension is busy with another call.
- No Answer calls from the certain caller will be forwarded to the defined destinations only when called extension is unable to answer the incoming call. No answer timeout is configured from the <u>Basic Services General Settings</u> page.
- Unregistered/Inaccessible Call Forwarding calls from the certain caller will be forwarded to the listed destinations when called IP phone is not registered on the QX IP PBX or when it is unreachable, e.g. due to IP phone reboot or network problems. This call forwarding type is only available for extensions attached to IP lines.

The following rules are applicable to all call forwarding types:

- By setting up unconditional call forwarding service, Many Extension Ringing, Find Me/Follow Me and Call Hunting services will be
  automatically disabled. The exception is cases when unconditional call forwarding is enabled from the handset (see <u>OX IP PBX's Feature Codes</u>).
- PSTN destinations (with **PSTN** or **Auto** call type) have priority in **Forward to** list. If there are different destinations in the **Forward to** list, the call will be forwarded to PSTN destination (in the same time any available SIP or PBX destinations will receive a short ring). If the PSTN destination was not successful, the next PSTN destination will be dialed, otherwise if there are no more PSTN destinations in the table, the call will be forwarded to any available SIP and PBX destinations simultaneously.
- If there are multiple entries with any combination of PBX or SIP call types, then all destinations will ring simultaneously and the call will be established with the destination that will pick up the call the first.
- Unconditional call forwarding service has higher priority versus to other forwarding types, i.e. when Unconditional Call Forwarding is enabled, Busy Forwarding and No Answer Forwarding services will not work even if they are enabled. In the meantime, Busy Forwarding can work in conjunction with No Answer Forwarding and vice versa.



# **Unconditional Call Forwarding**

**Unconditional Call Forwarding** is a service of QX IP PBX that allows the automatic unconditional transfer of incoming calls to a variety of other destinations.

The Enable Service checkbox selection activates the unconditional call forwarding service on the current extension.

The table displayed here lists the destinations where the incoming call from a particular caller should be unconditionally forwarded. **Enable/Disable** functional button is used to enable/disable the corresponding forwarding destinations. This is helpful to avoid removing forwarding destination(s) if they are not applicable at the moment.

The **State** column indicates whether the corresponding forwarding destination is **Enabled** or **Disabled**.

The **Forward to** column indicates the forwarding destination.

**Add** opens the **Add Entry** page to add forwarding destinations. It consists of the following components:

Call Type lists the available call types:

- **PBX** forwarding destination is a local QX IP PBX extensions or Auto Attendant.
- SIP forwarding destination is reached through a SIP server.
- **PSTN** forwarding destination is a PSTN user.
- **Auto** used for undefined call types. In this case, the routing pattern will be considered and parsed through the Call Routing Table.

The Forward To text field requires the SIP address (see chapter
Entering SIP Addresses Correctly), a PBX extension or a PSTN
number, where an incoming call from a certain caller should be
unconditionally forwarded. If the address already exists in the
table, selecting Save will display the error "Caller address already
exists". A wildcard is allowed in this field (see chapter Entering SIP
Addresses Correctly). Entering "*" as PBX or PSTN addresses will
apply the configuration of Caller ID Based services to all extensions
or PSTN users.

The extension number should be inserted in the **Forward To** text field for the PBX call type. The PSTN number length depends on the area code and phone number.

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🕜 epygi				Language + Pending Events	Logged In As: Administrator (admin) Log Out
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<ul> <li>✔our Extension</li> <li>♦ Return</li> </ul>	Forwarding List - Add Entry				Help
	Extension: 101				
	Call Type SIP •				
	Forward To				
	Save				
		© 2000–2014 <u>Epysi Technologies, LTD</u> All Rights Reserve	d. (en_US)		

Fig.III- 30: Call Forwarding - Add Entry page

**Send Notification Via SMS** checkbox enables SMS notifications sending to the user's mobile phone when unconditional call forwarding on the corresponding extension from the certain caller takes place. This checkbox selection enables the **Mobile Number** text field where the user's mobile phone number should be defined. If you feel this service is not working, contact your system administrator to configure the SMS Settings.

**Send E-mail** checkbox enables email notifications sending to the user's mailbox when unconditional call forwarding on the corresponding extension from the certain caller takes place. This checkbox selection enables the **E-mail Address** text field where the user's email address should be defined. If you feel this service is not working, contact your system administrator to configure the Mail Settings.

When saving this call forwarding configuration, a message will notify the user that Many Extension Ringing and Call Hunting services have been disabled.

The **Toggle from Handset** checkbox enables toggling the Unconditional Call Forwarding service for a selected caller ON or OFF from the phone handset by dialing the **\*4** feature code (for more details, see <u>QX IP PBX's Feature Codes</u>). Dialing this feature code will toggle the Unconditional Call Forwarding service for all entries in the Caller ID Based Services table that have the **Toggle from Handset** option enabled. The service will be activated if it was previously deactivated and deactivated if previously activated.

Please Note: The Toggle from Handset checkbox is only available on the entries different from Any/Other Addresses.

#### **Busy Call Forwarding**

Busy **Call Forwarding** is a service of QX IP PBX that allows the automatic transfer of incoming calls to a variety of other destinations when the called extension is busy.

The Enable Service checkbox selection activates the busy call forwarding service on the current extension.



The table displayed here lists the destinations where the incoming call from a particular caller should be forwarded to when the called extension is busy.

The **State** column indicates whether the corresponding forwarding destination is **Enabled** or **Disabled**.

The Forward to column indicates the forwarding destination.

**Add** opens the **Add Entry** page to add forward destinations. It consists of the following components:

Call Type lists the available call types:

- **PBX** forwarding destination is a local QX IP PBX extensions or Auto Attendant.
- SIP forwarding destination is reached through a SIP server.
- **PSTN** forwarding destination is a PSTN user.
- Auto used for undefined call types. In this case, the routing pattern will be considered and parsed through the Call Routing Table.

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				01	000-2014 <u>Epyzi Technologi</u> e	<u>L LTD</u> All Rights Reserve	d. (en,US)				

Fig.III- 31: Busy Call Forwarding page

The **Forward To** text field requires the SIP address (see chapter <u>Entering SIP Addresses Correctly</u>), extension or PSTN number, where an incoming call from a particular caller should be forwarded when the called extension is busy. If the address already exists in the table, selecting **Save** will display the error "Caller address already exists". A wildcard is allowed in this field (see chapter <u>Entering SIP Addresses Correctly</u>). Entering "\*" as PBX or PSTN addresses will apply configuration of Caller ID Based services to all extensions or PSTN users.

The extension number should be inserted in the Forward To text field for the PBX call type. The PSTN number length depends upon the area code and phone number.

Send Notification Via SMS checkbox enables SMS notifications sending to the user's mobile phone when busy call forwarding on the corresponding extension from the certain caller takes place. This checkbox selection enables the **Mobile Number** text field where the user's mobile phone number should be defined. If you feel this service is not working, contact your system administrator to configure the SMS Settings.

Send E-mail checkbox enables email notifications sending to the user's mailbox when busy call forwarding on the corresponding extension from the certain caller takes place. This checkbox selection enables the E-mail Address text field where the user's email address should be defined. If you feel this service is not working, contact your system administrator to configure the Mail Settings.

When saving this call forwarding configuration, a message will notify the user that Many Extensions Ringing and Call Hunting services have been disabled.

# **No Answer Call Forwarding**

**No Answer Call Forwarding** is a service of QX IP PBX that allows the automatic transfer of incoming calls to a variety of other destinations when the called extension is unable to pick up the call. No answer timeout is configured from the <u>Basic Services – General Settings</u> page.

The **Enable Service** checkbox selection activates the no answer call forwarding service on the current extension.

The table displayed here lists the destinations where the incoming call from a particular caller should be forwarded to if the called extension is unable to answer the call.

The **State** column indicates whether the corresponding forwarding destination is **Enabled** or **Disabled**.

The Forward to column indicates the forwarding destination.

Add opens the Add Entry page to add forwarding destinations. It consists of the following components:

Call Type lists the available call types:

- **PBX** forwarding destination is a local QX IP PBX extensions or Auto Attendant.
- **SIP** forwarding destination is reached through a SIP server.
- **PSTN** forwarding destination is a PSTN user.
- Auto used for undefined call types. In this case, routing pattern will be considered here and parsed through Call Routing Table.

🕜 epygi								Language 👻	✓Pending Events	Logged in As: Administrator (admin)	Log Out			
QX200	Voice Mail Caller ID	Call History	PBX Informati	n Speed Ci for Any A	Account	Basic Services	Caller ID Services				Help			
	Extensio	Extension: 101												
	Holing Cells: Information Incoming Cell Blocking Datapaing Cell Blocking Datimitive Registry Cell Hanting Many, Literation Binging Many, Cell Formating Bus, Cell Formating Bus, Cell Formating Unregistred Documents Cells Termanelling International Cell Formating International Cells Cells International Cells International Cells	nformation Blocking Blocking sing	Ena	inable Service ale/Disable Adi Enabled	d Edit Delete State	SIP-11369@si	Forward to							
		a Binging Call Forwarding erding IL Forwarding Increase and the Call Forward www.Me errougt	earding	Enabled Send Notificatic Mobile Number Send E-mail E-mail Address Save	in Via SMS	PSTN-364789 ygierm.em								
				© 20	00-2014 <u>Envai Technolog</u>	<u>es. LTD</u> . All Rights Reserve	ed. (en,US)							

The **Forward To** text field requires the SIP address (see chapter <u>Entering SIP Addresses Correctly</u>), extension or PSTN number, where incoming call from the certain caller should be forwarded in case the called extension does not answers the call. If the address already exists in the table, selecting **Save** will

Fig.III- 32: No Answer Call Forwarding page



display the error "Caller address already exists". A wildcard is allowed in this field (see chapter <u>Entering SIP Addresses Correctly</u>). Entering "\*" as PBX or PSTN addresses will apply configuration of Caller ID Based services to all extensions or PSTN users.

The extension number should be inserted into the **Forward To** text field for the PBX call type. The PSTN number length depends on the area code and phone number.

**Send Notification Via SMS** checkbox enables SMS notifications sending to the user's mobile phone when no answer call forwarding on the corresponding extension from the certain caller takes place. This checkbox selection enables the **Mobile Number** text field where the user's mobile phone number should be defined. If you feel this service is not working, contact your system administrator to configure the SMS Settings.

**Send E-mail** checkbox enables email notifications sending to the user's mailbox when no answer call forwarding on the corresponding extension from the certain caller takes place. This checkbox selection enables the **E-mail Address** text field where the user's email address should be defined. If you feel this service is not working, contact your system administrator to configure the Mail Settings.

When saving this call forwarding configuration, a message will notify the user that Many Extensions Ringing and Call Hunting services have been disabled.

#### **Unregistered/Inaccessible Call Forwarding**

**Unregistered/Inaccessible Call Forwarding** is only available for extensions attached to IP lines. Calls from the certain caller will be forwarded to the listed destinations when called IP phone is not registered on the QX IP PBX or when it is unreachable, e.g. due to IP phone reboot or network problems.

The Enable Service checkbox selection activates the unregistered/inaccessible call forwarding service on the current extension.

The table displayed here lists the destinations where the incoming call from a particular caller should be forwarded to if the IP line this extension is attached is inaccessible or unregistered.

The **Enable Service** checkbox selection activates the no answer call forwarding service on the current extension.

**Add** opens the **Add Entry** page to add forwarding destinations. It consists of the following components:

**Call Type** lists the available call types:

- **PBX** forwarding destination is a local QX IP PBX extensions or Auto Attendant.
- SIP forwarding destination is reached through a SIP server.
- **PSTN** forwarding destination is a PSTN user.
- Auto used for undefined call types. In this case, routing pattern will be considered here and parsed through Call Routing Table.



Fig.III- 33: Unregistered/Inaccessible Call Forwarding page

The **Forward To** text field requires the SIP address (see chapter <u>Entering SIP Addresses Correctly</u>), extension or PSTN number, where incoming call from the certain caller should be forwarded in case the called extension does not answers the call. If the address already exists in the table, selecting **Save** will display the error "Caller address already exists". A wildcard is allowed in this field (see chapter <u>Entering SIP Addresses Correctly</u>). Entering "\*" as PBX or PSTN addresses will apply configuration of Caller ID Based services to all extensions or PSTN users.

The extension number should be inserted into the Forward To text field for the PBX call type. The PSTN number length depends on the area code and phone number.

Send Notification Via SMS checkbox enables SMS notifications sending to the user's mobile phone when Unregistered/Inaccessible call forwarding on the corresponding extension from the certain caller takes place. This checkbox selection enables the **Mobile Number** text field where the user's mobile phone number should be defined. If you feel this service is not working, contact your system administrator to configure the SMS Settings.

**Send E-mail** checkbox enables email notifications sending to the user's mailbox when Unregistered/Inaccessible call forwarding on the corresponding extension from the certain caller takes place. This checkbox selection enables the **E-mail Address** text field where the user's email address should be defined. If you feel this service is not working, contact your system administrator to configure the Mail Settings.

When saving this call forwarding configuration, a message will notify the user that Many Extensions Ringing and Call Hunting services have been disabled.

#### Find Me / Follow Me

The **Find Me / Follow Me** service of the QX IP PBX allows you to configure simultaneously or subsequently ringing destinations on the incoming call from the certain caller. The ringing destinations can be local PBX extensions, remote SIP or PSTN destinations. From this page you may also adjust a sequence in which the destinations will ring.

Attention: This service has higher priority over all Caller ID based services, except for Incoming Call Blocking and Unconditional Call Forwarding. This means that if the same caller is configured in the incoming call blocking, unconditional call forwarding and the Find Me/Follow Me pages, the incoming call blocking and the unconditional call forwarding services will take effect. Besides this, if you have Find Me/Follow Me service enabled along with the Many Extensions Ringing, No Answer Call Forwarding, Busy Call Forwarding or Call Hunting, only Find Me/Follow Me service will take effect.

The Enable Service checkbox selection activates the Find Me/Follow Me service on the current extension.



The table displayed here lists destinations where the incoming call from a particular caller will be ringing in the configured sequence.

The Enable/Disable functional buttons are used to enable or disable ringing on the destinations in the Find Me/Follow Me table.

The Ring Extension Phone drop down list is used to select the interval in which the current extension (on which you are currently configuring the Find Me/Follow Me service) will ring on the incoming call from the selected caller. With the Immediately selection, the current extension will ring immediately as the call comes in.

The Max Active Calls Count text field requires the maximum number of active calls.

If N= 1, where N is the maximum number of active calls, then only one active call will be possible to make and the next call will go to the voice mail. If N >1, then the next call will go to the next Find Me/Follow Me phones (if configured) which are not in the call.

The **Confirmation Passcode** text field requires the password to accept the call for destinations where passcode activation is enabled (see below). Only digit values are allowed in this text field.

epygi					Language - Pending Events	Logged in As: Administrator (admin) Log (	Out						
QX200	Voice Mail Call History PBX Info	ormation Speed Call	ing Account Basic Services C	aller ID Services									
Your Extension     Return	Caller ID Based Servic	es for Any A	ddress			ŀ	Help						
	Extension: 101												
	Hiding Caller Information	Enable Service     Enable/Disable Add	8 Enable Service Enable/Disable   Add   Edit   Delete										
	Outgoing Call Blocking	State	Find me at	Ask confirm	nation passcode	Start ringing							
	Distinctive Ringing	Enabled	SIP-11369@sip.epygi.loc	Yes		After 10 seconds							
	Call Hunting	Enabled	68Y-118	No		After 15 seconds	-						
	Many Extension Ringing Unconditional Call Forwarding	<ul> <li>Ring extension ph</li> </ul>	one Immediately										
	Busy Call Forwarding												
	No Answer Call Forwarding	Max Active Calls Cour	it: 16										
	Unregistered/Inaccessible Call Forwarding												
	Emergency Interrupt	Confirmation passcod	e: 111										
	Intercom Welcome Message:												
	Voicemail Profile												
	Welcome Message Delay: None												
		Choose File	No file chosen										
		Audio Wait Options:											
		No Audio											
		Default Recording	g										
		Custom Recording	9 Choose file:										
			Choose File No file chosen										
		PTP (based											
		U KIT CIMIN	Choose Channel: QXChannel •										
		Audio Line In											
		Save											
		© 2000	2014 Epvgi Technologies, LTD, All Rights Reserved, (en.	.US)									
				Fig.I	II- 34: Find Me	/Follow Me na							

Fig.III- 34: Find Me/Follow Me page

Add opens the Add Entry page to add a destination to the Find Me/Follow Me table. It consists of the following components:

Call Type lists the available call types:

- PBX destination is a local QX IP PBX extensions or Auto Attendant.
- **SIP** –destination is reached through a SIP server.
- **PSTN** –destination is a PSTN user.
- Auto used for undefined call types. In this case, routing pattern will be considered here and passed through Call Routing Table.

🤕 epygi								Language 👻	✓Pending Events	Logged In As: Administrator (admin)	Log Out
QX200	Voice Mai	Call History	PBX Information	Speed Calling	Account	Basic Services	Caller ID Services				
<ul> <li>Your Extension</li> <li>Return</li> </ul>	FindFo	ollow List -	Add Entry								Help
	Extens	ion: 101									
	Find me at										
	Call Type	SIP V									
	Address	11369@sip.epygi.k	*								
	Start ringing 🕑 Ask con	After 10 seconds	•								
	Save										
		_									
				© 2000-2014 <u>F</u>	pygi Technologie	<u>, LTD</u> , All Rights Reserve	d. (m.US)				

The Address text field requires the SIP address (see chapter Entering SIP Addresses Correctly), extension or PSTN number, where the incoming call from the certain caller will be ringing. If the address already exists in the table, selecting Save will display the error "Caller address already exists". A wildcard is allowed in this field (see chapter Entering SIP Addresses Correctly). The extension number should be inserted into the Address text field for the PBX call type. The PSTN number length depends on the area code and phone number.

The Start Ringing drop down list is used to select the interval when the destination will ring after the call from the selected caller comes in to the current extension. **Immediately** selection indicates that the destination will ring immediately as the call comes in.

The Ask Confirmation Passcode checkbox is used to enable the password protection of the call. With this option enabled, the destination who answers the call will be prompted to insert a password in order to accept the call. The confirmation passcode is defined under the Find Me/Follow Me table (see above).

Welcome Message - this group allows specifying the Find Me/Follow Me Welcome Message Delay and updating the welcome message which is playing only once when calling to Find Me/Follow Me extension, downloading it to the PC, or restoring the default one.

The group offers the following components:

Fig.III- 35: Find Me/Follow Me - Add Entry page



**Welcome Message Delay** requires the delay (in seconds) after which the welcome message will be played when calling to the Find Me/Follow Me extension. The **Choose File** button is used to upload the custom Welcome Message file and opens the file chooser window to browse for a new custom welcome message file.

Attention: The uploaded file needs to be in PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format, otherwise the system will prevent uploading it and the "Invalid audio file, or format is not supported" warning message will appear. The system also prevents uploading if there is not enough memory available for the corresponding extension and the "You do not have enough space" warning message will appear.

The **Download Custom Welcome Message** and **Restore Default Welcome Message** links appear only if a file has been uploaded previously. The **Download Custom Welcome Message** link is used to download the welcome message file to the PC and opens the file-chooser window where the saving location may be specified. The **Restore Default Welcome Message** link is used to restore the default welcome message and remove the previously uploaded file.

The Audio Wait Options radio buttons allows you to configure the audio type which should be played recursively after playing the welcome message:

- No Audio is used to disable any audio after the welcome message played once.
- **Default Recording** selection enables the default Audio Wait music.
- **Custom Recording** selection is used to upload the custom recording file. **Choose File** text field can be used to type the path where custom recording file is located. **Choose File** button is used to browse for the custom recording file.

The recording file needs to be in PCMU (CCITT u-law, 8 kHz, 8 bit Mono) wave format, otherwise the system will prevent uploading the file and display the warning message "Invalid audio file or format is not supported". The system will refuse uploading also if there is not enough memory available for the corresponding extension and will then announce "You do not have enough space".

- **RTP Channel** selection is used to define the channel for the broadcast streaming. The RTP channels are created by the system administrator. Therefore, if you are experiencing problems with using the RTP channels as **Audio Wait Option**, or no RTP channels are available to select on this page, turn to your system administrator for clarification.
- Audio Line In selection (available only for QX50/QX200) uses the external radio broadcasting or any other audio resource as the Audio Wait music. When selecting this option, check with your system administrator if there is an external audio resource connected to the QX IP PBX.

#### **Emergency Interrupt**

The **Emergency Interrupt** service is used to interrupt active calls in case of emergency. With this service activated, the call from the defined caller will take priority over the existing call and will interrupt it. Once interrupted, the priority call will ring on the phone.

**Please Note:** This service is only working on IP phones. Depending on the IP phone model, interruption and new call arrival during off hook may be different.

epygi								Language 👻	✓Pending Events	Logged In As: Administrator (admin)	Log Out
QX200	Voice Mail	Call History	PBX Information	Speed Calling	Account	Basic Services	Caller ID Services				
<ul> <li>Your Extension</li> <li>Return</li> </ul>	Caller ID	) Based §	Services fo	r Any Addi	ress						Help
	Extensio	on: 101									
	Hiding Caller In	nformation	Emerge	ncy Interrupt: Enal	oled T						
	Incoming Call	Blocking									
	Outgoing Call	Blocking									
	Call Hunting	2009									
	Many Extensio	n Ringing									
	Unconditional	Call Forwarding									
	Busy Call Forw	arding									
	No Answer Cal	II Forwarding									
	Unregistered/In	naccessible Call Fo	orwarding								
	Find Me / Follo	zw Me									
	Emergency In	terrupt									
	Intercom										
	Voicemail Prof	ile	San	re							

Fig.III- 36: Emergency Interrupt page

#### Intercom

**Intercom** service is used to call an extension by forcing it to go off-hook and opening two-way communication. The service is particularly used for announcements addressed to an extension. When the call comes in to the extension which has an Intercom service enabled, called extension ring once and then will automatically go off-hook (the phone speaker automatically becomes activated) and the caller will be able to make his announcement.

**Please Note: Intercom** service requires called extension to use SIP or analog phones which are able to automatically go off-hook. For **Intercom** service supported on IP phones, refer to the **"Epygi IP PBX Features on Epygi Supported IP phones**" document on the Epygi's Web portal.



The Intercom page contains the following components:

The Intercom drop-down list has three available sections:

- Allow Activation on Request this selection enables the Intercom service for calls that are made through a call routing rule of the **PBX-Intercom** call type. Please contact your system administrator to ensure a corresponding rule is available for your extension.
- Activate Always this selection unconditionally enables the Intercom service on the extension.
- Disabled this selection disables the Intercom service.

The **Activation signal** drop-down list has three available sections:

- **Ring Only If Requested** this selection allows you to play audible signal if the **Play audible signal before Intercom activation** checkbox is enabled in the call routing rule of the **PBX-Intercom** call type.
- **Ring On Activation** this selection allows you to play audible signal before Intercom activation whether the **Play audible signal before Intercom activation** checkbox in the call routing is enabled or not.

🙋 epygi									Language <del>-</del>	✓Pending Events	Logged In As: Administrator (admin)	Log Out
QX200	Voice Mail C	Call History	PBX Informa	tion Speed	d Calling Acc	ount Basic	: Services	Caller ID Services				
<ul> <li>Your Extension</li> <li>Return</li> </ul>	Caller ID E	Based S	Services	for Any	Address							Help
	Extension:	101										
	Histog, Galle Leftern Incerning, Call Bloc Datasing, Call Bloc Distinctive Elinging Call Hunting Many, Estemaion Ein Unconstitional Call Many, Estemaion Ein Unconstitional Call Rang, Call Foreither No: Answer Call Forei Unconstitional Call Intercom National Particles National Particles National Particles	mation ting ting Forwarding ng revending excibite Call Fo de at	In Ac	tercom: ctivetion signak Save	Activate Always	ion •						
					© 2000-2014 <u>Epysi Ta</u>	<u>chrologies, LTD</u> A	I Rights Reserve	d. (en_US)				
									Fig	g.III- 31	7: Intercom	page

• Silent Activation this selection allows you to activate the Intercom service silently, without any audible signal whether the Play audible signal before Intercom activation checkbox in the call routing is enabled or not.

**Attention:** Intercom will not work if the called extension is in call. If this service is enabled along with Many Extension Ringing, Call Hunting or Forwarding services, Intercom will not take effect and other high priority services will be primary.

### **Voicemail Profile**

The **Voicemail Profile** page allows you to activate the voicemail profile based on Caller ID and Presence States.

The **Voicemail Profile** radio buttons allows you to configure the voice mail profile settings.

- Use Profile As Requested this selection enables the voicemail profile settings for calls that are made through a call routing rule of the PBX-Voicemail call type. Please contact your system administrator to ensure a corresponding rule is available for your extension.
- Use Default Voicemail Settings selection enables the default voicemail profile settings. No profile will be used, regardless of how the call has arrived to extension.
- Use Specific Profile drop-down list allows the selection of a previously created voicemail profile in the <u>Voice Mail Profiles</u> page regardless of how the call has arrived to extension.

🕐 epygi									Language <del>+</del>	✓Pending Events	Logged In As: Administrator (admin)	Cog Out
QX200	Voice Mail	Call History	PBX Inform	nation	Speed Calling	Account	Basic Services	Caller ID Services				
<ul> <li>Your Extension</li> <li>Return</li> </ul>	Caller ID	Based	Service	s for	Any Add	ress						Hdp
	Extensio	n: 101										
	Hiding Caller II Incoming Call. Distinctive Ring Call Hunting Many Extensio Unconditional Buzy Call Forw No Answer Call Unregistered/II Find Me / Follo	nformation Blocking Blocking aing Call Forwarding arding LForwarding maccessible Call F wulds	onwarding	Voicemail	e Profile e Profile As Reque e Default Voicema e Specific Profile:	il Settings						
	Emergency Int Intercom Voicemail Pro	errupt file		Save								
					0 2000-201	4 <u>Eovoi Technolog</u>	i <u>es. LTD</u> All Rights Reser	ved. (er.,135)				

Fig.III- 38: Voicemail Profile page



# **Appendix: Glossary**

# A

Asymmetric Digital Subscriber Line (ADSL) - is a method for moving data over regular phone lines. An ADSL circuit is much faster than a regular phone connection, and the wires coming into the subscriber's premises are the same (copper) wires used for regular phone service. An ADSL circuit must be configured to connect two specific locations, similar to a leased line. A commonly discussed configuration of ADSL would allow a subscriber to receive data (download) at speeds of up to 1.544 Megabits per second, and to send (upload) data at speeds of 128 kilobits per second. Thus is the 'Asymmetric' part of acronym. Another commonly discussed configuration would be symmetrical: 384 kilobits per second in both directions. In theory ADSL allows download speeds of up to 9 megabits per second and upload speeds of up to 640 kilobits per second. ADSL is often discussed as an alternative to ISDN, allowing higher speeds in cases where the connection is always to the same place.

Asynchronous Transfer Mode (ATM) - a 53-byte cell-switching technology well suited for carrying voice, data, and video traffic on the same infrastructure. It is inherently scalable in throughput and was designed to provide Quality of Service (QoS).

**Auto Attendant (AA)** - a feature providing remote access to QX voice connectivity services. Specifically, it supports remote connection to QX extensions, to their mailboxes and for making calls to other destinations. Remote access to QX AA is possible through IP and PSTN calls.

Auto Redial - a service that allows automatically recalling the destination that was busy.

# С

**Call** - establishment of (or attempt to establish) a voice or data connection between two endpoints, or between two points that provide a partial link (e.g., a trunk) between two endpoints.

Call Blocking - a QX service that allows blocking unwanted incoming or outgoing calls over QX.

Call Forwarding - a QX service that allows transferring a call to another destination in case the QX user is busy, not answering or unconditional.

**Call Hold** - a QX service that allows holding the call in order to make another one, or to answer the second incoming call. The first call partner will listen to music while being on hold.

**Call Waiting** - a QX service that allows receiving a second call while being busy with the first one. The waiting party will hear a beeping during the conversation.

Caller ID - caller information is displayed on the called party's phone.

**Central Office (CO)** - a local switching system that connects lines to lines and lines to trunks. Sometimes used to refer to the building in which a switching system is located and the associated equipment. It is also the physical point where calls enter the long distance network.

**CODEC** - COmpression/DECompression that transforms analog voice into a digital bit stream and vice-versa. It is now an overall term for the technology used in digital audio and video.

# D

**D-channel** - In ISDN, the 16-kb/s segment of a 144-kb/s, full-duplex subscriber service channel that is subdivided into 2B+D channels, i.e., into two 64-kb/s clear channels and one 16-kb/s channel for the ISDN basic rate. **Note 1**: The D channel is usually used for out-of-band signaling. The two 64-kb/s clear channels are used for subscriber voice and data services. **Note 2**: The D-channel specifications are addressed in the CCITT Recommendation for the Integrated Services Digital Network (ISDN). **Note 3**: The D-channel may be 64 kb/s for the primary rate ISDN service.

**Data Encryption Standard (DES)** - a block cipher algorithm for encrypting (coding) data so it is nearly impossible for anyone without the decryption key to get the data back in unscrambled form. The DES standard enciphers and deciphers data using a 64-bit key.

**Daylight saving time (DST)** - a convention of advancing clocks so that afternoons have more daylight and mornings have less. Typically clocks are adjusted forward one hour near the start of spring and are adjusted backward in autumn.

Dial peer - an addressable call endpoint. In Voice over IP (VoIP), there are two types of dial peers: POTS and VoIP.

Dial plan - a description of the dialing arrangements for customer use on a network.

**Digital Signal Processor (DSP)** - A specialized microprocessor that performs calculations on digitized signals that were originally analog, and then forwards the results. The big advantage of DSPs lies in their programmability. DSPs can be used to compress voice signals to as little as 4,800 bps. DSPs are an integral part of all voice processing systems and fax machines.

**Digital Subscriber Line (DSL)** - public network technology that delivers high bandwidth over conventional copper wiring at limited distances. There are four types of DSL: ADSL, HDSL, SDSL, and VDSL. All are provisioned via modem pairs, with one modem located at a central office and the other at the customer site. Since most DSL technologies do not use the entire bandwidth of the twisted pair, there remains room for a voice channel.

Distinctive Ringing - QX service that allows a specific ringing pattern assignment for particular callers over QX.

**Domain** - a place on the Internet you can visit with your browser, i.e., a www site. It also might be a single computer or computers masqueraded as a single computer. On the Internet, the domain is the address that gets you there.

**Domain name** - in a network using the TCP/IP, the full domain name consists of a sequence of names (labels) separated by periods (dots), for example, qx.epygi.com.



Domain Name System (DNS) - a system used on the Internet for translating names of network nodes into their addresses.

**Downstream** - in communications, there are two circuits. One coming toward you and the other going away from you. Downstream is another term for the transmission coming toward you.

**Dual-Tone Multifrequency (DTMF)** - a method of signaling consisting of a push-button or touch tone dial that sends out a sound consisting of two discrete tones that are picked up and interpreted by telephone switches (either PBXs or central offices).

Dynamic Host Configuration Protocol (DHCP) - a network standard regulating the IP address and other information assigned to the clients by the server.

**Dynamic Host Control Protocol (DHCP)** - a protocol that is used to dynamically allocate and assign IP addresses. DHCP allows you to move network devices from one subnet to another without administrative attention.

# E

**E1** - wide area network digital transmission scheme. E1 is the European equivalent of a T1 line. The E1's higher clock rate (2.048 MHz) allows for 32 separate 64Kbps channels, which include one channel for framing and one channel for D-channel information.

**Ethernet** - a local area network used for connecting computers, printers, workstations, terminals, servers, etc., within the same building or campus. Ethernet operates over twisted pair and/or over coaxial cable at speed up to 10Mbps.

Ethernet Controller - the unit that connects a device to the Ethernet cable.

**Ethernet Switch -** the device that connects local area networks.

Extensions - users over QX.

External User - users connecting QX by IP or PSTN calls.

# F

**Firewall** - a combination of hardware and software that limits the exposure of a computer or group of computers to an attack from outside. A firewall is a system or combination of systems that enforce a boundary between two or more networks. One purpose of an Internet firewall is to provide a single point of entry where a defense can be implemented, allowing access to the Internet resources from within the organization, and providing controlled access from the internet to hosts inside the organization's internal networks.

Firmware - is computer or OS required software that resides on ROM.

Foreign Exchange (FX) - a Central Office trunk that has access to a distant Central Office. A dial tone is returned from that distant Central Office and a location can be reached in the area of the foreign Central Office by dialing a local number.

**Foreign Exchange Office (FXO)** - a service that can be ordered from the telephone company that provides local telephone service from a central office that is outside (foreign to) the subscriber's exchange area. To generate a call from the computer telephony system to the POTS set, you will need a FXS connection configured. See also FXS.

**Foreign Exchange Station (FXS)** - Interface that connects directly to a standard telephone, fax machine, or similar device over a standard RJ-11 modular telephone cable, and supplies ringing voltage, dial tone, and similar signals to it. See also FXO.

Framing - A procedure for controlling errors. Consists of inserting bits so the receiver can identify the time slots allocated to each subchannel.

# G

**Gatekeeper** - is the central control entity that performs management functions in a Voice and Fax over IP network and for multimedia applications such as video conferencing. Gatekeepers provide intelligence for the network, including address resolution, authorization, and authentication services, the logging of call detail records, and communications with network management systems. Gatekeepers also monitor the network for engineering purposes as well as real-time network management and load balancing, controlling bandwidth, and providing interfaces to existing legacy systems.

**Gateway** - an entrance into and out from a communications network. Technically, a gateway is an electronic repeater that intercepts and steers electrical signals from one network to another.

Greeting - voice messages that are played to the QX users or users calling to the QX activating specific services.

### Η

Hold Music - music played to the party that is on hold.

Host - an intelligent device attached to the network; can be also a mainframe computer.

Host Name - the name given to a mainframe computer or device.

Hunt Grouping - the QX service that allows configuring several users over QX to ring in series when a specific call arrives.

Hypertext Transfer Protocol (HTTP) - the protocol used by Web browsers and Web servers to transfer files, such as text and graphics files.

I



**Integrated Services Digital Network (ISDN)** - is a system of digital phone connections which allows voice and data to be transmitted simultaneously across the world using end-to-end digital connectivity. There are two basic types of ISDN service: Basic Rate Interface (BRI) and Primary Rate Interface (PRI). BRI is a basic service is intended to meet the needs of most individual users. PRI is intended for users with greater capacity requirements

Internet Control Message Protocol (ICMP) - a network-layer Internet protocol that reports errors and provides other information relevant to IP packet processing.

**Internet Protocol (IP)** - a unique, 32-bit number for a specific TCP/IP host on the Internet, normally printed in decimal form (for example, 128.122.40.227). Part of the TCP/IP family of protocols, it describes the software that tracks the Internet address of nodes, routes outgoing messages, and recognizes incoming messages.

Internet Service Provider (ISP) - a vendor who provides direct access to the Internet or a company that provides Internet access to other companies and individuals.

**Intrusion Detection System (IDS)** - is a firewall, but together with deleting the dangerous packets or packets including intrusion attacks, IDS also keeps information about dropped packets and the senders responsible for them.

**IP address** - also known as the Internet Address, is a unique 32-bit identifier for a specific TCP/IP host computer on a network. IP addresses are in dotted decimal form, such as 192.168.10.26, with each of the four address fields assigned as many as 255 values.

**IP address Mask** - A range of IP addresses defined so that only machines with IP addresses within the range are allowed access to an internet service. To mask a portion of the IP address, replace it with the asterisk wild card character (\*). For example, 192.44.\*.\* represents every computer on the internet with an IP address beginning with 192.44

**IP Gatekeeper** - defines the policies that govern a multimedia system such as dialing plans, user privileges, bandwidth consumption, and others. The gatekeeper also provides the means to extract information from such a system for various purposes, e.g., billing information, users that are logged in, etc. The gatekeeper is also a focal point for the introduction of supplementary services.

**IP Gateway -** most commonly, a network device that converts voice and fax calls, in real time, between the public switched telephone network (PSTN) and an IP network. The main IP gateway functions include voice, fax, compression/decompression, packetization, call routing, and control signaling. Additional features may include interfaces to external controllers, such as gatekeepers or soft-switches, billing systems, and network management systems.

IP PBX - an enterprise-based IP data network device that switches VoIP telephone traffic.

**IP Telephony** - a technology that allows voice phone calls to be made over the Internet or other packet networks using a PC via gateways and standard telephones.

**IPSec** - is used to provide security for transmission of sensitive information over unprotected networks such as the Internet. IPSec acts at the network layer, protecting and authenticating IP packets between participating IPSec devices ("peers"), such as Cisco routers.

# J

Jitter Buffer - the buffer that collects incoming packets to place them in the right order. If the network has a high delay variation, increasing the Jitter Buffer can improve the audio quality, but this also increases the delay.

# L

**LED** - Light-Emitting Diode, A semiconductor device that emits visible light when conducting current. Has replaced incandescent lamps as indicators in most electronic equipment.

**Lifeline POTS** - a voice telephone line that works even if electricity is cut off at the customer premises, since the line is powered from emergency backup at the central office. Multiple lifeline POTS lines can be delivered on one copper pair with the use of a digital line powered pair gain system. A basic telephone service supplying standard single line telephones, telephone lines, and access to the PSTN.

Local Area Network (LAN) - a short distance data communications network (typically within a building or campus) used to link computers and peripheral devices under some form of standard control.

Login -the procedure of identifying a user with a username and a password to enter into the protected field.

# Μ

**Many Extensions Ringing** - a QX service that allows configuring several users over QX to ring simultaneously when a specific call arrives.

Media Access Control (MAC) Address - the address for a device as it is identified at the Media Access Control layer in the network architecture.

Media Access Control (MAC) Layer - is one of two sublayers that make up the Data Link Layer of the OSI model. The MAC layer is responsible for moving data packets to and from one Network Interface Card (NIC) to another across a shared channel.

**Media Gateway** - a generic class of products grouped under the Media Gateway Control Protocol (MGCP). A major function of the media gateway is simple IP/TDM conversion under the control of a softswitch.

# Ν

Name server - a directory service that provides a mapping between a resource's global name and its physical location in the network.



**Network Address Translation (NAT)** - is used to allow LAN devices that do not have their own static IP addresses to connect to the Internet sharing an IP address. NAT will assume control of assigning their IP address. Furthermore, the NAT takes care that packets will reach the LAN PC that originated the traffic. This mechanism is absolutely transparent for the users (or the PCs in the LAN).

**Network Time Protocol (NTP)** - a protocol that is used for time counting in the Internet, based on the atomic clocks with the precision in milliseconds. This is the recommended protocol for synchronizing the time of hosts in the network.

# Р

**Packetization Interval** - the time interval between two RTP packets of the same stream. If the interval is increased, the overhead is decreased but the voice quality might deteriorate. If the interval is decreased, the network load is increased and the delay is reduced.

Password - a secret alphanumeric string used to identify and to allow the user to have access to a system.

**PCM** - a form of modulation in which the information signals are sampled at regular intervals and a series of pulses in coded form are transmitted representing the amplitude of the information signal at that time.

**Point-to-Point Protocol (PPP)** - allows a computer to connect to the Internet with a standard dial-up telephone line and a high-speed modem and to enjoy most of the benefits of the direct connection.

**Point-to-Point Tunneling Protocol (PPTP)** - enables virtual private networking - enabling secure remote access to corporate networks over the Internet.

**POTS (Plain Old Telephone Service)** - is the standard telephone service that most homes use. It is also referred to as the PSTN, or the Public Switched Telephone Network

**Private Branch Exchange (PBX)** - a telephone switch owned privately, usually by a large company. If it owns a PBX, a company does not need to lease a telephone line for each telephone set at a site.

Proxy server - an intermediate device that receives SIP requests from a client and then initiates requests on the client's behalf.

Public Switched Telephone Network (PSTN) - refers to the local telephone company.

# R

**Real-Time Transport Protocol (RTP)** - the Internet-standard protocol for the transport of real-time data, including audio and video, allows applications to synchronize audio and video information. RTP connections are established between servers across the Internet after voice has been converted to IP format. RTP is used in virtually all Voice-over-IP architectures, for videoconferencing, media-on-demand, and other applications.

**Real-Time Transport Control Protocol** (RTCP) - is the control protocol that works in conjunction with RTP. RTCP control packets are periodically transmitted by each participant in an RTP session to all other participants. Feedback of information to the application can be used to control performance and for diagnostic purposes.

**Registration** - procedure of user subscribing to a server. Usually some personal parameters such as username, password, etc., are required upon registration.

Remote Testing - remote connection from the Epygi Support office to the customer's QX for testing and/or for troubleshooting.

**Router** - A device that determines the next network point to which a data packet should be forwarded enroute toward its destination. The router is connected to at least two networks and determines which way to send each data packet based on its current understanding of the state of the networks it is connected to. Routers create or maintain a table of the available routes and use this information to determine the best route for a given data packet

**RSA** - is an asymmetric key system. It must be available on both sides of the VPN and generates on each side a different pair of keys, a private and a public key.

# S

Security Parameter Index (SPI) - is an index to keep VPN tunnels distinct. A security association is defined by destination, protocol and SPI. Without the SPI, connections to the same gateway using the same protocol would not be distinguishable.

**Session Initiation Protocol (SIP)** - is an application-layer control protocol that can establish, modify and terminate multimedia sessions or calls. SIP is increasingly used for Internet telephony signaling, in gateways, PC phones, softswitches, and softphones, but it is not limited to Internet telephony, and can be used to initiate and manage any type of session, including video, interactive games, and text chat.

Signaling - a process of sending a transmission signal over a physical medium for communication.

Silence Suppression - a method that allows disabling RTP packet transmission when there is no voice activity. This feature helps to avoid extra traffic when the RTP stream doesn't contains voice data.

Simple Network Management Protocol (SNTP) - the Internet standard protocol developed to manage nodes on an IP network.

SIP address - unique address of the users registered on the SIP server. The address can be used to connect the user. The full SIP address has the following format: "display name" <u style="text-align: center;">username@ipaddress:port>.</u>

SIP server - this server is used for registering users. It gives a possibility to make IP connections between users registered on the same SIP server.

**Software** - PC programs.



**Software PBX** - a telephone system that converges voice and data on an industry-standard computing platform and uses computer telephony components that conform to industry standards. Since they conform to industry standards, software PBXs are interoperable with third-party systems and CT components. Conformance also allows software PBXs to run third-party enhanced applications such as desktop call control, graphical voice mail, automatic call distribution (ACD), IP gateways, follow-me call forwarding, unified messaging, and CRM integration.

**Speed Calling** - a service that allows making a personal address book for every QX user. A simple digit combination can be assigned to any destination phone number.

# Т

**Transfer** - a service giving a possibility to readdress incoming calls. Call Transfer can be conditional (with consultation) and unconditional (without consultation).

**Transmission Control Protocol (TCP)** - a connection-oriented transport layer protocol that provides reliable full-duplex data transmission. TCP is part of the TCP/IP protocol stack.

**Transmission Control Protocol/Internet Protocol (TCP/IP)** - is a networking protocol that provides communication across interconnected networks, between computers with diverse hardware architectures and various operating systems.

**Trunk:** - is a communications channel between two points, typically referring to large-bandwidth telephone channels between switching centers that handle many simultaneous voice and data signals.

**Trunk Level 1 (T1)** - a high-speed (1.544Mb/s) digital telephone line with the equivalent of 24 individual 64Kb/s channels that are joined via time division multiplexing. A T1 line can be used to transmit voice or data, and many are used to provide connections to the Internet. T1 is the North American equivalent of an E1 line.

# U

**UDP** - a connectionless transport layer protocol in the TCP/IP protocol stack. UDP is a simple protocol that exchanges datagram without acknowledgments or guaranteed delivery, requiring that error processing and retransmission be handled by other protocols.

Universal Serial Bus (USB) - is an interface with a protocol that is designed to handle a broad range of devices - telephones, modems, printers, etc.

**Upstream-** in communications, there are two circuits - one coming toward you and the other going away from you. Upstream is another term for the name of the channel going away from you.

URL - an identifier used to locate content that is transported via the HTTP protocol.

Username - identification name of the user. Usually used for registration and login.

# V

VCI - parameter used to configure ATM settings and is usually given by the Internet provider.

**Virtual Private Network (VPN)** - connects two local networks (intranets) over the insecure Internet securely. VPN routers manage authentication between servers and clients and handle data encryption for the connection. Only authorized users can access the network and the data exchange cannot be intercepted. A VPN includes authentication and encryption to protect data integrity and confidentiality. VPNs are "virtual" in the sense that individuals can use the public Internet as a means of securely accessing an internal network. Once the VPN connection is established, users have access to the same network resources, addresses, and so forth as if they were connected locally. VPNs are "private" because the data is encrypted between two VPN gateways. Encryption makes it very difficult for anyone to intercept data and capture sensitive information such as passwords.

Voice mail - a brief message that external users can leave for the QX users in the event that nobody answers the call.

Voice Mail System (VMS) - a feature providing the possibility of leaving brief voice messages at the unavailable or busy QX extension's mailbox.

Voice mailbox -is the mailbox where voice mails are collected.

Voice message - help messages that are played to the user giving a hint on how to manipulate the menus within QX using the phone handset.

**Voice Over Internet Protocol (VOIP)** - technology used to transmit voice conversations over a data network using the Internet Protocol. This provides ability to carry normal telephony-style voice over an IP-based internet with POTS-like functionality, reliability, and voice quality.

**VPI** - parameter used to configure ATM settings usually given by the Internet provider.

# W

Wide Area Network (WAN) - a communications network used to connect computers and other devices across a large area.



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