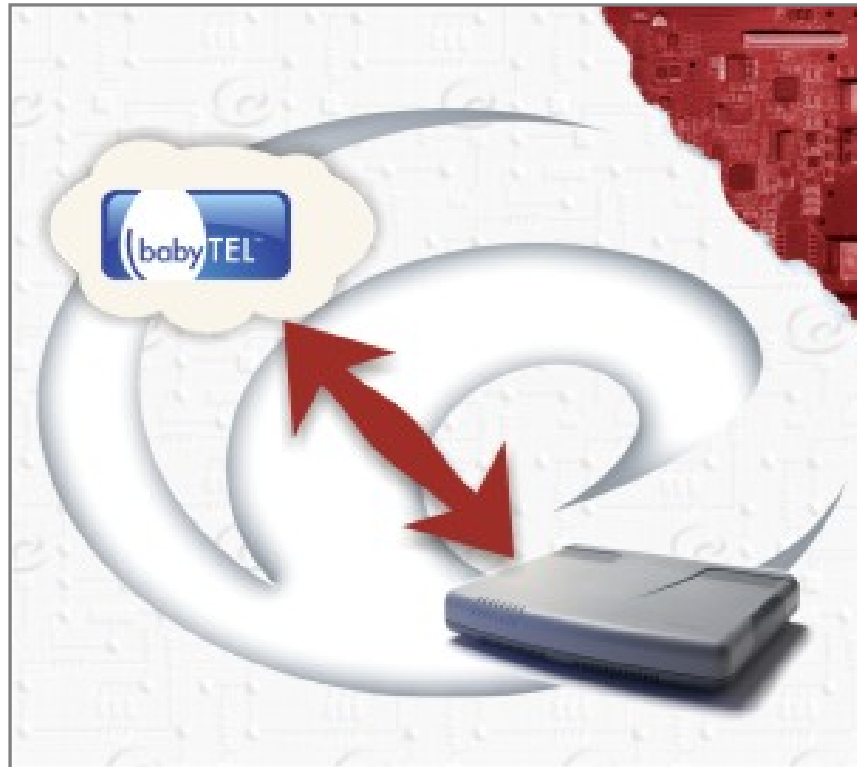

Configuring Quadro with babyTEL



Revision: 1.1

Abstract: This document describes how to configure the Quadro to use the IP-PSTN service from babyTEL

Document Revision History

Revision	Date	Description	Valid for SW	Valid for models
1.0	19-May-09	Initial release	4.1.x	Quadro IP PBXs
1.1	01-Jun-09	Revised by ITSP	4.1.x	Quadro IP PBXs

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1 Introduction

This document describes how to configure the Quadro to use the IP-PSTN service from babyTEL. The Quadro IP PBX is capable of making IP-PSTN calls via babyTEL networks. This solution allows Quadro IP PBX users to make cost saving calls to distant destinations.

Please Note: Security issues and rates are beyond the scope of this document.

2 Requirements and Preparations

- The Quadro IP PBX is connected to the network and all network settings are properly configured.
- The Quadro IP PBX is running software 4.1.x or higher

2.1 Account Information from babyTEL

babyTEL will provide the customer with the following data:

- Username - 12143066434
- Password - *****
- SIP server - sip.babyTEL.ca
- SIP Outbound proxy server - nat.babyTEL.ca
- SIP Outbound proxy port - 5065
- DIDs - 1-214-306-6434

3 Configuration

The sections below describe the configurations required on the Quadro to allow the users to

1. Make outgoing calls through babyTEL.
2. Receive incoming calls through babyTEL.

3.1 Making Outgoing Calls through babyTEL

First of all, provided account should be registered. For creating a new extension and registering it on babyTEL service, go to **Telephony->VoIP Carrier Wizard** page, pass through this wizard and enter the following parameters:

- **VoIP Carrier** – Manual;
- **Description** – babyTEL;
- Press **Next** button (Figure 1).

Figure 1: VoIP Carrier Wizard – page 1

In the next opened page enter the following parameters:

- **Account Name** – 12143066434;
- In the **Password** and **Confirm Password** fields enter the provided SIP account password;
- **SIP Server** – sip.babyTEL.ca;
- **SIP Server Port** – 5060;
- **Outbound Proxy Host** - nat.babyTEL.ca;
- **Outbound Proxy Port** – 5065;
- Enable **Use RTP Proxy** service and press **Next** (Figure 2).

Figure 2: VoIP Carrier Wizard – page 2

On the third page of VoIP Carrier Wizard you can define the Access Code which will be used in the Call Routing Table. Let's say it is *01*. You can also define the extension, on which you will receive the incoming calls from babyTEL. Let's say it *12*.

- **Access Code** – 01;
- **Route Incoming Calls to** – 12;
- If you want the calls failover through onboard FXO line, you can enable **Failover to PSTN** service too and press **Next** button (Figure 3).

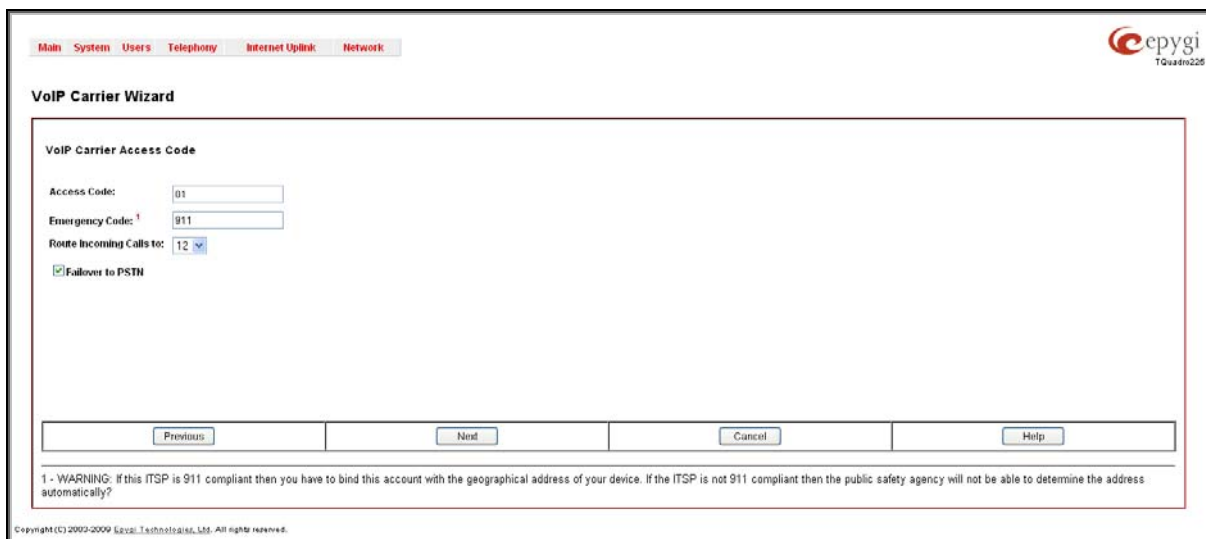


Figure 3: VoIP Carrier Wizard – Page 3

- Confirm entered settings on the last page of VoIP Carrier Wizard page and press **“Finish”** button (Figure 4).

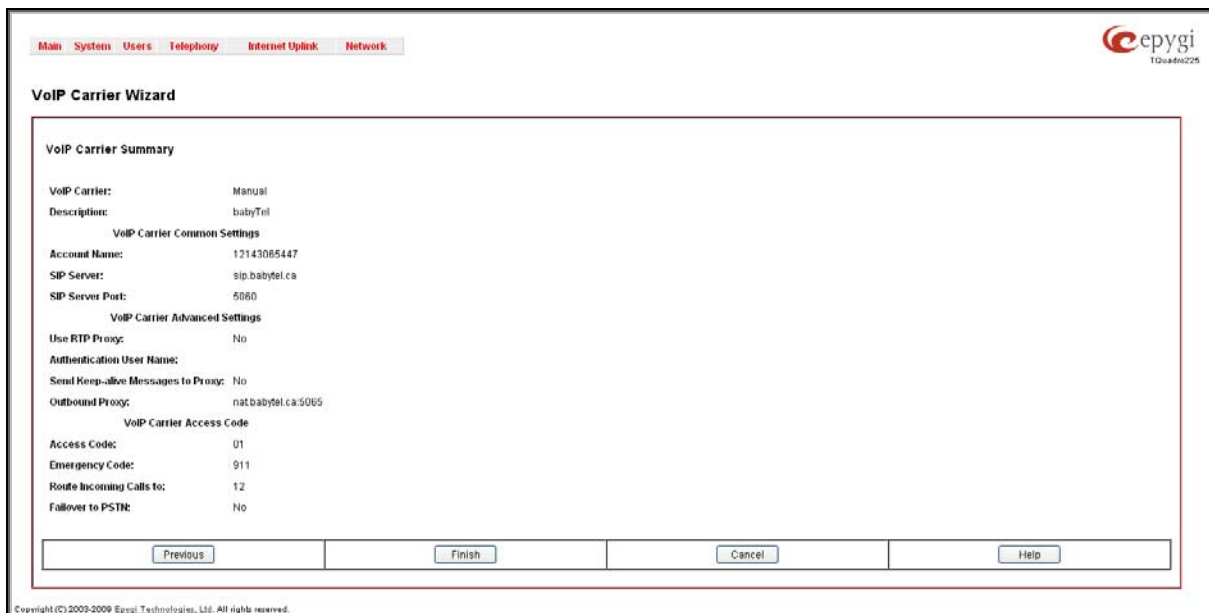


Figure 4: VoIP Carrier Wizard – Summary page

3.2 Receiving Inbound Calls from babyTEL

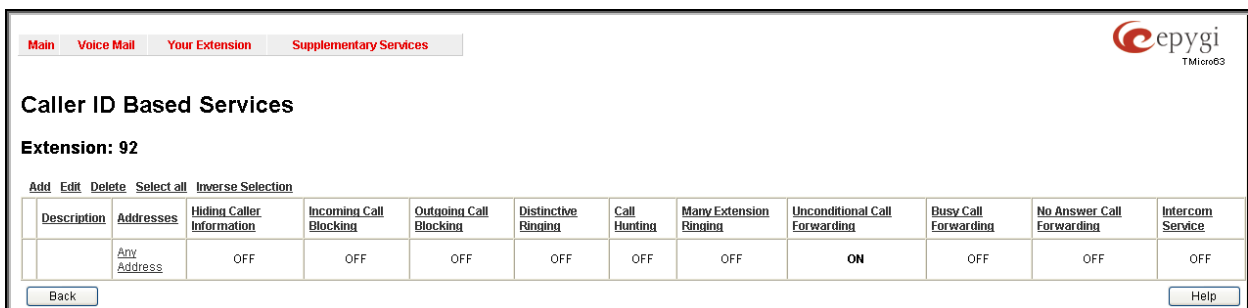
For receiving incoming calls from babyTEL service we already have added an extension number (extension 12) in the VoIP Carrier Wizard.

The mechanism of receiving incoming calls is the following:

When account of ITSP (Internet Telephony Service Provider) is added on Quadro using VoIP Carrier Wizard, Quadro automatically generates Virtual Extension (extension without attached physical or IP line) and registers it on needed ITSP. This is made to leave the Real Extensions (extensions with attached physical or IP line) free. But Virtual Extension can't receive any call, because it doesn't have any attached line. By this reason Quadro forwards incoming calls to a Real Extension and user can choose the Real Extension during VoIP Carrier Wizard (in our case we have chosen extension 12).

Also, if user wants, he can change this forwarding to any destination (Local extension, other SIP destination or other PSTN number) any time.

To do this, go to **Users->Extensions Management** page, find the Virtual Extension which is registered on babyTEL and click on it. In the opened page go to **Supplementary Services->Caller ID Based Services** page and click on **Any Address** link (Figure 5).



The screenshot shows the 'Caller ID Based Services' page for extension 92. The page has a navigation bar with 'Main', 'Voice Mail', 'Your Extension', and 'Supplementary Services'. The Epygi logo is in the top right corner. Below the title, there are links for 'Add', 'Edit', 'Delete', 'Select all', and 'Inverse Selection'. A table lists various services with their status for 'Any Address'.

Description	Addresses	Hiding Caller Information	Incoming Call Blocking	Outgoing Call Blocking	Distinctive Ringing	Call Hunting	Many Extension Ringing	Unconditional Call Forwarding	Busy Call Forwarding	No Answer Call Forwarding	Intercom Service
	Any Address	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF

Buttons for 'Back' and 'Help' are located at the bottom of the page.

Figure 5: Caller ID Based Services page

In the opened page choose **Unconditional Call Forwarding** from the Based Services list and click on it. In this page you can configure the Unconditional Call Forwarding as you want (Figure 6).

The screenshot shows a web interface for configuring services. At the top, there are navigation tabs: 'Main', 'Voice Mail', 'Your Extension', and 'Supplementary Services'. The 'Supplementary Services' tab is active. The page title is 'Caller ID Based Services for Any Address' and the extension is '78'. On the left, a list of services is shown with 'Unconditional Call Forwarding' selected. The main area contains a table with columns 'State' and 'Forward to'. The 'Enabled' row shows 'PBX-12'. Below the table are checkboxes for 'Send Notification Via SMS' (with a 'Mobile Number' field) and 'Send E-mail' (with an 'E-mail Address' field). 'Save', 'Back', and 'Help' buttons are at the bottom.

State	Forward to
Enabled	PBX-12

Figure 6: Caller ID Based Services - Unconditional Call Forwarding page

4 Additional Notes

4.1 Sending and Receiving Faxes through babyTEL

The following steps describe how to configure an extension to send and receive fax messages through babyTEL.

1. Go to **Users**→**Extensions Management** page (Figure 7).
2. On the **Extensions Management** page, click on the **Codecs** link of extension which is attached to any physical line. Let say extension 12.
3. On the **Extension Codecs** page (Figure 8), select the **Enable T.38 Fax** and **Enable Pass Through FAX** checkboxes and press **Save** button.

Extensions Management

[Add](#) [Edit](#) [Delete](#) [Select all](#) [Inverse Selection](#) [Reset SIP Settings](#)

<input type="checkbox"/>	Extension	Display Name	Attached Line	SIP Address	Percentage of System Memory	Call Relay	Codecs
<input type="checkbox"/>	00	Attendant		7000@sip.epygi.loc:5060	12% (5 min 44 sec)		PCMU, ...
<input type="checkbox"/>	11	Joe Smith	Line 1	7001@sip.epygi.loc:5060	4% (1 min 55 sec)	No	PCMU, ...
<input type="checkbox"/>	12	Anne Wilson	Line 2 (R)	70017812@sip.epygi.com:5060	4% (1 min 55 sec)	No	PCMU, ...
<input type="checkbox"/>	13	Jane Doe	Line 3	70017813@sip.epygi.loc:5060	4% (1 min 55 sec)	No	PCMU, ...
<input type="checkbox"/>	77 (Call Park)			77			PCMU, ...
<input type="checkbox"/>	99 (Paging Group)			99			PCMU, ...

Upload Universal Extension Recordings

[Back](#) [Help](#)

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Figure 7: Extension Management page

Extension 12 Codecs

Enable/Disable Select all Inverse Selection Move Up Move Down Make preferred

Audio Codecs	State
<input type="checkbox"/> G.711u (PCM audio coding standard, 8 kHz sample rate, 8 bits, 64 kbit/s data rate) (preferred)	Enabled
<input type="checkbox"/> G.729a (CS-ACELP speech coding at 8 kbit/s rate)	Enabled
<input type="checkbox"/> G.711a (PCM audio coding standard, 8 kHz sample rate, 8 bits, 64 kbit/s data rate)	Disabled
<input type="checkbox"/> G.726-16 (ADPCM speech coding at 16 kbit/s rate)	Disabled
<input type="checkbox"/> G.726-24 (ADPCM speech coding at 24 kbit/s rate)	Disabled
<input type="checkbox"/> G.726-32 (ADPCM speech coding at 32 kbit/s rate)	Disabled
<input type="checkbox"/> G.726-40 (ADPCM speech coding at 40 kbit/s rate)	Disabled
<input type="checkbox"/> iLBC (Internet Low Bit Rate Coder at 13,33 kbit/s rate)	Disabled
Video Codecs	State
<input type="checkbox"/> H.263 (video coding for low bit rate communication)	Disabled
<input type="checkbox"/> H.264 (Advanced video coding for low bit rate communication)	Disabled

Out of Band DTMF Transport
 Enable T.38 FAX
 Enable Pass Through FAX
 Enable Pass Through Modem
 Force Self Codecs Preference for Inbound Calls

Save Back Help

Please check your pending events!
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Figure 8: Codecs page for extension 12

Please Note: On current SW versions of Epygi products, FAX messages can be received only on extensions which are attached to physical (analog) lines or in Voice Mail Box of any type of extensions.

5 References

The following documents can be helpful for further configuration of the Quadro IP PBX. They can be downloaded from Epygi's WEB portal at www.epygi.com

- Quadro Manual I – Installation Guide
- Quadro Manual II - Administrators Guide
- Preventing Unauthorized Calls on the Quadro
- User Access Privileges on the Quadro
- Quadro with generic IP-PSTN service