

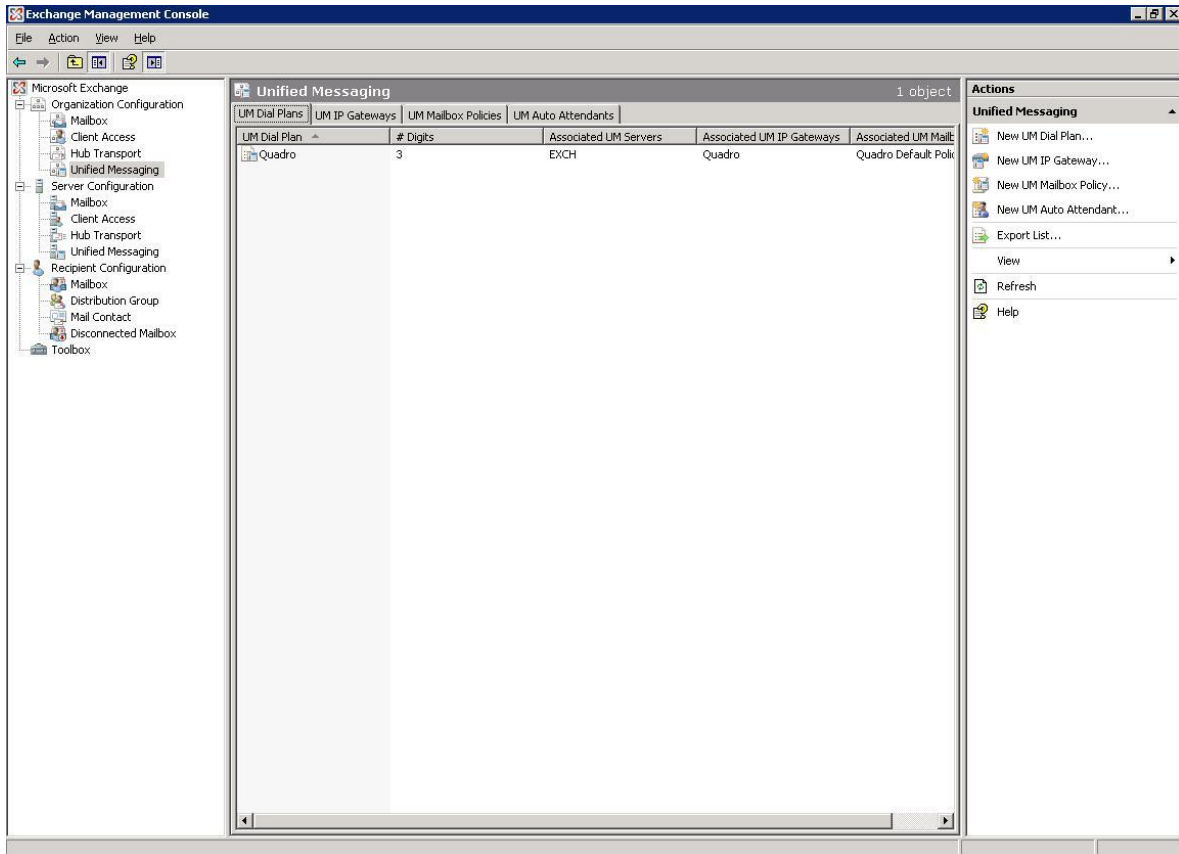
Basic Setup for Quadro IP PBX / Exchange Server 2007 UM

This document describes a simple set up for Microsoft Exchange 2007 UM and Quadro IP PBX . Although this setup provides basic functionality to get you started

Configuring Exchange and Quadro IP PBX

1. Install the unified messaging role on your exchange server.

Run Exchange Management Console:



2. Create a new unified messaging dial plan: Using the Exchange management console, select Organization Configuration/Unified Messaging. Under actions select new UM dial plan. Name the dial plan 'Quadro' and set the 'number of digits in extension numbers' to 3 (depend on your dial plan).

New UM Dial Plan

New UM Dial Plan
 Completion

New UM Dial Plan
This wizard helps you create a UM dial plan for use by Microsoft Exchange Unified Messaging. A dial plan is a grouping of unique telephone extension numbers.

Name:
Quadro

Number of digits in extension numbers:
3

URI type:
Telephone Extension

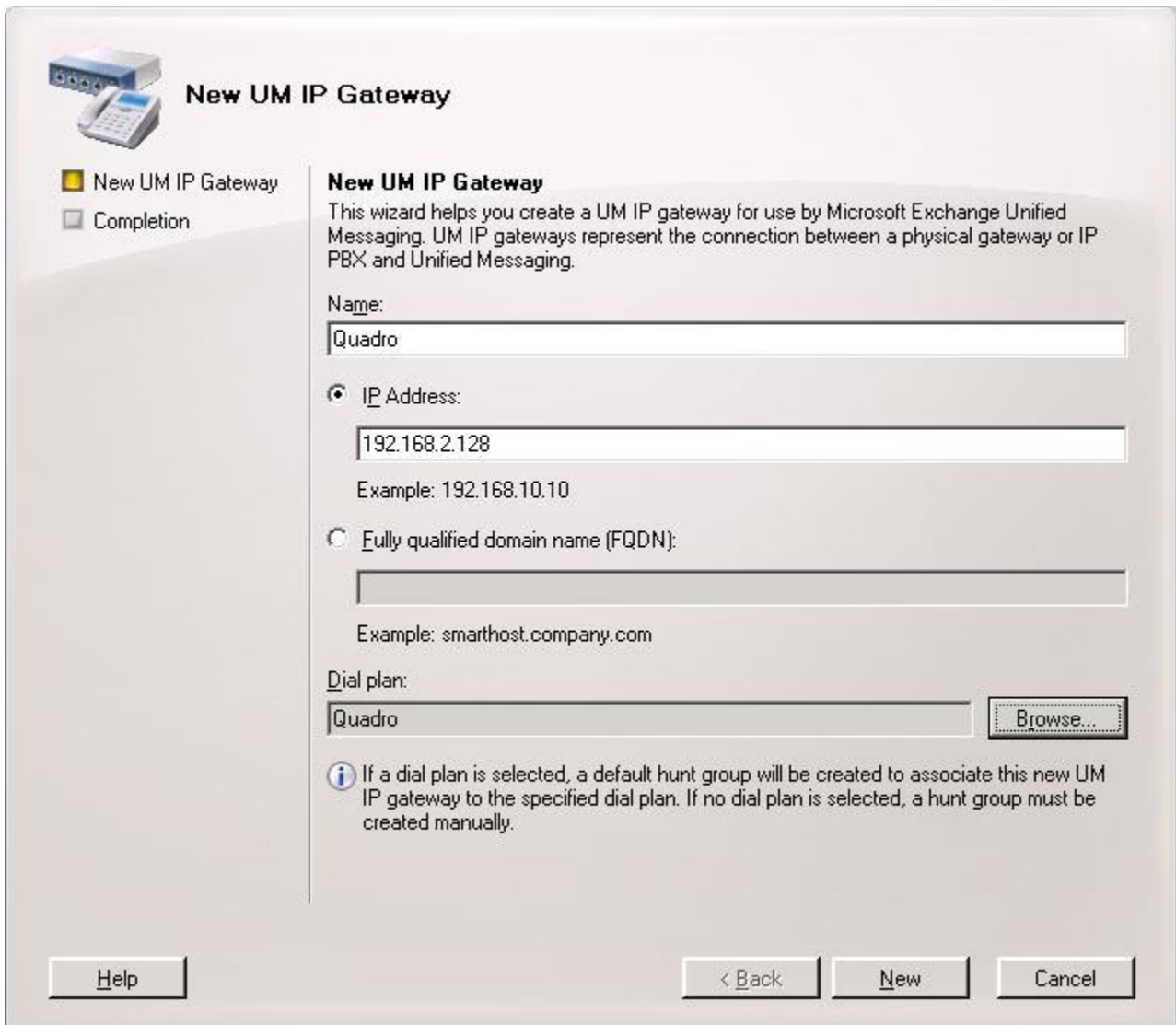
VoIP security:
Unsecured

After you create a new dial plan, the dial plan must be added to one or more UM servers before it will be used.

Help < Back New Cancel

Click 'new' and then 'finish'.

3. Create a new unified messaging IP gateway: Under actions select New UM IP Gateway. Name the gateway 'Quadro', select IP address and enter the IP address of your Quadro IP PBX (in our case it is 192.168.2.128). Click the 'browse' button next to dial plan and select the 'Quadro' dial plan you created in step two.



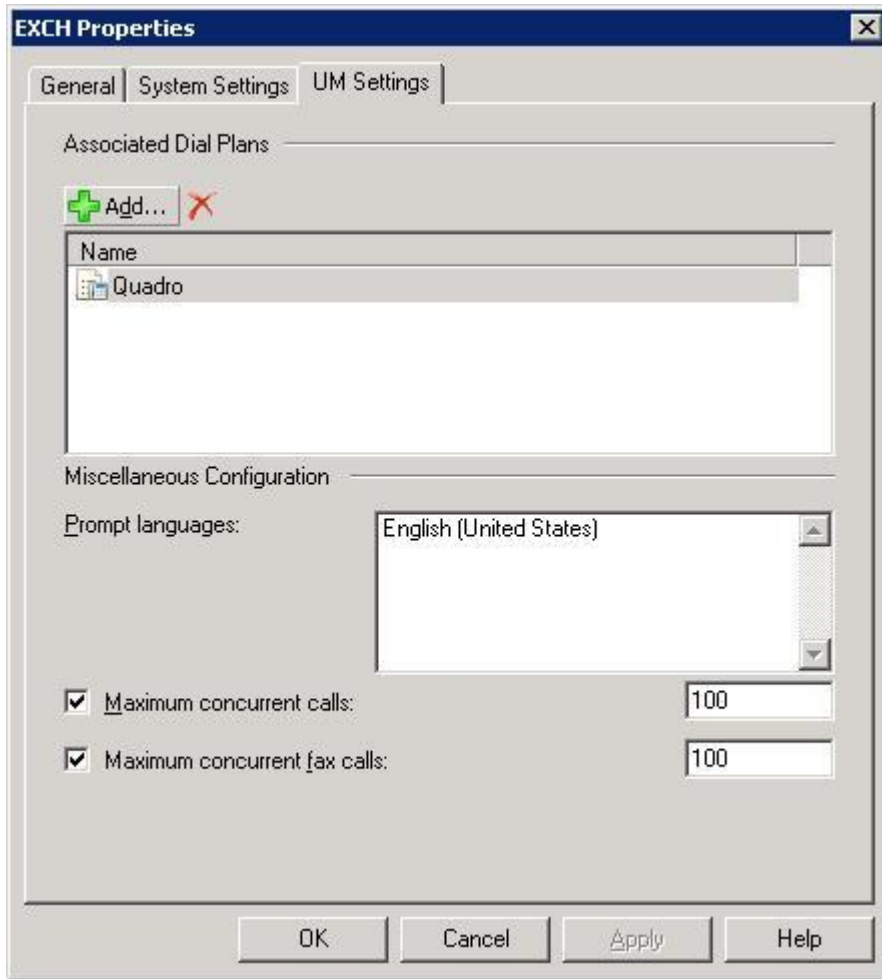
The screenshot shows the 'New UM IP Gateway' wizard in Microsoft Exchange Management Console. The title bar includes an icon of a gateway device and the text 'New UM IP Gateway'. On the left, there are two steps: 'New UM IP Gateway' (selected with a yellow square) and 'Completion' (unselected with a grey square). The main area is titled 'New UM IP Gateway' and contains the following fields and options:

- Name:** A text box containing 'Quadro'.
- IP Address:** A radio button is selected. The text box contains '192.168.2.128'. Below it, the text 'Example: 192.168.10.10' is displayed.
- Fully qualified domain name (FQDN):** A radio button is unselected. The text box is empty. Below it, the text 'Example: smarthost.company.com' is displayed.
- Dial plan:** A text box contains 'Quadro'. To its right is a 'Browse...' button.

At the bottom, there is an information icon (i) followed by the text: 'If a dial plan is selected, a default hunt group will be created to associate this new UM IP gateway to the specified dial plan. If no dial plan is selected, a hunt group must be created manually.' At the very bottom, there are four buttons: 'Help', '< Back', 'New', and 'Cancel'.

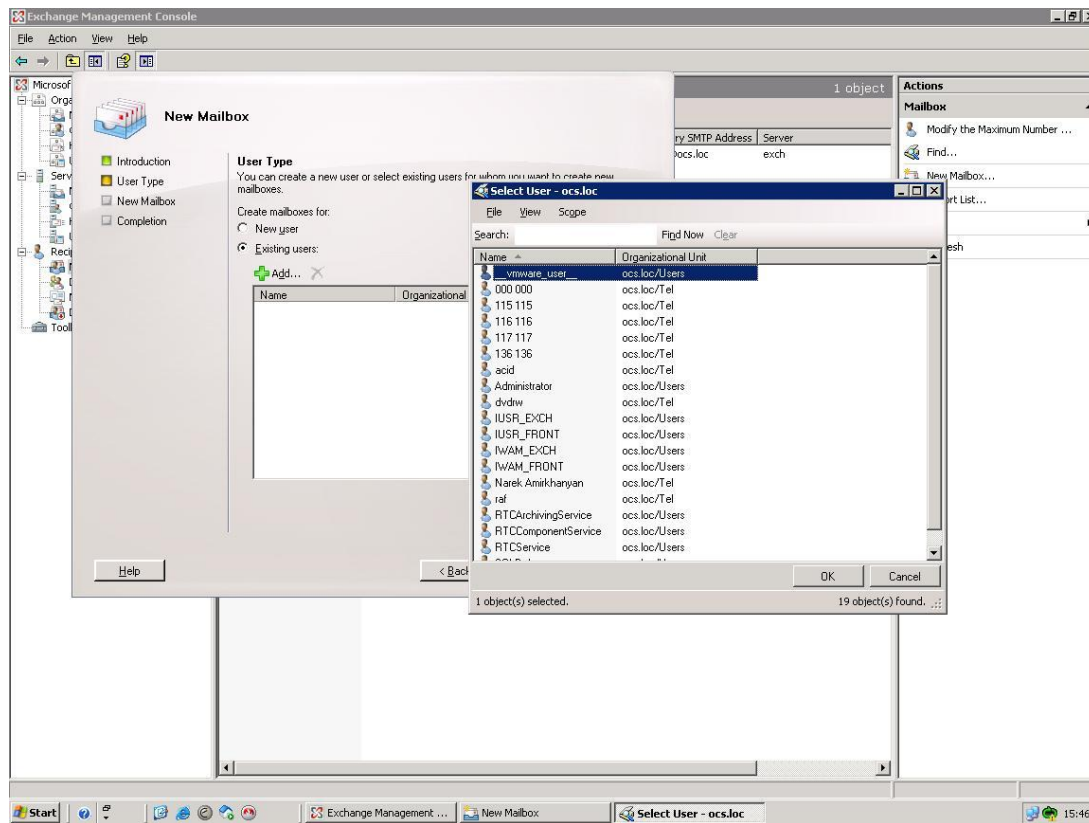
Click 'new' and then 'finish'.

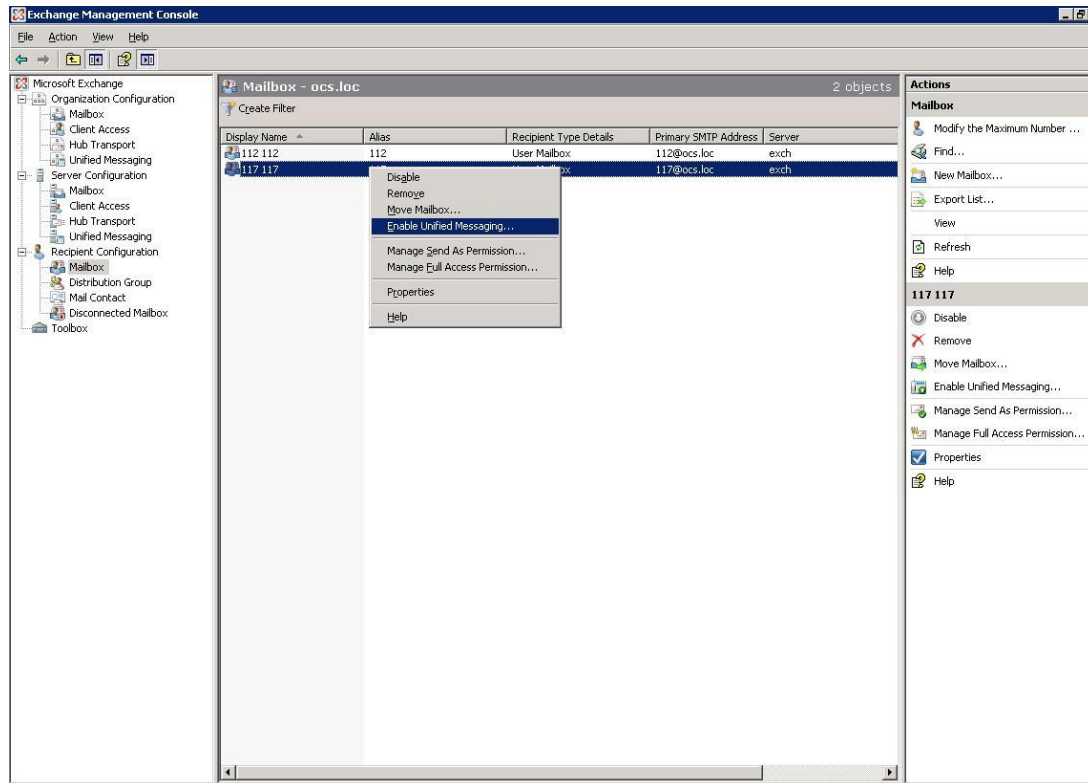
4. Associate the dial plan with the unified messaging server: Using the Exchange management console, select Server Configuration/Unified Messaging. Under actions click properties and then click the 'UM settings' tab. Under associated dial plans click the add button. Choose the



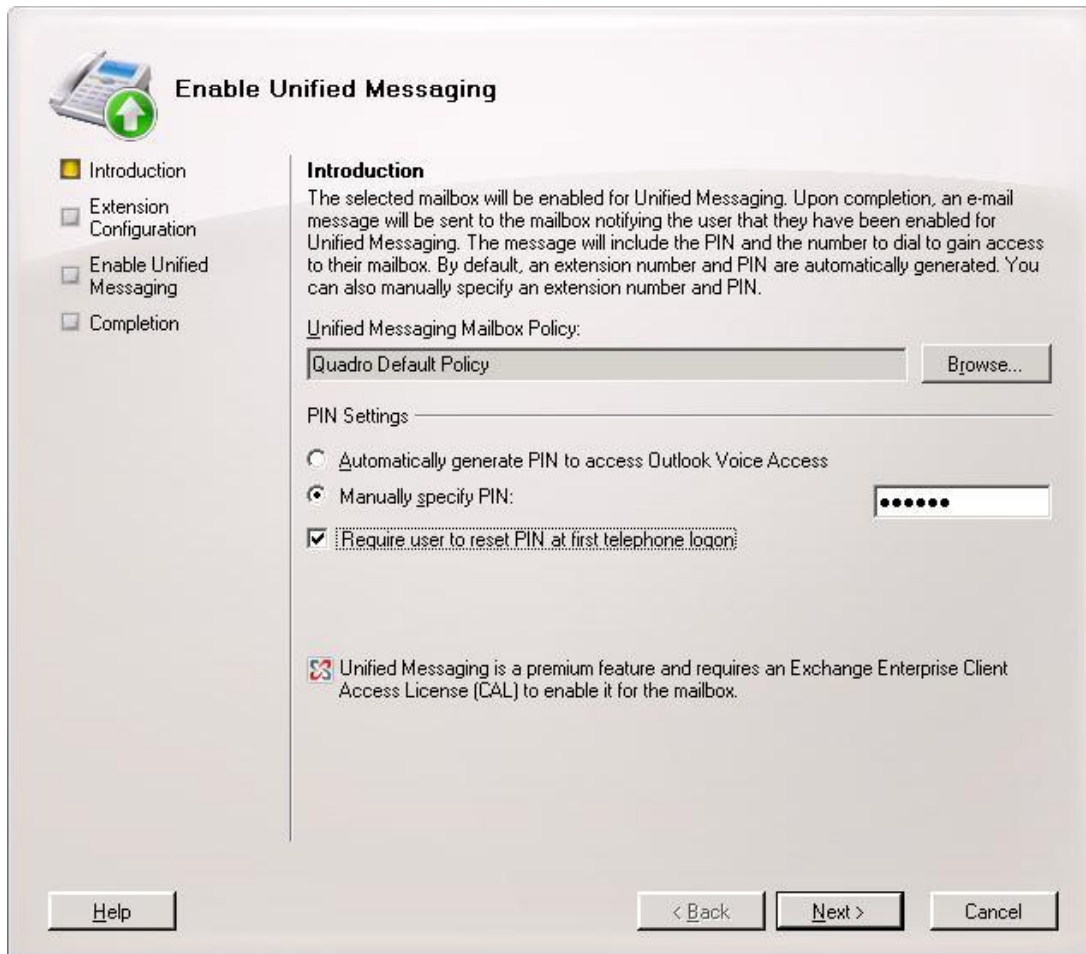
'Quadro' dial plan created in step two. Click OK.

5.Enable mailbox recipients for unified messaging: Using the Exchange management console, select Recipient Configuration/Mailbox. Select the mailbox you wish to enable and then under actions click enable unified messaging

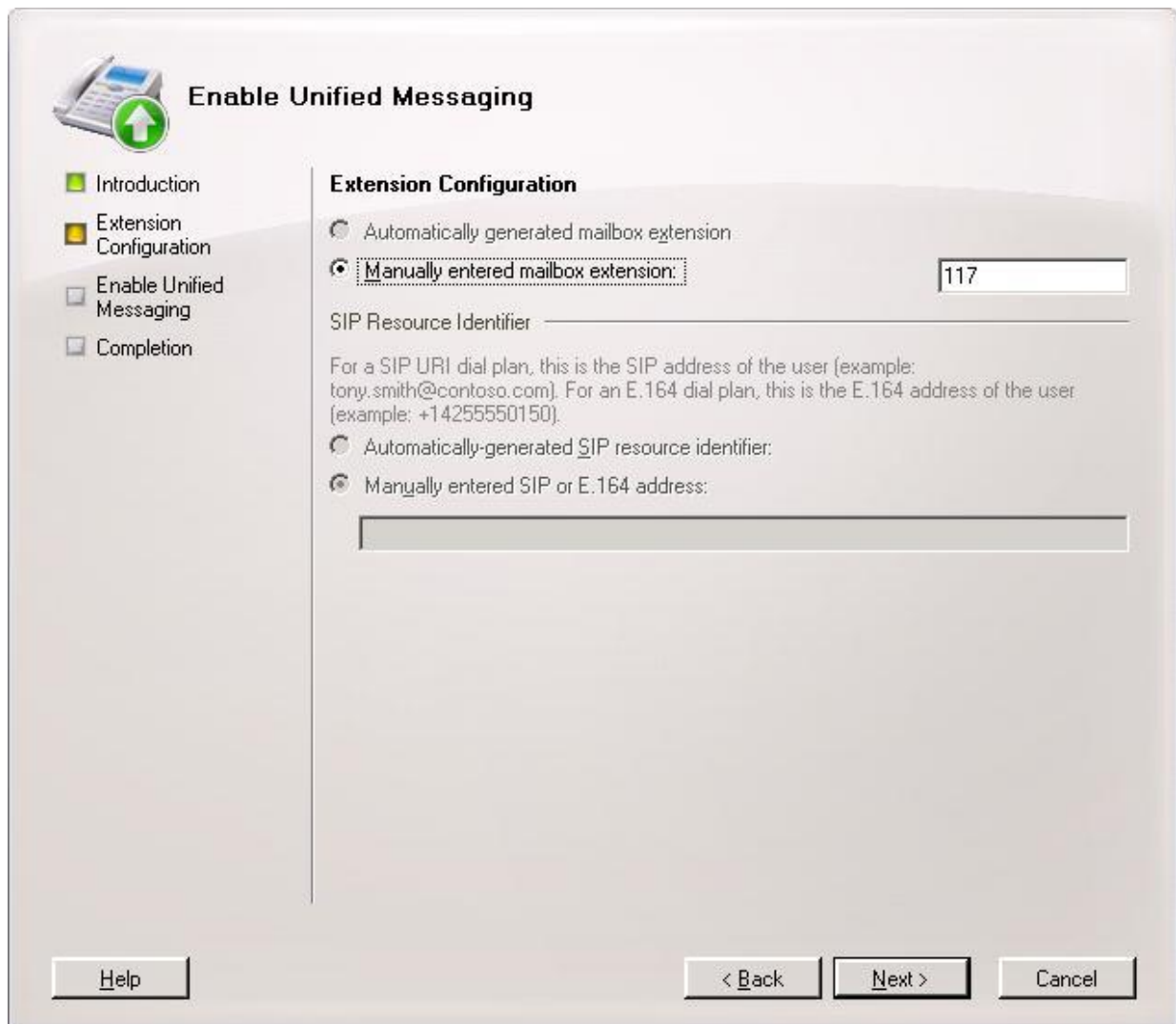




Next on unified messaging mailbox policy click the browse button and then select the Quadro Default policy. Next manually specify the PIN



then click next and enter a mailbox extension for this user .



The image shows a wizard window titled "Enable Unified Messaging". On the left, there is a navigation pane with four steps: "Introduction" (green square), "Extension Configuration" (yellow square), "Enable Unified Messaging" (grey square), and "Completion" (grey square). The "Extension Configuration" step is active. The main area is titled "Extension Configuration" and contains two radio button options: "Automatically generated mailbox extension" (unselected) and "Manually entered mailbox extension:" (selected). The selected option has a text input field containing "117". Below this is a label "SIP Resource Identifier" followed by a horizontal line. A descriptive text block explains that for a SIP URI dial plan, this is the SIP address of the user (example: tony.smith@contoso.com), and for an E.164 dial plan, this is the E.164 address of the user (example: +14255550150). Below this are two more radio button options: "Automatically-generated SIP resource identifier:" (unselected) and "Manually entered SIP or E.164 address:" (selected). This option has a large empty text input field below it. At the bottom of the window, there are four buttons: "Help", "< Back", "Next >", and "Cancel".

Enable Unified Messaging

- Introduction
- Extension Configuration
- Enable Unified Messaging
- Completion

Extension Configuration

Automatically generated mailbox extension

Manually entered mailbox extension:

SIP Resource Identifier _____

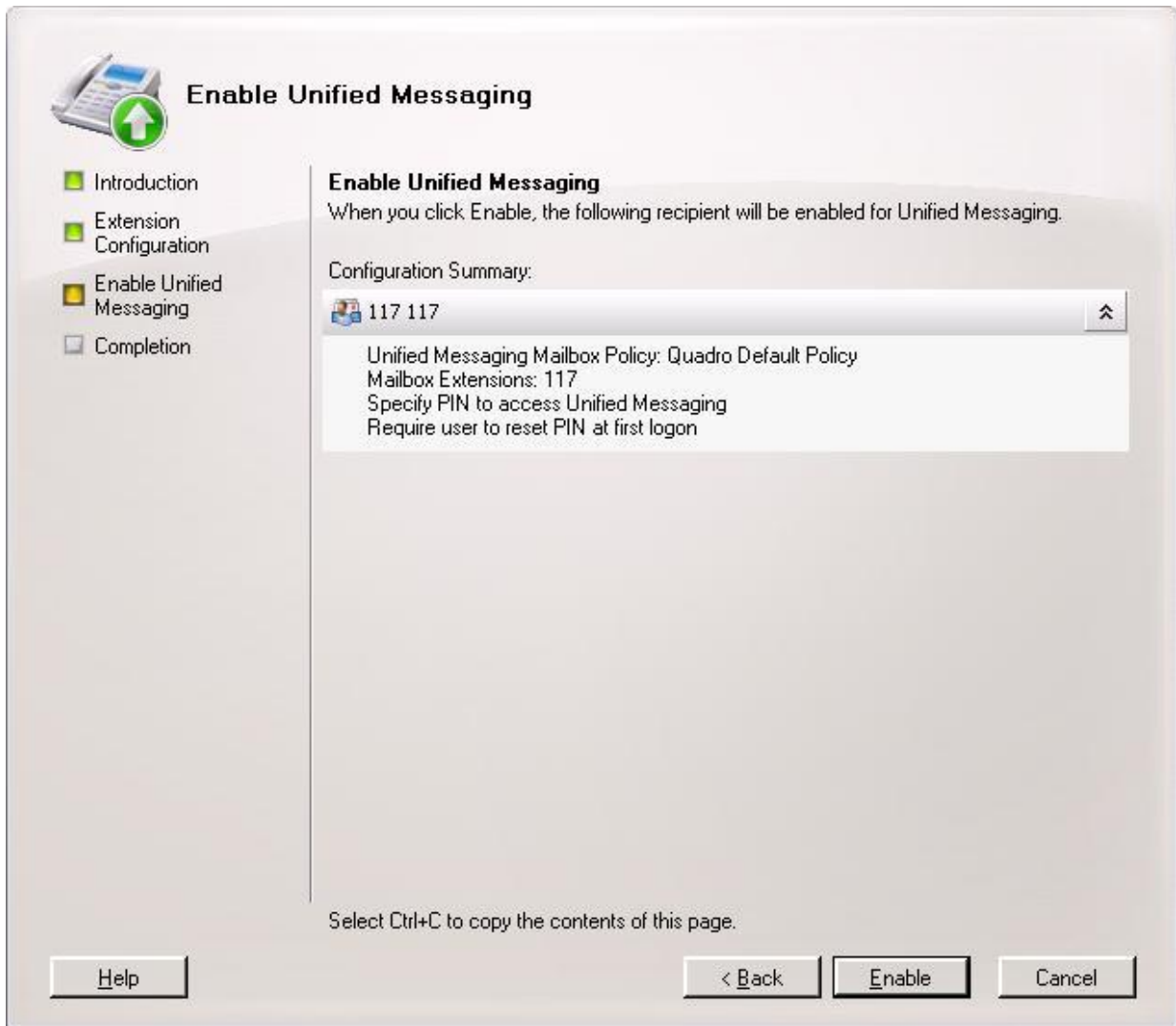
For a SIP URI dial plan, this is the SIP address of the user (example: tony.smith@contoso.com). For an E.164 dial plan, this is the E.164 address of the user (example: +14255550150).

Automatically-generated SIP resource identifier:

Manually entered SIP or E.164 address: _____

Help < Back Next > Cancel

and then click enable and you will have enabled user for Unified Messaging. Repeat this step for each mailbox.



Configuring the Quadro IP PBX for Exchange

For configuring Quadro IP PBX we need to create Call Routing record.

For crating Call routing record we have to navigate to GUI of the Quadro (http://IP_address_of_Quadro)

Then under the “**Telephony-> Call Routing-> Call Routing Table**” we can add new call routing record

Click add and Fill the pattern in our case it is 65* it means that if we want to dial 112 extension of Exchange we are dialing 65112, and number of discarded symbols will be 2.

q1 - Call Routing Wizard - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://192.168.35.70/lcrwizard.cgi

Quadro 192.168.35.70 Quadro E1/T1 192.1...

Main System Users Telephony Internet Uplink Network

epygi

Call Routing Wizard

Routing Call Type - Edit Entry

Pattern: (wildcard supported) Enabler Key:

Number of Discarded Symbols: Disabler Key:

Prefix:

Suffix:

Call Type: ▼ Require Authorization for Enabling/Disabling

Metric:

Description:

Filter on Caller / Call Type / Modify Caller ID

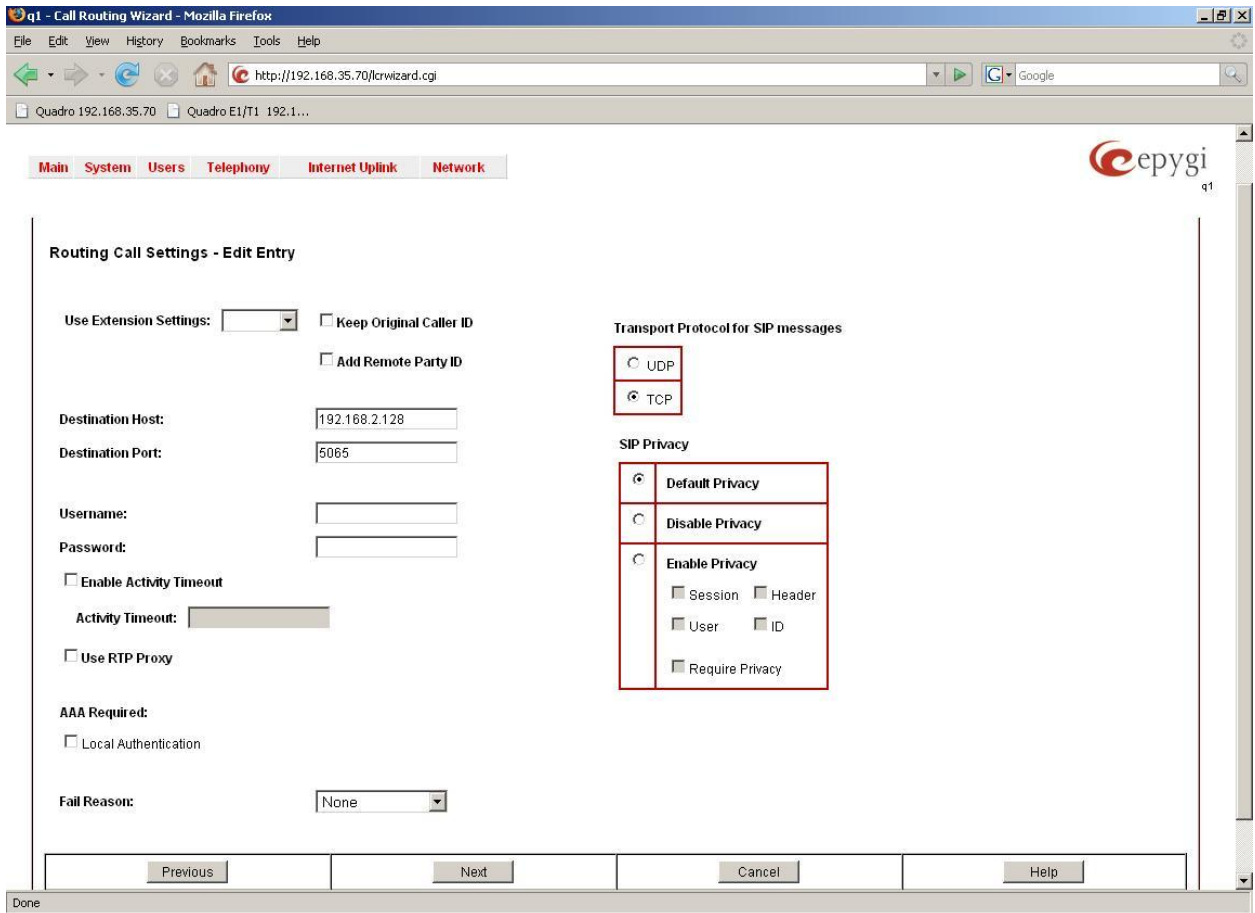
Set Date/Time Period(s)

Please check your pending events!

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Done

Destination host is the IP address of the Exchange server and the destination port is the SIP port of Exchange 2007, Transport protocol for SIP messages must be TCP.



Then click "Next" and "Finish".

q1 - Call Routing Wizard - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://192.168.35.70/lcrwizard.cgi

Quadro 192.168.35.70 Quadro E1/T1 192.1...

Main System Users Telephony Internet Uplink Network

epygi

Call Routing Wizard

Summary - Edit Entry

Routing Call Type	Routing Call Settings
Pattern: 65*	Use Extension Settings:
Number of Discarded Symbols: 2	Keep Original Caller ID: No
Prefix:	Add Remote Party ID: No
Suffix:	Destination Host: 192.168.2.128
Call Type: SIP	Destination Port: 5065
Metric: 10	Username:
Description:	Transport Protocol for SIP: TCP
	SIP Privacy: Default
	Use RTP Proxy: No
	Activity Timeout: Disabled
	AAA Required: AAA disabled.
	Fail Reason: None

Please check your pending events!

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Done

Now we have completed the configuration of Call Routing rules and we can dial 65 and plus the extension of Exchange for example 113 and we will get to the prompt of the Exchange server.