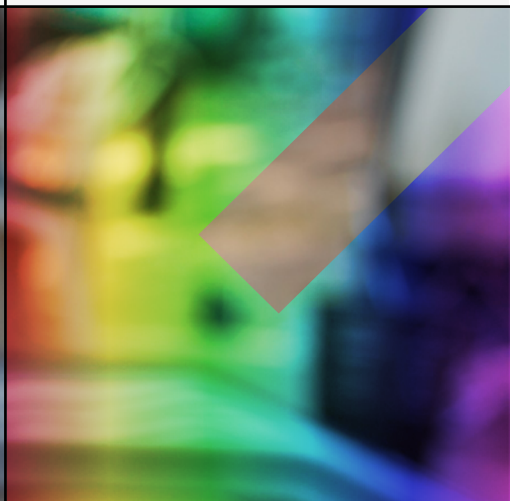


Porta  Switch™



**PortaSwitch Handbook:
Unified Communications**
Maintenance Release 20

Copyright Notice & Disclaimers

Copyright © 2001-2009 PortaOne, Inc. All rights reserved.

**PortaSwitch Handbook: Unified Communications
V.1.20.3, September 2009**

Please address your comments and suggestions to: Sales Department,
PortaOne, Inc. Suite #408, 2963 Glen Drive, Coquitlam BC V3B 2P7
Canada.

Changes may be made periodically to the information in this publication. Such changes will be incorporated in new editions of the guide. The software described in this document is furnished under a license agreement, and may be used or copied only in accordance with the terms thereof. It is against the law to copy the software on any other medium, except as specifically provided in the license agreement. The licensee may make one copy of the software for backup purposes. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopied, recorded or otherwise, without the prior written permission of PortaOne, Inc.

The software license and limited warranty for the accompanying products are set forth in the information packet supplied with the product, and are incorporated herein by this reference. If you cannot locate the software license, contact your PortaOne representative for a copy.

All product names mentioned in this manual are for identification purposes only, and are either trademarks or registered trademarks of their respective owners.

Table of Contents

Preface 4

1. Setting up and Using UM Services 5

 Checklist..... 6

 Initial Configuration of PortaBilling 7

 Create Special UM Destinations 7

 Associate Access Numbers with Applications..... 9

 Create Nodes 11

 Create Tariff 13

 Enter Rates 14

 Modify Products 18

 Create an Internal Vendor 20

 Define Connections..... 21

 Create Accounts..... 22

 Setting up and Using Prepaid IVR on PortaUM 26

2. Setting up and Using Conferencing Services..... 31

 Checklist..... 32

 General Configuration..... 34

 Add a Symbolic Destination..... 34

 Associate Access Numbers with Applications..... 35

 Create a PortaBridge Node..... 36

 Create a Conferencing Charge Tariff 38

 Enter Rates 39

 Modify Tariffs for SIP Users..... 40

 Add the Conferencing Service to Your Product..... 42

 Create a Call Routing Tariff and Add Rates..... 44

 Create an Internal Vendor 46

 Define Connections..... 47

 Enable the Conferencing Service for an Account 49

 Schedule a Conference..... 50

 Test a Conference..... 53

Preface

This document shows how you can start offering unified messaging services with PortaUM and conferencing services with PortaBridge. Please refer to the [PortaUM Administrator Guide](#) for a general overview of the PortaUM system and an explanation of the PortaBridge architecture.

Where to Get the Latest Version of This Guide

The hard copy of this guide is updated at major releases only, and does not always contain the latest material on enhancements occurring between minor releases. The online copy of this guide is always up-to-date, and integrates the latest changes to the product. You can access the latest copy of this guide at www.portaone.com/support/documentation/

Conventions

This publication uses the following conventions:

- Commands and keywords are given in **boldface**
- Terminal sessions, console screens, or system file names are displayed in fixed width font



The **exclamation mark** draws your attention to important information or actions.

NOTE: Notes contain helpful suggestions about or references to materials not contained in this manual.



Timesaver means that you can save time by performing the action described in the paragraph.



Tips provide information that might help you solve a problem.

1 ■ Setting up and Using UM Services

Checklist

Print this page and use it to check off the operations you have completed while performing system setup according to the instructions in this chapter. Please be sure to perform all of the operations (all of the boxes must be checked), otherwise the service will not work.

Operation	Done
General configuration	
General configuration has already been done according to the instructions in PortaSwitch Handbook: SIP Services .	[]
Create destinations for UM services.	[]
Associate access numbers with applications.	[]
Network configuration	
Create a node for your PortaUM server.	[]
Rating configuration	
Add rates for UM destination to tariff A.	[]
Enter rates in tariff A for “ ” wildcard destination.	[]
Create a new accessibility entry in your existing product A, using PortaUM node and tariff A.	[]
Create tariff B, which will define call routing to PortaUM. (Make sure this tariff has the Routing type and the Voice Calls service assigned!)	[]
Enter rates in tariff B for access numbers used for the conferencing service.	[]
Create a connection for your “internal” vendor (the one created in the basic SIP service configuration for handling SIP on-net calls) using tariff B.	[]
Account provisioning	
Enable the conferencing service for an existing account (with product A).	[]

Initial Configuration of PortaBilling

Before proceeding with UM setup, please perform initial system configuration according to the *Setting up Standard SIP Services* chapter in the [PortaSwitch Handbook: SIP Services](#). At this point, all of your destinations, tariffs, products, customers and vendors should already be in the system.


Create Special UM Destinations

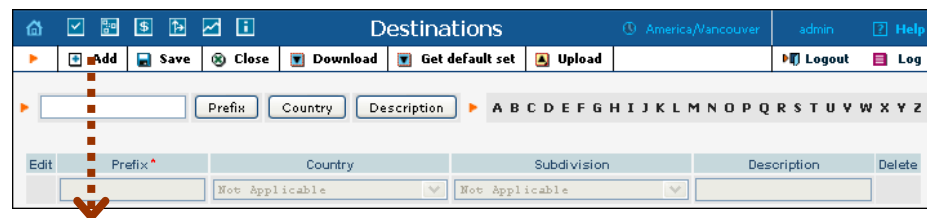
Your subscribers can access UM by two different methods:

- Dialing a special UM number from their SIP phone. Usually this is a non-E.164 number, so it will not overlap with any real phone number the customer might wish to call, e.g. ***98**. Another option for accessing UM is for the end user to dial his own phone number.
- Calling a certain number from the PSTN network. This should be a valid phone number allocated to you by a local telco and accessible to anyone on the PSTN network. If you do not have such a number, your customers will not be able to check their voicemail from a regular phone.

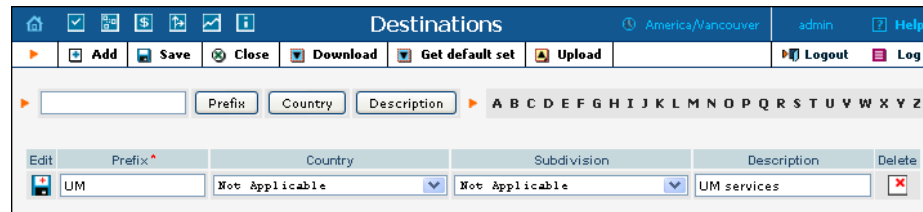


There is no need to create destinations which describe all UM numbers, because you are not going to charge your clients for accessing UM services. The only destinations you need to add to the system are a symbolic 'UM' destination and a wildcard destination with the '|' prefix. Instead of creating many rates for all UM access numbers in the vendor tariff, you can create a single rate using this destination wildcard.



1. In the Management section of Admin-Index, choose **Destinations**.
2. Click on the  **Add** button.




Destinations				
Prefix		Country	Description	
Edit	Prefix *	Country	Subdivision	Description
		Not Applicable	Not Applicable	



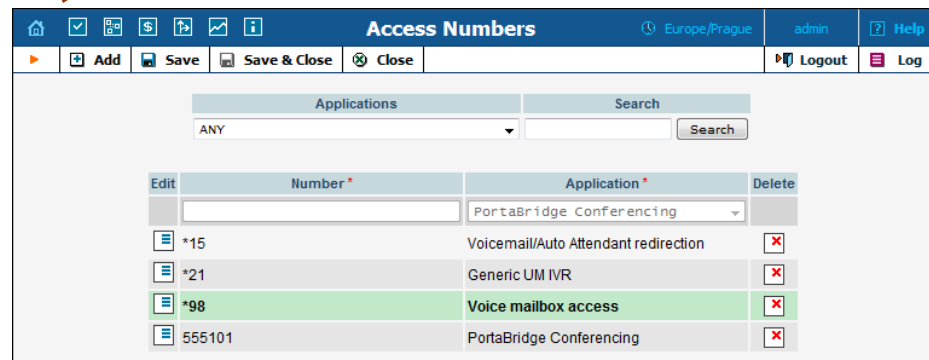
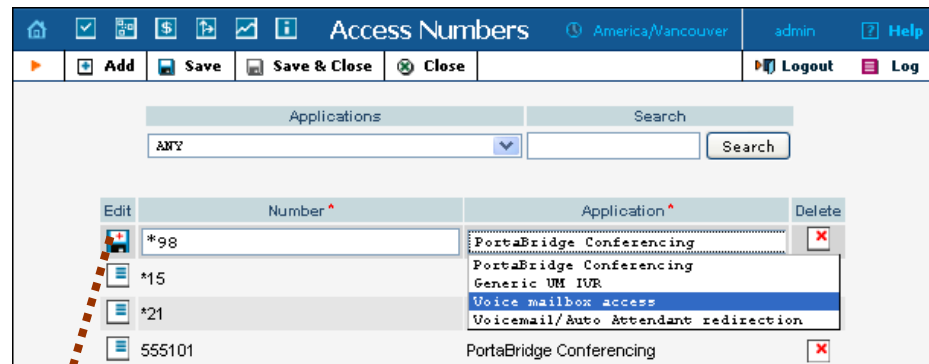
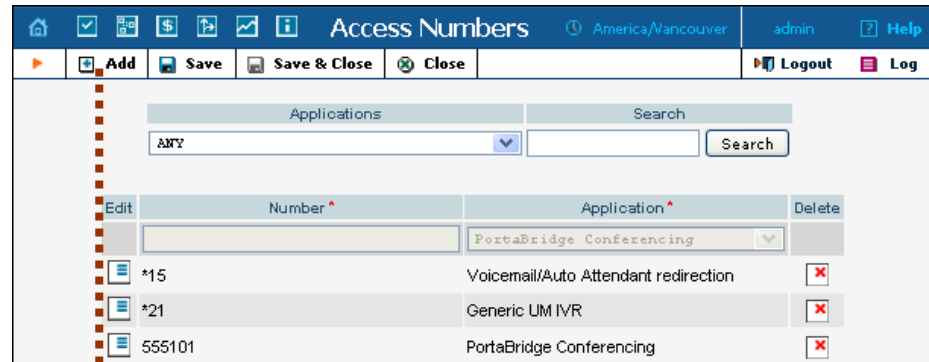
The screenshot shows a web interface titled "Destinations" with a navigation bar containing "Add", "Save", "Close", "Download", "Get default set", "Upload", "Logout", and "Log". Below the navigation bar is a search area with a text input and buttons for "Prefix", "Country", and "Description", followed by a letter index "A B C D E F G H I J K L M N O P Q R S T U V W X Y Z". The main content area is a table with the following structure:

Edit	Prefix *	Country	Subdivision	Description	Delete
	UM	Not Applicable	Not Applicable	UM services	


3. Enter UM for **Prefix** and leave **Not Applicable** for the country and country subdivision. Put a comment in the **Description** column that clearly identifies this as a special prefix assigned to unified messaging.
4. Click  **Save**.
5. Repeat steps 2-4 to add the “|” wildcard destination.

Associate Access Numbers with Applications

You need to define which IVR applications will be launched if customers dial special access numbers from their IP phones or from the PSTN network.



1. In the Routing section of Admin-Index, choose **Access Numbers**.
2. Click on the **Add** button.

3. Enter your UM number in the **Number** field. In the **Application** drop-down box, select the application you want to associate with this access number.
4. Click  **Save**.

Create Nodes

Now you have to enter your PortaUM server and UM gateway (used as the platform for VXML) as nodes. PortaBilling requires some key information about your network equipment, such as IP address, Node ID, Radius shared secret, and so on.

The screenshot shows the 'Node Management' interface. At the top, there are buttons for 'Add' and 'Close'. Below these are input fields for 'Node ID', 'IP', and 'RADIUS Client', along with radio buttons for 'Yes', 'No', and 'All', and a 'Show Nodes' button. A table lists several nodes:

Name	Node ID	IP	Manufacturer	Type	RADIUS Client	Delete
Demo-Cisco	193.28.87.33	193.28.87.33	Cisco	VOIP-GW		
PSTN-GW-NY-01	cisco-gw.mydomain.com	192.168.0.99	Cisco	VOIP-GW		
DemoSIP	demosip.mydomain.com	207.52.37.45	PortaOne	Generic		
Mikrotik-WVFI	mikrotik.local.com	192.168.0.214	Mikrotik	ROUTER		
PortaSIP	test.demo	193.28.1.1	PortaOne	Generic		

The screenshot shows the 'Add Node' form. The 'Node Name' is 'PortaUM'. The 'Manufacturer' is 'PortaOne' and the 'Type' is 'PortaUM'. Under 'Node info', the 'Node ID' is 'portaum.local.com' and the 'NAS-IP-Address' is '60.12.34.77'. On the right side, 'RADIUS Client' is checked, 'RADIUS Key' is 'PortaUM', 'RADIUS Source IP' is '60.12.34.77', and 'RADIUS Dictionary' is 'Cisco'. There is an 'Auto' button next to the RADIUS Key field.

Submitted information is being cached in the billing engine and will not take effect immediately. Default caching time is 10 minutes. Please contact your system administrator for more information.

OK

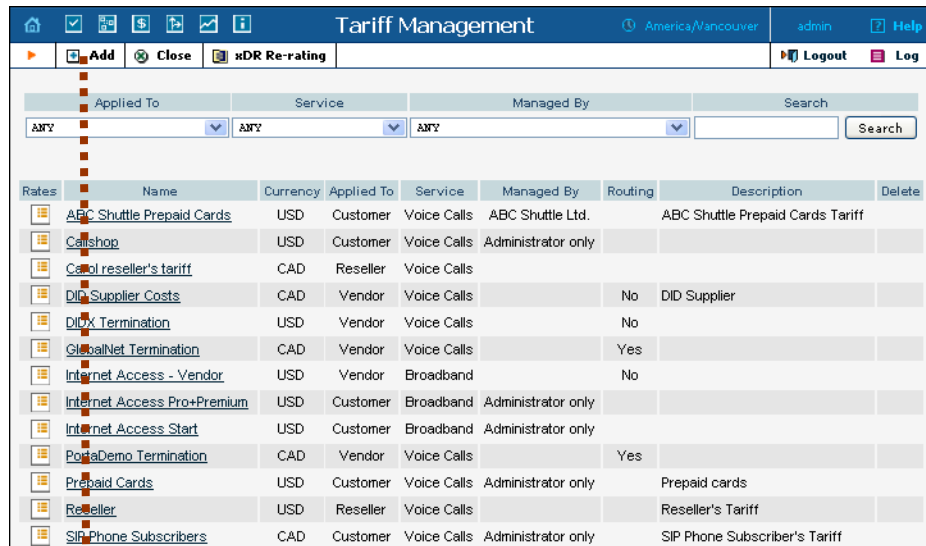
Name	Node ID	IP	Manufacturer	Type	RADIUS Client	Delete
Demo_Cisco	193.28.87.33	193.28.87.33	Cisco	VOIP-GW	<input type="checkbox"/>	
PSTN-GW-NY-01	cisco-gw.mydomain.com	192.168.0.99	Cisco	VOIP-GW	<input type="checkbox"/>	
DemoSIP	demosip.mydomain.com	207.52.37.45	PortaOne	Generic	<input type="checkbox"/>	
Mikrotik_VWi	mikrotik.local.com	192.168.0.214	Mikrotik	ROUTER	<input type="checkbox"/>	
PortaUM	portaum.local.com	60.12.34.77	PortaOne	PortaUM	<input checked="" type="checkbox"/>	
PortaSIP	test.demo	193.28.1.1	PortaOne	Generic	<input type="checkbox"/>	

1. In the Networking section of the Admin-Index page, choose **Nodes**.
2. In the Node Management window, click **Add** icon.
3. Fill in the New Node form:
 - **Node Name** – A short descriptive name for your UM server or gateway (this will be used in the select menus).
 - **Manufacturer** – Select **PortaOne**.
 - **Type** – Node type; select **PortaUM**.
 - **Node ID** – The PortaUM server's hostname (recommended: `hostname.domainname`)
 - **NAS-IP-Address** – IP address of the UM gateway or PortaUM server.
 - **Auth. Translation rule** – You can just leave this empty.
 - **Radius Client** – Check this, since both PortaUM and the UM gateway will need to communicate with the billing.
 - **Radius Key** – Enter the radius shared secret here; must be the same **key** as you entered during PortaUM installation.
 - **Radius Source IP** – See the *Node ID, NAS IP address, and Radius source IP* section in the **PortaBilling Administrator Guide** for more information. Unless your PortaUM server uses multiple network interfaces, the value here should be the same as the NAS-IP-Address.
 - **POD Server** – Leave this unchecked for now.
4. Click **Save&Close**.

NOTE: There is some propagation delay between the database and the Radius server configuration file, but no more than 15 minutes.

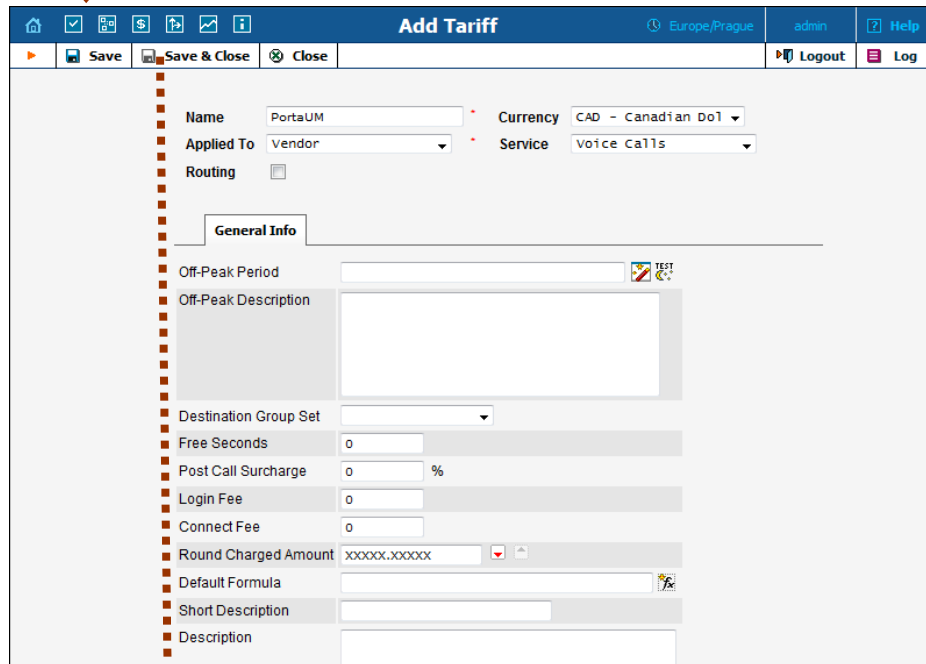
Create Tariff

You have already created all the necessary tariffs (for your customers and vendors) when setting up SIP services. Only one thing remains to be done, i.e. creating a special UM tariff which will be used for routing calls to the UM gateway.



Applied To	Service	Managed By	Search
AMV	AMV	AMV	<input type="text"/> Search

Rates	Name	Currency	Applied To	Service	Managed By	Routing	Description	Delete
	ABC Shuttle Prepaid Cards	USD	Customer	Voice Calls	ABC Shuttle Ltd.		ABC Shuttle Prepaid Cards Tariff	
	Callshop	USD	Customer	Voice Calls	Administrator only			
	Canada reseller's tariff	CAD	Reseller	Voice Calls				
	DID Supplier Costs	CAD	Vendor	Voice Calls		No	DID Supplier	
	DIDX Termination	USD	Vendor	Voice Calls		No		
	GlobalNet Termination	CAD	Vendor	Voice Calls		Yes		
	Internet Access - Vendor	USD	Vendor	Broadband		No		
	Internet Access Pro+Premium	USD	Customer	Broadband	Administrator only			
	Internet Access Start	USD	Customer	Broadband	Administrator only			
	PortaDemo Termination	CAD	Vendor	Voice Calls		Yes		
	Prepaid Cards	USD	Customer	Voice Calls	Administrator only		Prepaid cards	
	Reseller	USD	Reseller	Voice Calls			Reseller's Tariff	
	SIP Phone Subscribers	CAD	Customer	Voice Calls	Administrator only		SIP Phone Subscriber's Tariff	



Add Tariff Europe/Prague admin Help

Save Save & Close Close Logout Log

Name: Currency:

Applied To: Service:

Routing:

General Info

Off-Peak Period:

Off-Peak Description:

Destination Group Set:

Free Seconds:

Post Call Surcharge: %

Login Fee:


Connect Fee:



Round Charged Amount:

Default Formula:

Short Description:

Description:

Tariff Management								
Applied To	Service	Managed By		Search				
ANY	ANY	ANY				Search		
Rates	Name	Currency	Applied To	Service	Managed By	Routing	Description	Delete
	ABC Shuttle Prepaid Cards	USD	Customer	Voice Calls	ABC Shuttle Ltd.		ABC Shuttle Prepaid Cards Tariff	
	Callshop	USD	Customer	Voice Calls	Administrator only			
	Carol reseller's tariff	CAD	Reseller	Voice Calls				
	Conferencing	CAD	Customer	Conferencing	Administrator only			
	DID Supplier Costs	CAD	Vendor	Voice Calls		No	DID Supplier	
	DIDX Termination	USD	Vendor	Voice Calls		No		
	GlobalNet Termination	CAD	Vendor	Voice Calls		Yes		
	Internet Access - Vendor	USD	Vendor	Broadband		No		
	Internet Access Pro+Premium	USD	Customer	Broadband	Administrator only			
	Internet Access Start	USD	Customer	Broadband	Administrator only			
	PortaDemo Termination	CAD	Vendor	Voice Calls		Yes		
	PortaUM	CAD	Vendor	Voice Calls		No		
	Prepaid Cards	USD	Customer	Voice Calls	Administrator only		Prepaid cards	
	Prepaid Service	CAD	Customer	Voice Calls	Administrator only			
	Reseller	USD	Reseller	Voice Calls			Reseller's Tariff	
	SIP Phone Subscribers	CAD	Customer	Voice Calls	Administrator only		SIP Phone Subscriber's Tariff	

1. In the Billing section of the Admin-Index, choose **Tariffs**.
2. On the Tariff Management page, choose  **Add**.
3. Fill in the New Tariff form. The most important fields are the following (leave the rest of the form empty):
 - o **Name** – A short name for the tariff object. This is the name you will see later in the select menus.
 - o **Currency** – Since this is a “fake” tariff, just choose the same currency as your **Base Currency**.
 - o **Applied To** – Choose a **Vendor** here and uncheck the **Routing** check-box below this field.
 - o **Service** – Choose **Voice Calls** here.
4. Click  **Save&Close**.

Enter Rates

Modifying Tariffs for SIP Users

First of all, you should make sure that your customers are allowed to call voicemail. In order to do so, you should add a rate for calling the special voicemail number into the tariffs used for your SIP subscribers.

Tariff Management

Applied To: Service: Managed By: Search:

Rates	Name	Currency	Applied To	Service	Managed By	Routing	Description	Delete
	ABC Shuttle Prepaid Cards	USD	Customer	Voice Calls	ABC Shuttle Ltd.		ABC Shuttle Prepaid Cards Tariff	
	Callshop	USD	Customer	Voice Calls	Administrator only			
	Carol reseller's tariff	CAD	Reseller	Voice Calls				
	DID Supplier Costs	CAD	Vendor	Voice Calls		No	DID Supplier	
	DIDX Termination	USD	Vendor	Voice Calls		No		
	GlobalNet Termination	CAD	Vendor	Voice Calls		Yes		
	Internet Access - Vendor	USD	Vendor	Broadband		No		
	Internet Access Pro+Premium	USD	Customer	Broadband	Administrator only			
	Internet Access Start	USD	Customer	Broadband	Administrator only			
	PortaDemo Termination	CAD	Vendor	Voice Calls		Yes		
	PortaUM	USD	Vendor	Voice Calls		Yes	PortaUM	
	Prepaid Cards	USD	Customer	Voice Calls	Administrator only		Prepaid cards	
	Reseller	USD	Reseller	Voice Calls			Reseller's Tariff	
	SIP Phone Subscribers	CAD	Customer	Voice Calls	Administrator only		SIP Phone Subscriber's Tariff	

Rates for tariff 'SIP Phone Subscribers'

Effective From: Destination:


Edit	Destination	Country	Description	Interval, second		Price, CAD/minute		Effective From YYYY-MM-DD HH24:MI:SS	Delete
				First*	Next*	First*	Next*		
	UM			Peak: 1	Off-Peak: 1	0	0	immediately	

Rates for tariff 'SIP Phone Subscribers'

Effective From: Destination:

Edit	Destination	Country	Description	Interval, second		Price, CAD/minute		Effective From YYYY-MM-DD HH24:MI:SS	Delete
				First*	Next*	First*	Next*		
	UM	Not Applicable	Internal UM destination	Peak: 1	Off-Peak: 1	0.00000	0.00000	2009-08-10 07:07:14	
	VOICEONNET	Not Applicable	SIP to SIP destination	Peak: 1	Off-Peak: 1	0.00000	0.00000	2009-07-06 04:49:08	
	VOICEVPN	Not Applicable	Customer's IP Centrex	Peak: 60	Off-Peak: 60	0.00000	0.00000	2009-07-06 04:37:21	
	38044	UKRAINE	Ukraine - Kiev	Peak: 1	Off-Peak: 1	0.12000	0.11000	2009-06-30 05:43:20	
	1866	UNITED STATES OF AMERICA	US and Canada	Peak: 1	Off-Peak: 1	0.00100	0.00000	2009-07-01 09:44:10	

1. On the Tariff Management page you will see a list of the available tariffs. Click the **Rates** icon next to the name of a tariff. When you are in Tariff Management for a particular tariff, click on **Rates** in the toolbar.
2. On the **Edit Rates** screen, click **Add**.

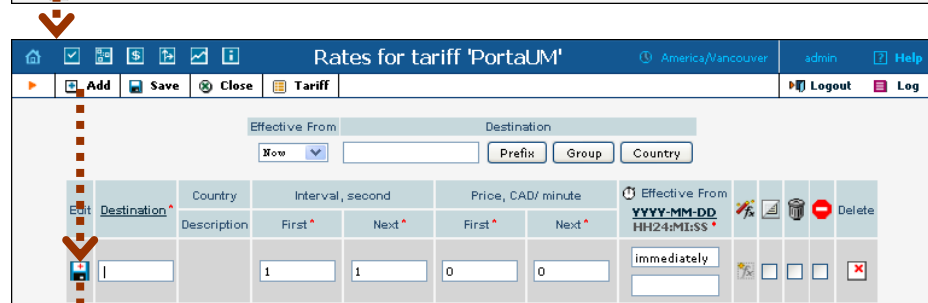
3. Insert **UM** in the **Destination** field. Leave other fields in the form as they are, because there is no need to define prices for calling voicemail.
4. Click the **Save** button in the toolbar or the  icon on the left side of the row.
5. Click **Close** to return to the Tariff Management screen.

Adding Rates for UM Vendor Tariff

1. On the Tariff Management page you will see a list of the available tariffs. Click the **Rates** icon next to the name of the UM vendor tariff.

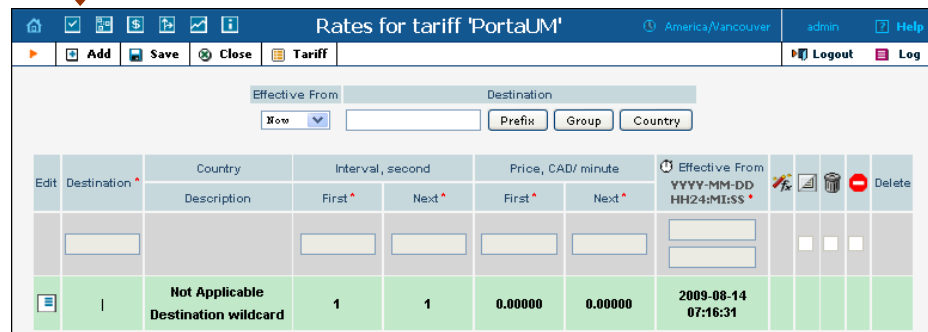


Rates	Name	Currency	Applied To	Service	Managed By	Routing	Description	Delete
	DID Supplier Costs	CAD	Vendor	Voice Calls	Managed By	No	DID Supplier	
	DIDX Termination	USD	Vendor	Voice Calls		No		
	GlobalNet Termination	CAD	Vendor	Voice Calls		Yes		
	PortaDemo Termination	CAD	Vendor	Voice Calls		Yes		
	PortaUM	CAD	Vendor	Voice Calls		Yes	PortaUM	
	Termination to SPT Telecom	USD	Vendor	Voice Calls		Yes		
	Termination to X-Telecom	USD	Vendor	Voice Calls		Yes		



Effective From: Destination:

Edit	Destination *	Country	Interval, second		Price, CAD/ minute		Effective From YYYY-MM-DD HH24:MI:SS *	Delete
			First *	Next *	First *	Next *		
			1	1	0	0	immediately	



Effective From: Destination:

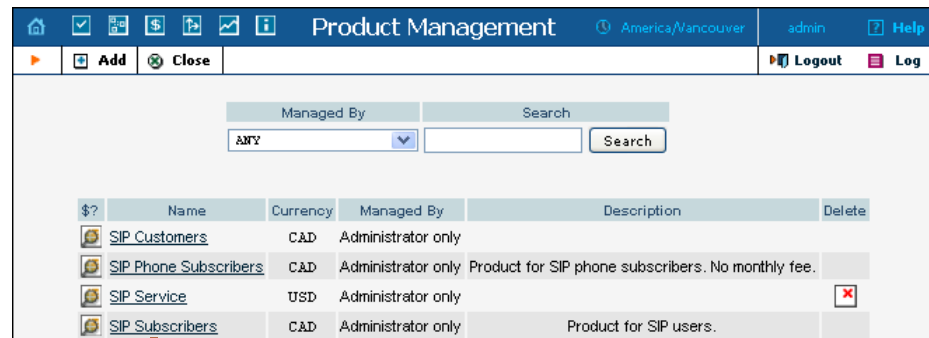
Edit	Destination *	Country	Interval, second		Price, CAD/ minute		Effective From YYYY-MM-DD HH24:MI:SS *	Delete
			First *	Next *	First *	Next *		
		Not Applicable Destination wildcard	1	1	0.00000	0.00000	2009-08-14 07:16:31	

2. On the **Edit Rates** screen, click **Add**.
3. Fill in the required information:
 - o **Destination** – Insert | here.
 - o **Interval First** – Leave the default value.
 - o **Interval Next** – Leave the default value.

- **Price First** – Leave the default value 0.
 - **Price Next** – Leave the default value 0.
 - **Effective From** – Leave **immediately** in this field.
 - The **Hidden, Forbidden** or **Discontinued** flags are optional.
4. Click **Save&Close**.

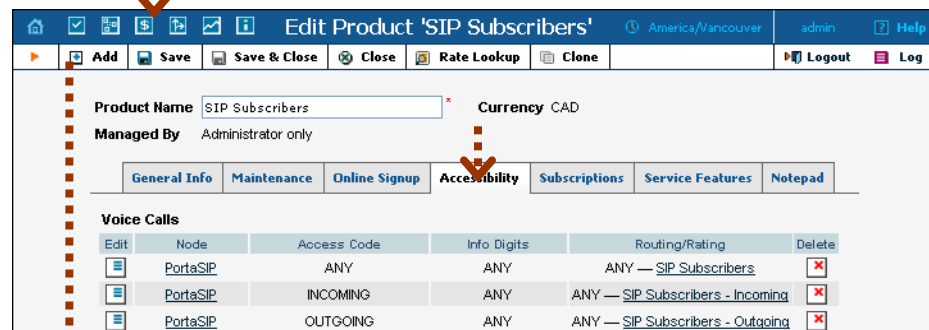
Modify Products

You already created all the necessary products for your customers when setting up SIP services. Only one thing remains to be done, i.e. ensuring that these products are allowed to use UM services. If a product's accessibility includes the PortaUM server, then accounts with this product are permitted to login into UM (via webmail, voicemail, or from their email client).



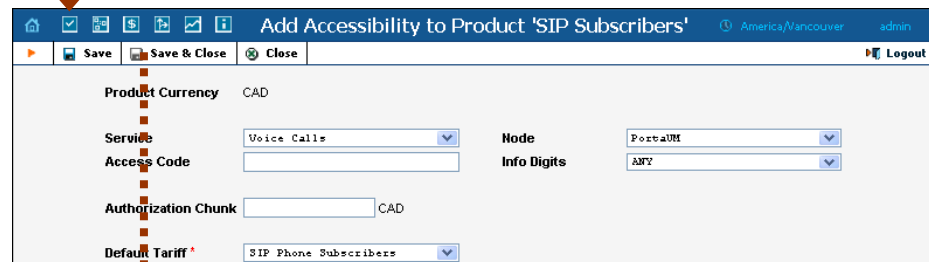
The screenshot shows the 'Product Management' interface. At the top, there are navigation icons and the title 'Product Management'. Below the title, there are buttons for 'Add' and 'Close'. A search bar is present with 'Managed By' set to 'ANY' and a 'Search' button. Below the search bar is a table with columns: Name, Currency, Managed By, Description, and Delete. The table contains four rows of product data.

Name	Currency	Managed By	Description	Delete
SIP Customers	CAD	Administrator only		
SIP Phone Subscribers	CAD	Administrator only	Product for SIP phone subscribers. No monthly fee.	
SIP Service	USD	Administrator only		<input type="checkbox"/>
SIP Subscribers	CAD	Administrator only	Product for SIP users.	<input type="checkbox"/>

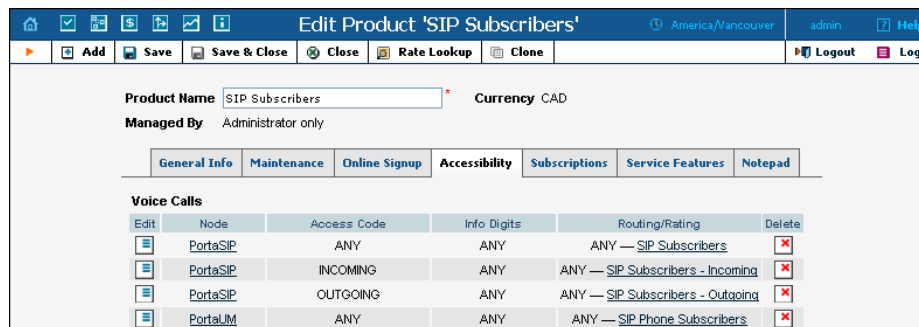


The screenshot shows the 'Edit Product 'SIP Subscribers'' interface. The 'Product Name' is 'SIP Subscribers' and the 'Currency' is 'CAD'. The 'Managed By' is 'Administrator only'. Below this, there are tabs for 'General Info', 'Maintenance', 'Online Signup', 'Accessibility', 'Subscriptions', 'Service Features', and 'Notepad'. The 'Accessibility' tab is selected. Under 'Voice Calls', there is a table with columns: Edit, Node, Access Code, Info Digits, Routing/Rating, and Delete. Three rows are listed, all with 'PortaSIP' as the Node.

Edit	Node	Access Code	Info Digits	Routing/Rating	Delete
<input type="checkbox"/>	PortaSIP	ANY	ANY	ANY — SIP Subscribers	<input type="checkbox"/>
<input type="checkbox"/>	PortaSIP	INCOMING	ANY	ANY — SIP Subscribers - Incoming	<input type="checkbox"/>
<input type="checkbox"/>	PortaSIP	OUTGOING	ANY	ANY — SIP Subscribers - Outgoing	<input type="checkbox"/>



The screenshot shows the 'Add Accessibility to Product 'SIP Subscribers'' interface. It contains several form fields: 'Product Currency' (CAD), 'Service' (Voice Calls), 'Node' (PortaUM), 'Access Code' (empty), 'Info Digits' (ANY), 'Authorization Chunk' (empty), and 'Default Tariff' (SIP Phone Subscribers).



1. In the Billing section of the Admin-Index page, choose **Products**.
2. On the Product Management page, click on the name of the corresponding product.
3. Click on the **Accessibility** tab to edit this product’s accessibility.
4. After the **Accessibility** tab has been selected, click on the **Add** icon.
5. Choose **Voice Calls** in the **Service** select menu.
6. In the **Node** field, select the node which represents your PortaUM server, and choose the appropriate tariff. (The actual tariff is not really important, since users will not be making any calls on the PortaUM server. It is best to choose the same tariff which is used to charge outgoing SIP calls.)
7. Click **Save** to save this accessibility entry.
8. Click **Close** to return to the Product Management page.
9. Repeat steps 2-8 to modify accessibility for all products which will include UM services.

Create an Internal Vendor

In order to route UM calls properly, and also to track statistics for such calls, it is advisable to create a special vendor and not mix it with any real vendors. Or, if you already have a vendor which represents your company (for example, for termination of SIP-to-SIP calls), then skip to **Define Connections**.

1. In the Billing section of the admin interface, choose **Vendors**.
2. On the Vendor Management page, choose **Add**.

3. Fill in the New Vendor form. The most important fields are:

Main form (top):

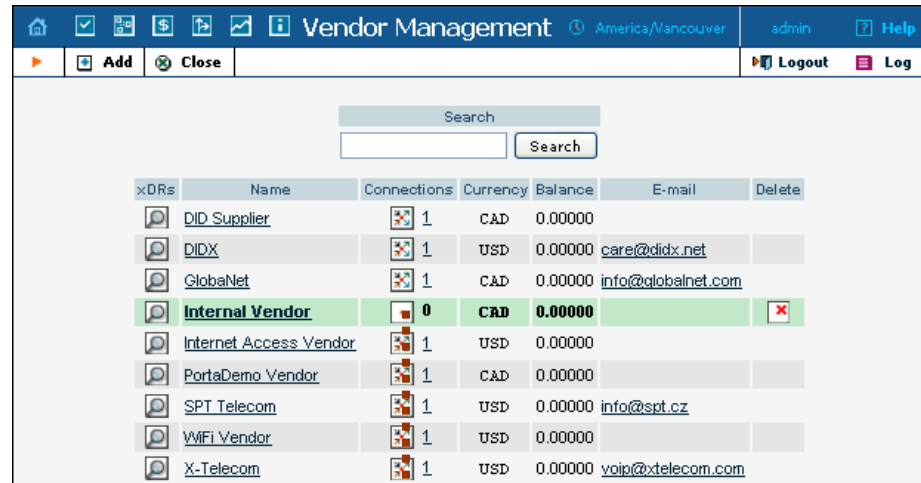
- **Vendor Name** – A short name for the vendor object which will be used on the web interface.
- **Currency** – Enter the currency in which this vendor charges you.
- **Opening balance** – Starting balance for the vendor; the default is zero.

Additional info:

- **Billing period** – Split period for vendor statistics.
4. Click **Save&Close**.

Define Connections

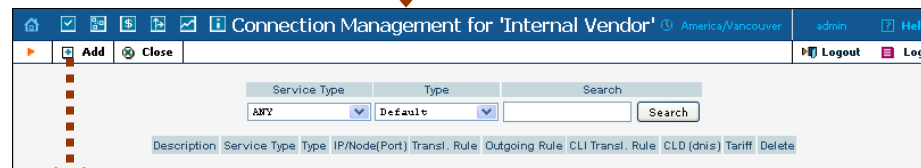
1. In the Billing section of the admin interface, choose **Vendors**.
2. Click on the **Connections** icon next to the name of the vendor you created in the previous step.



Vendor Management

Search

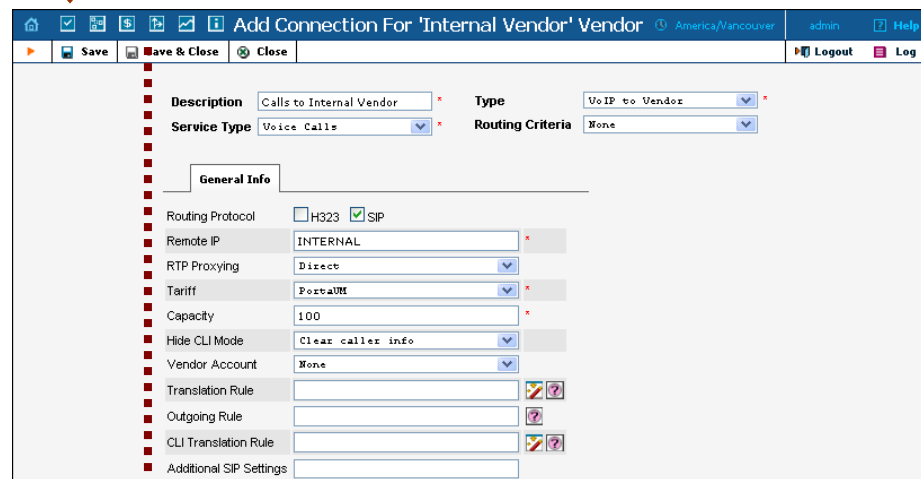
xDRs	Name	Connections	Currency	Balance	E-mail	Delete
	DID Supplier	1	CAD	0.00000		
	DIDX	1	USD	0.00000	care@didx.net	
	GlobaNet	1	CAD	0.00000	info@globalnet.com	
	Internal Vendor	0	CAD	0.00000		
	Internet Access Vendor	1	USD	0.00000		
	PortaDemo Vendor	1	CAD	0.00000		
	SPT Telecom	1	USD	0.00000	info@spt.cz	
	WIFI Vendor	1	USD	0.00000		
	X-Telecom	1	USD	0.00000	vojto@xtelecom.com	



Connection Management for 'Internal Vendor'

Service Type: AMY, Type: Default

Description	Service Type	Type	IP(Node/Port)	Transl. Rule	Outgoing Rule	CLI Transl. Rule	CLD (dnis)	Tariff	Delete
Calls to Internal Vendor	Voice Calls	VoIP to Vendor	INTERNAL					PortaUM	

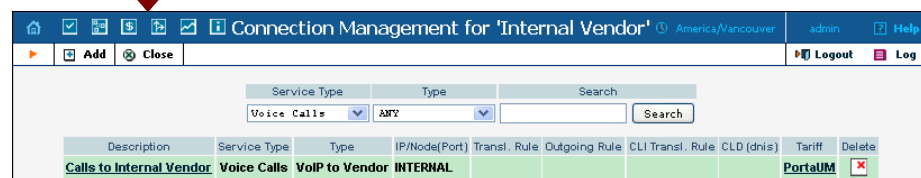


Add Connection For 'Internal Vendor' Vendor

Description: Calls to Internal Vendor * Type: VoIP to Vendor *
 Service Type: Voice Calls * Routing Criteria: None *

General Info


Routing Protocol: H323 SIP
 Remote IP: INTERNAL *
 RTP Proxying: Direct
 Tariff: PortaUM *
 Capacity: 100 *
 Hide CLI Mode: Clear caller info
 Vendor Account: None
 Translation Rule:
 Outgoing Rule:
 CLI Translation Rule:
 Additional SIP Settings:



Connection Management for 'Internal Vendor'

Service Type: Voice Calls, Type: AMY

Description	Service Type	Type	IP(Node/Port)	Transl. Rule	Outgoing Rule	CLI Transl. Rule	CLD (dnis)	Tariff	Delete
Calls to Internal Vendor	Voice Calls	VoIP to Vendor	INTERNAL					PortaUM	

3. Press  **Add** to add a new connection.

4. Choose the **VoIP to Vendor** connection type and **Voice Calls** service type by clicking on the corresponding drop-down menu.
5. Fill in the connection information. Type “INTERNAL” in the **Remote IP** field. Choose the PortaUM tariff you created earlier from the select menu in the **Tariff** column. Enter a comment in **Description**, and give the number of simultaneous calls your UM gateway can handle in **Capacity**.
6. Click **Save&Close**.
7. Click **Close** in order to exit to the Vendor Management screen.

Create Accounts

Creating New Accounts

1. Go to the **Customers** screen (the one containing a list of customers). It should look like the screenshot below.

The first screenshot shows the 'Customer Management' interface. It features a table of customers with columns for Name, Accounts / Subcustomers, Currency, Type, Credit Limit, Balance, and E-mail. A red arrow points to the 'EasyCall Ltd.' row.

Name	Accounts / Subcustomers	Currency	Type	Credit Limit	Balance	E-mail
ABC Shuttle Ltd.		USD	Reseller		0.00000	sales@shuttle-abc.com
Asgard Telecom		USD	Retail		0.00000	info@asgardtelecom.com
Callshop Owner		USD	Reseller		0.00000	
Carol reseller		CAD	Reseller		0.00000	carol@voipservices.net
EasyCall Ltd.		CAD	Retail		10.00000	admin@easycall.com
Gregory		CAD	Retail		0.00000	gregory@example.com
Internet Access		USD	Retail		0.00000	

The second screenshot shows the 'Accounts of Retail Customer 'EasyCall Ltd.' screen. It has a search bar and a 'Show Accounts' button. A red arrow points to the 'Add' button.

The third screenshot shows the 'Add Account for Retail Customer 'EasyCall Ltd.' form. It includes fields for Account ID (4410000010), Product (CAD - SIP Subscribers), Blocked (checkbox), and Opening Balance (0). Below these are tabs for Account Info, User Interface, Subscriber, Additional Info, Life Cycle, Service Features, and Custom Fields. The 'Account Info' tab is active, showing options for Type (Debit, Credit, Voucher), Credit Limit, Service Password, E-mail, and Batch (easycall-um).

Account ID: 4410000010 Product: CAD - SIP Subscribers

Blocked: Opening Balance: 0

Service Type: **Incoming Calls**

UM Enabled: Forward Mode: No Forwarding

Voice VPN: Customer's default Present Caller Info: Disable Call Waiting:



Account ID: 4410000010 Product: CAD - SIP Subscribers

Blocked: Opening Balance: 0

Service Type: **Outgoing Calls**

Set CLI To: Customer's default Preferred IVR Language: en - English

Hide CLI: Customer's default Hide CLI Prefix: Show CLI Prefix: Call Barring Enabled: Default Routing Plan: All Available Routes

2. Next to the customer name, click on the  icon (the one in the **Accounts** column). This will take you to the account management for that customer.
3. Click on  **Add**.
4. Fill in the “Add Account” form:
 - **Account ID** – SIP ID, i.e. the phone number, which will be used to log into the SIP server and receive incoming calls.
 - **Product** – Choose the product which you would like your account to have.
 - **Blocked** – You may create the account as blocked, but this is rarely done with SIP service accounts.
 - **Opening Balance** – The initial balance on the account.

Account Info

- **Type** – Select credit for postpaid and debit for prepaid service.
- **Credit Limit** – For a credit account, specify the credit limit. If you leave this field empty, this means there is no credit limit for this account (but a customer credit limit may still apply).

- **Service Password** – The Account ID and this password will be used to authenticate SIP server login.
- **Email** – Enter the account owner’s email address here. If he ever forgets his password for the web self-care, he will be able to reset it, and a new password will be sent to this email address. You can also leave this field empty.
- **Batch** – A management unit for accounts. The batch name is alphanumeric. You can type a new name here, or use an existing name in order to generate more accounts for the same batch.

User Interface

- **Login** – Account login to web self-care pages; can be the same as account ID.
- **Password** – Password for web self-care pages.
- **Time Zone** – When an account owner (SIP services subscriber) accesses the web self-care pages to view a list of his calls, the time can be shown in the time zone most appropriate for him.
- **Web Interface Language** – The language to be used on the customer’s self-care web interface.

Life Cycle

- **Activation Date** – Account activation date.
- **Expiration Date** – Account expiration date.
- **Life Time** – Relative expiration date; the account will expire on “first usage date” + “lifetime” days. If you do not want to use this feature, leave the field blank.


Service Features

In the **Service Type** column, select **Incoming Calls** under **Voice Calls**.

- **Preferred IVR Language** – This is a custom attribute which is transferred to the IVR. Leave English here if you are unsure whether your IVR supports this function.


Now select **Outgoing Calls**.

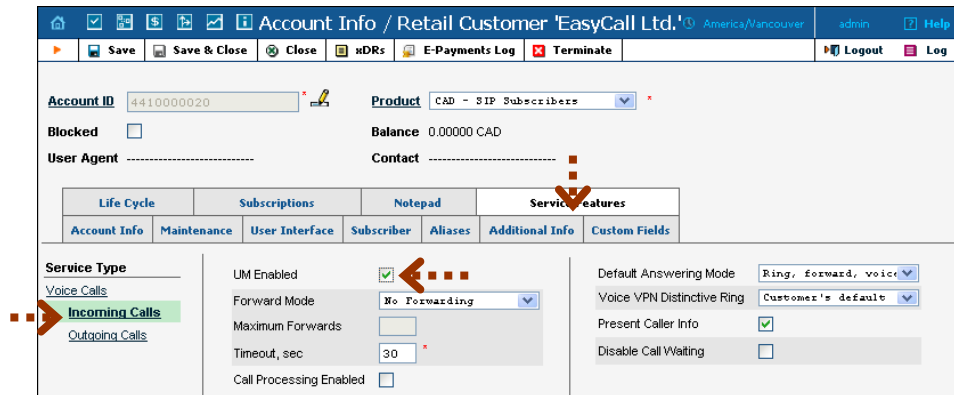
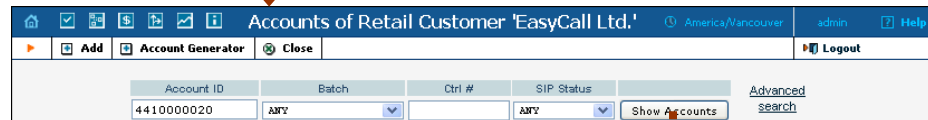
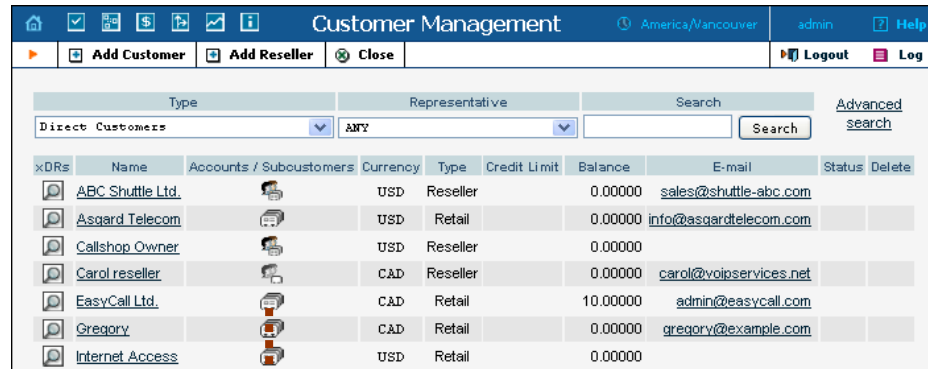
- **UM Enabled** – Check this box if the account has unified messaging services (e.g. voicemail) enabled.

5. Click  **Save&Close**. You will see a confirmation screen saying that a new account has been created.

Enable UM Services for an Existing Account

1. If you are not already there, go to the **Customers** screen (the one containing a list of customers).

2. Next to the customer name, click on the  icon (the one in the **Accounts / Subcustomers** column). This will take you to the account management for that customer.
3. Type the account ID in the **Account ID** field and click on the **Show Accounts** button.



4. Click on the **Service Features** tab.
5. In the **Service Type** column, select **Incoming Calls** under **Voice Calls**.
6. Click on the **UM Enabled** checkbox to activate UM services for this account.
7. Click **Save&Close**.

Setting up and Using Prepaid IVR on PortaUM

Sometimes an incoming call for a prepaid card service will arrive to your network via IP. For instance, say you bought an access number in a country where you do not own any network infrastructure; so instead of using E1 or T1 lines, a telco in that country will forward calls to you using SIP. In this case using a Cisco GW may be cumbersome, since you first have to convert the IP call to PSTN and then send it back via IP. Instead, you can run the built-in prepaid application on PortaUM which, combined with a PSTN access number delivered directly to PortaSIP via IP, allows you to offer a purely IP-based solution for prepaid calling card services.

This chapter assumes that you have already set up UM services as per the previous section, and have verified that they are working.

Configure Prepaid Application

First you need to configure general parameters for the prepaid application in **porta-um.conf**. These include, for instance, the special DNIS that the IVR runs on, the virtual PortaBilling environment where this application is used, languages, and prepaid card length. For a complete overview of the available options, please also consult the inline documentation at **porta-um.conf**.

Set up DNIS number

Set up the DNIS number for the virtual PortaBilling environment where you want to use this application. This uses the following format:

```
Ext<N>=<i_env>:<extension>:<ANI translation rule>
```

where N is a unique arbitrary number. For instance, if the ID of your environment is 1 and the DNIS will be 111222333, you should enter:

```
Ext1=1:111222333:
```

The option of configuring an ANI translation rule for this application will only be available if the parameter `AniAuth` is set to 'yes'.

Of course, you can have multiple entries in order to register the prepaid application on more than one internal DNIS mailbox. This allows you to run the application in multiple environments, on multiple access numbers, and/or with potentially different languages or ANI translation rules,

according to your requirements. Just register these additional extensions as “Ext2”, “Ext3”, and so on.

Configure languages

Configure which languages should be used for the IVR prompts. This option uses the following format:

```
Languages<N>=<i_env>:dnis_number:<lang_1>/<lang_2>/<lang_3>
```

where N is a unique arbitrary number. For instance, if the ID of your virtual PortaBilling environment is 1, the DNIS is 111222333, and you would like to use Spanish voice prompts, you should enter:

```
Languages1=1:111222333:es:
```

where N is a unique arbitrary number. You can also configure more than one language for the same DNIS, as follows:

```
Languages1=1:111222333:en/ru:
```

In this case, the IVR’s first prompt will be the language selection prompt “Please select 1 for English, 2 for Russian”.

Note: Language IVR files (audio files) must first be uploaded before they can be used in any IVR applications. At the moment, only English prompts are provided by PortaOne, with instructions for adding other languages available upon request.

Configure additional options

Optionally, you can configure any of the following additional parameters.

Parameter	Description
MaxCardLen	Maximum length of card number; default: 11.
MinCardLen	Minimum length of card number; default: 11.
AniAuth	Is ANI authentication enabled? Default: no.
ManualAuth	Is manual authentication enabled? Default: yes.
MaxLoginAttempts	Maximum number of attempts to enter a card number; default: 3.
MaxDialAttempts	Maximum number of dial attempts within one session; default: 3.
TollFreeAllowed	If this parameter is set to ‘false’, the prepaid application will exit immediately if the account has insufficient funds. Default: false.

Configure PSTN access

Once you have configured the prepaid application on PortaUM, you need to give your customers access to it via PSTN. Of course, the DNIS_number that was configured in the first step can already be called from any SIP phone on your network. However, the purpose of this prepaid application will most likely be to give customers access to your network via a PSTN access number.

1. Please follow the instructions in our “PortaSIP Handbook: SIP Services”, specifically section 2, entitled “Setting Up PSTN-to-SIP Services”.
2. Create a service customer and an account with an ‘INTERNAL’ Account ID under this customer:

Since no SIP UA has been registered to this account, the call will go directly to PortaUM.

Restart UM services

Restart UM services so that the changes to porta-um.conf will take effect. To stop or start UM services, use the following commands:

```
sudo /usr/local/etc/rc.d/voice-mail.sh stop
sudo /usr/local/etc/rc.d/voice-mail.sh start
```

PortaBilling Configuration for Prepaid Card Service

You should perform the billing configuration according to the instructions in [PortaBilling100 Handbook: Prepaid Services](#), the only exception being that you will use your PortaUM node instead of a gateway.

Using ANI Authentication for PIN-less Dialing

In order to support PIN-less dialing, the prepaid application can be configured with the parameter `AniAuth` set to 'yes'. If an incoming call matches one of your accounts by ANI, the customer will immediately be asked to enter a call destination, skipping the PIN number entry step.

Using an external ANI for authorization only

You may wish to allow customers to use their account not just by dialing from their registered SIP account (regular ANI authentication) but also from any other kinds of phones (cell phone, regular home phone). In order to successfully authenticate these ANIs, you need to create them as regular accounts under your customers.

However, to prevent PortaBilling from trying to terminate actual calls to these "ANI only" accounts, it is recommended that you adopt a naming convention that allows you to easily distinguish these accounts from your regular SIP accounts and to keep PortaBilling from routing to these accounts.

One suggested naming convention that does all of this is using the prefix 'ani' for your ANI authentication accounts (naturally, you can choose a different prefix as well). For instance, if you would like to allow your customer to use his cell phone with ANI 1604112222 for ANI authentication, you would create the account `ani1604112222` under this customer.

Set up ANI translation rule

If you have adopted a naming convention for external numbers which are to be authenticated by ANI, you need to set up an ANI translation rule in order to successfully authenticate these accounts.

Assuming that the prefix you have chosen is 'ani', you will need to change your prepaid application configuration from:

```
Ext1=1:111222333:
```

to:

```
Ext1=1:111222333:s/^/ani/;
```

The prepaid application will use the incoming ANI, prefixing it with 'ani' and then trying to look up that account in the database.

Using UM Services

PortaUM allows Internet Telephony Service Providers (ITSPs) to offer their subscribers the ability to process emails and manage voicemail from within a web browser or using a favorite email client.

The PortaUM End-User Manual is available from the PortaOne website: www.portaone.com/support/documentation/

PortaUM users can also access their mailbox via a telephony interface, which allows them to listen to voice messages. UM options for accessing the mailbox can also be configured by phone.

2. Setting up and Using Conferencing Services

Please refer to the [PortaBilling100 Web Reference Guide](#) for detailed instructions on how to navigate and operate the web interface, as well as detailed explanations of particular fields.

Checklist

Print the following page and use it to check off the operations you have completed while performing system setup according to the instructions in this chapter. Please be sure to perform all of the operations (all of the boxes must be checked), otherwise the service will not work.

Operation	Done
General configuration	
General configuration has already been done according to the instructions in the PortaSwitch Handbook: Basic SIP Services .	[]
Create a symbolic CONFERENCE destination.	[]
Associate access numbers with applications.	[]
Network configuration	
Create a node for your PortaBridge server.	[]
Rating configuration	
Create tariff A, which will apply to conferencing services used by your customers (make sure this tariff has the Conferencing service assigned!).	[]
Enter rates in tariff A for access numbers used for the conferencing service.	[]
Specify rates for dialing into the conferencing bridge for your “normal” SIP accounts.	[]
Create a new accessibility entry in your existing product A, using the conferencing service, PortaBridge node and tariff A.	[]
Create tariff B, which will define call routing to PortaBridge. (Make sure this tariff has the Routing type and the Conferencing service assigned!)	[]
Enter rates in tariff B for access numbers used for the conferencing service.	[]
Create a connection for your “internal” vendor (the one created in the basic SIP service configuration for handling SIP on-net calls) using tariff B.	[]
Account provisioning	
Enable the conferencing service for an existing account (with product A).	[]
Testing	
Log in to the PortaBridge self-care interface as an account owner and create a new conference.	[]
Dial the conference access number from an IP phone and log in into the conference.	[]

General Configuration

This is identical to the procedure described in the *Setting up Standard SIP Services* chapter in the [PortaSwitch Handbook: SIP Services](#). Please follow the instructions provided there.

Add a Symbolic Destination

You will need to add a symbolic CONFERENCE destination.

The image shows three sequential screenshots of the 'Destinations' management interface. The interface includes a top navigation bar with 'Destinations', 'America/Vancouver', 'admin', and 'Help'. Below the navigation bar are buttons for 'Add', 'Save', 'Close', 'Download', 'Get default set', and 'Upload'. A search bar with 'Prefix', 'Country', and 'Description' filters is present, along with an alphabetical index 'A B C D E F G H I J K L M N O P Q R S T U V W X Y Z'. The 'Edit' section contains fields for 'Prefix', 'Country', 'Subdivision', 'Description', and 'Delete'.

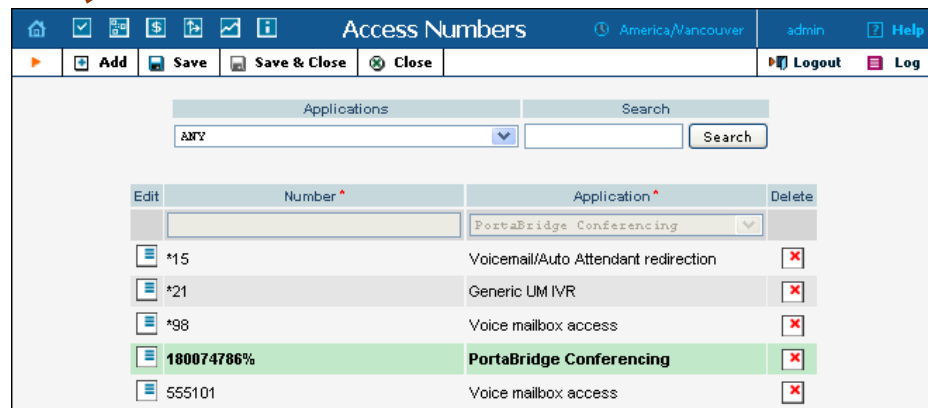
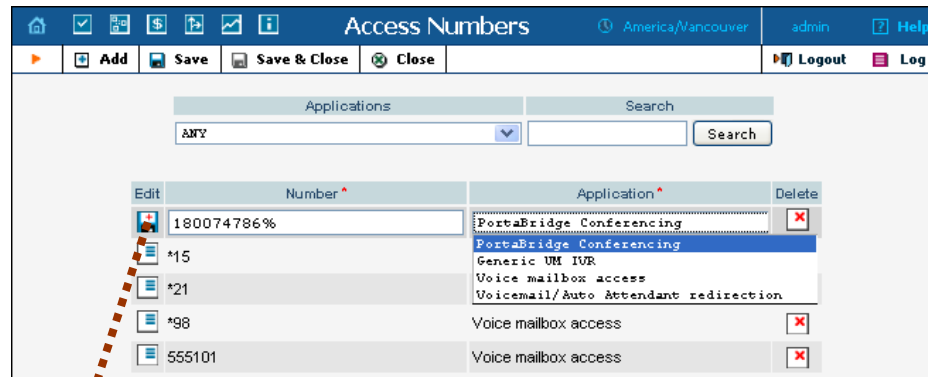
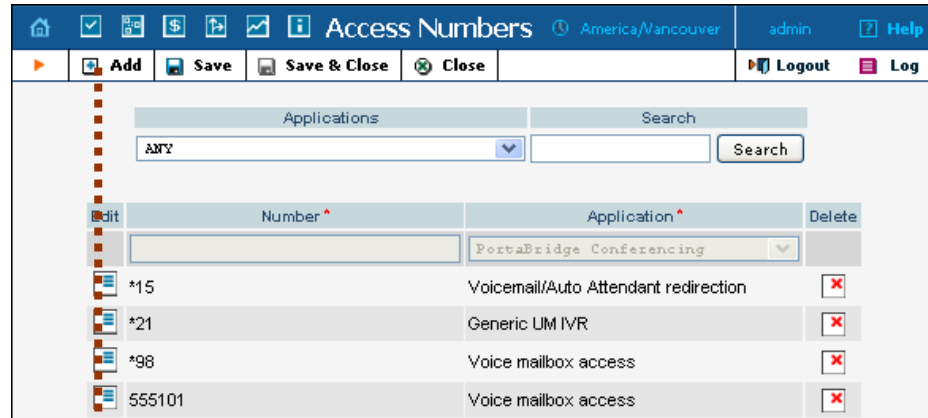
The first screenshot shows the 'Add' button being clicked. The second screenshot shows the 'Add' form with 'CONFERENCE' entered in the 'Prefix' field, 'Not Applicable' in the 'Country' and 'Subdivision' dropdowns, and 'Conferencing' in the 'Description' field. The third screenshot shows the 'CONFERENCE' entry saved and highlighted in green in the main table.

Prefix	Country	Subdivision	Description	Delete
CONFERENCE	Not Applicable	Not Applicable	Conferencing	X



1. In the Management section of Admin-Index, choose **Destinations**.
2. Click on the **Add** button.
3. Enter CONFERENCE for **Prefix**, and leave **Not Applicable** for the country and country subdivision. Put a comment in the **Description** column that clearly identifies this as a special prefix assigned to the conferencing service.
4. Click **Save**.

Associate Access Numbers with Applications

You need to define which application will be launched if your customers dial access numbers to the conferencing service.

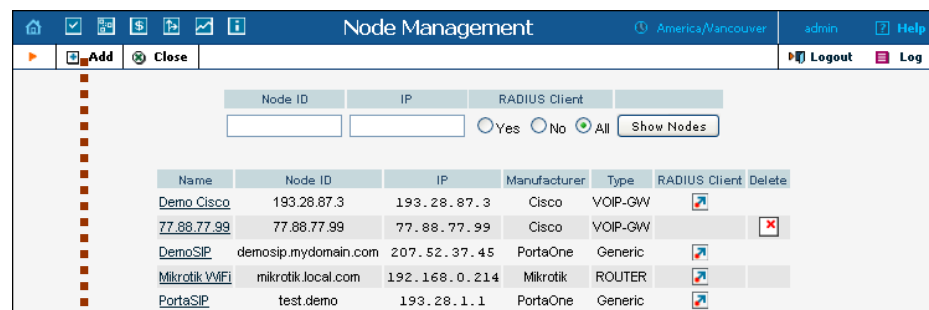


1. In the Routing section of Admin-Index, choose **Access Numbers**.

2. Click on the  **Add** button.
3. In the **Number** field, enter your conferencing number. In the **Application** drop-down box, select **PortaBridge Conferencing**.
4. Click  **Save**.






Create a PortaBridge Node

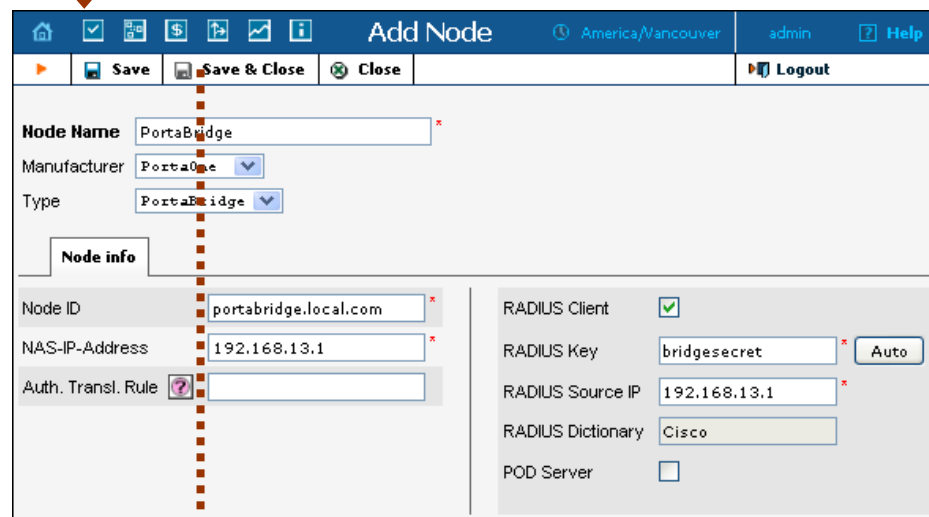
You now need to enter your PortaBridge server as a node. PortaBilling requires some key information about your network equipment, such as the IP address, Node ID, Radius shared secret, and so on.



Node Management

Node ID: IP: RADIUS Client: Yes No All

Name	Node ID	IP	Manufacturer	Type	RADIUS Client	Delete
Demo Cisco	193.28.87.3	193.28.87.3	Cisco	VOIP-GW	<input checked="" type="checkbox"/>	
77.88.77.99	77.88.77.99	77.88.77.99	Cisco	VOIP-GW	<input checked="" type="checkbox"/>	
DemoSIP	demosip.mydomain.com	207.52.37.45	PortaOne	Generic	<input checked="" type="checkbox"/>	
Mikrotik WiFi	mikrotik.local.com	192.168.0.214	Mikrotik	ROUTER	<input checked="" type="checkbox"/>	
PortaSIP	test.demo	193.28.1.1	PortaOne	Generic	<input checked="" type="checkbox"/>	



Add Node

Node Name: *

Manufacturer: *

Type: *

Node info

Node ID: *

NAS-IP-Address: *

Auth. Transl. Rule:

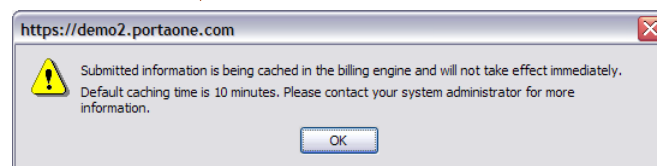
RADIUS Client:

RADIUS Key: *


RADIUS Source IP: *


RADIUS Dictionary:

POD Server:



https://demo2.portaone.com

 Submitted information is being cached in the billing engine and will not take effect immediately. Default caching time is 10 minutes. Please contact your system administrator for more information.

1. In the Networking section of the Admin-Index page, choose **Nodes**.
2. In the Node Management window, click the  **Add** icon.
3. Fill in the New Node form:

- **Node Name** – A short descriptive name for your PortaBridge server (this will be used in the select menus).
 - **Manufacturer** – Select **PortaOne**.
 - **Type** – VoIP node type; select **PortaBridge**.
 - **Node ID** – The PortaBridge server’s hostname (recommended: `hostname.domainname`).
 - **NAS-IP-Address** – The IP address of the PortaBridge server.
 - **Auth. Translation Rule** – Leave this blank.
 - **Radius Client** – Check this, as **PortaBridge** will need to communicate with billing.
 - **Radius Key** – Enter the Radius shared secret here; this must be the same key which you entered during PortaBridge installation.
 - **Radius Source IP** – See the **Node ID, NAS IP Address and Radius Source IP** section in the [PortaBilling Administrator Guide](#) for more information. Unless your PortaBridge server uses multiple network interfaces, the value here should be the same as the NAS-IP-Address.
 - **POD Server** – Leave this unchecked for now.
4. Click **Save&Close**.

NOTE: There is some propagation delay between the database and the Radius server configuration file; however, it will take no longer than 15 minutes.

Create a Conferencing Charge Tariff

This tariff will be used to charge your customers who own a conference (meeting room) for every incoming call to that conference.

The screenshot shows the 'Tariff Management' interface. At the top, there are navigation icons and the title 'Tariff Management'. Below that, there are buttons for 'Add', 'Close', and 'xDR Re-rating'. A search bar is present with 'Applied To', 'Service', and 'Managed By' dropdowns. A table below shows columns for 'Rates', 'Name', 'Currency', 'Applied To', 'Service', 'Managed By', 'Routing', 'Description', and 'Delete'. A red arrow points from the 'Add' button to the 'Add Tariff' form below.

The 'Add Tariff' form has the following fields:

- Name:** Conferencing
- Currency:** CAD - Canadian Doll
- Applied To:** Customer
- Service:** Conferencing
- Managed By:** Administrator only


General Info

- Off-Peak Period: [Empty]
- Off-Peak Description: [Empty]
- Destination Group Set: [Empty]
- Free Seconds: 0
- Post Call Surcharge: 0 %
- Login Fee: 0
- Connect Fee: 0
- Round Charged Amount: XXXXXX.XXXXXX
- Default Formula: [Empty]
- Short Description: [Empty]
- Description: Charges that will be applied to the owner of the meeting room for every connected conference call

1. In the Billing section of the Admin-Index page, choose **Tariffs**.
2. On the Tariff Management page, choose **Add**.
3. Fill in the **Add Tariff** form:
 - **Name** – A short name for the tariff object (this will be used in the select menus).
 - **Currency** – Indicates in which currency pricing information is given. All pricing information for a single tariff must be defined in the same currency.

NOTE: If you plan to bundle the conferencing service with some existing product, this tariff must have the same currency as that product.

- **Applied To** – Choose the **Customer** in the **Applied To** field.
- **Managed By** – Choose **Administrator only** here (this option is only visible after you select **Applied To Customer** above).

- **Service** – Choose **Conferencing** here.
 - The rest of the fields are identical to the tariff configuration for SIP services you performed earlier.
4. Click  **Save**.





Enter Rates



Enter the rates you will charge your customers for conferencing service use. You may charge them a different rate based on access number, e.g. if someone calls a US local access number, the rate is \$0.03/min, while it is \$0.04/min to use a local access number in the UK, and \$0.06/min to use a US toll-free access number.

Managing Rates Online

This is very convenient for maintaining existing rate tables and for reference purposes. For new price lists or major updates, the offline method is better.

The screenshot shows the 'Rates for tariff 'Conferencing'' web interface. The top part shows the 'Add' button highlighted with a red dashed arrow. The bottom part shows the 'Add' button highlighted with a red solid arrow, and the 'Destination' field filled with '1800', 'Interval, second' with '60' and '30', and 'Price, CAD/ minute' with '0.08'.

Edit	Destination *	Country	Interval, second		Price, CAD/ minute		Effective From			
	Description		First *	Next *	First *	Next *	YYYY-MM-DD HH24:MI:SS *			Delete
	1800		60	30	0.08	0.08	immediately			


1. On the Tariff Management page you will see a list of the available tariffs. Click the  **Rates** icon next to the name of the tariff. When you are in Tariff Management for a particular tariff, click on **Rates** in the toolbar.
2. On the **Edit Rates** screen, click .
3. Fill in the required information:
 - **Destination** – A destination prefix may be entered directly, e.g. **55** for Brazil, or you can access the destinations directory by

clicking the **Destination** link (in the column header). Here you can find the desired prefix by country name.



NOTE: The phone prefix you are trying to create a rate for must already exist in Destinations.

- **Interval First** – First billing unit in seconds.
- **Interval Next** – Next billing unit in seconds.
- **Price First** – Per-minute price for first interval.
- **Price Next** – Per-minute price for next interval.
- **Off-peak Interval First**– First billing unit in seconds for off - peak time.
- **Off-peak Interval Next** – Next billing unit in seconds for off-peak time.
- **Off-peak Price First** – Per-minute price for first interval of off-peak time.
- **Off-peak Price Next** – Per-minute price for next interval of off-peak time.

NOTE: Off-peak fields appear only if an **off-peak period** has been defined for the tariff.

- **Rate Formula Wizard**  – Launches the wizard for creating a custom rating formula.
- **Effective From** – If you want this rate to take effect sometime in the future, you can either type in the date manually, or use the calendar (click on **DD-MM-YYYY**).

NOTE: When using the calendar, you can specify that the date you are entering is in a different time zone than your present one. PortaBilling will then automatically adjust the time.

- The **Hidden**, **Forbidden** or **Discontinued** flags are optional.
4. Click the  **Save** button in the toolbar, or the  icon on the left side of the row.
 5. Repeat these steps if you need to enter more rates.

Modify Tariffs for SIP Users

In order for customers to be able to call a conference access number from their IP phones, this needs to be allowed by their tariff plan. Add rates for the CONFERENCE destination you created earlier, as follows:

Rates for tariff 'SIP Phone Subscribers' America/Vancouver admin Help

Effective From: Destination:
New

Edit	Destination *	Country	Description	Interval, second		Price, CAD/ minute		Effective From YYYY-MM-DD HH24:MI:SS *			Delete	
				First *	Next *	First *	Next *					
	<input type="text"/>			Peak Off-Peak	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	CONFERENCE	Not Applicable Conferencing		Peak Off-Peak	1 1	1 1	0.00000 0.00000	0.00000 0.00000	2009-06-14 10:04:57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	UM	Not Applicable UM services		Peak Off-Peak	1 1	1 1	0.00000 0.00000	0.00000 0.00000	2009-08-10 07:07:14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	VOICEONNET	Not Applicable SIP to SIP destination		Peak Off-Peak	1 1	1 1	0.00000 0.00000	0.00000 0.00000	2009-07-06 04:49:08	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	VOICEVPN	Not Applicable Customer's IP Centrex		Peak Off-Peak	60 60	60 60	0.00000 0.00000	0.00000 0.00000	2009-07-06 04:37:21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	38044	UKRAINE Ukraine - Kiev		Peak Off-Peak	1 1	1 1	0.12000 0.11000	0.12000 0.11000	2009-06-30 05:43:20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1866	UNITED STATES OF AMERICA US and Canada		Peak Off-Peak	1 1	1 1	0.00100 0.00000	0.00100 0.00000	2009-07-01 09:44:10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Add the Conferencing Service to Your Product

You need to ensure that your product is allowed to use the conferencing service. This can be done using the product's accessibility. The Accessibility list has two functions: it defines permitted access points (nodes and access numbers) and specifies which tariff should be used for billing in each of these points.

Product Name: Business IP Centrex * Currency: CAD
 Managed By: Administrator only

General Info Maintenance Online Signup **Accessibility** Subscriptions Service Features Notepad

Voice Calls

Edit	Node	Access Code	Info Digits	Routing/Rating	Delete
	Demo Cisco	ANY	ANY	ANY — SIP Phone Subscribers	X

Product Currency: CAD

Service: Conferencing Node: PortaBridge

Access Code: Info Digits: ANY

Authorization Chunk: CAD

Default Tariff: Conferencing

Product Name: Business IP Centrex * Currency: CAD
 Managed By: Administrator only

General Info Maintenance Online Signup **Accessibility** Subscriptions Service Features Notepad


Conferencing

Edit	Node	Access Code	Info Digits	Tariff	Delete
	PortaBridge	ANY	ANY	Conferencing	X

Voice Calls

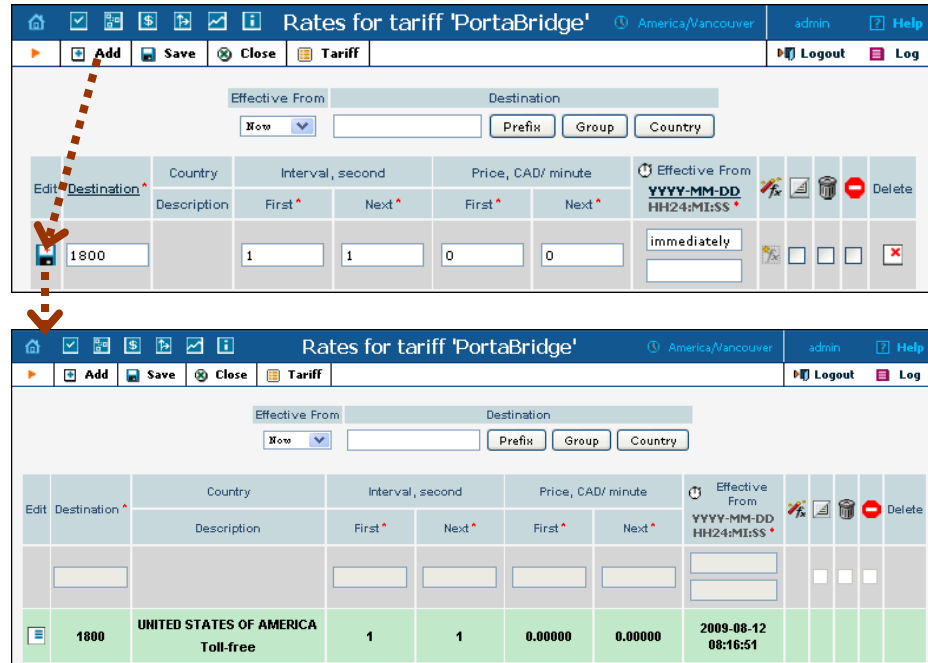
Edit	Node	Access Code	Info Digits	Routing/Rating	Delete
	Demo Cisco	ANY	ANY	ANY — SIP Phone Subscribers	X

1. On the Product Management page, click the product name to enter the **Edit Product** form.
2. When the Accessibility tab is selected, click on the **Add** icon.
3. Choose **Conferencing** in the **Service** drop-down box.
4. Select the PortaBridge node and choose the conferencing tariff you created earlier.
5. The **Access Code** should be left empty for the conferencing service.

6. The **Info Digits** field is not applicable to the conferencing service; just leave it empty.
7. Click  **Save** to save this accessibility entry.

Create a Call Routing Tariff and Add Rates

When a conference bridge is dialed from an IP phone, or an access number from PSTN, and the call arrives to your network, PortaSwitch has to recognize that it should be forwarded to PortaBridge. In order to do this properly, PortaSwitch must be able to determine routing in the same way as it does for any other call in the system. Therefore, there needs to be a routing tariff with a destination matching the dialed number. Later on, this tariff should also be assigned to a connection.



1. In the Billing section of the Admin-Index, choose **Tariffs**.
2. On the Tariff Management page, choose **Add**.
3. Fill in the New Tariff form. The most important fields are the following (leave the rest of the form empty):
 - **Name** – A short name for the tariff object. This is the name you will see later in the select menus.
 - **Currency** – Since this is a “fake” tariff, just choose the same currency as your **Base Currency**.
 - **Applied To** – Choose a **Vendor** here and uncheck the **Routing** check-box below this field.
 - **Service** – Choose **Conferencing** here.
4. Click **Save**.
5. On the **Edit Tariff** screen, click the **Rates** icon.
6. On the **Edit Rates** screen, click **Add**.
7. Fill in the required information:
 - **Destination** – Enter your conferencing destination here.
 - **Interval First** – Leave the default value.
 - **Interval Next** – Leave the default value.
 - **Price First** – Leave the default value 0.
 - **Price Next** – Leave the default value 0.
 - **Effective From** – Leave **immediately**.
 - The **Hidden**, **Forbidden** or **Discontinued** flags are optional.
8. Click **Save&Close**.

Create an Internal Vendor

In order to route conferencing calls properly, and also to track statistics for such calls, it is advisable to create a special vendor and not combine it with any real vendors.

1. In the Billing section of the admin interface, choose **Vendors**.
2. On the Vendor Management page, choose **Add**.

3. Fill in the New Vendor form. The most important fields are:

Main form (top):

- **Vendor Name** – A short name for the vendor object, which will be used on the web interface.
- **Currency** – Enter the currency in which this vendor charges you.
- **Opening balance** – Starting balance for the vendor; the default is zero.

Additional info:

- **Billing period** – Split period for vendor statistics.
4. Click **Save&Close**.

Define Connections

In this step, you will add a new connection to the internal vendor. If you provide both unified messaging and conferencing services, you can use the same internal vendor when setting both services and, for each service type, add its own connection to this vendor.

1. In the Billing section of the admin interface, choose **Vendors**.
2. Click on the **Connections** icon next to the name of the vendor.

The screenshot shows the 'Vendor Management' interface. At the top, there are navigation icons and the text 'Vendor Management' with a location indicator 'America/Vancouver', a user name 'admin', and a 'Help' link. Below this are 'Add' and 'Close' buttons, along with 'Logout' and 'Log' buttons. A search bar is present. The main area contains a table with columns: xDRs, Name, Connections, Currency, Balance, E-mail, and Delete. The table lists several vendors, including 'Internal Vendor'.

xDRs	Name	Connections	Currency	Balance	E-mail	Delete
	DID Supplier	1	CAD	0.00000		
	DIDX	1	USD	0.00000	care@didx.net	
	Globalnet	1	CAD	0.00000	info@globalnet.com	
	Internal Vendor	1	CAD	0.00000		
	Internet Access Vendor	1	USD	0.00000		
	PortaDemo Vendor	1	CAD	0.00000		
	SPT Telecom	1	USD	0.00000	info@spt.cz	
	WiFi Vendor	1	USD	0.00000		
	X-Telecom	1	USD	0.00000	voip@xtelecom.com	

The screenshot shows the 'Connection Management for Internal Vendor' interface. It features a search bar, a 'Service Type' dropdown set to 'AMY', and a 'Type' dropdown set to 'Default'. Below is a table with columns: Description, Service Type, Type, IP(Node/Port), Transl. Rule, Outgoing Rule, CLI Transl. Rule, CLD (dnis), Tariff, and Delete. One entry is visible: 'Calls to Internal Vendor' with Service Type 'Voice Calls', Type 'VoIP to Vendor', and Tariff 'PortaUM'.

Description	Service Type	Type	IP(Node/Port)	Transl. Rule	Outgoing Rule	CLI Transl. Rule	CLD (dnis)	Tariff	Delete
Calls to Internal Vendor	Voice Calls	VoIP to Vendor	INTERNAL					PortaUM	X

The screenshot shows the 'Add Connection For Internal Vendor Vendor' form. It includes fields for 'Description' (set to 'Conferencing calls to vendor'), 'Service Type' (set to 'Conferencing'), and 'Type' (set to 'Default'). A 'General Info' section contains fields for 'Node' (set to 'PortaBridge'), 'Port', 'Tariff' (set to 'PortaBridge'), and 'Capacity' (set to '100').


The screenshot shows the 'Connection Management for Internal Vendor' interface after the new connection has been added. The table now contains two entries: 'Calls to internal vendor' and 'Conferencing calls to vendor'.

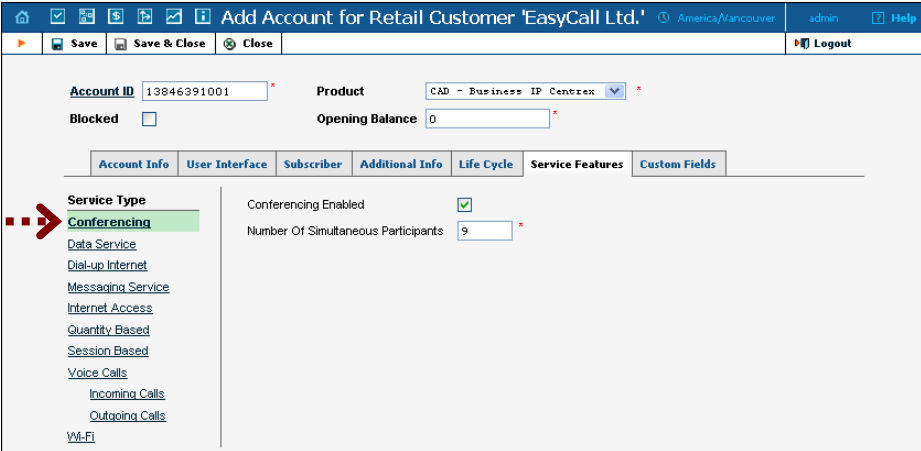
Description	Service Type	Type	IP(Node/Port)	Transl. Rule	Outgoing Rule	CLI Transl. Rule	CLD (dnis)	Tariff	Delete
Calls to internal vendor	Voice Calls	VoIP to Vendor	INTERNAL					PortaUM	X
Conferencing calls to vendor	Conferencing	Default	PortaBridge					PortaBridge	X

3. Press **Add** to add a new connection.

4. Enter a comment in the **Description** field. Choose the **Conferencing** service type by clicking on the corresponding drop-down menu; leave the **Default** type.
5. Fill in the connection information. Select the PortaBridge node and choose the vendor tariff you created earlier from the select menu in the **Tariff** column. Give the number of simultaneous calls the PortaBridge gateway can handle in **Capacity**. Leave the **Port** field blank.
6. Click **Save&Close**.
7. Click **Close** to exit to the Vendor Management screen.

Enable the Conferencing Service for an Account

1. Go to the **Customers** screen (the screen containing a list of customers). It should look like the screenshot below.
2. Next to the customer's name, click on the  icon (in the **Accounts** column). This will take you to account management for that customer.
3. Type an ID in the **Account ID** field and click **Show Accounts**, so that the **Account Info** screen appears. (If you see a list with several accounts, click on the account ID link of the one you wish to edit).



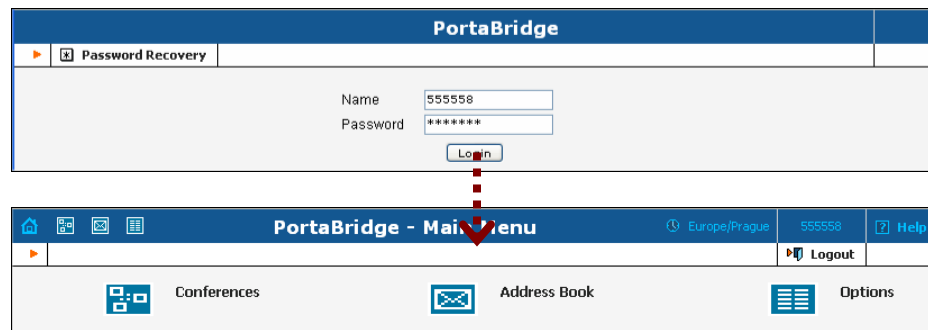
The screenshot displays the 'Add Account for Retail Customer' interface for 'EasyCall Ltd.'. The 'Account ID' is 13846391001 and the 'Product' is 'CAD - Business IP Conferencing'. The 'Blocked' checkbox is unchecked and the 'Opening Balance' is 0. The 'Service Features' tab is active, showing a list of service types on the left and configuration options on the right. The 'Conferencing' service type is selected, and the 'Conferencing Enabled' checkbox is checked. The 'Number Of Simultaneous Participants' is set to 9. A red arrow points to the 'Conferencing' option in the service type menu.

4. Select the **Service Features** tab, then choose the **Conferencing** service from the menu.
5. Tick the **Conferencing Enabled** checkbox and enter the maximum allowed number of participants in the field below.
6. Click **Save&Close** to save the account information.
7. Repeat steps 3-6 if you wish to enable the conferencing service for any other accounts.

Schedule a Conference

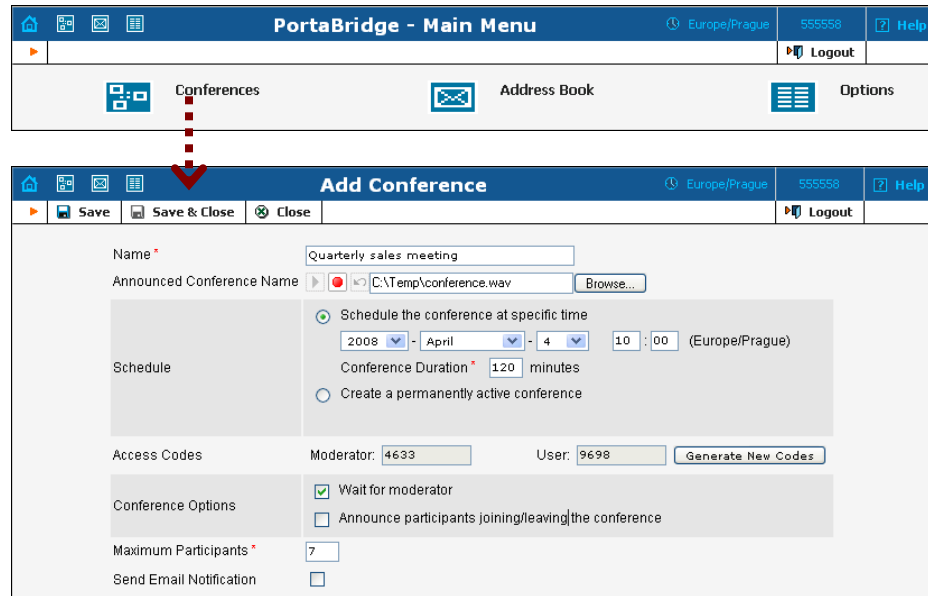
Log in to the PortaBridge Self-care Interface

1. Open <http://<your-porta-bridge-address>> in your browser (inserting the actual hostname or IP of your PortaBridge server).
2. Use the ID of your account with the conferencing service enabled as **Name**, and the **User Interface Password** as **Password**. After successfully logging in, the main menu of the PortaBridge self-care interface will appear.



Create a Conference

1. Click on the Conferences item in the main menu.



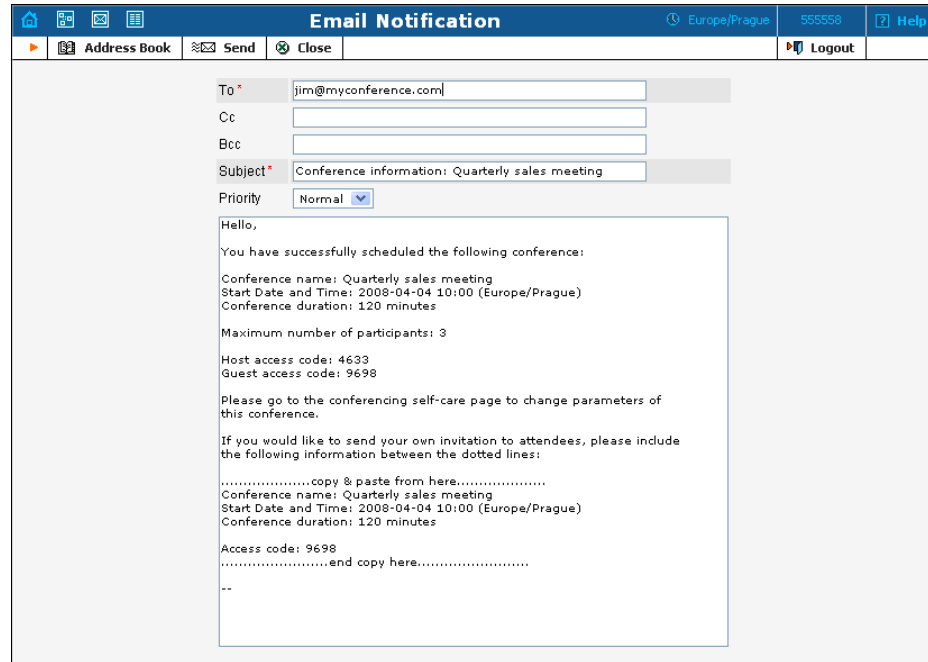
- Fill in the **Add Conference** form; see the following table for a description of the available fields

Field	Description
Name	A description of your conference.
Announced Conference Name	Either upload a sound file, or record (using your PC's microphone) the name of the conference as it will be announced to people joining it.
Schedule	Specify the date and time when the conference will start.
Access Codes	Access codes are created automatically, but you can generate a new set of codes by clicking on the Generate New Codes button.
Conference Duration	In order to prevent service abuse, you must specify the maximum allowed conference duration (in minutes).
Maximum Session Time	If you are creating a "meeting room" (a permanently active conference), specify the maximum time that a single participant can stay in the conference. This is also done to prevent potential service abuse.
Conference Options: Wait for moderator	If activated, conference participants will not be able to communicate with each other until the host (moderator) arrives.
Conference Options: Announce participants	If activated, each participant will be asked to record his or her name initially. When he or she enters the conference, all the other participants will hear "... has joined the conference"; and when he or she leaves, the other participants will be informed of this as well.
Maximum Participants	You can limit the maximum allowed number of concurrent connections to the meeting room. Note that you may not specify a higher value here than the Number of Simultaneous Participants assigned by the PortaBilling administrator to your account (in the Service Features tab on your account info).
Send Email Notification	If selected, another screen will appear after you save the conference, allowing you to review and send yourself or other hosts an email containing conference access information.

- Click  **Save&Close** to save the conference.

Send a Note with the Conference Info

If you have chosen **Send Email Notification** on the **Add Conference** screen, you will now see the **Email Notification** screen. Edit the email text, if desired, and select who is to receive it (you can either type in the addresses or select them from your address book).



The screenshot shows a web browser window with the title "Email Notification". The browser's address bar shows "Europe/Prague" and "555558". The page has a navigation bar with "Address Book", "Send", and "Close" buttons, and a "Logout" button. The main content area contains the following text:

To *

Cc

Bcc

Subject *

Priority

Hello,

You have successfully scheduled the following conference:

Conference name: Quarterly sales meeting
 Start Date and Time: 2008-04-04 10:00 (Europe/Prague)
 Conference duration: 120 minutes

Maximum number of participants: 3

Host access code: 4633
 Guest access code: 9698

Please go to the conferencing self-care page to change parameters of this conference.

If you would like to send your own invitation to attendees, please include the following information between the dotted lines:

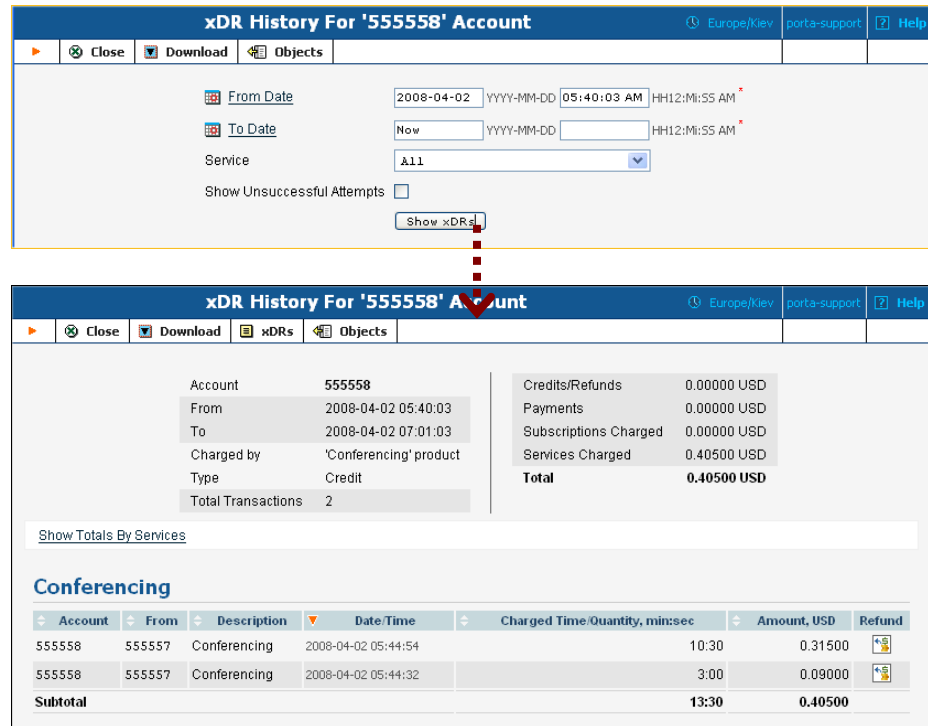
.....copy & paste from here.....
 Conference name: Quarterly sales meeting
 Start Date and Time: 2008-04-04 10:00 (Europe/Prague)
 Conference duration: 120 minutes

Access code: 9698
end copy here.....
 --

Click the  **Send** button to send the message.

Test a Conference

1. Dial the conference access number from a phone and enter your access code. Do the same from the other phones for other participants.
2. When the conference is over, you can review the charges for the conferencing service on the PortaBilling web interface:



xDR History For '55558' Account

From Date: 2008-04-02 05:40:03 AM
 To Date: Now
 Service: All
 Show Unsuccessful Attempts:
 Show xDRs

xDR History For '55558' Account

Account: 55558
 From: 2008-04-02 05:40:03
 To: 2008-04-02 07:01:03
 Charged by: 'Conferencing' product
 Type: Credit
 Total Transactions: 2

Credits/Refunds	0.00000 USD
Payments	0.00000 USD
Subscriptions Charged	0.00000 USD
Services Charged	0.40500 USD
Total	0.40500 USD

Show Totals By Services

Conferencing

Account	From	Description	Date/Time	Charged Time/Quantity, min:sec	Amount, USD	Refund
555558	555557	Conferencing	2008-04-02 05:44:54	10:30	0.31500	
555558	555557	Conferencing	2008-04-02 05:44:32	3:00	0.09000	
Subtotal				13:30	0.40500	