# Tariffs

A tariff is a collection of individual rates, a rate being a per-destination price. Each tariff has its own set of rates. Call billing is based on billing units. You can define two billing units for each destination: the first billing unit (interval) and the next billing unit (interval). Billing unit precision one second, and the minimum length of each unit is likewise one second.

Typical billing unit configurations include 60/6 (the first unit, i.e. the minimum charged call duration, is one minute, and subsequent intervals ar one-tenth of a minute, i.e. six seconds) and 1/1 (per-second billing).

۵	II \$	88		Þ 🗠 🔍		Т	ariff Man	agement				demoroot	? He
•	🗄 Add	🛞 Clo	se 🕲	Off-Peak Period	is 🔋 xDR	Re-rating	LCR Rates					<b>Logout</b>	🔳 Lo
			Applie	ed To	Se	rvice		Managed By		Sea	rch		
		ANY		-	ANY	-	ANY		<b>•</b>		Search		
		Rates	Upload	Nai	me	Currency	Applied To	Service	Managed	By Routin	J Description	Delete	
				DID supplier c	<u>osts</u>	USD	Vendor	Voice Calls		No			
		=		Internet Access	<u>s</u>	USD	Vendor	Broadband		No			
				Prepaid cards		USD	Customer	Voice Calls	Administrato	r Only			
		:=		SIP Phone Sub	SIP Phone Subscribers		Customer	Voice Calls	Administrato	r Only			

The main Tariff Management screen shows a list of all existing tariffs. Tariffs can be located using the Search form, by selecting a reseller from t drop-down list, or choosing the tariff's name. To edit a tariff, click on its name in the list. Click the **Edit Rate** icon to edit individual rates for the given tariff. Click the **Upload** icon to upload rates into the given tariff. The **Delete** icon will be visible only when the tariff is not in us (not assigned to any customer or vendor and not being used in any product's rating entry), and enables permanent deletion of the given tariff.

# Add / Edit Tariff

To add a new tariff to the system, select 🗄 Add to go to the Add Tariff screen. Existing tariffs can be edited by clicking on the tariff's name in t list.

៨	II \$	00	•		~	Q				A	dd Ta	ariff					🕲 A		demoroot	12 H
•	层 Save		Sav	e & Close	8	Close													M Logout	
						Name Appli Mana	e ied To aged By	EasyCall Custome Adminis	er strator o	nly		Curre Servic	icy e	USD - Voice	US Do. Calls	llar		× *		
						[	General I	info												
						Defau	lt Off-Pea	ık Period	Weekend				~							
						Destin	nation Gro	oup Set	EasyCal	1			~							
						Free S	Seconds		0											
						PostC	Call Surch	narge	0.00000	%										
						Login	Fee		0.00000											
						Conne	ect Fee		0.00000											
						Round	d Charge	d Amount	XXXXX.XX	XXX										
						Defau	lt Formul	а							'∱.					
						Updat	ie Usage	Time	Always				~							
						Short	Descripti	on	EasyCall t	ariff										
						Descr	iption		What we EasyCal calls.	e cha 1 pr	arge c roduct	ustome for o	cs utg	with t oing	he :					

Field	Description							
Name	The logical name for the tariff.							
Currency	Indicates the currency in which pricing information is							
-	defined. All pricing information for a single tariff must be							
	defined in the same currency.							
Applied To	Designates whether this tariff will be used to charge your							

#### PortaBilling Help - Tariffs

I	anotomore or recollers or to calculate costs according with
	customers of resellers of to calculate costs associated with
	your vehicles. Fou must select a value here to get access to
	certain fields that are available only for a specific type of
Compies	Lann.
Service	the <b>Voice Calls</b> service will be selected).
Managed By	(Only available for tariffs of the <b>Customer</b> type). Allows
	you to designate this tariff as managed by the
	administrator only (so this tariff will be applied to your
	direct customers), or by a specific reseller (so this tariff will
	be used to charge the reseller's sub-customers).
Routing	(Only available for tariffs of the Vendor type). The tariff
	contains information about the carrier's routing
	preferences, in addition to the usual cost data.
Default Off-Peak	Allows to select one of the previously defined off-peak
Period	periods. If you do not differentiate between peak and off-
	peak rates, just choose <b>Not defined</b> .
Destination	A set of destination groups (UK-Mobile, CZ-Mobile, etc.)
Group Set	you would like to use for more convenient rate entry.
Free Seconds	Number of free seconds granted for each call. In order to
	claim free seconds, the length of the call must be at least one
	billing unit (i.e. the first interval; see the 'Enter Rates' section
	above).
Post Call	Increases the total call cost by the given value.
Surcharge	2 0
Login Fee	Amount to be charged immediately after the first user
8	authentication.
Connect Fee	Amount to be charged for each successful call, in addition to
	other charges.
Round Charged	Pattern that defines the rounding of a charged amount in an
Amount	individual xDR. This pattern takes the form of XXX000. An
	X (to the left) means that the digit in this position will be left
	unchanged, while a zero (to the right) means that this
	position will be rounded off. For example, XXXXXXX000
	means that the amount will be rounded up two decimal
	places, so that 1.2345 becomes 1.24. Note that rounding off
	is always done upwards.
Default Formula	Default call rating formula applied to new rates. Note that
	the value of this parameter is only used when a new rate is
	inserted. Modification of this parameter has no effect on
	existing rates.
Update Usage	This determines when the <b>First Usage</b> and the <b>Last Usage</b>
Time	fields get updated.
	- If you select <b>Only by billable records</b> the fields will be
	updated by generating a successful toll call / event.
	- If you select <b>Always</b> – the fields will be updated by the
	successful usage of any toll-free services.
Short	While the name of a tariff is for your internal use, and is
Description	usually created according to your internal rules, you can also
	add a name meaningful to your reseller. For example for the
	tariff name <b>ABC-SmartCall-USD-1800</b> . the short
	description will be <b>Smart call using a toll-free number</b>
Description	Tariff description.

Free Seconds, Connect Fee and Post-Call Surcharge are only applied when the default rating method is used. For more about different call ratin methods, see the <u>PortaBilling Administrator Guide</u>.

### Web Upload & Download

Choose appropriate templates for web upload / download of tariffs. Read more about this in the <u>Templates</u> and <u>Managing rates offline</u> sections.

#### **Email Upload**

PortaBilling Help - Tariffs

ക	II (S	<b>88</b> 🛉	<b>P</b>	2 Q		6	dit Tariff	'EasyCal	ľ			demoroot	2 H
•	🛃 Add	🗟 Save	🗟 Sav	e & Close	🛞 Close	🗵 Download	萬 Upload	🔲 Rates	😰 Test			M Logout	<b>8</b> L
			Name Applied T	EasyC o Custo	all mer		Currency Us Service Vo	BD lice Calls					
			Gen	eral Info	o Web Upload & Downloa		Email Upload	Notepad	1				
			Edit Type		From *		Key *		т	emplate *	Disabled Dele	te	
			<b>i a</b>	<u>csv-ta</u>	riff@mydoma	ain.com	5dg4hj2tsf6nv	v4usb	' (CSV) <u>C</u>	SV Upload	□ 		

Tariffs can be uploaded to the system from an e-mail received with an attached document in either CSV or XLS format.

Field	Description
Edit	Click the <b>Edit</b> icon to copy the current row in the form
	above for editing.
Туре	Uploaded document type, either CSV or XLS file.
From	Sender's e-mail; to prevent unauthorized access, only
	trusted e-mail will be allowed.
Key	Security key; tariff will be accepted only if the correct key
	is specified in the message's subject line or body.
Template	Select a template to map information in the uploaded file
	using PortaBilling®. Read more in the Templates section.
Disabled	Disable receipt of tariffs from this source.
Delete	Click the <b>Delete</b> icon to remove this source.

**NOTE:** You need to add an email alias (to which you will send tariffs for upload) to the **EmailUploadAlias** field on the Configuration Server web interface. For example the PortaBilling Web Server name is web.yourcompany.com and you added the "tariffupload" alias, you will send emails with tariffs to tariffupload@web.yourcompany.c for upload. Also make sure that your mail server redirects emails sent to the above address to the PortaBilling Web Server and that port 25 is not blocked by a firewall.

## **Off-peak periods**

#### **Peak and off-peak prices**

It is possible to have two different sets of prices, one for peak and one for off-peak time. In fact, you can have two separate off-peak periods (e. nighttime and weekends), meaning there are three separate sets of prices. A call is always billed using one particular rate; this also applies to calls starting in the off-peak period and ending in the peak period, or vice versa, i.e. there is no proration.

Off-peak periods are defined using the powerful yet flexible Time::Period module. The Off-Peak Period Wizard is also available to help you create a period definition easily.

You can create a master list of various off-peak periods (e.g. one from 9pm to 7am including weekends and another from 8pm to 8am daily) and then use these definitions for specific tariffs or rates inside the tariff.

#### **Off-peak period definition wizard**

To manage the available off-peak periods, select Off-Peak Periods on the Tariff Management screen.

		* 80	Þ ~ Q			Tarif	Manageme	int		() America/V	ancouver	demoroot	
🗈 Ade	d 🛞 Cl	ose 🔇	Off-Peak Periods 🔋	XDR R	te-rating	🗵 LCR Rate	25					り Logout	1
			Applied To		Service	5	Mar	naged By		Search			
		ANY	~	ANY		<b>~</b> 1	INY				Search		
		Rates	Name		Currency	Applied To	Service	Managed By	Routing	Description	Delete		
			DID supplier costs		USD	Vendor	Voice Calls		No	-	×		
			Internet Access		USD	Vendor	Broadband		No				
			Prepaid cards		USD	Customer	voice Calls	Administrator only			×		
		<b>—</b>											

PortaBilling Help - Tariffs

۵	<b>II</b> \$	00	Ť	0.0		Off-Peak Period	ds			demoroot	<b>P</b> F
•	🗈 Add	8	Close							M Logout	
				-	Off-Peak Periods			Test			
					Name	Description	Managed By	Period	Delete		
					<u>Night</u>	OFF PEAK 1: From 01:00 until 02:00 any day of any month OTHERWISE PEAK	Administrator only	TEST C.	×		
					<u>Off-peak time</u>	PERIOD: From 05:00 until 15:00 any day of any month	Administrator only	TEST C.	×		

	Off-Peak Period Definition	
🖬 Save 📓 Save & Close 🛛 😵 Close		
Name Weekend	].	
Managed By Administrator only		
Off-peak rate is used if ○ Session starts during the off-peak period ○ Session finishes during the off-peak period ③ Session starts and finishes during the off-peak period	OFF FEAK 1: Weekend of any month OTHERWISE PEAK	
	startstop:wd(sa su)	
	Cancel Delete Skip Next >	

The Off-Peak Period wizard provides users with a flexible tool for defining a new off-peak period. On a sequence of screens, the user may selec time interval, day of the week, day of the month, and month; multiple select is allowed. The following example illustrates the process of creating an off-peak period that starts at 6pm every day and lasts until 6am the next morning. Another off-peak interval is on weekends. We will also include some holidays, i.e. January 1<sup>st</sup> and December 24-26.

In the first screen, select 6pm in the **From** column, and 6am in the **Until** column. Now click the **Next** button. The two text areas on the right c the screen give the user a display of the current period definition. The top text area displays a verbal definition of the period – From 6:00pm unt 6:00am, and the bottom one contains this same information in a format that can be parsed by PortaBilling – hr{6pm-5am}. This sets up the first period; in order to continue, skip the following screens by pressing the **Skip** or **Next** button until the "Period definition completed" message is displayed, then press the **Add** button to add another definition to this period. The wizard now returns to the first screen.

**NOTE:** Time::Period treats all formula elements as "inclusive". Thus, in the example above, 6pm to 6am will be represented as hr{6pm-5am}. This is perfectly correct, since 5am actually means "all of the 5<sup>th</sup> hour – 05:00:00 ... 05:59:59".

Now for the weekends: pressing the **Skip** or **Next** button, go to the second screen and select *Weekend*, or, holding down the <Ctrl> key, select *Saturday* and *Sunday* from the list. Select the **Next** button and skip until the "Period definition completed" message is displayed. Press the **Add** button to add another definition to this period.

To include January 1<sup>st</sup> in the off-peak period definition, skip to the Day of Month screen, and select *1*. Click the **Next** button. Now select *Janua* click **Next**, skipping forward to the next screen. Follow the same steps to select the December 24-26 interval. Hold the <Ctrl> key down to sel-multiple entries.

On the next screen, you can choose how the system will charge calls which overlap with your off-peak period, i.e. cover both peak and off-peak time. There are three options you can choose from:

- If the call starts in the off-peak period, it will be charged using off-peak rates (even if part of the call was made during peak time). This
  method is the easiest and most transparent for end-user authorization of outgoing calls.
- If the call finishes during the off-peak period, it will be charged using off-peak rates; it does not matter whether it starts within the off-peak period or not.
- Or, the off-peak rate will only be used if the call both started and finished during the off-peak period. In this case, any call which partly
  extends into the peak period will be charged at the peak rate.

To evaluate your work, look at the top text area. The following text should be displayed:

any day of any month OR Sunday and Saturday of any month OR 1 of January OR 24-26 of December

If the definition is correct, click the Finish button.

### Test the off-peak period

			Test Period		2
•	🛞 Close				
		Date and Time	0 <u>YYYY-MM-DD</u> 2009-12-28	HH24:MI	
		Period	startstop:hr{1-3} wd{	mo-fr }	
		Period Description	From 01:00 unti Vorkdays of any month	1 04:00,	
			Test!		

Now simply enter any time / date and click the Test button to check whether this moment fits into the off-peak period definition.