

JeraSoft Billing

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JeraSoft Billing 3.5

Interface Basics

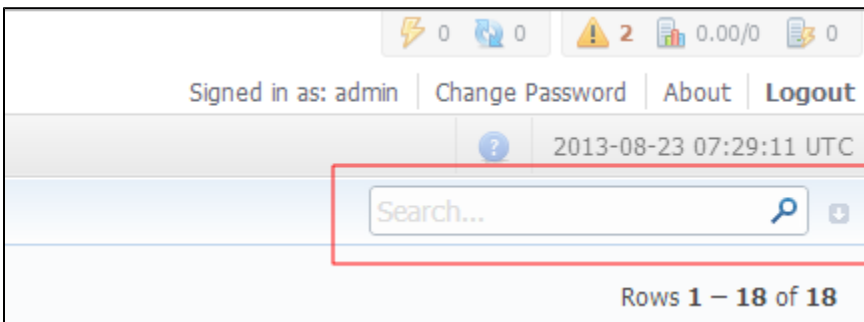
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- [Quick Search](#)
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- [InfoBar](#)
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Quick Search

This tool is used to perform a search of any information within administrator interface inside current section. For example, you can search for clients, rates, etc.:

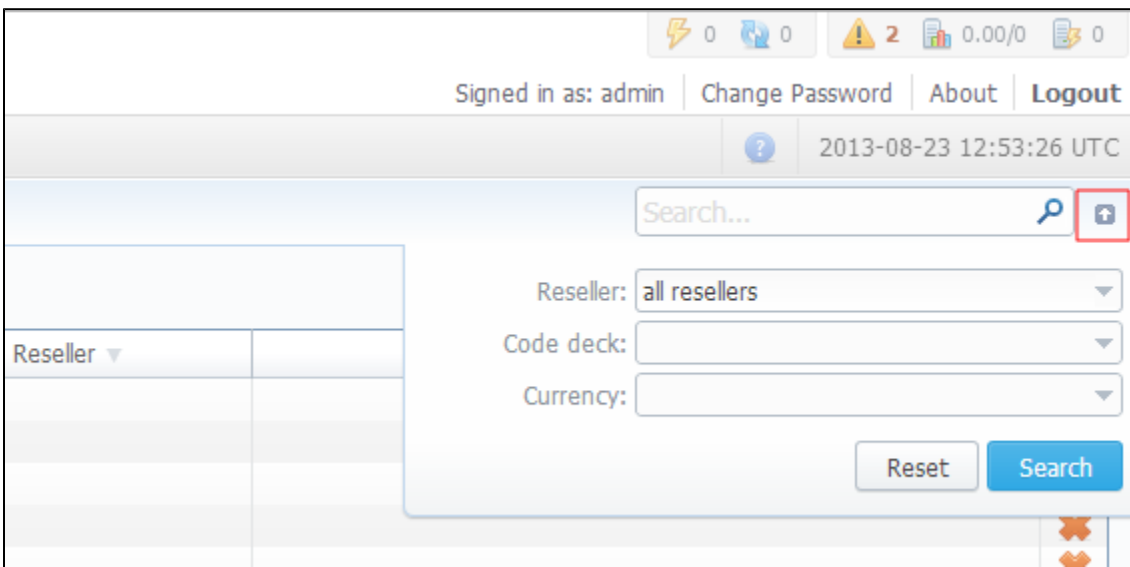
Screenshot: Quick Search panel



Note: Quick Search panel will not be present in every section of the system. It's available only in sections that contain listed information – *Clients* section, *Rate Tables*, etc.

Some sections allow the use of Advanced Search function, that is activated by clicking on arrow button (Screenshot):

Screenshot: Advanced Search panel

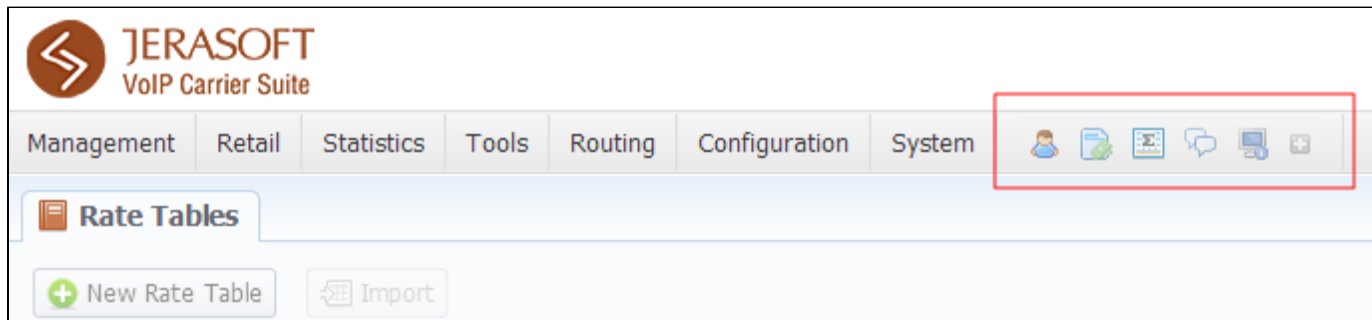


Note: If the arrow button has red color, this means that search is performed on selected parameters.

SmartBar

For quick launch of any system section indirectly, you can use the *SmartBar* shortcut panel. It is always situated in the upper part of the window, next to listing of system's sections:

Screenshot: *The SmartBar*

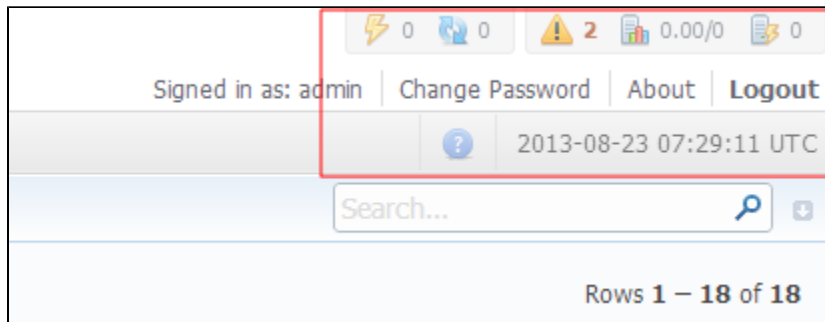


To add a shortcut of any section to SmartBar, press "+" button near section's name. To remove the shortcut, press "-" button at same location.




InfoBar



To have access to fast-changing system information system features the information panel – *InfoBar*.

Screenshot: *The InfoBar*



It is situated at top-right part of the screen and displays the following information:

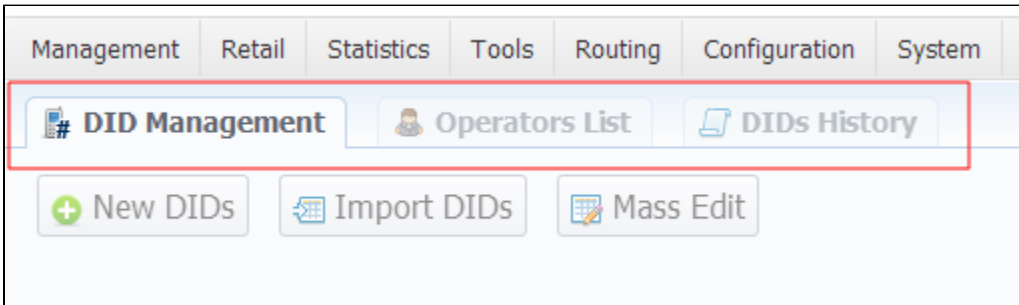
Icon	Description
	CDR queue
	CDRs in queue for rerating
	Information about system alerts

	Load average on server / Number of CPU cores
	Number of running billing services

Section Tabs

Some functions of the sections are now available as Section Tabs (Screenshot below). This feature is designed to make your work with this sections much more easier and comfortable.

Screenshot: Section Tabs



Management

This section of our Guide contains information about how you can provide different management through JeraSoft VCS. For more details please go to the related sections:

- [Clients](#)
- [Rate Tables](#)
- [Invoices](#)
- [Transactions](#)
- [Balance Report](#)
- [Resellers](#)

Clients

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- [Clients Section Main Window](#)
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Clients Section Main Window

This section is used to manage your customers, providers and all related information. Main window of this section is represented by list of all available clients:

Screenshot: Clients section main window

ID	Name	Balance			Pay Terms	Groups	Reseller
		Available	Live	Fixed			
11	Customer A	50.00 DKK	-50.00	-50.00	Monthly	Customers	Reseller A
22	Customer B	9 720.37 USD	-279.63	-253.34	Monthly		Reseller B
33	Customer C	1 244.35 DKK	-255.65	-73.15	Monthly		Reseller A
27	Customer D	30.00 DKK	-470.00	-470.00	Monthly		Reseller A
39	Customer E	10.96 DKK	-89.04	0.00	Monthly		Reseller A
25	Customer F	841.11 DKK	-158.89	0.32	Monthly	Customers	Reseller A
34	Customer G	No Limit DKK	-189.05	-99.34	Monthly		Reseller A
31	Customer H	10 079.26 DKK	7 079.26	-912.24	Monthly	Customers	Reseller A
21	Customer I	5 007.62 USD	-4 992.38	-4 675.90	Monthly		Reseller B
20	Customer J	224.19 USD	-1 775.81	0.00	Monthly		Reseller B
15	Customer K	-2 625.99 DKK	-2 626.99	-2 626.99	Monthly		Reseller A
23	Customer L	4 267.55 USD	-5 732.45	-5 507.79	Monthly		Reseller B
28	Customer M	30.00 DKK	-470.00	-470.00	Monthly		Reseller A
40	Test Customer	1.00 DKK	0.00	0.00	—		Sub-Reseller B-1
7	Vendor A	535.74 DKK	435.74	0.00	—		Reseller A
24	Vendor B	2 601.34 DKK	2 501.34	0.00	—		Reseller B
17	Vendor C	2 999.35 USD	2 989.35	0.00	—		Reseller B
18	Vendor D	6 958.71 USD	6 948.71	0.00	—		Reseller B

Column Name	Description
ID	Client's identification number
Name	Client's name
Balance	Client's balance values
• Available	"Live" client's balance including allowed credit
• Live	Client's balance calculated on basis of performed payments and processed calls
• Fixed	Client's balance calculated on basis of the outstanding invoices and performed payments
Pay Terms	Payment terms of each client
Groups	Indicates, which group respective client belongs to
Reseller	Name of reseller company respective client belongs to

Icon	Description	
	Is used to edit accounts (gateways, sip-accounts etc.)	
	Is used for accessing client's current routing plan (icon will be colored if plan is assigned)	
	Is used to add additional configurations to dynamic routing for current client	
	Is used to display client's rates	
	<ul style="list-style-type: none"> • ORIG 	Rate tables for incoming calls
	<ul style="list-style-type: none"> • TERM 	Rate tables for outgoing calls
	Is used to to assign and manage your packages	
	Is used to manage client's balance. It's a shortcut to <i>Transactions</i> section	
	Is used to manage client's invoices. It's a shortcut to <i>Invoices</i> section	
	Is used to manage client's balance report (Live or Fixed). It's a shortcut to <i>Balance Report</i> section	
	Is used to manage client's summary report. It's a shortcut to <i>Summary Report</i> section	
	Allows access to current client's client control panel (icon will be colored if access is available for customer)	
	Is used to view sends history. It's a shortcut to <i>Mail Queue</i> section	
	Is used to delete a client from the system	



Tip: If prepaid mode is enabled, calls will be subject to balance check on stage of call authorization (when RADIUS Authorization is used). If postpaid mode is enabled, calls duration will be limited to "Max Call Duration" set in *Configuration – Settings*.

Adding New Client

To add a new customer, press "New client" button. A dialog-window will show up:

Screenshot: Adding new client

Client Info Custom Fields Accounts Presets Packages DIDs Notes Customer

SYSTEM INFORMATION

Name:

Reseller:

Currency:

Timezone:

Status:

Groups:

Tax Profile:

Bill Calls by:

Enable number formatting

CLIENT PANEL

Login:

New Password:

Access:

TERMINATOR SETTINGS

Rate Table:

Capacity: channels

ORIGINATOR SETTINGS

Allowed Credit: USD

Payment Terms:

Rate Table:

Routing Plan:

Capacity: channels

LOW BALANCE NOTIFICATION

Notify Client: USD

Notify Admin: USD

AUTOINVOICING

Template:

Last Invoiced:

RATE NOTIFICATION

Format:

Notify type:

AUTO PAYMENT

Extra Amount: USD

COMPANY INFO

Name:

Main E-mail:

NOC E-mail:

Billing E-mail:

Rates E-mail:

Address:

Tax ID:

Reg ID:

Account Details:

Locale:

Fill next fields:

Section	Fields Description	
System Information	General information about client	
	<ul style="list-style-type: none"> Name 	A client's name
	<ul style="list-style-type: none"> Reseller 	Here you can select the name of one of your companies (or affiliates) that you can add in Resellers section (this name will be used in invoices)
	<ul style="list-style-type: none"> Currency 	Preferred currency (will be used in invoices)
	<ul style="list-style-type: none"> Timezone 	Specify the timezone (will be used in invoices)
	<ul style="list-style-type: none"> Status 	Current client status
	<ul style="list-style-type: none"> Groups 	You can specify a group to which current client will belong to (only available if current user has necessary role installed. Refers to <i>Client Groups</i> section)
	<ul style="list-style-type: none"> Tax Profile 	You can specify a tax profile which will be reflected in invoices (refers to <i>Taxes Profiles</i> section)
<ul style="list-style-type: none"> Bill Calls By 	Select how the system should bill calls of current client – by setup time, connect time or disconnect time (most switch models use disconnect time)	

	<ul style="list-style-type: none"> • "Enable number formatting" checkbox 	Allows you to hide some numbers from calls made by this client
"Client Panel Access" checkbox	<p>Activates/deactivates the log in procedure to the client's control panel for current client. Customer can get access to this control panel by using following link: http://vcs_address/clients/</p> <p>Sections that are available to clients within that control panel can be turned on or off by respective checkboxes. Full list of available sections is the following: Client Info, Invoices, Rates List, Summary Report, CDRs List, Balance Report, Payment Gateways, Change Password</p> <p>Important: if no login for "Client Panel Access" is specified or no fields are selected, then access to control panel will be forbidden. This access is configured with list of available fields and following parameters</p>	
	<ul style="list-style-type: none"> • Login 	Client's login
	<ul style="list-style-type: none"> • New password 	Client's password
Originator Settings	Settings for your customers, who send calls to your switch. Current clients' billing settings are specified here	
	<ul style="list-style-type: none"> • Mode 	Sets the balance check when <i>Radius Authorization</i> is used. The check is on when " <i>Prepaid</i> " is selected, and off when " <i>Postpaid</i> " is
	<ul style="list-style-type: none"> • Allowed Credit 	Credit limit
	<ul style="list-style-type: none"> • Payment Terms 	Select the payment terms template
	<ul style="list-style-type: none"> • Rate table 	Select the origination rate table
	<ul style="list-style-type: none"> • Routing Plan 	Select appropriate routing plan that will be used to route all calls of this customer (but it may be overridden for any of customer's accounts in <i>Accounts</i> tab)
	<ul style="list-style-type: none"> • Capacity 	Summary origination capacity for this client
Terminator Settings	Settings for your vendors, whom you send calls from your switch. Current clients' billing settings are specified here	
	<ul style="list-style-type: none"> • Rate table 	Select the termination rate table
	<ul style="list-style-type: none"> • Capacity 	Summary termination capacity for this client
Low Balance Notifications	Here you can setup whether system should make low balance notifications or not	
	<ul style="list-style-type: none"> • Notify Client 	When clients' balance+credit is below entered value, system will send a notification to clients' <i>Billing e-mail</i>
	<ul style="list-style-type: none"> • Notify Admin 	When clients' balance+credit is below entered value, system will send a notification to administrator via <i>Events Log</i>
"Autoinvoicing" checkbox	Activates/deactivates the automatic invoice generation feature for current client. It can be configured with parameters	
	<ul style="list-style-type: none"> • Template 	Select an invoice template for this customer
	<ul style="list-style-type: none"> • Last Invoiced 	Specify last day, that the client has already been invoiced for

"Rate Notification" checkbox	Here you can enable or disable automatic rates notification for current client	
	<ul style="list-style-type: none"> • Format 	Select desirable format of rate notification (XLS or CSV)
	<ul style="list-style-type: none"> • Notify Type 	Specify a type of notification <i>All rates</i> - full price list <i>Only changed rates</i> - only changed rates will be send <i>All rates - unique mode</i> - if there two or more new rates with different effective date for one code, several files will be sent and each will contain all unchanged rates and only one rate change for one code
"Auto Payment" checkbox	Here you can enable or disable auto payment	
	<ul style="list-style-type: none"> • Extra Amount 	Specify an amount that will be applied to customer's credit card registered in Authorized.net payment service
Company Info	Some additional information about client can be entered here	
	<ul style="list-style-type: none"> • Name 	Company name
	<ul style="list-style-type: none"> • Main E-mail 	Company e-mail for general inquiries
	<ul style="list-style-type: none"> • NOC E-mail 	Company email for technical related questions
	<ul style="list-style-type: none"> • Billing E-mail 	Automatically generated invoices and notifications will be sent on this e-mail address
	<ul style="list-style-type: none"> • Rates E-mail 	Company e-mail for rates related questions
	<ul style="list-style-type: none"> • Address 	Physical company address
	<ul style="list-style-type: none"> • Tax ID 	Customer's tax ID
	<ul style="list-style-type: none"> • Reg ID 	Customer's registration ID
	<ul style="list-style-type: none"> • Account Details 	Reference information about client's bank account or payment details
	<ul style="list-style-type: none"> • Locale 	Preferred locale, that will be sent as reply to RADIUS Authorization. It is used for IVR platforms to predefine language



Warning: "Full Delete" button can be used to permanently remove client from system, disregarding any statistics or rate tables data connections. Please, use this feature with care – deleted client can not be restored by any means.

Custom Fields


This tab allows you to manage client's custom fields, which can be used in invoice template as custom functions. This tab only displays already added and assigned fields to respective customer. These fields themselves are added in *Management – Resellers* section.

Accounts Configuration

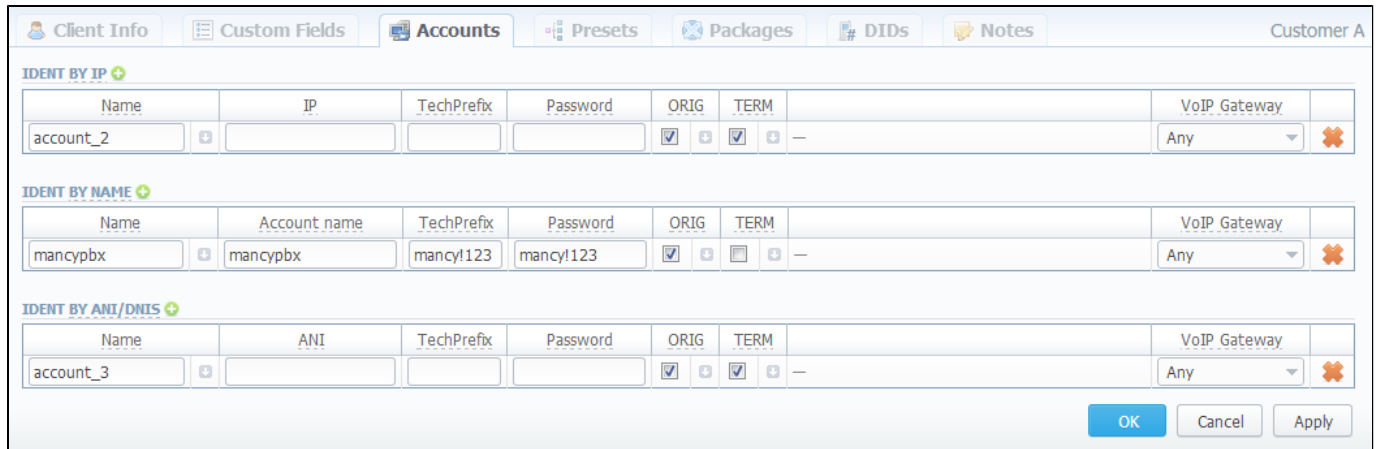
On this page

- [Accounts Configuration](#)
- [Adding New Account](#)

Accounts Configuration

By pressing button , an account configuration dialog-window will show up:

Screenshot: Accounts configuration




VCS system allows client identification in 3 different ways:

- **Ident by IP** – identification by gateway IP-address;
- **Ident by Name** – identification by user login or gateway name;
- **Ident by ANI/DNIS** – identification by src or dst number.

Adding New Account

To add new account press  button in respective section, fill next fields and press .

Field Name	Field Description
Name	Name of an account in JeraSoft VCS system
IP	Gateway IP-address. You can specify multiple addresses, by dividing them with ";". Also you can specify the subnet with mask here in CIDR-format, e.g. "10.0.0.0/24", "200.200.200.208/28"
Account Name	Gateway name or user login, that is used for identification
ANI	Called or caller phone number
Tech Prefix	Technical prefix, that is used to identify users, when multiple clients use same gateway
Password	User password that is used with login/password identification. Also can be used through default authentication mechanism. For more info please consult your switch system manuals
ORIG	Allow origination from this gateway

TERM	Allow termination to this gateway
VoIP Gateway	Current account will be in use only when billing this host calls
Extra fields	A number of additional settings. You can see them by pressing  button in "ORIG" and "TERM" fields
	<ul style="list-style-type: none"> • C a p a c i t y Set capacity for respective traffic direction
	<ul style="list-style-type: none"> • R a t e T a b l e Select rate table for current account (it will have higher priority than rate table set for whole client) either for origination or termination side
	<ul style="list-style-type: none"> • R o u t i n g P l a n You can specify custom routing plan for origination from this account
	<ul style="list-style-type: none"> • P r o t o c o l Select respective protocol for current termination gateway
	<ul style="list-style-type: none"> • P r o x y Specify proxy for current termination gateway
	<ul style="list-style-type: none"> • P o r t Specify port for current termination gateway
	<ul style="list-style-type: none"> • G r o u p s Set routing groups where current termination or origination account will belong to. Then, in Routing Plans section you will be able to route directly to one of these termination groups or allow routing only for these origination groups. Please consult Routing Details section for more information


You can add unlimited number of accounts for each client.

Presets Configuration

On this page

- [Client Presets Main Window](#)
- [Adding Routing Presets](#)
- [Presets "Mass Import" Feature](#)
 - [Step 1. Selecting File and Specifying Additional Parameters](#)
 - [Step 2. Recognizing The File](#)
- [Performing Number Translation](#)


Client Presets Main Window

The main purpose of this section is to provide an ability to exclude (block) some routes from routing scheme and to provide number translation functions. To open it, press  button. Configuration window will pop-up:

Screenshot: Client presets


Here you can add and remove routing presets either for origination or termination routes.

Adding Routing Presets

To add a route press a respective  button and enter all required information in next fields:

Field Name	Field Description
Account Name	Client's account, that should be used in current routing rule
Code	Specify a code of destination here (use * as wildcard)
Code Name	Or select a destination name in this field if applicable
Deny	Enable this to deny current route selection
Expires, min	Set a duration in minutes, for which the block should be active (leave blank to block forever)
Added	Shows, when and how the rule was originally added. <i>Manual</i> rules added using this section, <i>auto</i> rules added by Factors Watcher


Presets "Mass Import" Feature

By pressing  icon near "Origination Presets" rubric you will get an access to "Mass Import" feature. This feature allows you to add new presets to already existing or to purge all existing presets and add new ones.

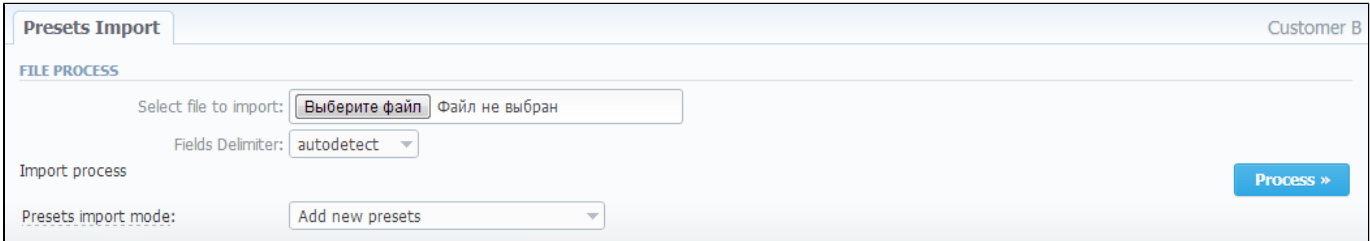
Whole mass import process can be logically divided in two steps.

Step 1. Selecting File and Specifying Additional Parameters

Open Import tab and select a file to import on your HDD (Screenshot).

 Uploaded *csv file should contain at list 2 rows.

Screenshot: Presets "Mass Import" feature main window



This step also allows you to choose some additional parameters, such as:

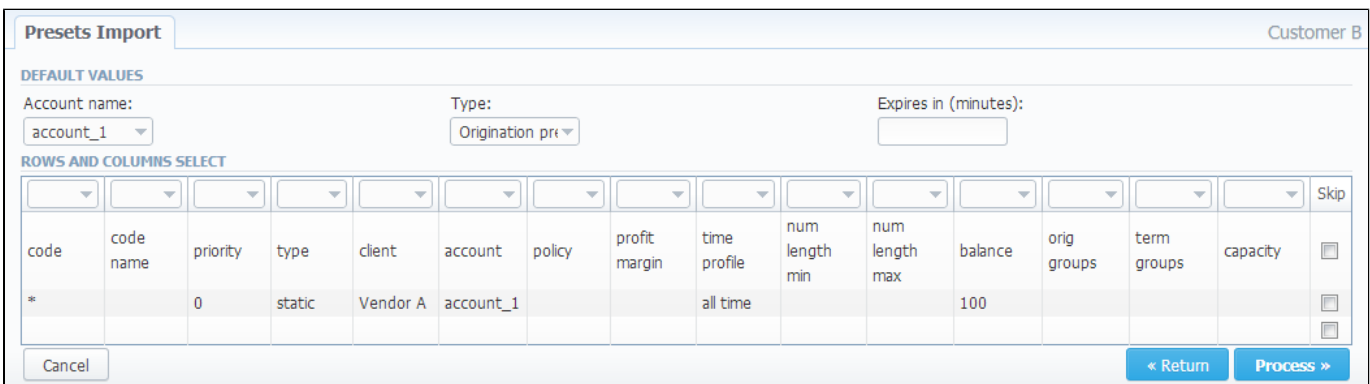
Field	Description
Delimiter	Set delimiter for CSV file: comma, semicolon or tab
Presets import mode	Select a type of import process
	<ul style="list-style-type: none"> Add new presets Add presets to already existing ones
	<ul style="list-style-type: none"> Add new presets (purge all existing) Purge all existing presets and import new ones

After selecting a file and specifying all additional parameters click "Process>>" button.

Step 2. Recognizing The File

System will recognize the file, and display few first rows of it. If there's need, make changes to the recognition of data (for instance, you can switch columns, if guess was not precise), and press "Process>>" again (Screenshot).


Screenshot: Presets "Mass Import" feature. Step 2



code	code name	priority	type	client	account	policy	profit margin	time profile	num length min	num length max	balance	orig groups	term groups	capacity	Skip
*		0	static	Vendor A	account_1			all time			100				<input type="checkbox"/>

After you press "Process>>" for the last time, system will start importing process. When progress-bar reaches 100%, your mass import is done!

Performing Number Translation

To perform a number translation, press  on *Traffic Processing* and fill the following fields:

Field Name	Field Description
Origin	Specifies, when current translation rule will be applied
	<ul style="list-style-type: none"> • ORIG For calls originated from a client
	<ul style="list-style-type: none"> • TERM For calls terminated to a client
	<ul style="list-style-type: none"> • DR On Dynamic Routing, before sending calls to a terminator
Account Name	Select a respective account here
Code	Specify a code of destination here (use * as wildcard)
Code Name	Or select a destination name in this field if applicable
Src Match	In this field you may set a template by which a number will be analyzed, and if template matches the number, the translation will occur in respect to settings in Src Replace field;
Src Replace	Put a resulting action in this field, that will be performed, if translation process will take place
Dst Match	In this field you may set a template by which a number will be analyzed, and if template matches the number, the translation will occur in respect to settings in Dst Replace field;
Dst Replace	Allows you to put matched calls into specified Origination Routing Group
Add Group	Allows you to put matched calls into specified Origination Routing Group
Order	Sets rules ordering, first matched rule will stop further number translations

These translation rules use regular expressions syntax. For example, if number is 123#456, Match field is ^123#(.*) and Replace field is 789\1, then resulting number will be 789456.

Also you can insert random number with fixed digit length using variable \$rnd(xxx-yyy)\$, where xxx - start number and yyy - end number of range. For example \$rnd(050-950)\$ will be replaced by 3-digit random number from 50 to 950.



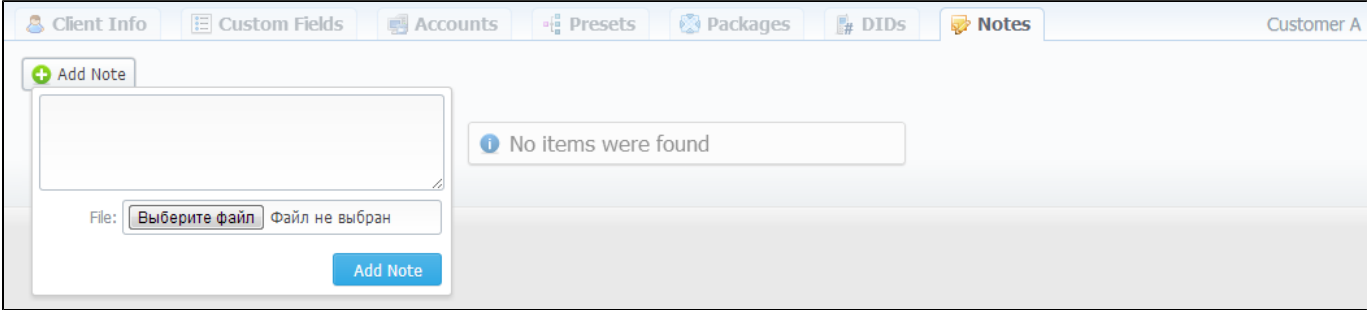
Tip: Please note that all routing related functions of this section are only available with **Routing Module** installed. Orig and Term number translations will work without **Routing Module**.

Notes

This function represents a notebook for saving different additional information concerning current client. For example, this may be used by managers to share relevant info regarding particular customer between themselves.

To add new note go to the "Note" tab, press "Add Note" button, enter the message or select a file and press "OK" button (Screenshot):

Screenshot: Adding new note



Rate Tables

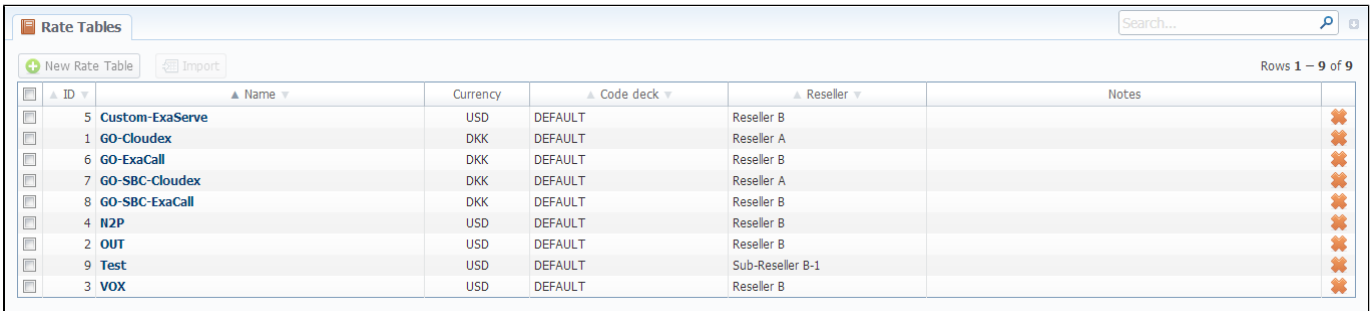
On this page

- [Rate Tables Section Main Window](#)
- [Adding New Rate Table](#)
- [Configuring The Rates](#)

Rate Tables Section Main Window

Allows you to manage your rate tables. Main window of this section is presented on screenshot down below:

Screenshot: Rate Tables section main window

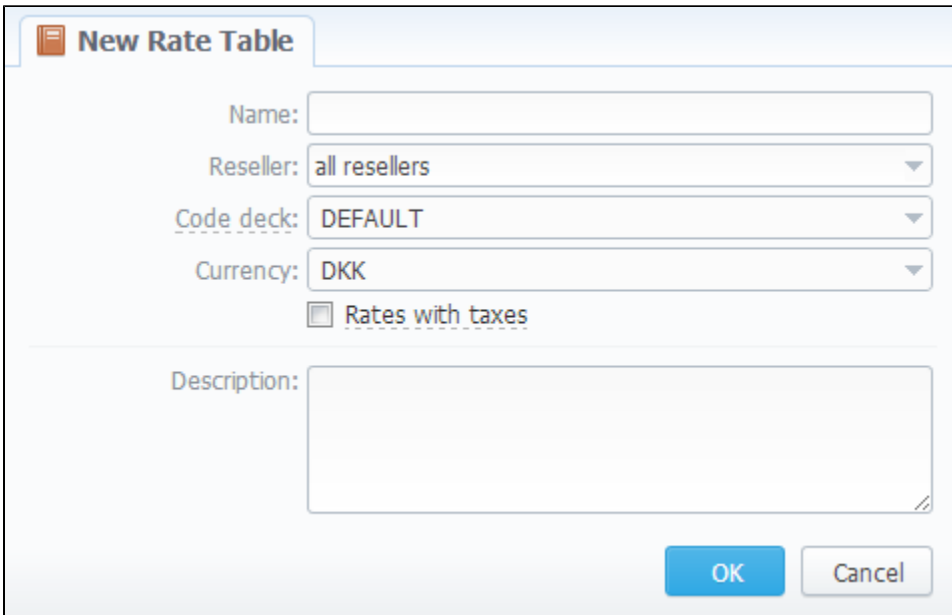


ID	Name	Currency	Code deck	Reseller	Notes
5	Custom-ExaServe	USD	DEFAULT	Reseller B	
1	GO-Cloudex	DKK	DEFAULT	Reseller A	
6	GO-ExaCall	DKK	DEFAULT	Reseller B	
7	GO-SBC-Cloudex	DKK	DEFAULT	Reseller A	
8	GO-SBC-ExaCall	DKK	DEFAULT	Reseller B	
4	N2P	USD	DEFAULT	Reseller B	
2	OUT	USD	DEFAULT	Reseller B	
9	Test	USD	DEFAULT	Sub-Reseller B-1	
3	VOX	USD	DEFAULT	Reseller B	

Adding New Rate Table

To add new rate table, press “New Rate Table” button, define name, currency of the rate table, code deck that will be tied to this rate table, reseller, tax settings and value and description as you can see on screenshot below. This section will also store all rate tables that you plan to analyze via *Rates Analysis* section. You will be able to change these settings later by using “Parameters” tab. After everything is entered, press “OK” button. New rate table will appear on the list.

Screenshot: Adding new rate table



New Rate Table

Name:

Reseller:

Code deck:

Currency:

Rates with taxes

Description:

Configuring The Rates

To configure the rates, click on the table's name.

The rate management is executed with next six tabs:

Tab	Description
Rates	Rates configuration
Extra	Extra rates configuration
Simulate	Call simulation tool
Import	Rates importing from csv or xls files
Export	Rates exporting to csv or xls files
Parameters	Here you can change some parameters that you've specified during rate table creation

Rates Tab Description

On this page

- [Rates Section Tab](#)
- [Adding New Rate](#)

Rates Section Tab

You can select different rates with different tarification parameters for each code (Screenshot):

Screenshot: Adding new rates

Code	Code Name	Rate	Changes	Effective Date	Min	Int	Extra Fields
1	North America	0.0231	—	2013-04-02 00:00:00+03	1	1	TP: all time
1201555	USA Directory Assistance	0.6825	—	2013-04-02 00:00:00+03	1	1	TP: all time
1202555	USA Directory Assistance	0.6825	—	2013-04-02 00:00:00+03	1	1	TP: all time
1203555	USA Directory Assistance	0.6825	—	2013-04-02 00:00:00+03	1	1	TP: all time
1205555	USA Directory Assistance	0.6825	—	2013-04-02 00:00:00+03	1	1	TP: all time
1206555	USA Directory Assistance	0.6825	—	2013-04-02 00:00:00+03	1	1	TP: all time
1207555	USA Directory Assistance	0.6825	—	2013-04-02 00:00:00+03	1	1	TP: all time
1208555	USA Directory Assistance	0.6825	—	2013-04-02 00:00:00+03	1	1	TP: all time
1209555	USA Directory Assistance	0.6825	—	2013-04-02 00:00:00+03	1	1	TP: all time
1210555	USA Directory Assistance	0.6825	—	2013-04-02 00:00:00+03	1	1	TP: all time
1212	USA-NewYork	0.02	—	2013-04-02 00:00:00+03	1	1	TP: all time

Adding New Rate

To create a new rate line, press "Add Rate" button and fill next fields:

Field	Description
Code	A destination code
Code Name	Name of code group (available if code deck is attached)
Rate	Price per 1 minute of call
Changes	A field that shows how current rate differs from previously effective one
Effective Date	Rate start date (newest available rate for particular destination)
Min	Minimal time of call that will be tarificated. For example, if total call time was 20 seconds, and <i>Min Time</i> is 30, then client will pay for 30 seconds of call
Int	Tarification interval. This parameter is used, when <i>Min Time</i> time expires
Extra Fields	Additional parameters are stored under icon
• Rate Group	Specify group for jurisdictional billing
• End Date	After specified date the rate would not be used

• Profile	Which time profile will be used for current rate
• Setup Fee	Setup fee (charged when call duration is longer then 0 seconds)
• Grace Time	Time interval, below which calls are not tarificated (free time)
• Notes	Additional information about current rate

After you finish filling all fields, press "" button.



Tip: On top of the page there is a search engine, that allows you to search for rates (codes or code names) by using * as a wildcard, and also allows to sort whole table by few criteria: confirmed/unconfirmed and rate actuality (including old, current, future and current+future templates).



Tip: If you see rate row colored in yellow, this means that it is in *pending* state and needs to be confirmed. To do so, check respective rate and click "Confirm" button.

Rates Management

Recommended rates management practice includes few tips that can make routine job easier.

Tip 1: If you have received an update to your rate table, do not delete or edit already present information. Simply import updated price list on top of your current one, this will update your rates with new effective dates, while no longer actual rates will be hidden. Read more about importing process in *Import* subsection.

Tip 2: If an existing rate was changed and *Effective From* field specifies a date that have passed, then all calls will not be automatically rerated using this new rate. You should rerate them manually with *Calls Rerating* section.

Tip 3: As an example of calculation, let's imagine that *Rate* = 1, *Min Time* = 30, *Interval* = 1, *Grace Time* = 2, *Setup Fee* = 0,3. If call duration was less than 2 seconds, then total call cost will be 0 currency units. If call duration was between 2 and 30 seconds, then total call cost will be 0,8 currency units. If

$$0,3 + \frac{1}{60} \cdot \text{quantity of call seconds}$$

call duration was more than 30 seconds, then total call cost will be

currency units.

Tip 4: You can change rate tables' currency in *Parameters* tab.

Tip 5: All rate fields, that define time, have time format in seconds, while in *Rate* field you specify the cost for 1 full minute of call.

Tip 6: If you require to perform bulk update or edit of your rates, you can use Mass Edit feature. First, you'll have to form a query in search form. To do this, enter date that searched rates must correspond to as *current on*, *old for*, *future for*, *current+future for* or *all*, and code for your search (use * as wildcard). Then press "Search" button. System will find all rates that correspond to specified criteria and display them. Then click on "Mass Edit" link at the bottom of the window and proceed with respective action.

Operation type is selected under *Action* drop-menu:

- *insert as new rates* – edited rates will be added as new ones, that will replace existant under specified conditions (for example, change of rate and effective date);
- *update current rates* – edited rates will have their values updated with new ones;
- *delete found rates* – all found rates will be deleted.

After you selected desired action, you can change next available rate parameters (unavailable for *delete found rates* action):

Parameter	Description
Rate	Change the rate value. Available options: preserve, set to, inc for, dec for. You can increase or decrease the value either by fixed number or percent. To increase or decrease by percent enter % sign before desired number
Setup Fee	Change setup fee value. Available options: preserve, set to, inc for, dec for. You can increase or decrease the value either by fixed number or percent. To increase or decrease by percent enter % sign before desired number
Grace Time	Change <i>grace time</i> value. Available options: preserve, set to
Min. Time	Change <i>minimal time</i> value. Available options: preserve, set to
Interval	Change <i>tarification interval</i> value. Available options: preserve, set to
Effective Date	Change <i>rate start date</i> value. Available options: preserve, set to
End Date	Change <i>rate end date</i> value. Available options: preserve, set to
Profile	Change rate profile. Available options: preserve, set to

After all desired changes press "Preview" button to preview the results, and "Process" button to accept them.

Extra Rates

This tab allows you to apply an “extra charge” for calls belonging to defined origination group. To utilize this function, first you should go to *Configuration – Client Groups* and create an *Orig* type group. Then you need to decide which calls will belong to that group by either assigning this groups to customer's origination account, or by using *Presets* and *Traffic Processing*. After this is decided, simply access *Extra* tab in *Rate Tables* section and specify an extra charge that will be used for all calls in defined origination group.

Simulate

Rates analysis section gives you possibility to see exactly which rate will be used for specified DNIS, and also resulting cost, if such call would take place:

Screenshot: Simulating calls

The screenshot shows a software interface for simulating calls. It features a top navigation bar with tabs for 'Rates', 'Extra', 'Simulate', 'Import', 'Export', and 'Parameters'. The 'Simulate' tab is active. On the left, there are input fields for 'Number' (value: 1), 'Date' (value: 2013-04-02 00:00:00), and 'Duration' (value: 60 sec). A 'Process' button is located below these fields. On the right, a table displays the simulation results. The table has columns for Code, Call Cost, Effective Date, Rate, Parameters, and Billed Time. One row is visible with the following data: Code: 1 North America, Call Cost: 0.0231 USD, Effective Date: 02/04/2013 00:00:00 +0300, Rate: 0.0231 USD, Parameters: 1 / 1 / 0, and Billed Time: 60 sec.

Description of analyze parameters is following:

Field	Description
Number	Specify number for simulation
Date	Specify the call date
Duration	Specify call duration in seconds

After specifying all necessary parameters, press "Process" button and wait for query results.

Import

On this page

- [Import Section Tab](#)
- [Rates Importing Process](#)
 - [Step 1. Selecting File and Specifying Additional Parameters](#)
 - [Step 2. Recognizing The File](#)
- [Mass Import](#)

Import Section Tab

Allows rates importing from Microsoft Excel *.CSV or *.XLS files (Screenshot).

Screenshot: Rate tables Import section tab

Custom-ExaServe [USD]

FILE PROCESS

Select file to import: Файл не выбран

Fields Delimiter: autodetect

IMPORT PROCESS

Date Format: auto auto

Custom date format:

On duplicate rates: Update with latest value

Enable confirm mode:

Deck update mode: Do not import anything to code deck

Code deck: DEFAULT

On errors: Import correct rows and show all found e

Notificator Code Deck:

IMPORT HISTORY (LAST IMPORT OPERATIONS)

Rows 1 – 1 of 1

Date	Login	File	New	Increased	Decreased	Unchanged	Pending	Total
2013-04-02 16:59:50+03	admin	rates-out-20130402 (1).csv	1848	0	0	0	0	1848

Process »

Close

Rates Importing Process

Whole import process can be logically divided in two steps.

Step 1. Selecting File and Specifying Additional Parameters

Open Import tab and select a file to import on your HDD.

This step also allows you to edit all information that was not present in import file (system will automatically paste most commonly used values), and set some configurations in regards to import process. These settings are following:

Field	Description
Date Format	Specify date format of imported file
Custom date format	If defined, this format will be used for date parsing instead of "Date Format" field
On duplicate rates	Decide what to do if a duplicate is found
	<ul style="list-style-type: none"> • Update with latest value If multiple duplicates were found, the last value is stored

	<ul style="list-style-type: none"> • Skip duplicate rows 	If there are multiple duplicates, only first value will be stored
	<ul style="list-style-type: none"> • Alert me about duplicates 	If duplicate is found, VCS will alert you about their presence
"Enable confirm mode" Checkbox	Enables confirmation mode for imported rates. While in this mode, all rates that are imported into system, will have to additionally pass confirmation check by billing operator	
Deck update mode	Decide how you want a code deck to be updated	
	<ul style="list-style-type: none"> • Do not import anything 	Leave selected code deck unchanged
	<ul style="list-style-type: none"> • Import only not existing codes 	Code deck will be updated with codes and their names, if it doesn't currently have this information
	<ul style="list-style-type: none"> • Import all codes (update existing) 	Code deck will be updated and codes will be updated with code names taken from file with overwriting of existent code names
	<ul style="list-style-type: none"> • Import all codes (purge code deck first) 	Code deck is fully cleared and then all codes and code names are imported from file
Code Deck	Select a code deck that you want to update with above settings (note that code deck specified settings here will only be available if you are importing file which contains <i>code names</i> in addition to <i>codes</i>)	
On errors	Decide, what system should do if file contains an error (data inconsistency, incorrect symbols etc.)	
	<ul style="list-style-type: none"> • Import correct rows and show all found errors 	Import error-free rows and display the list of errors, if any
	<ul style="list-style-type: none"> • If errors are found, abort import and show all errors 	If any error is found, stop import and display a list of errors
Notificator Code Deck	Specify code decks, that will be used for the next rates notification	

After selecting a file and specifying all additional parameters click "Process>>" button.

Step 2. Recognizing The File

System will recognize the file, and display few first rows of it. If there's need, make changes to the recognition of data (for instance, you can switch columns, if guess was not precise), and press "Process>>" again (Screenshot).

Screenshot: Rates importing process. Step 2

Rates Extra Simulate **Import** Export Parameters Custom-ExaServe [USD]

DEFAULT VALUES
 Effective Date: 2013-09-11 00:00:00 | End Date: | Profile: all time | Rate: 0 | Min Time: 1 | Interval: 1 | Grace Time: 0 | Setup Fee: 0 | Notes:

ROWS AND COLUMNS SELECT

Destination	Description	First Price	Skip
93	Afghanistan	0,2140	<input type="checkbox"/>
355	Albania	0,0685	<input type="checkbox"/>
35568	Albania (Cell)	0,2259	<input type="checkbox"/>
35569	Albania (Cell)	0,2259	<input type="checkbox"/>
213	Algeria	0,1480	<input type="checkbox"/>
2131	Algeria-cellular	0,1415	<input type="checkbox"/>
2135	Algeria Cellular	0,1440	<input type="checkbox"/>
2136	Algeria Cellular	0,1440	<input type="checkbox"/>
2137	Algeria (Cell)	0,1440	<input type="checkbox"/>
21390	Mobile	0,1440	<input type="checkbox"/>
21391	Algeria-Mobile Orascom	0,1440	<input type="checkbox"/>
21392	Algeria-Mobile Orascom	0,1440	<input type="checkbox"/>
21393	Algeria-Mobile Orascom	0,1440	<input type="checkbox"/>
21394	ALGERIA (MOBILE)	0,1440	<input type="checkbox"/>
21398	Algeria - Mobile/Special Services	0,1440	<input type="checkbox"/>
21399	Algeria - Mobile/Special Services	0,1440	<input type="checkbox"/>

Cancel « Return Process »

After you press "Process>>" for the last time, system will start importing process. When progress-bar reaches 100%, your import is done! Don't forget to confirm the rates, if you chose to import in "confirm mode".

Mass Import

If you need to upload several rates tables return to the main *Rate Tables* list and check boxes of required tables and then click "Import" button. After keep the procedure in the same as a usual rates importing.

Screenshot: Mass rates importing.

Import

Code	Code Name	Description	Rate table
		RATE TABLE: FGJ	
		Imported rows: 13449 ; Rows with errors: 0	
		RATE TABLE: TESTTG	
		Imported rows: 13449 ; Rows with errors: 0	
		RATE TABLE: TESTTG2_LONG_LONG_LONG_LONG_LONG_LONG_LONG_JOHNSON	
		Imported rows: 13449 ; Rows with errors: 0	

Close

Export

On this page

- [Export Section Tab](#)
- [Rates Exporting Process](#)
 - [Step 1. Specifying Filter Parameters](#)
 - [Step 2. Specifying Date And Format Options](#)
 - [Step 3. Selecting Columns To Export](#)

Export Section Tab

Rates exporting to Microsoft Excel *.CSV or *.XLS files (Screenshot).

You can use same search engine as provided on Rates tab, to decide which rates you would like to export (including confirmed/unconfirmed, old, current, future or current+future).

Screenshot: Rates exporting window

The screenshot shows the 'Export' section of a software interface. It is titled 'Custom-ExaServe [USD]' and has tabs for 'Rates', 'Extra', 'Simulate', 'Import', 'Export', and 'Parameters'. The 'Export' tab is active.

STEP 1: SPECIFY FILTER PARAMETERS

- current / new (dropdown) | 2013-09-11 11:32:06 (text)
- Code / Name: (text)
- Rate Group: Indeterminate (dropdown)
- Imported File: (text)
- Changes: (dropdown)
- Confirmed: (dropdown)
- Rate: (text) - (text) USD
- Min Time: (text) - (text) sec
- Profile: (dropdown)
- Setup Fee: (text) - (text) USD
- Interval: (text) - (text) sec
- Grace Time: (text) - (text) sec

STEP 2: SPECIFY DATE AND FORMAT OPTIONS

- Last export date: (text)
- Date Format: (text)
- Code Deck: (dropdown)
- Codes Output: separate rows (dropdown)
- Data format: Excel CSV (dropdown)
- Fields Delimiter: , (text)
- with headers row
- codes from code deck

STEP 3: SELECT COLUMNS TO EXPORT

- Column #1: Code (dropdown)
- Column #2: Code Name (dropdown)
- Column #3: Rate (dropdown)
- Column #4: (dropdown)
- Column #5: (dropdown)
- Column #6: (dropdown)
- Column #7: (dropdown)
- Column #8: (dropdown)
- Column #9: (dropdown)
- Column #10: (dropdown)
- Column #11: (dropdown)
- Column #12: (dropdown)
- Column #13: (dropdown)
- Column #14: (dropdown)

Buttons: Save, Process, Cancel

Rates Exporting Process

Whole export process can be logically divided in three steps.

Step 1. Specifying Filter Parameters

Here you need to fill next fields:

Field	Description
Code / Name	Specify code / name of exporting file
Rate Group	Specify rate group in case of jurisdictional billing
Imported File	Select imported file
Changes	Select changes (<i>Decreased, Increased, Not changed, New</i>)
Confirmed	Select, confirmed your file or not

Rate	Specify price interval
Setup Fee	Specify setup fee interval
Min Time, sec	Specify minimal time interval of tarificated calls
Interval, sec	Specify tarification interval
Profile	Select time profile (<i>all time, business time, non-business time, weekends</i>)
Grace Time, sec	Specify gracr time interval

Step 2. Specifying Date And Format Options

Fill here next fields:

Field	Description	
Last export date	Parameter that affects "Rate changes" field (depending on it exported rates will be marked as <i>new, changed, deleted</i> etc)	
Date Format	Date format in your export file. Syntax is following: for example, if you put "%d-%m-%Y" here, your date will look like 25-05-2011	
Code Deck	Select a code deck here to rewrite code names in export file if needed	
Codes Output	Specify how codes should be displayed. There are few options	
	<ul style="list-style-type: none"> • Separate rows 	Each code is placed into single row
	<ul style="list-style-type: none"> • Delimited list 	Codes are grouped by code name in a row, for example: 5510,5511,5512
	<ul style="list-style-type: none"> • Ranges list 	Codes are grouped by code name into ranges plus delimiter, for example: 5510-5512, 5515
Data Format	Specify output file format, XLS or CSV	
Fields Delimiter	Set delimiter for fields if you've chosen CSV	
"With headers row" Checkbox	Include column names into the file	
"Codes from code deck" Checkbox	Allows to additionally filter the export, by selecting only codes which are present in specified <i>Code Deck</i>	
Header text / Footer text	Allows you to additionally put some text into exported file as header and footer respectively	

Step 3. Selecting Columns To Export

Here you can specify columns to export. Column names are self explanatory, but please note that *Rate Changes* column holds data regarding your rate actuality (*new, changed, deleted* etc).

Press "Process" button and save exporting file when you finish setting the parameters.



Tip: rates sorting will be made by the very first column. For example, if you want rates to be sorted by A-Z destination name than make Code Name as first column.

Parameters

This tab allows you to correct or change any settings that you entered when you created current Rate Table, such as its *Name*, *Reseller*, *Currency* etc. (Screenshot):

Screenshot: Parameters section tab


The screenshot shows a software interface with a top navigation bar containing buttons for 'Rates', 'Extra', 'Simulate', 'Import', 'Export', and 'Parameters'. The 'Parameters' tab is active, and the window title is 'Custom-ExaServe [USD]'. The main area contains several input fields: 'Name' (text box with 'Custom-ExaServe'), 'Reseller' (dropdown menu with 'Reseller B'), 'Code deck' (dropdown menu with 'DEFAULT'), 'Currency' (dropdown menu with 'USD'), and a checkbox for 'Rates with taxes' which is checked. Below these is a 'Description' text area. On the right side, there is a metadata section with 'Created on: 02/04/2013 16:57:23 +0300' and 'Last edited on: 18/06/2013 14:20:46 +0300'. At the bottom right, there are three buttons: 'OK', 'Cancel', and 'Apply'.

Invoices

On this page

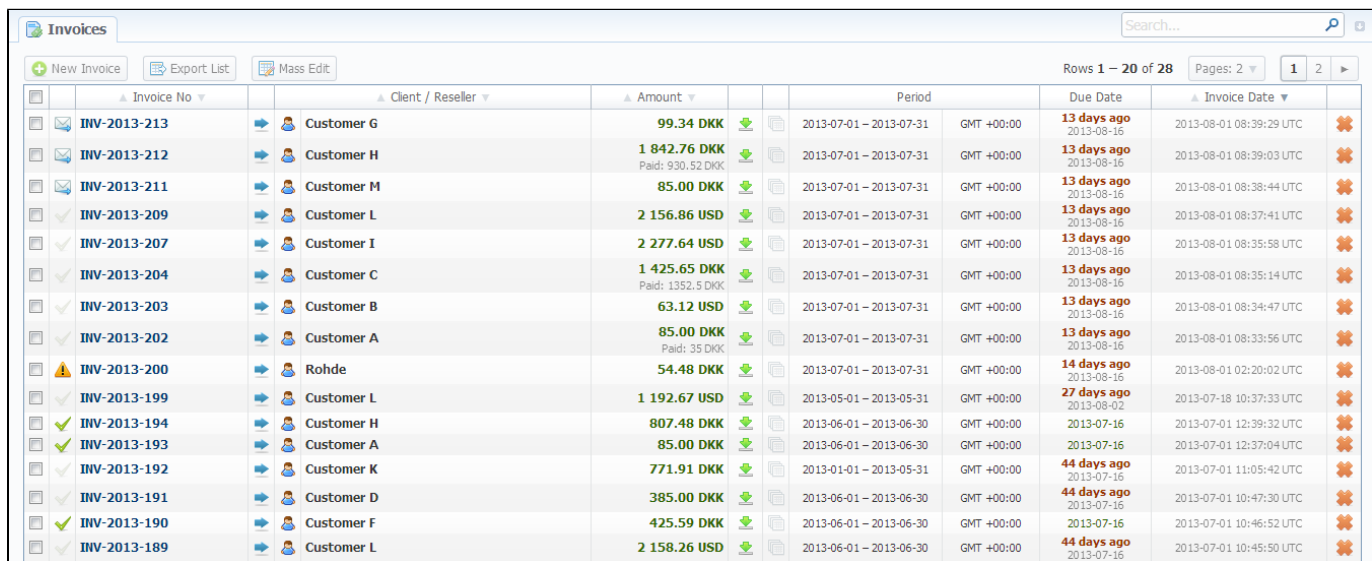
- [Invoices Section Main Window](#)
- [Creating New Invoice](#)

Invoices Section Main Window

Allows you to create and manage all outgoing and incoming invoices. By pressing  button you can download and view respective invoice file, and by pressing "Export List" you can download currently stored invoices list as CSV file.

Main window is presented as list:



Screenshot: Invoices section main window








Invoice No	Client / Reseller	Amount	Period	Due Date	Invoice Date
INV-2013-213	Customer G	99.34 DKK	2013-07-01 - 2013-07-31	13 days ago	2013-08-15
INV-2013-212	Customer H	1 842.76 DKK	2013-07-01 - 2013-07-31	13 days ago	2013-08-15
INV-2013-211	Customer M	85.00 DKK	2013-07-01 - 2013-07-31	13 days ago	2013-08-15
INV-2013-209	Customer L	2 156.86 USD	2013-07-01 - 2013-07-31	13 days ago	2013-08-15
INV-2013-207	Customer I	2 277.64 USD	2013-07-01 - 2013-07-31	13 days ago	2013-08-15
INV-2013-204	Customer C	1 425.65 DKK	2013-07-01 - 2013-07-31	13 days ago	2013-08-15
INV-2013-203	Customer B	63.12 USD	2013-07-01 - 2013-07-31	13 days ago	2013-08-15
INV-2013-202	Customer A	85.00 DKK	2013-07-01 - 2013-07-31	13 days ago	2013-08-15
INV-2013-200	Rohde	54.48 DKK	2013-07-01 - 2013-07-31	14 days ago	2013-08-15
INV-2013-199	Customer L	1 192.67 USD	2013-05-01 - 2013-05-31	27 days ago	2013-08-02
INV-2013-194	Customer H	807.48 DKK	2013-06-01 - 2013-06-30		2013-07-16
INV-2013-193	Customer A	85.00 DKK	2013-06-01 - 2013-06-30		2013-07-16
INV-2013-192	Customer K	771.91 DKK	2013-01-01 - 2013-05-31	44 days ago	2013-07-16
INV-2013-191	Customer D	385.00 DKK	2013-06-01 - 2013-06-30	44 days ago	2013-07-16
INV-2013-190	Customer F	425.59 DKK	2013-06-01 - 2013-06-30		2013-07-16
INV-2013-189	Customer L	2 158.26 USD	2013-06-01 - 2013-06-30	44 days ago	2013-07-16

It displays all created invoices. Description of list's columns is following:

Column Name	Description
Invoice No	Number of invoice
Client / Reseller	Name of client or reseller with corresponding icon
Amount	Total invoice sum
Period	Invoice period
Due Date	Shows due date for specific invoice
Invoice Date	Invoice creation date

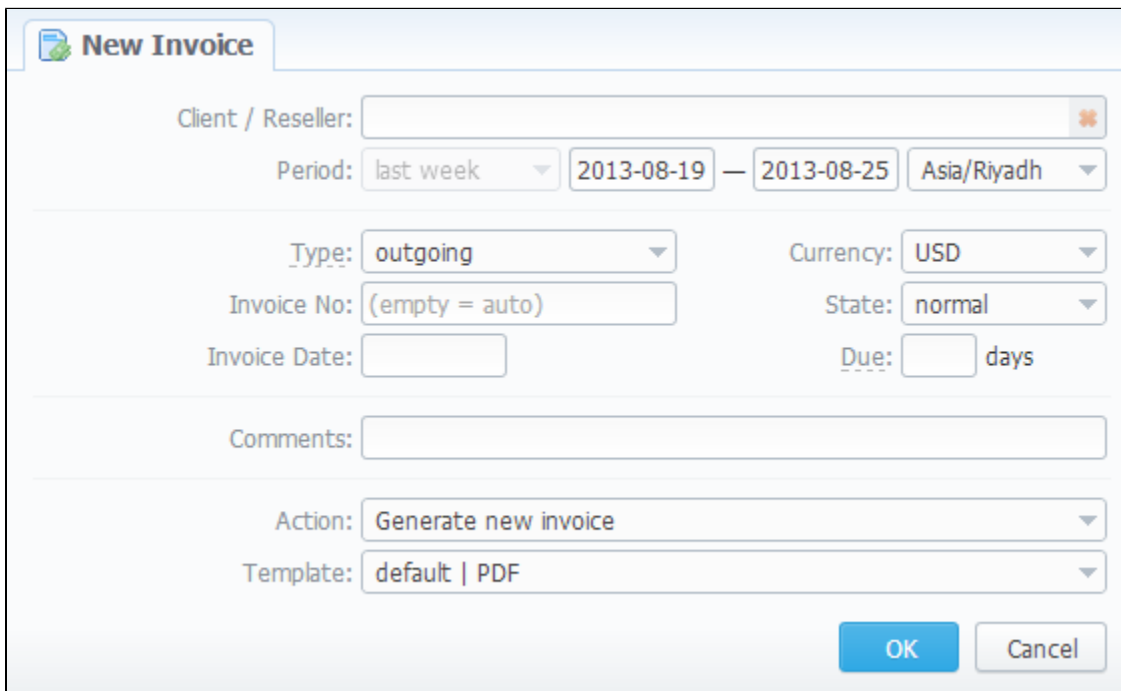
Icon	Description
	This icon tells you that respective invoice was paid in full. If the invoice is not fully paid, this icon will be grey
	This icon defines to <i>verify state</i> and tells you that this invoice is awaiting to be checked before it will be sent to client

	This icon defines <i>to send state</i> , and this means that invoice is in sending queue
	Outgoing invoice
	Incoming invoice
	By pressing this icon you can download and view respective invoice file
	By pressing this icon you can delete respective invoice

Creating New Invoice

Invoices are created through “New Invoice” button. When you press it, a pop-up window will show up:

Screenshot: Create Invoice window



Here you can select a client or reseller, invoice currency, invoice number (leave this field empty for automatic number generation) and select the state of this newly created invoice (*to send*, *to verify* or *normal*). In “*Invoice Date / Due (days)*” field you can specify the actual invoicing date and payment due in days. Also you can “*Generate new invoice*” or “*Attach existing invoice*”.

When “*Attaching existing invoice*” you can only additionally specify the invoice destination (incoming or outgoing), specify the sum of the invoice and attach the invoice file. This feature is mainly used when your invoice was generated by some other third-party software.

When “*Generate new invoice*” is selected, you possess the following invoicing instruments:

- **Period** - specify the period of statistics that will be included into invoice;
- **Output in** – specify the resulting file format, PDF or XLS;
- **By template** – select a template that should be used to create current invoice. These templates define your invoice contents and look and are created and managed in *Configuration – Invoices Templates* section.



Tip: All automatically created invoices will be in *check* state. To send the invoice to client you will need to change its state to *send* state manually!

Transactions

On this page

- [Transactions Section Main Window](#)
- [Adding New Payment](#)
- ["Import Transactions" and "Export List" Buttons](#)

Transactions Section Main Window

This section allows you to perform financial operations with client's / reseller's balances and also track all balance changes within system. Main window is displayed as a list of performed payments:

Screenshot: Transactions section main window

ID	Payment Account	Client / Reseller	Amount	Taxes cost	Comments	Transaction Date
6686	Charge: Products	Customer F	-85.00 DKK	0.00 DKK	Package periodical payment: CP - Go - 2 Lines + 10 Numbers	30/08/2013 12:06:14 AST
6685	Charge: Products	Customer J	-7.00 USD	0.00 USD	Package periodical payment: EC - Go - Extra 10 Numbers	30/08/2013 12:06:14 AST
6684	Charge: Products	GO-Demo1	-85.00 DKK	0.00 DKK	Package periodical payment: CP - Go - 2 Lines + 10 Numbers	30/08/2013 12:06:14 AST
6683	Payment: Paypal AccA	Booth 01	15.00 USD	0.00 USD	activation	15/08/2013 13:14:35 AST
6682	Payment: Paypal AccA	Booth 04	10.00 DKK	0.00 DKK	activation	15/08/2013 13:14:27 AST
6681	Payment: Paypal AccA	Booth 02	20.00 DKK	0.00 DKK	activation	15/08/2013 13:14:14 AST
	Charge: Calls	Customer J	-0.35 USD	0.00 USD		12/08/2013 21:00:00 AST
	Charge: Calls	Vendor B	0.92 DKK	0.00 DKK		12/08/2013 21:00:00 AST
	Charge: Calls	Customer J	-0.07 USD	0.00 USD		12/08/2013 19:00:00 AST
	Charge: Calls	Vendor C	0.04 USD	0.00 USD		12/08/2013 19:00:00 AST
	Charge: Calls	Vendor B	1.66 DKK	0.00 DKK		12/08/2013 18:00:00 AST
	Charge: Calls	Customer J	-0.64 USD	0.00 USD		12/08/2013 18:00:00 AST
	Charge: Calls	Vendor B	3.26 DKK	0.00 DKK		12/08/2013 17:00:00 AST
	Charge: Calls	Vendor D	0.00 USD	0.00 USD		12/08/2013 17:00:00 AST
	Charge: Calls	Customer J	-1.27 USD	0.00 USD		12/08/2013 17:00:00 AST
	Charge: Calls	Vendor C	0.19 USD	0.00 USD		12/08/2013 16:00:00 AST
	Charge: Calls	Customer I	-0.41 USD	0.00 USD		12/08/2013 16:00:00 AST
	Charge: Calls	Vendor D	0.14 USD	0.00 USD		12/08/2013 16:00:00 AST
	Charge: Calls	Vendor B	0.18 DKK	0.00 DKK		12/08/2013 16:00:00 AST
	Charge: Calls	Customer J	-0.07 USD	0.00 USD		12/08/2013 16:00:00 AST

Payments list columns have the following meaning:

Column Name	Description
ID	A payment thorough ID number
Payment Account	Displays respective payment account, related to a performed payment
Client / Reseller	Displays the name of client or reseller that was engaged in payment operation
Amount	The respective payment operation sum
Taxes Cost	The respective taxes cost
Comments	Comments about respective payment
Transaction Date	Displays respective payment date, related to a performed payment



Tip: The "Group Call Charges" field in Advanced Search panel of this section allows you to see payments and charges not only "Hourly" (like in previous versions), but also to switch to "Daily", "Weekly" and "Monthly" outlook.

Adding New Payment

To add a payment press "New Transaction" button. In new window specify such parameters as: transaction date, select a client or reseller, payment account, amount, etc. and press "OK" button (Screenshot).

Screenshot: New transaction window

New Transaction


Client / Reseller:


Amount: Type:

Payment Account:

Comments:

Transaction Date: Status:

 **Tip:** For incoming payment select "Payment" operation type, for outgoing charge – select "Charge".

 **Tip:** If you change transaction *Status* in respective field from "Approved" to "Pending" when adding a payment, that payment will have to pass additional approval check by billing operator.

"Import Transactions" and "Export List" Buttons

If you press "Import Transactions" button, you will be able to perform import of payments. Simply click this button and follow on-screen instructions. There are only 4 important fields that your file should include, being: customer name, payment sum, payment date and payment description.

If you press "Export List" button, you will be able to export all currently stored payments as CSV file.

You can edit payment properties by pressing respective transaction icon.

Balance Report

On this page

- [Balance Report Section Main Window](#)
- [Forming The Analysis Report](#)

Balance Report Section Main Window

This section represents a Balance Report analysis tool. It displays full history of client's charges and payments for selected period. Main window is displayed as a search form:

Screenshot: Balance Report section main window

The screenshot shows the 'Balance Report' window with the following search parameters:

- Period: this month (dropdown), 2013-08-01 00:00:00 – 2013-08-30 23:59:59 (date range), Asia/Riyadh (location), all time (frequency)
- Client: (empty dropdown)
- Mode: Accountant (dropdown)
- Currency: USD (dropdown)
- Output: Web (dropdown)
- Group By #1: (empty dropdown)
- Group By #2: (empty dropdown)
- Buttons: About, Get Support, 0.1246s, and a blue 'Query' button.

Forming The Analysis Report

To form the analysis report do the following: specify period, client (leave empty field for all) and report mode: *Accountant* – builds report with data that includes received payments and issued invoices (this effectively builds *Accountant* balance, useful data for postpaid), or *Live Balance* – builds report by received payments and call processing charges (this effectively builds *Current* balance, useful data for prepaid). Press “*Query*” button when done. The analysis report would look like on screenshot below:

Screenshot: Forming the analysis report

Client	Payment Account	Document	Date	Start Balance	Debit	Credit	End Balance
				0.00 USD	7 171.26 USD	4 874.78 USD	2 296.48 USD
Rohde DKK	Accounts Receivable	Invoice INV-2013-184 DKK	01/07/2013 05:20:03 AST	0.00 USD	59.41 USD 222.77 DKK		59.41 USD
Customer A DKK	Paypal Acca / Reseller A	Payment 4539 Paid with paypal:323-54	01/07/2013 10:37:49 AST	59.41 USD		100.00 USD 375.00 DKK	-40.59 USD
Customer K DKK	Accounts Receivable	Invoice INV-2013-185 DKK	01/07/2013 13:08:30 AST	-40.59 USD	494.69 USD 1 855.08 DKK		454.09 USD
Customer B	Accounts Receivable	Invoice INV-2013-186 DKK	01/07/2013 13:11:34 AST	454.09 USD	105.32 USD		559.41 USD
Customer M DKK	Accounts Receivable	Invoice INV-2013-187 DKK	01/07/2013 13:12:41 AST	559.41 USD	102.67 USD 385.00 DKK		662.08 USD
Customer I	Accounts Receivable	Invoice INV-2013-188 DKK	01/07/2013 13:44:54 AST	662.08 USD	2 398.26 USD		3 060.34 USD
Customer L	Accounts Receivable	Invoice INV-2013-189 DKK	01/07/2013 13:45:50 AST	3 060.34 USD	2 158.26 USD		5 218.60 USD
Customer F DKK	Accounts Receivable	Invoice INV-2013-190 DKK	01/07/2013 13:46:52 AST	5 218.60 USD	113.49 USD 425.59 DKK		5 332.09 USD
Customer D DKK	Accounts Receivable	Invoice INV-2013-191 DKK	01/07/2013 13:47:30 AST	5 332.09 USD	102.67 USD 385.00 DKK		5 434.76 USD
Customer K DKK	Accounts Receivable	Invoice INV-2013-192 DKK	01/07/2013 14:05:42 AST	5 434.76 USD	205.84 USD 771.91 DKK		5 640.60 USD
Customer A DKK	Accounts Receivable	Invoice INV-2013-193 DKK	01/07/2013 15:37:04 AST	5 640.60 USD	22.67 USD 85.00 DKK		5 663.27 USD
Customer H DKK	Accounts Receivable	Invoice INV-2013-194 DKK	01/07/2013 15:39:32 AST	5 663.27 USD	215.33 USD 807.48 DKK		5 878.59 USD
Customer H DKK	ExaCaller	Payment 5400 DKK ACZ354-4234	16/07/2013 16:08:19 AST	5 878.59 USD		3 076.53 USD 11 537.00 DKK	2 802.06 USD
Customer L	Accounts Receivable	Invoice INV-2013-199 DKK	18/07/2013 13:37:33 AST	2 802.06 USD	1 192.67 USD		3 994.73 USD
Customer I	Authorize.Net ACC B / Reseller B	Payment 5684 Check:Payment	21/07/2013 13:54:53 AST	3 994.73 USD		1 503.05 USD	2 491.68 USD

Report fields description:

Column Name	Description
-------------	-------------

Client	Name of client/reseller/calling card/call shop for that current operation is assigned to
Payment Account	Displays respective payment account, where performed payment was assigned
Document	Which document an operation corresponds to (invoice 100, for example)
Date	Operation date
Start Balance	Start client's balance prior to respective operation
Debit	Operation sum, that has positive income (incoming payment / invoice etc.)
Credit	Operation sum, that has negative income (outgoing payment / invoice etc.)
End Balance	Final client's balance after respective operation



Tip: To get information sorted by multiple clients, please select *Group by: Client* setting. You can do the same for *Payment Accounts* as well.

Resellers

On this page

- [Resellers Section Main Window](#)
- [Adding New Company](#)
- [Reseller Removal](#)
- [Configuring Mail Templates](#)

Resellers Section Main Window

This section allows you to specify the information about your company and make use of *Reseller and Agent features*. Main window of this section is presented on screenshot:

Screenshot: Resellers section main window

ID	Name	Available Balance	Clients	Cards	Call Shops
3	Reseller A	No Limit DKK	10	0	5
6	Reseller B	No Limit DKK	7	0	0
37	Sub-Reseller B-1	2 500.00 USD	1	0	0

Adding New Company

To add a company, press “New Company” button, and a window with Reseller’s properties will open (Screenshot down below).

Screenshot: Adding new reseller

SYSTEM INFORMATION

Name:

Parent:

Currency:

Status:

Tax Profile:

VoIP Gateways:

ORIGINATOR SETTINGS

Allowed Credit: USD

ORIG Rates:

Routing Plan:

ORIG Capacity:

INVOICING INFORMATION

Date:

Template:

No Tpl:

Last No:

CONTACT INFORMATION

E-mail:

Postal Address:

Tax ID:

Reg ID:

Bank Account:

COMPANY LOGO

Файл не выбран

TERMINATOR SETTINGS

TERM Rates:

TERM Capacity:

MAIL TEMPLATE: INVOICE

MAIL TEMPLATE: PAYMENT REMINDER NOTIFICATION

MAIL TEMPLATE: LOW BALANCE NOTIFICATION

MAIL TEMPLATE: RATES NOTIFICATOR

Section	Fields Description
System Information	General information about client

	<ul style="list-style-type: none"> • Name 	A resellers's name
	<ul style="list-style-type: none"> • Parent 	Select a parent for this reseller
	<ul style="list-style-type: none"> • Currency 	Preferred currency for rates and invoices
	<ul style="list-style-type: none"> • Status 	Current reseller status
	<ul style="list-style-type: none"> • Tax Profile 	Select a tax profile, that will be used for this reseller
	<ul style="list-style-type: none"> • VoIP Gateways 	Select respective gateways that are allowed to this reseller
Originator Settings	Current reseller's billing settings are specified here	
	<ul style="list-style-type: none"> • Allowed Credit 	Enter a credit value for your reseller here
	<ul style="list-style-type: none"> • ORIG Rates 	Rates for incoming calls from customers under current reseller (by which you sell route to the reseller). Requires resellers billing mode enable
	<ul style="list-style-type: none"> • Routing Plan 	Default routing plan for customers of this reseller, if no other specified in client profile
	<ul style="list-style-type: none"> • ORIG Capacity 	Origination capacity from this reseller summed for all clients that belong to him. Leave this field empty for unlimited capacity
Terminator Settings	Current reseller's billing settings are specified here	
	<ul style="list-style-type: none"> • TERM Rates 	Rates for outgoing calls to providers under this reseller (by which you buy from the reseller). Requires resellers billing mode enable
	<ul style="list-style-type: none"> • TERM Capacity 	Termination capacity to this reseller summed for all clients that belong to him. Leave this field empty for unlimited capacity
Invoicing Information	Current reseller's invoicing settings are specified here	
	<ul style="list-style-type: none"> • Date 	<p>Allows you to select how system sets invoicing date:</p> <ul style="list-style-type: none"> • Real date – sets invoicing date to actual invoicing date • Last day – sets invoicing date to date of last day of invoicing period
	<ul style="list-style-type: none"> • Template 	Select default template to be used with this reseller's clients
	<ul style="list-style-type: none"> • No Tpl 	Allows to define default format of invoice's name
	<ul style="list-style-type: none"> • Last No 	Define last used invoice number here

Contact Information	Some additional information about reseller can be entered here	
	• E-mail	Company's e-mail
	• Postal Address	Company's postal address
	• Tax ID	An ID of tax paying entity
	• Reg ID	Company's registration ID
	• Bank Account	Company's bank account info
Company Logo	Here you can add the file with company's logo	



If you specify rate tables in Termination / Origination Settings the Reseller Billing Mode will be enabled automatically. It means that during querying Summary or CDRs Report the statistics' rates will be displayed considering to specified rate tables.

Reseller Removal

To delete a Reseller from the system change the status from Active to Deleted in Reseller's Properties window. But pay attention that in fact a reseller will not be deleted fully, it will be put to *Archive*. To find it just choose Archive Mode in the right top under Resellers List. (Screenshot below)

ID	Name	Available Balance	Mode
144	CUS_1	100.00 USD	1
134	CUST1	0.00 USD	0
3	Demo Reseller 01	No Limit USD	16
6	Demo Reseller 02	10 000.00 USD	0
9	Demo SubReseller 02	No Limit USD	0
10	Demo Manager 02	No Limit USD	0
140	HUSNABI_CUST	0.00 USD	1

Configuring Mail Templates

Also, there are 4 different mail templates you can configure for your company. They are:

Template Name	Description
Mail Template: Invoice	Is used when sending invoice to the customer
Mail Template: Payment Reminder Notification	Is used when sending payment notification to the customer
Mail Template: Low Balance Notification	Is used when sending low balance notification to the customer
Mail Template: Rates Notificator	Is used when sending rate changes notification to the customer

To configure any of these templates, click on its name. As an example here presented templates configuration syntax concerning Resellers data, which is the following:

Templates Configuration Syntax	Description
<code>\${company_name}</code>	The name of reseller or company
<code>\${company_email}</code>	The e-mail of reseller or company
<code>\${company_payinfo}</code>	Reseller or company bank details
<code>\${company_address}</code>	Post address of reseller or company

<code>\${['c_dt']}</code>	Invoice date
<code>\${['period_start']}</code>	Invoice period start
<code>\${['period_finish']}</code>	Invoice period end
<code>\${['c_company']}</code>	Invoiced company name
<code>\${['c_address']}</code>	Invoiced company address
<code>\${['c_email_billing']}</code>	Invoiced company e-mail
<code>\${['total']}</code>	Invoice total sum
<code>\${['no']}</code>	Invoice number

Retail Details

This document will describe everything that concerns the retail functions of JeraSoft VoIP Carrier Suite. Please note, that for all this functions to be available to you, your JeraSoft VCS installation should include the Retail Module.

In addition to vast wholesale functionality, JeraSoft VCS offers rich retail functions, which are described in below sections of this document. Each section describes an important aspect of retail-based VoIP business, and among features you may find Calling Cards, Payment Gateways, Subscription Packages, Top-Up Cards and Call Shops. All of these features are grouped within *Retail* section of your JeraSoft VCS solution.

For more detailed information please check the related subsections:

- [Calling Cards](#)
- [Top-up Cards](#)
- [Call Shops](#)
- [Packages](#)
- [DID Management](#)
- [Payment Gateways](#)

Calling Cards

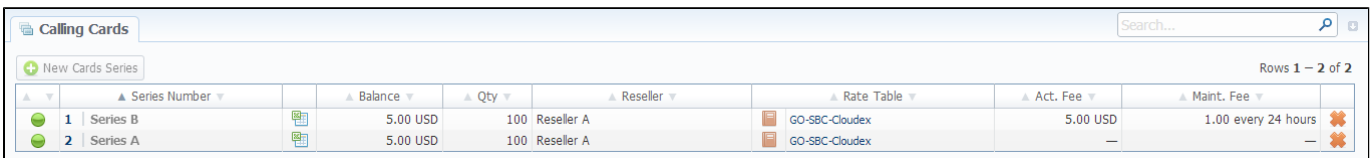
On this page

- [Calling Cards Section Main Window](#)
- [Creating Card Series](#)
- [Calling Card Series Properties](#)

Calling Cards Section Main Window

This section represents built-in calling card generator that allows you to generate card series for prepaid customers. Each generated card is considered a billing client, so customer can perform calls, login to his control panel to browse statistics and other relevant information. Main window of this section looks like on screenshot:

Screenshot: Calling Cards section main window

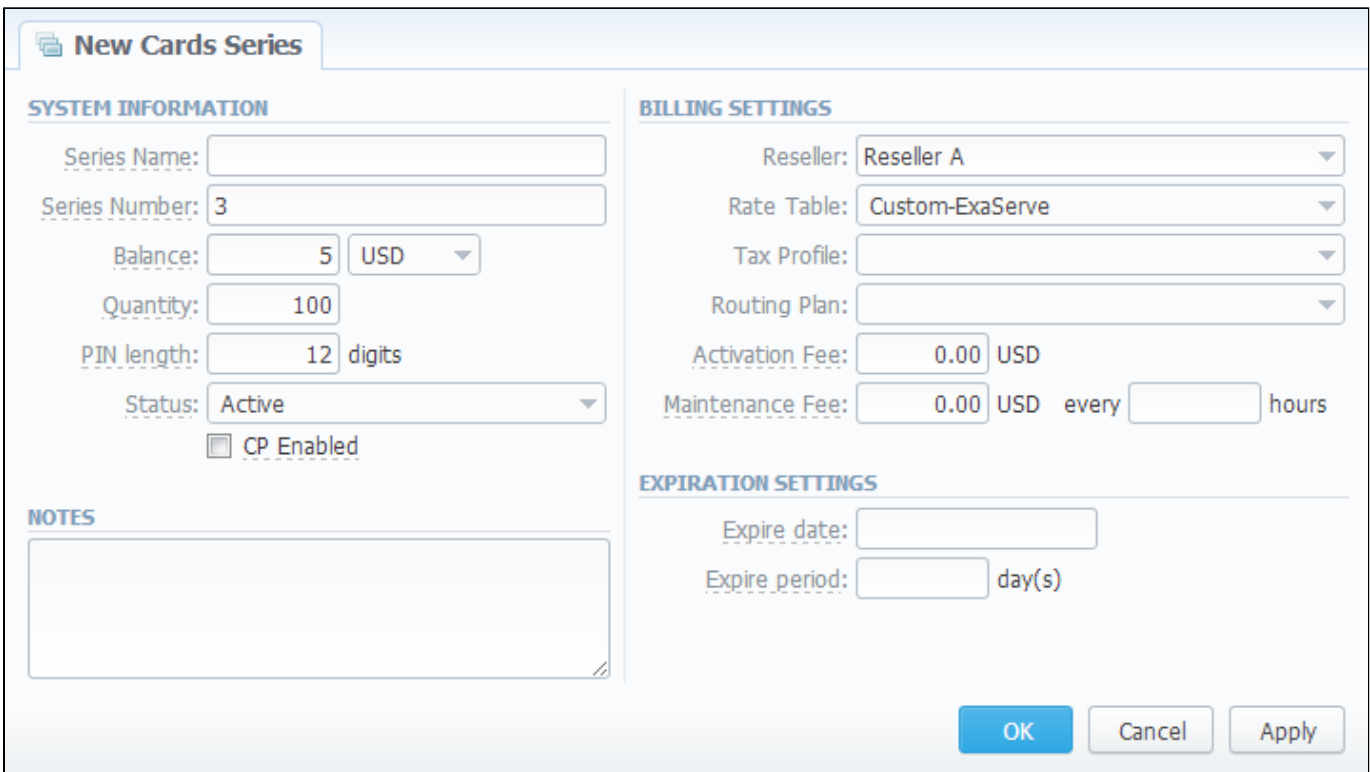


Series Number	Balance	Qty	Reseller	Rate Table	Act. Fee	Maint. Fee
1 Series B	5.00 USD	100	Reseller A	GO-SBC-Cloudex	5.00 USD	1.00 every 24 hours
2 Series A	5.00 USD	100	Reseller A	GO-SBC-Cloudex	—	—

Creating Card Series

To create card series, press «New Cards Series» button. A new window will pop-up:

Screenshot: Generate card series window



SYSTEM INFORMATION

Series Name:

Series Number:

Balance:

Quantity:

PIN length: digits

Status:

CP Enabled

NOTES

BILLING SETTINGS

Reseller:

Rate Table:

Tax Profile:

Routing Plan:

Activation Fee: USD

Maintenance Fee: USD every hours

EXPIRATION SETTINGS

Expire date:

Expire period: day(s)

Enter all required info in fields below:

Field Name	Description
Series Name	A name that describes current card series
Series Number	A code of card series. This code will prepend serial number
Balance	Cards balance value within current series
Quantity	Quantity of calling cards within current series
PIN length	Specify a desired PIN-code length for current calling card series (it can not be less than 8 digits)
Status	An initial status of created call cards within series. Can be changed later in card series settings
"CP Enabled" checkbox	Whether calling card users should be able to login to their control panels or not. If enabled, user can login to control panel by using card serial number as login and PIN-code as password
Reseller	Defines what reseller owns current calling card series
Rate Table	What rate table should be used with calling cards within current series
Routing Plan	Select a routing plan for current card series
Activation Fee	Enter activation fee in this field
Maintenance Fee	When specified number of days pass, starting from activation date, current calling card series will be expired
Expire date	Current calling cards series will be expired on specified date
Expire period	When specified number of days pass, starting from activation date, current calling card series will be expired

Calling Card Series Properties

After «OK» button is pressed, calling cards series will be created, and appear in the list of section main window. To open series properties, click on series name. In a properties window you will have access to the following information:

- **Number** – number of a card within current series;
- **Balance** – current balance of respective calling card;
- **PIN** – respective calling card PIN-number.

Also, here you can perform a card search with search form, and export whole card series to a CSV file by pressing «*Download CSV*» button.

If you go to *Parameters* tab, you will be able to change some of the parameters you've entered when creating series.



Note: Calling Cards feature works only via RADIUS-protocol, so to make use of it, you need to have RADIUS enabled. Also, you would like to use the specific platform, that is able to handle calling card series authorization, for example Mera IP Centrex or Quintum Tenor DX (class 5 switch).

Top-up Cards

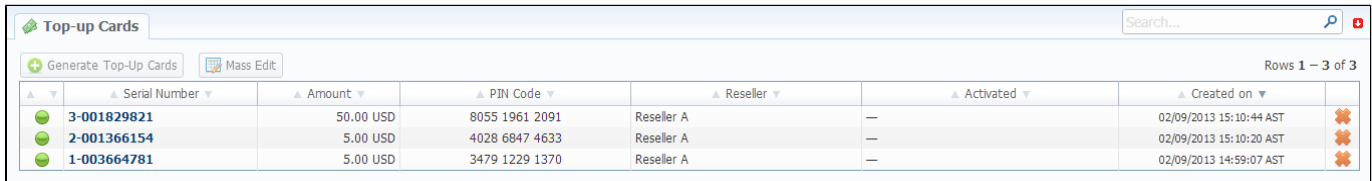
On this page

- [Top-up Cards Section Main Window](#)
- [Creating New Series](#)

Top-up Cards Section Main Window

Top-up Cards section allows you to generate series of top-up cards for your customers, which they can use to recharge their balance. Main window of this section is displayed on screenshot:

Screenshot: *Top-Up Cards section main window*



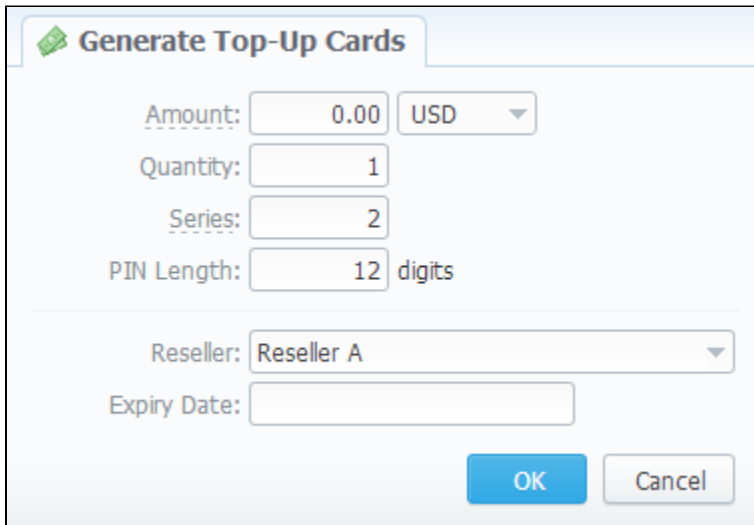
The screenshot shows the 'Top-up Cards' main window. It features a search bar at the top right and two buttons: 'Generate Top-Up Cards' and 'Mass Edit'. Below these is a table with 7 columns: Serial Number, Amount, PIN Code, Reseller, Activated, and Created on. The table contains 3 rows of data.

Serial Number	Amount	PIN Code	Reseller	Activated	Created on
3-001829821	50.00 USD	8055 1961 2091	Reseller A	—	02/09/2013 15:10:44 AST
2-001366154	5.00 USD	4028 6847 4633	Reseller A	—	02/09/2013 15:10:20 AST
1-003664781	5.00 USD	3479 1229 1370	Reseller A	—	02/09/2013 14:59:07 AST

Creating New Series

To create new series, press «*Generate Top-Up Cards*» button and in the pop-up window (Screenshot below) fill the following fields:

Screenshot: *Generating Top-up Cards window*



The screenshot shows the 'Generate Top-Up Cards' pop-up window. It contains several input fields: 'Amount' (0.00 USD), 'Quantity' (1), 'Series' (2), 'PIN Length' (12 digits), 'Reseller' (Reseller A), and 'Expiry Date'. There are 'OK' and 'Cancel' buttons at the bottom.

Field Name	Description
Amount	Cards balance value within series
Quantity	Quantity of cards within series
Series	A code identifier of card series. This code will prepend a serial number
PIN Length	Specify a desired PIN-code length for current calling card series (it can not be less than 8 digits)

Reseller	Defines what reseller owns current calling card series
Expiry date	Current calling cards series will be expired on specified date

After top-up card series is created, your customers will be able to enter respective PINs in their control panel in *Payment Gateways* section, to recharge their balance (respective rights for users are required).

Call Shops

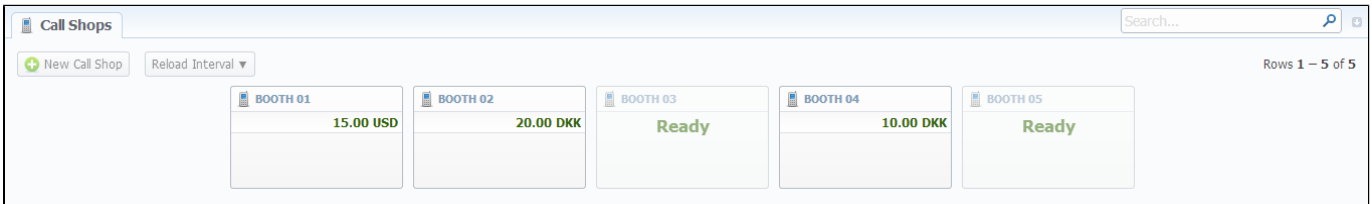
On this page

- [Call Shops Section Main Window](#)
- [Creating New Call Shop](#)

Call Shops Section Main Window

Call Shops section allows you to create and manage call shop networks. Each call shop is RADIUS-based customer. That's why for correct work of Call Shops module, RADIUS should be enabled. Main window is presented on screenshot:

Screenshot: Call Shops section main window




Creating New Call Shop

To create new call shop, press «New Call Shop» button and in the pop-up window (Screenshot below) fill the following details:

Screenshot: Creating new call shop

Field Name	Description
Name	Enter name for call shop
Reseller	Select a reseller that will be owner of this call shop
Currency	Specify preferred currency
Timezone	Choose preferred timezone
Status	Select a status for this call shop
Allowed Credit	Specify credit value here
Rate Table	Choose a rate table this call shop will be using

Tax Profile	Specify a Tax Profile this call shop will be using
Routing Plan	Select a routing plan here, if you wish to use dynamic routing for this call shop
Capacity	You can limit origination capacity for this callshop in this field

After all information is entered, press «OK» and call shop will appear on the list. Then you need to click  icon and go to *Accounts* tab, where you need to fill call shop's account in same fashion as you did for your generic clients. After that is done, call shop is ready to be used.

Packages

On this page

- [Packages Section Main Window](#)
- [Adding New Package](#)
- [Packages Tab](#)
- ["Add Package" Button](#)

Packages Section Main Window

The *Packages* section is there to help you add and manage any one-time or periodic additional services that your company may provide in addition to VoIP. For example, you may create a package that resembles a rent of some equipment or create a free-minutes promotional package. The main window is a list that displays all packages that are currently available (Screenshot below):

Screenshot: *Packages section main window*



ID	Name	Activation Fee	Subscription Fee	Period	Reseller	
16	Australia 1 Number+1 Line	0.00 USD	32.50 USD	1 month(s)	Reseller B	
18	Australia Extra Line	0.00 USD	25.00 USD	1 month(s)	Reseller B	
17	Australia Extra Number	0.00 USD	7.50 USD	1 month(s)	Reseller B	
21	Bahrain 1 Number+1 Line	0.00 USD	40.00 USD	1 month(s)	Reseller B	
20	Bahrain Extra Line	0.00 USD	25.00 USD	1 month(s)	Reseller B	
19	Bahrain Extra Number	0.00 USD	15.00 USD	1 month(s)	Reseller B	
22	Canada 1 Number+1 Line	0.00 USD	27.50 USD	1 month(s)	Reseller B	
24	Canada Extra Line	0.00 USD	25.00 USD	1 month(s)	Reseller B	
23	Canada Extra Number	0.00 USD	2.50 USD	1 month(s)	Reseller A	
1	CP - Go - 2 Lines + 10 Numbers	0.00 DKK	85.00 DKK	1 month(s)	Reseller A	
14	CP - Go - Extra 10 Numbers	0.00 DKK	25.00 DKK	1 month(s)	Reseller A	

Adding New Package

You can add new package by pressing «*New Package*» button. New window that opens contains the following information (Screenshot below):

Screenshot: *Package properties*

New Package

Name:

Reseller: Reseller A ▼

Code Deck: ▼

Status: Active ▼

BILLING SETTINGS

Period: Y M D H

Activation Fee: 0.00 USD ▼

Subscription Fee: 0.00 USD

Fees include taxes

Align to Payment Terms

Recalculate to Period

PACKAGE APPLICATION

Priority: 1

Deal Start Date:

Deal End Date:

DID LIMITS

Number of DID's: 0

Allowed DID groups: ... ▼

VOLUME LIMITS +

! No Volume Limits

DISCOUNTS +


! No Discounts

OK
Cancel
Apply

Field Name	Description
Name	Name of your package
Reseller	Specify an owner for this package
Code Deck	Specify Code Deck if you plan to create <i>limits</i> by using Code Names
Status	Current status of package (<i>Active, Disabled, Archive</i>)
Period	Specify a period for current package if it's renewable
Activation Fee	A fee that will be charged upon package activation
Subscription Fee	A fee that will be charged upon package renewal
"Fees include taxes" Checkbox	If enabled, taxes are included into package prices, if disabled – taxes will be calculated with respective Tax Profile of customer
"Align to Payment Terms" Checkbox	Allows system to align period of package to customer's payment Terms, evening Package billing with actual invoicing for voice traffic
"Recalculate to Period" Checkbox	Allows subscription cost recalculation for remaining days in Payment Terms period, if Package was activated somewhere in the middle of mentioned period
Priority	If there are multiple packages that satisfy a call, then a package with highest priority will be used
Deal Start Date	Package's limits and discounts are only effective after specified date
Deal End Date	Package's limits and discounts are disabled after specified date
DID Limits	Specify how many DID's and from which group can be assigned to a customer with this package
	<ul style="list-style-type: none"> • Number of DID's How many DID's can be assigned at the same time

	<ul style="list-style-type: none"> • Allowed DID groups 	From which group DID's are picked for customer
Volume Limits	Here you can create promotional minute packets that will be included into package	
	<ul style="list-style-type: none"> • Code 	Specify a code
	<ul style="list-style-type: none"> • Code Name 	Specify a code name from selected Code Deck
	<ul style="list-style-type: none"> • Limit (min) 	Enter amount of free minutes that will be used in current promotion for specified code or code name
Discounts	A promotional discount on package "Subscription Fee", applied after given number of package reactivations	
	<ul style="list-style-type: none"> • Activation Count 	Specify which activation will trigger the discount
	<ul style="list-style-type: none"> • Discount 	How much would be taken off of package "Subscription Fee". Note, the value is in currency points, not in percents







Packages Tab

Packages management subsection tab allows you to assign any of your packages to respective client. To access these settings, go to *Management – Clients* and press  button. In new window (Screenshot below), you can see the following:

Screenshot: Packages management

Client Info							Custom Fields		Accounts		Presets		Packages		DIDs		Notes		Customer C	
+ Add Package																			Rows 1 – 17 of 17	
Name	Assigned to	Subscription Fee	Start Date	Expire Date	Volume Limits	Time Left														
Extra: 1 channel	Whole client	0.00	01/08/2013 00:01:02 AST	01/09/2013 00:01:02 AST																
Extra: 1 channel	Whole client	0.00	01/08/2013 00:01:02 AST	01/09/2013 00:01:02 AST																
Extra: 1 channel	Whole client	0.00	01/08/2013 00:01:02 AST	01/09/2013 00:01:02 AST																
CP - Go - Extra Number	Whole client	0.00	01/08/2013 00:01:02 AST	01/09/2013 00:01:02 AST																
Extra: 1 channel	Whole client	0.00	01/08/2013 00:01:02 AST	01/09/2013 00:01:02 AST																
Extra: 1 channel	Whole client	0.00	01/08/2013 00:01:02 AST	01/09/2013 00:01:02 AST																
Extra: 1 channel	Whole client	0.00	01/08/2013 00:01:02 AST	01/09/2013 00:01:02 AST																
Extra: 1 channel	Whole client	0.00	07/07/2013 14:03:01 AST	31/07/2013 23:59:59 AST																
Extra: 1 channel	Whole client	0.00	07/07/2013 14:03:01 AST	31/07/2013 23:59:59 AST																
CP - Go - 2 Lines + 10 Numbers	Whole client	0.00	07/07/2013 14:03:01 AST	31/07/2013 23:59:59 AST																

Column	Description
Name	Name of assigned package
Assigned to	Shows for whom package is assigned
Subscription Fee	The package price
Start Date	A date, when package was activated
Expire Date	A date, when package will be stopped, if there will be no prolongations (due to client's balance, for example)
Volume Limits –Time Left	Shows, if respective package has some volume limits and time left

Icon	Description
	Marks package, that was successfully activated and will renew itself due to the package settings
	Marks package, that is new for current user and not activated yet
	Marks package, that is in the archive
	Click this to insure that package will not be renewed, even if all requirements are met
	This icon allows to revert changes triggered by previous icon, until <i>Packages Manager</i> starts
	Click this icon to delete the package

"Add Package" Button

Press "Add Package" button and in the pop-up window select a package from list and assign it by pressing «Add» button. You can assign any number of packages. They will be activated when *Package Manager* service runs, and if customer has enough balance for activation+subscription fees.

DID Management

On this page

- [DID Management Section Main Window](#)
- [Editing DID Numbers](#)
- [Creating DID Number](#)

DID Management Section Main Window

This section allows creation of DID numbers, which may be later assigned to one of Packages and finally provided to customer under Package terms (Screenshot).

Screenshot: DID management section main window

ID	Status	DID	Groups	Operator	Client	Reseller
1026	Active	015108706		Go	Customer M account_2	Reseller A
1058	Active	015108738		Go	Customer C account_1	Reseller A
1059	Active	015108739		Go	Customer C account_1	Reseller A
1060	In Stock	015108740		Go	Customer C account_1	Reseller B
1061	In Stock	015108741		Go	Customer C account_1	Reseller A
1062	In Stock	015108742		Go	Customer C account_1	Reseller A
1063	In Stock	015108743		Go	Customer C account_1	Reseller A
1064	In Stock	015108744		Go	Customer C account_1	Reseller A
1065	In Stock	015108745		Go	Customer C account_1	Reseller A
1066	In Stock	015108746		Go	Customer C account_1	Reseller A
1067	In Stock	015108747		Go	Customer C account_1	Reseller A
1068	In Stock	015108748		Go	Customer C account_1	Reseller A
1069	In Stock	015108749		Go	Customer C account_1	Reseller A
1114	In Stock	08111700311		Go	—	Reseller A
1116	In Stock	08111700313		Go	—	Reseller A
11	In Stock	08111702313		Go	—	Reseller A
12	Active	08111702314		Go	Customer K account_2	Reseller A
13	Blocked	08111702315		Go	Rohde account_2	Reseller A

Column	Description
ID	ID of current DID number
Status	Status of current DID number
	<ul style="list-style-type: none"> • Active Is in use by a customer
	<ul style="list-style-type: none"> • In Stock DID is available for usage
	<ul style="list-style-type: none"> • Blocked Temporarily blocked
	<ul style="list-style-type: none"> • Reserved Not used DID, but not available for purchase yet
	<ul style="list-style-type: none"> • Hold Is on hold after usage, should become "In Stock" soon
DID	Current DID number
	<ul style="list-style-type: none"> • Archived Not used and not available anymore

DID's Groups	Shows group, which current DID belongs to
Operator	Current DID's operator
Client	Shows client and account, which current DID belongs to
Reseller	Current DID's reseller

Editing DID Numbers

By pressing on current DID number, the new window will pop up. Here you can edit all information about current DID, including it's status, group, reseller, etc. (Screenshot)

Screenshot: "Edit DID" window

The screenshot shows a window titled "Edit DID" with the number "015108706" in the top right corner. The window contains the following fields and controls:

- DID(s):** A text input field containing "015108706".
- Reseller:** A dropdown menu with "Reseller A" selected.
- Operator:** A dropdown menu with "Go" selected.
- DID's Groups:** A dropdown menu with "..." selected.
- Status:** A dropdown menu with "Active" selected.
- Status Date:** A text field displaying "10/09/2013 19:20:58 +0300".
- Client:** A text field displaying "Customer M | account_2".
- Buttons:** "OK" and "Cancel" buttons at the bottom right.

Creating DID Number

The whole process of creating DID number can be described in few steps:

1. Go to *Configuration – Groups* and create one or more *DID Groups* by pressing "New Group" button in "DID Groups" section tab;
2. Go back to *Retail – DID Management* and create one or more Operators (DID providers) by pressing "New Operator" button in "Operators List" section tab;
3. In "DID Management" section tab press "New DIDs" button and add one or more DID numbers to previously created DID Group. Make sure that these DID's are put in "in stock" state. You can also use "Import DID's" button;
4. Go to *Retail – Packages* and create a package, that will include DID Group and number of allowed DID's to be picked from it;
5. Assign respective Package to customer, then go to DID's tab, where you will be allowed to pick one or more DID numbers.

This will effectively assign a DID number to one of customer's accounts. Please note, that this functionality is very switch dependent, and additional development or testing may be required. Please contact JeraSoft Support team for help, if you have any doubts or questions.

Payment Gateways

On this page

- [Payment Gateways Section Main Window](#)
- [Configuring Payment Gateways](#)

Payment Gateways Section Main Window

This section is dedicated to configuration of methods your customers may use to recharge their balance. Currently, there are few default methods available: *Authorize.net*, *Moneybookers*, *PayPal*, *Top-up cards* and *Ukash* (Screenshot).

Screenshot: Payment Gateways section main window

PAYPAL

ORDER POSITION:

E-mail:	<input type="text" value="paypal@exa.com.sa"/>	You PayPal e-mail, payment recipient.
Gateway Currency:	<input type="text" value="U.S. Dollar (USD)"/>	Currency which will be used by user to perform a payment.
System Currency:	<input type="text" value="USD"/>	This setting reflects currency of the gateway. Amount received will be treated as specified currency. Leave empty if not required for the gateway (eg. top-up cards).
Amount Limits:	<input type="text" value="50, 100, 200, 500, 1000"/>	Possible values for top-up separated by comma (eg "5, 20, 100"). If empty — user can specify any value. Field should be empty for top-up cards.
Payment Account:	<input type="text" value="Paypal AccA / Reseller A"/>	Specify account which will be used for transactions from this payment gateway.
Description:	<input type="text" value="Here you can add funds to your balance by using your PayPal account."/>	A user will see this text as a help-tip for respective payment method.

AUTHORIZE.NET

ORDER POSITION:

Login:	<input type="text" value="admin"/>	Add your API login ID
Transaction Key:	<input type="text" value="*****"/>	Add your API transaction key
Amount Limits:	<input type="text"/>	Possible values for top-up separated by comma (eg "5, 20, 100"). If empty — user can specify any value. Field should be empty for top-up cards.
Payment Account:	<input type="text" value="Authorize.Net ACC A / Reseller A"/>	Specify account which will be used for transactions from this payment gateway.
Description:	<input type="text" value="Here you can add funds to your balance by using your PayPal account."/>	A user will see this text as a help-tip for respective payment method.

MONEYBOOKERS

ORDER POSITION:

E-mail:	<input type="text"/>	Your Moneybookers e-mail, payment recipient
Secret word:	<input type="text"/>	Your Moneybookers secret word you set in your Moneybookers profile Merchant Tools
Gateway Currency:	<input type="text" value="U.S. Dollar (USD)"/>	Currency which will be used by user to perform a payment
System Currency:	<input type="text" value="DKK"/>	This setting reflects currency of the gateway. Amount received will be treated as specified currency. Leave empty if not required for the gateway (eg. top-up cards).
Amount Limits:	<input type="text"/>	Possible values for top-up separated by comma (eg "5, 20, 100"). If empty — user can specify any value. Field should be empty for top-up cards.
Payment Account:	<input type="text" value="Authorize.Net ACC A / Reseller A"/>	Specify account which will be used for transactions from this payment gateway.
Description:	<input type="text" value="Here you can add funds to your balance by using your PayPal account."/>	A user will see this text as a help-tip for respective payment method.

TOP-UP CARDS

ORDER POSITION:

Payment Account:	<input type="text" value="Authorize.Net ACC A / Reseller A"/>	Specify account which will be used for transactions from this payment gateway.
Description:	<input type="text" value="Here you can add funds to your balance by using your PayPal account."/>	A user will see this text as a help-tip for respective payment method.

UKASH

ORDER POSITION:

Security Request Token:	<input type="text"/>	20-Character alphanumeric unique Request-Token provided by Ukash. The token is used to validate the merchant account.
Security Response Token:	<input type="text"/>	20-Character alphanumeric unique Response-Token provided by Ukash. The token is used to validate the merchant account.
Brand Id:	<input type="text"/>	Ukash will supply a brand id to the merchant for each of the brands they wish to differentiate between. The appropriate brand id must then be sent through on each transaction request.
Gateway Currency:	<input type="text" value="U.S. Dollar (USD)"/>	Currency which will be used by user to perform a payment
System Currency:	<input type="text" value="DKK"/>	This setting reflects currency of the gateway. Amount received will be treated as specified currency. Leave empty if not required for the gateway (eg. top-up cards).
Amount Limits:	<input type="text"/>	Possible values for top-up separated by comma (eg "5, 20, 100"). If empty — user can specify any value. Field should be empty for top-up cards.
Payment Account:	<input type="text" value="Authorize.Net ACC A / Reseller A"/>	Specify account which will be used for transactions from this payment gateway.
Description:	<input type="text" value="Here you can add funds to your balance by using your PayPal account."/>	A user will see this text as a help-tip for respective payment method.

Update

Configuring Payment Gateways

To configure them, first thing you need to do is select a Reseller, by using «*Settings for*» drop-down menu in the top right corner of the window. This will mean that all customers belonging to selected Reseller will have these settings. The settings themselves depend on the payment system and can include specific options for each. The shared options are following:

Option	Description
E-Mail	Respective system e-mail, that should be used
Gateway Currency	Currency of the gateway that will be used to perform payment
System Currency	Select a currency from available in VCS to be used during payment. It should match <i>Gateway Currency</i>
Amount Limits	Specify allowed values for balance recharge, divided by comma (for example, "5, 10" means that user will be able to recharge only for 5 or 10 USD). If left empty – user can specify any value
Payment Account	Select which payment account should be used for payment from respective payment gateway
Description	User will see this text as tooltip for current payment method

Statistics

This section of our Guide is dedicated to establish statistics through VCS, for example to monitor customer's activities, to form different reports, etc. For more details please check the related sections:

- [Dashboard](#)
- [Summary Report](#)
- [Orig-Term Report](#)
- [Profit Report](#)
- [LCR Lists](#)
- [CDRs List](#)
- [Graphical Charts in Statistics](#)
- [Mismatches Report](#)
- [Calls Rerating](#)
- [Reports to E-mail](#)
- [Archive Management](#)

Dashboard

Dashboard section is a little something that will allow you to monitor your customer's activities in real-time, by providing visual graphs on some most crucial information, such as top ten destinations in recent 30 minutes, quality information and active calls graph.

Summary Report

On this page

- [Summary Report Section Main Window](#)
- [Creating New Report](#)
- [Grouping The Report Data](#)

Summary Report Section Main Window

This section allows you to form summary reports of statistics. Main window of this section is displayed as a search form (Screenshot below):

Screenshot: Summary Report search form

The screenshot shows a search form for the Summary Report. The form is titled "Summary Report" and has a search icon in the top right corner. It includes a "Period" dropdown set to "custom", a date range from "2012-01-01 00:00:00" to "2012-12-31 23:59:59", a location dropdown set to "Asia/Riyadh", and a time zone dropdown set to "all time". There are also dropdowns for "Client", "Under Owner" (set to "all resellers"), "Code Name", "Code Deck" (set to "Pre-assigned decks"), and "Currency" (set to "USD"). There are checkboxes for "Show subgroups" and "Show subtotals", and six "Group By" fields. A "Query" button is located at the bottom right of the form.

Summary report can be queued for 4 billing units: *Client*, *Owner*, *Calling Cards* and *Call Shops*.

Screenshot: All types of client in Summary Report.

The screenshot shows the same search form as above, but with a dropdown menu for "Client" open. The dropdown menu is open, showing options: "Client", "Owner", "Calling Card", and "Call Shop". The "Client" option is selected. The form also includes fields for "Period" (set to "today"), "Date Range" (from "2014-03-05 00:00:00" to "2014-03-05 23:59:59"), "Location" (set to "UTC"), and "Time Zone" (set to "all time"). There are also dropdowns for "Under Owner" (set to "all resellers"), "Code Name", "Code Deck" (set to "Pre-assigned decks"), and "Currency" (set to "USD"). There are checkboxes for "Show subgroups" and "Show subtotals", and six "Group By" fields. A "Query" button is located at the bottom right of the form.



If report is queued for Reseller (Owner) so the Reseller Billing Mode should be configured. To configure it just insert rate tables in Reseller's Setting Panel.

Creating New Report


To create a report, specify a period, select a client (or a calling card) and any/all of his accounts, phone prefix and its group, call route, currency, VoIP-host and press "Query" button. Report can be formed either as HTML-document, XLS or CSV file. After selecting all needed parameters you will get a report like on screenshot below:

Screenshot: Summary Report window

Summary Report														
Total Cost	Avg Rate	Time, min		Calls					ASR		ACD, min		PDD	SCD
		Total	Billed	Total	Not Zero	Success	Busy	No Channel	Std	Cur	Std	Cur		
TYPE: ORIGINATION														
11 489.2615 USD	0.1291	89 073.50	88 990.23	129 654	32 439	66 004	899	0	50.91 %	25.02 %	1.35	2.75	2:33:09	00:20
TYPE: TERMINATION														
-8 438.0499 USD	0.0957	89 078.10	88 213.82	106 004	32 441	39 734	5 234	4	37.48 %	30.60 %	2.24	2.75	2:05:54	00:20

Report data columns are following:

Column	Description
Total Cost	Total call cost
Avg Rate	Average Rate per minute, calculates as total cost / total time
Time, min	Call duration in minutes
	<ul style="list-style-type: none"> Total Total call duration
	<ul style="list-style-type: none"> Billed Billed call duration
Calls	Processed calls quantity
	<ul style="list-style-type: none"> Total Total calls quantity
	<ul style="list-style-type: none"> Not Zero Quantity of calls, that have duration equal to or more than 1 second
	<ul style="list-style-type: none"> Success Quantity of calls, that have duration equal to or more than 1 second and successful end code
	<ul style="list-style-type: none"> Busy "Busy" calls quantity
	<ul style="list-style-type: none"> No Channel No circuit / channel available
ASR	average successful rate (successful calls percent)
	<ul style="list-style-type: none"> Std Number of calls with "success" status divided by total number of calls minus all calls with "no channel available" status
	<ul style="list-style-type: none"> Cur Number of calls with duration > 0 divided by total number of calls
ACD, min	average call duration
	<ul style="list-style-type: none"> Std Sum of all calls durations divided by number of calls with "success" status
	<ul style="list-style-type: none"> Cur Sum of all calls durations divided by number of calls with duration > 0
PDD	Post dial delay: time in seconds between setup time and return of signaling by termination provider
SCD	Session connect delay: time in seconds between setup and connect time of the call

By clicking on a  icon in top right corner of this section's screen, you will be able to select appropriate data columns in this report (for example, hide some information that you don't need). Same feature is available in *Orig-Term Report*.

Grouping The Report Data

The report data can be grouped by using the "Group by #" fields. For example, if you specify the grouping by *Clients*, then report will be divided by clients, or, if you specify grouping as *Codes Report Name* – report will be created under one row with shortest equal code for multiple code groups. You can select any grouping values in "Group by #" fields, up to 6 at a time. The grouping is additive, so if all 3 fields are defined, the report will be divided by all defined values simultaneously. The "Show subtotals" checkbox will show the subtotals under each defined group (works when 2 or 3 groups are defined).



Tip: This section's reports can only be formed using "whole" periods – i.e. hourly. For example, if you will specify the period from 13:00 to 14:35, the report will be formed using the period from 13:00 to 15:00.



Tip: System displays the real period of statistics below created report.

Orig-Term Report

On this page

- [Orig-Term Report Section Main Window](#)
- [Creating Orig-Term Report](#)

Orig-Term Report Section Main Window

This report allows you to trace all call routes from customer to provider with indication of respective revenues. Main window of this section is displayed as a search form (Screenshot down below).

Screenshot: Orig-Term Report search form

Creating Orig-Term Report

To create a report you need to specify a period, and also specify the report group parameters in "Group by #" fields. Additionally you may specify the origination and termination clients and respective prefix groups and prefixes – if you do, then report will be strictly defined for selected parameters (Screenshot below). Otherwise, the report will be created for all available data.

Screenshot: Orig-Term Report section

Orig			Term			▲ Profit ▼		▲ Total ▼	ASR		ACD, min		Calls *				
▲ Billed Time ▼	▲ Cost ▼	Avg Rate	▲ Billed Time ▼	▲ Cost ▼	Avg Rate	USD	%	Time, min	▲ Std ▼	▲ Cur ▼	▲ Std ▼	▲ Cur ▼	▲ Total ▼	▲ Not Zero ▼	▲ Success ▼	▲ Busy ▼	▲ No Channel ▼
260.62	31.3342	0.1202	260.62	-22.4970	0.0863	8.8372	39.28	260.62	91.15 %	49.84 %	0.94	1.71	305	152	278	9	0

As an example, if you select grouping by *Orig Client* and *Term Client*, the report will show call routes in this fashion: you'll be able to see the calls and their respective originators and terminators. If you'd add an *Orig Prefix Group* as third grouping option, in addition you'll see origination prefix groups included into report.

Description of basic report fields goes as following:

Column	Description
Orig	Origination info
	<ul style="list-style-type: none"> • Billed Time

	<ul style="list-style-type: none"> • Cost 	Call cost
	<ul style="list-style-type: none"> • Avg. Rate 	Average call rate
Term	Termination info	
	<ul style="list-style-type: none"> • Billed Time 	Billed call time
	<ul style="list-style-type: none"> • Cost 	Call cost
	<ul style="list-style-type: none"> • Avg. Rate 	Average call rate
Profit	The revenue	
	<ul style="list-style-type: none"> • USD 	Revenue in USD (in fact, any system currency can be displayed here. In this example system currency = USD)
	<ul style="list-style-type: none"> • % 	Revenue in percent value
Total Time, min	Total calls time	
ASR	average successful rate (successful calls percentage)	
	<ul style="list-style-type: none"> • Std 	Number of calls with status "success" divided by total number of calls minus all calls with "no channel available" status
	<ul style="list-style-type: none"> • Cur 	Number of calls with duration > 0 divided by total number of calls
ACD, min	Average call duration	
	<ul style="list-style-type: none"> • Std 	Sum of all calls durations divided by number of calls with status "success"
	<ul style="list-style-type: none"> • Cur 	Sum of all calls durations divided by number of calls with duration > 0
Calls	Quantity of calls in database	
	<ul style="list-style-type: none"> • Total 	Total calls quantity
	<ul style="list-style-type: none"> • Not Zero 	Quantity of calls, that have duration equal to or more than 1 second
	<ul style="list-style-type: none"> • Success 	Quantity of calls, that have duration equal to or more than 1 second and successful end code
	<ul style="list-style-type: none"> • Busy 	"Busy" calls quantity
	<ul style="list-style-type: none"> • No Channel 	No circuit / channel available

Profit Report

On this page

- [Profit Report Section Main Window](#)
- [Creating Profit Report](#)

Profit Report Section Main Window

Profit Report resembles previously available "logical" type of *Orig-Term Report*. The function of this report is to show profits between reseller parties (companies and managers) and clients of one, who is executing report. For example, if *Manager_1* is executing report, he will be able to see his origination customers sending traffic to *Manager_2*, who owns actual terminator vendors. In this case reseller permissions apply to every query, what guarantees that *Manager_1* will not be able to see any actual name of client belonging to other manager, or other party, which restricted such access.

Main window of this section is displayed as a search form (Screenshot).

Screenshot: Profit Report search form

The screenshot shows the Profit Report search form. It features a search bar with the text "Please select parameters for report". Below the search bar, there are several filter options:

- Period: today (dropdown), 2013-09-04 00:00:00 - 2013-09-04 23:59:59 (date and time range), Asia/Riyadh (location dropdown), all time (dropdown)
- Reseller: Reseller A (dropdown), Mode: All visible (dropdown), Currency: USD (dropdown)
- Output: Web (dropdown), Code Deck: Pre-assigned decks (dropdown)
- Group By #1, #2, #3, #4, #5, #6 (dropdowns)

 There is an "Advanced" button and a "Query" button at the bottom right.

Creating Profit Report

Profit Report consists of two parts ("*Packages*" and "*Calls*") and looks like on screenshot below.

Screenshot: Profit Report section

The screenshot shows the Profit Report section. It is divided into two main parts: PACKAGES and CALLS.

PACKAGES

Package Name	Cost
EC - Go - 2 Lines + 10 Numbers	255.0000 USD
EC - Go - Extra 10 Numbers	64.8667 USD
KSA Extra Number	20.0000 USD
Total:	339.8667 USD

CALLS

Total Time, min	Income			Expense			Profit	
	Cost	Avg Rate	Billed Time	Cost	Avg Rate	Billed Time	USD	%
87 085.37	10 861.9632	0.1248	87 002.10	-8 350.4509	0.0959	87 087.15	2 511.5123	30.08

TOTAL

Income:	11 201.83 USD
Expense:	-8 350.45 USD
Profit:	2 851.38 USD

Description of basic report fields in "*Calls*" part is following:

Column	Description
Total Time, min	Total calls time

Income	Origination info resembling the income	
	• Cost	Call cost
	• Avg. Rate	Average call rate
	• Billed Time	Billed call time
Expense	Termination info resembling the expense	
	• Cost	Call cost
	• Avg. Rate	Average call rate
	• Billed Time	Billed call time
Profit	The revenue	
	• USD	Revenue in USD (in fact, any currency can be displayed here)
	• %	Revenue in percent value



Tip: *Total Profit* counts as sum of *Total Packages Cost* and *Calls Profit*.

LCR Lists

On this page

- [LCR Lists Section Main Window](#)
- [Forming LCR List](#)

LCR Lists Section Main Window

This section's purpose is to generate target-lists of actual used traffic for specified period. The main window of this section is displayed as a search form (Screenshot):

Screenshot: LCR Lists section search form

The screenshot shows a web interface for generating LCR Lists. It features a search form with the following fields and options:

- Period:** today (dropdown), 2013-09-05 00:00:00 – 2013-09-05 23:59:59 (date and time range), Asia/Riyadh (location dropdown)
- Code Name:** (text input with search icon)
- Code:** (text input with search icon)
- Order by:** time (dropdown)
- Under Owner:** all resellers (dropdown)
- Group:** (dropdown)
- Currency:** USD (dropdown)
- Output:** Web (dropdown)
- Code Deck:** Pre-assigned decks (dropdown)
- Group by:** code (dropdown)
- Routes limit:** (text input)
- Show vendors names:** (checkbox, checked)
- Show total calls:** (checkbox, unchecked)
- Query:** (button)

Forming LCR List

To make a correct query and form the list you need to fill next fields:

Field	Description
Period	Specify a period for report
Code Name	Specify code name of desired destination here
Code	Specify code of desired destination here
Order by	How to order found data, by rate or time
Under Owner	Specify reseller whose information should be displayed
Group	Select client group here
Currency	Specify currency for report
Output	List output format (HTML-document, Excel csv or xls file)
Code Deck	Select a code deck that should be used to pull names for <i>Code Name</i> field
Group by	Select grouping option, by code or code name
Routes limit	Limit displayed number of routes by entering a number here
"Show vendors names" Checkbox	Shows terminator names in report
"Show total calls" Checkbox	Shows total calls amount in report

After you enter the desired values, press the "Query" button. After the report is created, you will get traffic usage list for specified period, filtered per your criteria (Screenshot).

Screenshot: Traffic usage list

LCR Lists						
Code Name	Code	Total Time		#1 Route		#2 Route
SAUDI ARABIA (MOBILE)	96650	21625.32 min	Time, min: Rate, USD: ASR, %: ACD, min:	18439.33 0.1129 32.81% 3.12		3186.67 0.1063 35.57% 2.53
SAUDI ARABIA (MOBILE)	96655	14748.08 min	Time, min: Rate, USD: ASR, %: ACD, min:	12725.45 0.1129 29.75% 3.37		2022.92 0.1063 33.53% 2.55
SAUDI ARABIA (MOBILE)	96656	7089.75 min	Time, min: Rate, USD: ASR, %: ACD, min:	5889.88 0.1113 33.40% 2.98		1200.15 0.1052 35.95% 2.67
SAUDI ARABIA (MOBILE)	96654	6086.42 min	Time, min: Rate, USD: ASR, %: ACD, min:	5157.25 0.1113 32.08% 3.01		929.43 0.1052 35.16% 2.58
USA Toll Free	1866	4820.8 min	Time, min: Rate, USD: ASR, %: ACD, min:	4820.82 0.0039 79.70% 22.32		
Saudi Arabia	966	3649.12 min	Time, min: Rate, USD: ASR, %: ACD, min:	2459.2 0.0746 34.41% 1.25		1190.52 0.0707 33.41% 1.16

CDRs List

On this page

- [CDRs List Section Main Window](#)
- [Forming New Report](#)
- [Selecting Displayed Report Fields](#)

CDRs List Section Main Window

This section allows you to form a detailed calls statistics on each client with description of every call parameter. Main window represents a search form similar to those of other reports (Screenshot):

Screenshot: CDRs List search form

The screenshot shows the 'CDRs List' search form. On the left, there is a sidebar with a search prompt 'Please select parameters for report' and a status bar showing 'About | Get Support | 0.2023s'. The main form area includes a 'Period' selector set to 'today' with date and time ranges for 2013-09-05. Below this are several dropdown menus: 'Client' (empty), 'Code Name' (with search), 'Code' (with search), 'Under Owner' (set to 'all resellers'), 'Code Deck' (set to 'Pre-assigned decks'), 'Currency' (set to 'USD'), 'Conf ID' (empty), 'Dst Number' (empty), 'Src Number' (empty), 'Match Clients' (set to 'all'), 'Match Codes' (set to 'all'), and 'Duration' (set to 'non-zero'). There are also fields for 'Output' (set to 'Web'), 'E-mail' (set to 'root@localhost'), and 'Template' (set to 'default'). A 'Show Fields' dropdown is set to 'Type, Call Date, Gateway IP, Gateway Name, Session Time, Conf ID, SRC Number BILL, DST Number EXT, DST Number BILL'. At the bottom, there are 'Advanced' and 'Query' buttons.

CDRs report can be queued for 4 billing units: *Client*, *Owner*, *Calling Cards* and *Call Shops*.

Screenshot: All types of client in CDRs Report.

This screenshot shows the same 'CDRs List' search form, but with the 'Client' dropdown menu open. The menu lists four options: 'Client', 'Owner', 'Calling Card', and 'Call Shop'. The 'Client' option is currently selected. The rest of the form, including the 'Period' (2014-03-05), 'Code Deck' ('Pre-assigned decks'), and 'Show Fields' dropdown, remains the same as in the previous screenshot.



If report is queued for *Reseller (Owner)* so the *Reseller Billing Mode* should be configured. To configure it just insert rate tables in Reseller's Setting Panel.

Forming New Report

To form a report, specify next parameters: choose client and any/all of his accounts, specify a period, phone prefix and prefix group, currency, call duration, call cost, calls route, calls result code, VoIP-host and select appropriate fields, that will be displayed in created report. Within parameters of *Output* field you can create a report as HTML-document, CSV or XLS file, or by selecting a *Delayed* parameter and entering the appropriate address you can forward the report file link to that e-mail. Then press "Query" button.

After selecting all needed parameters and fields your report will look like on screenshot below:

Screenshot: CDRs List report window

Type	Call Date	Gateway IP	Gateway Name	Session Time	Conf ID	SRC Number BILL	DST Number EXT	DST Number BILL
termination	12/08/2013 21:36:25 AST	93.189.98.12	0565130222	02:37	3b0a5046-890a-4c8b-91c0-64b228c6b9f2	015108700	0565130222	0565130222
origination	12/08/2013 21:36:25 AST	93.189.98.14	015108700	02:37	3b0a5046-890a-4c8b-91c0-64b228c6b9f2	015108700	966565130222	966565130222
origination	12/08/2013 19:33:11 AST	93.189.98.14	505312523	00:36	c65a497c-4bb8-4cae-bf66-b977e35a5d2c	505312523	201116440018	201116440018
termination	12/08/2013 19:33:11 AST	108.59.2.133	0011101201116440018	00:36	c65a497c-4bb8-4cae-bf66-b977e35a5d2c	505312523	0011101201116440018	0011101201116440018
origination	12/08/2013 18:52:38 AST	41.32.150.20	08111702334	04:45	db46f89f-fa83-4328-bca3-43214578aca1	08111702334	966563558822	966563558822
termination	12/08/2013 18:52:38 AST	93.189.98.12	0563558822	04:45	db46f89f-fa83-4328-bca3-43214578aca1	08111702334	0563558822	0563558822
origination	12/08/2013 17:45:48 AST	41.32.150.20	08111702300	08:37	ec670051-2127-4186-b875-0b75fcd8b35	08111702300	966559942496	966559942496
termination	12/08/2013 17:45:48 AST	93.189.98.12	0559942496	08:37	ec670051-2127-4186-b875-0b75fcd8b35	08111702300	0559942496	0559942496
origination	12/08/2013 17:28:54 AST	41.32.150.20	68810	00:03	b355b7a9-f9b9-4f54-87c-6458c332a889	68810	201116440022	201116440022
termination	12/08/2013 17:28:54 AST	66.33.147.149	99901201116440022	00:03	b355b7a9-f9b9-4f54-87c-6458c332a889	68810	99901201116440022	99901201116440022
termination	12/08/2013 17:00:55 AST	93.189.98.12	0509045453	00:42	4ac32145-7db6-45ee-85b0-12d28b4e6350	08111702300	0509045453	0509045453
origination	12/08/2013 17:00:54 AST	41.32.150.20	08111702300	00:41	4ac32145-7db6-45ee-85b0-12d28b4e6350	08111702300	966509045453	966509045453
origination	12/08/2013 16:43:41 AST	41.65.6.217	3255	00:27	f00005a0-29ee-4b3d-8847-93a06df4b359	3255	971561161995	971561161995
termination	12/08/2013 16:43:41 AST	108.59.2.133	0011101971561161995	00:27	f00005a0-29ee-4b3d-8847-93a06df4b359	3255	0011101971561161995	0011101971561161995

Selecting Displayed Report Fields

Fields that will be displayed in report can be selected from "Show fields" list in search form. By "Ctrl"-left click you can select single values, and by "Shift"-left click – a group of values is selected. There are some default values selected from the list as you enter CDRs List section of the system.

All possible report fields description:

Field	Description
Status	Call processing state
Type	Call route (incoming / outgoing)
Call Date	Call date
ID Client	Client's ID
Client / Reseller	Client or reseller name
Account Name	Respective used account
Gateway IP	Client's gateway IP
Gateway Name	Client's gateway name
ID Reseller	Reseller ID value
Reseller	Reseller-owner of client, if report was generated in per-client fashion

Country	Name of the country which corresponds to Code Name
Code Name	Name for respective code
Code	Destination code
ID Packages	ID of the package, that was used during billing of the respective call
Packages	Name of the package
Package Time	How much time was billed within package limit
Src Number	Billed source number
Dst Number	Billed destination number
Session Time	Call duration
Billed Time	Billed call duration
Rate	Destination rate
Cost	Call cost
Extra Rate	Extra destination rate (per 1 minute) that was used
Extra Cost	Extra call cost
Taxes Cost	Taxes cost
Res Status	Disconnect code status
Res Code	Disconnect code value
CDR ID	CDR ID value
Conf ID	Conference ID value
Call ID	Call ID value
Call Sign	Call sign value
SRC Number EXT	Caller number provided to VCS system from external source
SRC Number BILL	Phone number of the caller in billing system
DST Number EXT	Called number provided to VCS system from external source
DST Number BILL	Phone number of the called in billing system
Setup Time	Call setup time
Connect Time	Call connect time
Disc Time	Call completion time (disconnection)
PDD	Post dial delay
SCD	Session connect delay
Local Code	Local code value
Custom	Additional information for call (softswitch specific)
Bytes IN	Incoming amount of bytes
Bytes OUT	Outgoing amount of bytes
ID VoIP Gateway	VCS VoIP Gateway ID
VoIP Gateway	VoIP Gateway name
CDR Source	CDR source description

Graphical Charts in Statistics

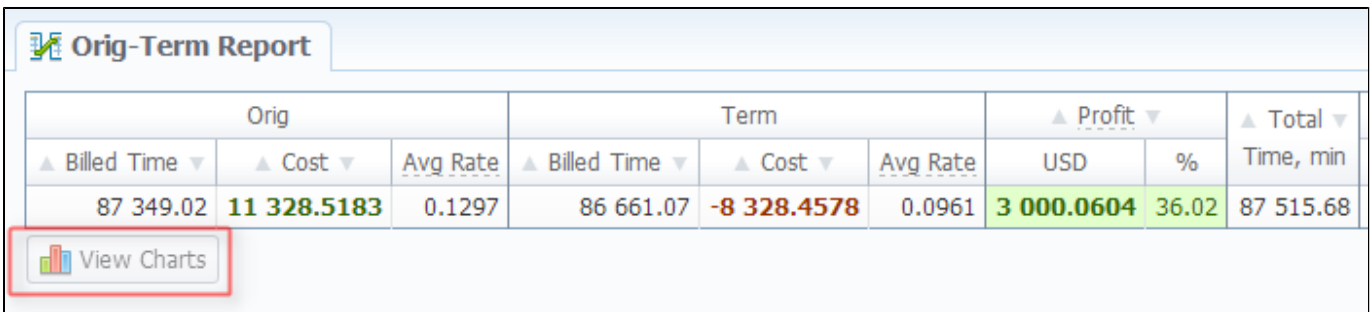
On this page

- [Accessing The Graphical Charts](#)
- [Graphical Charts Window](#)

Accessing The Graphical Charts

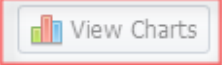
VCS incorporates a graphical charts for its Summary and Orig-Term reports. The graphical display allows for drastically better statistic information apprehension thus making data analysis even easier. To access the graphical charts, after creating a statistical report, you will have to press the "View Charts" button below the statistic tables (Screenshot down below).

Screenshot: "View Charts" button



The screenshot shows a table titled "Orig-Term Report" with columns for "Orig" and "Term" statistics. The "View Charts" button is located below the table and is highlighted with a red border.

Orig			Term			▲ Profit ▼		▲ Total ▼
▲ Billed Time ▼	▲ Cost ▼	Avg Rate	▲ Billed Time ▼	▲ Cost ▼	Avg Rate	USD	%	Time, min
87 349.02	11 328.5183	0.1297	86 661.07	-8 328.4578	0.0961	3 000.0604	36.02	87 515.68



Graphical Charts Window

The set of graphical charts consists of the following ones: *Total Cost*, *Total/Billed Time*, *ASR*, *ACD*, *Calls Count* and *Income/Expense/Revenue* (available only for Orig-Term report). The Y-axis of the chart represents the main parameter – the one that chart was named after (for example, for *Total Cost* it's an amount of money, for *Total/Billed Time* it's calls time, for *ASR* it's a percent value and so on), and the X-axis represents the grouping that was done when creating a statistics report (for this purpose "Group by #" fields are used – for example, by clients, codes, gateways, days etc.).

Screenshot: Graphical charts

chart by amCharts.com

Total Cost, USD

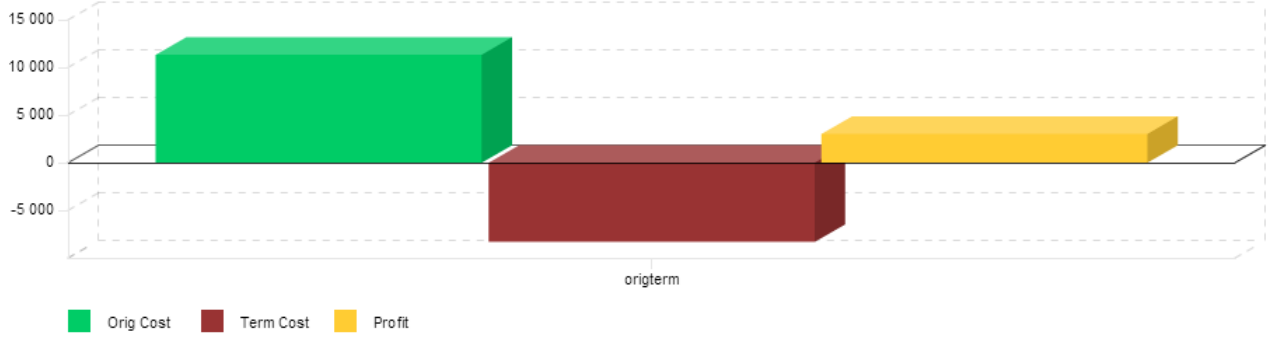


chart by amCharts.com

Time (Total / Billed) origination

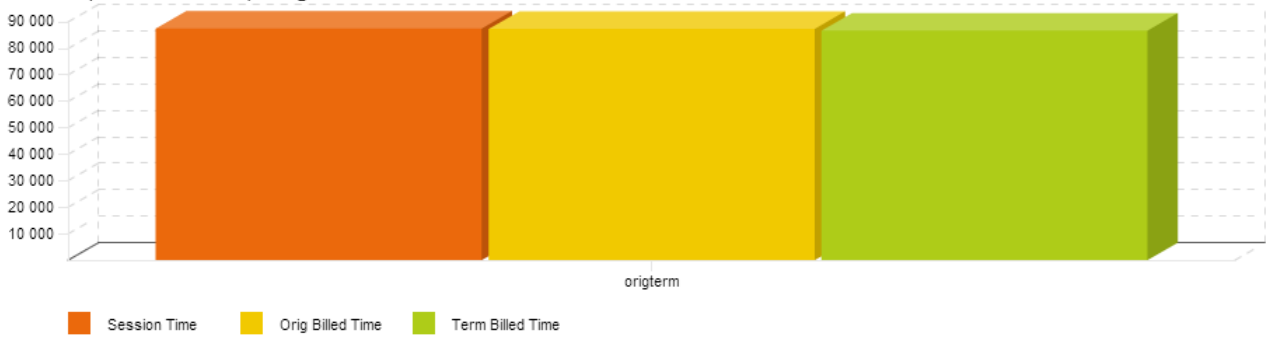


chart by amCharts.com

ASR, %

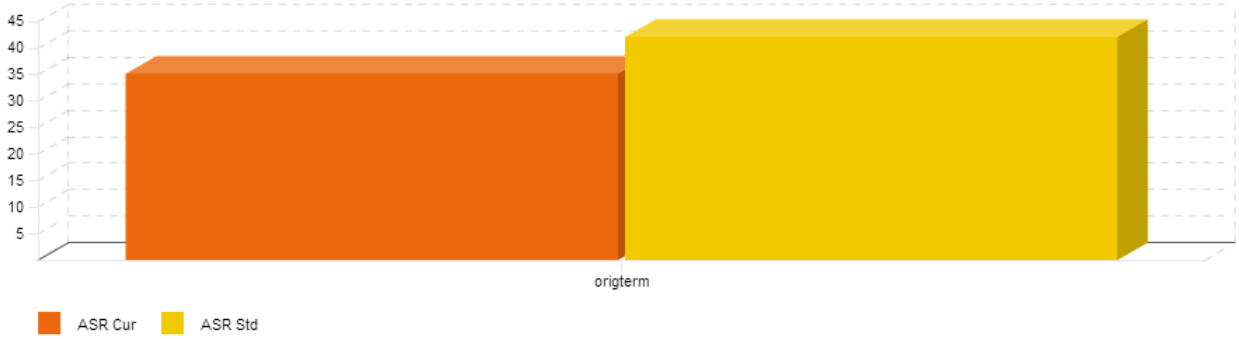


chart by amCharts.com

ACD, %

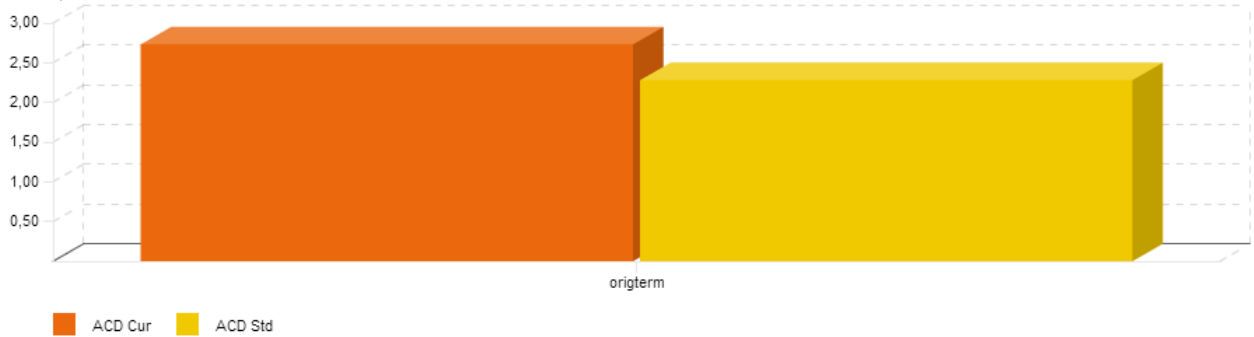
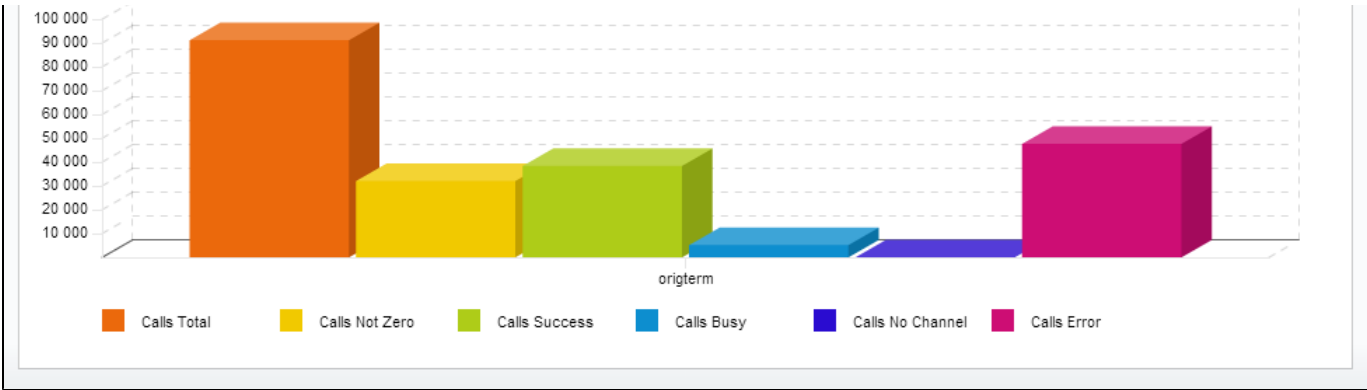


chart by amCharts.com

Calls Count



Mismatches Report

This section can help you find the calls or clients that were not recognized by the system due to unavailability of respective information. The main window of this section looks like on Screenshot below.

To create a report you need to specify a period in the lower form and press the "Query" button nearby. After system processes your request, you will be able to see the general info about unknown clients (left form) or unknown destinations (right form). To receive detailed info either on clients or destination press respective "Query" button.

Screenshot: Mismatches Report

CALLS WITH UNKNOWN CLIENTS

	origination	termination	all
Total Calls	0	0	0
Not Zero Calls	0	0	0
Total Time	0 min	0 min	0 min

Type:

Duration:

Output:

CALLS WITH UNKNOWN DESTINATIONS (KNOWN CLIENTS)

	origination	termination	all
Total Calls	0	0	0
Not Zero Calls	0	0	0
Total Time	0 min	0 min	0 min

Type:

Duration:

Output:

CALLS WITH UNKNOWN DESTINATIONS IN RESELLERS (KNOWN RESELLERS)

	origination	termination	all
Total Calls	0	0	0
Not Zero Calls	0	0	0
Total Time	0 min	0 min	0 min

Type:

Duration:

Output:

Calls Rerating

On this page

- [Calls Rerating Section Main Window](#)
- [Performing A Rerating](#)

Calls Rerating Section Main Window

This section can be used to rerate some calls (this is needed when, for example, a change was made to rates, currencies or client accounts or you are trying to correct errors with *Mismatches Report*). Main window of this section is displayed as a search form:

Screenshot: Calls Rerating section search form

The screenshot shows a web application window titled "Calls Rerating". On the left, there is a sidebar with "About" and "Get Support" links, and a timer showing "0.1662s". The main content area has a message box that says "Please select parameters for re-rating". To the right of this message box is a search form with the following fields:

- Period: today
- Date Range: 2013-09-05 00:00:00 - 2013-09-05 23:59:59
- Location: Asia/Riyadh
- Client: [text input]
- Code Name: [text input]
- Code: [text input]
- Result Code: all
- Code Deck: Pre-assigned decks
- Duration: non-zero
- VoIP Gateway: [text input]
- Group: [text input]
- Type: all
- Match Clients: mismatched
- Match Codes: mismatched

A blue "Query" button is located at the bottom right of the search form.

Performing A Rerating

To perform a rerating, specify period, client, code name or phone number code and respective VoIP Gateway. Then press "Query" button and wait for search procedure to complete. Then confirm a rerating by pressing "Confirm" button.



Tip: "Match Clients" and "Match Codes" drop-down menus allow you to search for all calls in desired categories. Your choices are: *matched* (identified), *mismatched* (not identified), *all*.



Tip: Calls rerating is a time-requiring procedure, so it's not recommended to create a rerating query with large chunks of information (for example, rerating 3 million of calls at once is not recommended).

Reports to E-mail

On this page

- [Reports to E-mail Section Main Window](#)
- [Forming Reports to E-mail](#)

Reports to E-mail Section Main Window

This tool allows you to send *Summary* or *Orig-Term* reports to E-mail, to keep yourself informed about traffic status without need to login into system and request reports (Screenshot).

Screenshot: Reports to E-mail section main window

Name	Run	Interval	E-mail	Last sent	Company
A	On 0 hours	24 hours	1@1.com	●	Reseller A
B	Every 5 hours	48 hours	1@1.com	●	Reseller A
C	Every 1 hours	74 hours	1@1.com	●	Reseller A
D	On 10 hours	1 hours	1@1.com	●	Reseller A

Forming Reports to E-mail

To access it, please go to *Statistics – Reports to E-mail* section. Press respective button for adding *Summary* or *Orig-Term* preset and specify how often report should be sent in “*Run*” field, and what last amount of hours of data it should include in “*Interval*” field. Don't forget to specify the e-mail address where report should be sent and correctly set report query, the same way you do for *Summary Report* and *Orig-Term Report*. After you save your preset you will be receiving your reports via e-mail in specified timeframes. On main page you can see the following parameters:

Column	Description
Name	Query name
Run	How often a report should be created for specified interval
Interval	Amount of last hours of statistics a report should include
E-mail	E-mail address, where report should be sent
Last sent	Date of latest successful sending of report to e-mail
Company	Name of reseller which owns current query



Tip: ● icon displays, that the query status is *Active*, and ● icon shows, that the query status is *Disabled*.

Archive Management

On this page

- [Archive Management Section Main Window](#)
- [Active Statistics Packages](#)
- [Archived Statistics Packages](#)

Archive Management Section Main Window

This section represents archive of system statistics packages manager. Statistics package is a pack of calls information, created during a respective day. Main window is displayed on screenshot below:

Screenshot: Archive Management section main window

Active Statistics Packages

Active Statistics Packages table houses statistics packages, that are currently present in database. Statistics packages are grouped underneath a respective month. Click on the icon to view all available packages.

Active Statistics Packages table columns description:

Column	Description
Date	System package creation date
Total Legs	Processed calls quantity
New Legs	Quantity of calls that have not been processed yet
Re-rating Legs	Quantity of calls queued for re-rating
Progress	Shows overall data processing progress

Active Statistics Packages are managed with 4 checkboxes:

Icon	Description
	Updates selected package to latest database format (useful after system update to new version)
	Moves package to archive
	Deletes package from database <i>without</i> performing balance rollback
	Deletes package from database <i>with</i> balance rollback

After "Process" button is pressed, the respective statistics package will be marked for respective operation – to rotate (move), to update, to be cleaned or to be deleted. The operation itself will be executed in background.



Archived Statistics Packages

Archive Statistics Packages table houses statistics packages that are kept in archive (/var/archive folder in respect to VCS root).

Archive Statistics Packages table columns description:

Column	Description
Date	System package creation date
Filename	Name of the archive file which contains system package
Size	Size of an archive file

Archive Statistics Packages are managed with 2 checkboxes:

Icon	Description
	Restores system package to database
	Deletes archive file

After "Process" button is pressed, the respective statistics package will be marked for respective operation – to restore or to delete.



Tip: System manages the statistics packages in the background. *Backup&Rotate Manager* system module must be activated to manage the packages!



Tip: Moving or rotating the current day statistics package may result in errors! It is strongly recommended not to do any operations to current day's package.

Tools

This section describes everything that relates to the Tools tab of JeraSoft VCS. For more details please check the related subsections of our Guide:

- [Rates Management Details](#)
- [Active Calls](#)
- [Factors Watcher](#)

Rates Management Details

This section will describe everything that concerns the rates management tools of JeraSoft VoIP Carrier Suite, which are provided by Rates Management Module.

VCS Rates Management Module provides you with advanced features that allow you to analyze, compare and create rate sheets within VCS's web-interface without use of any third-party software. These features are grouped under *Tools* section and are named [Rates Generator](#) and [Rates Analysis](#).

Also, you can check our [Useful Tips](#), that will help you to provide more useful and comfortable Rates Management.

Rates Analysis

This section is designed to analyze rates that are currently present in the system. Main window looks like a search form (Screenshot):

Screenshot: Rates Analysis section search form

The screenshot shows a web interface for 'Rates Analysis'. On the left, there is a sidebar with a message 'Please select parameters for report' and links for 'About', 'Get Support', and '0.1999s'. The main area contains a search form with the following fields: 'Rate Tables' (dropdown), 'Code Name' (text input with search icon), 'Code' (text input with search icon), 'Country' (text input), 'Outlook' (dropdown menu showing 'rates comparison'), 'Code Deck' (dropdown menu showing 'Pre-assigned decks'), 'Currency' (dropdown menu showing 'TST'), 'Get margins for' (dropdown menu), 'Actual on' (text input showing '2013-09-09 13:44:53'), 'Rate age' (text input showing 'days'), 'Output' (dropdown menu showing 'Web'), 'Group by' (dropdown menu showing 'code'), a 'simulate long codes' checkbox, and a blue 'Query' button.

To analyze and compare different rates select one or few rate tables in the form to the left (analysis is divided by originator's rates, terminator's rates and rate tables), specify code names or specific code (you can use «*» sign to specify all), date for which these rates were actual, desirable output format and press «Query» button.

System will form a list of rates with prices for each destination. The highest rate available for destination is colored in red, the lowest – in green, and middle rates are colored in black. In «Group by» field you can define how you want to sort the resulting data – by codes or code names.

If you checked «simulate long codes» checkbox, system will try to simulate the longest available code with shorter one. For example, we analyze 2 rate tables, one of which has code 380, and the other has 380 and 38044 codes. When mentioned checkbox is active, the first rate table will have unavailable 38044 code simulated with the price of available 380. Rates such as these have «Simulated» label when you hover mouse pointer over them, and are colored in light-red, light-green and grey respectively.

Also, you can analyze margins by selecting a base rate table in «Get margins for» field.

«Outlook» field allows you to build resulting data in simple comparison list or LCR table, if you prefer that kind of outlook.

Rates Generator

On this page

- [Adding New Rates Generator Query](#)
- [Setting Additional Options](#)
 - [Optimization Options](#)
 - [Adjust Options](#)
 - [Advanced Options](#)
 - [Quality Options](#)
- [Adding New Rule](#)
- [Adding Source to the Rule](#)

Adding New Rates Generator Query

Rates Generator is a useful tool when you need to create a price list from data taken from multiple sources, such as another rate sheets or your provider's rate tables. You can do that and more, if you use following instructions.

The price list is created by running a set of code picker rules that are stored in a preset. To create new preset, go to *Tools – Rates Generator* section and press «*New Rates Generator*» button. Set name and reseller for the preset and press «*OK*». Also, you can set additional parameters in current window or by clicking on a name of your new preset and going to the "*Parameters*" section tab (Screenshot below):

Screenshot: Configuring Rates Generator query

Field	Description
Name	Name of rate table that should be created or updated
Reseller	Specify reseller to whom newly created rate table should belong
Code Deck	Select a code deck that will be used to search for codes in source and name destination codes in new price list
Currency	Specify the currency of rates in new price list
Description	Additional information about current rate table

Setting Additional Options

To refine your results, you can use following additional criteria. These additional options are also presented in the "*New Rates Generator*" window or in the "*Parameters*" section tab and you can do the following:

Optimization Options

Screenshot: Optimization options checkboxes

New Rates Generator

Name:

Reseller:

Code deck:

Currency:

Description:

SIMPLE OPTIMIZATION

Mode:

VERTICAL OPTIMIZATION

Target < parent: %

Target > parent: %

HORIZONTAL OPTIMIZATION

Target < parent: %

Target > parent: %

ADJUST RESULTS

Rate: DKK

Setup Fee: DKK

Min Time: sec

Interval: sec

Grace Time: sec

Time Profile:

ADVANCED OPTIONS

Detect fake:

Skip distance: %

Rate position:

QUALITY OPTIONS

Analyze period: hours

Code min time: min

Unmatched price:

Checkbox	Description
Simple Optimization	Applies same price for all codes inside same code name by using three options
	<ul style="list-style-type: none"> <i>min</i> minimal available price
	<ul style="list-style-type: none"> <i>max</i> maximal available price
	<ul style="list-style-type: none"> <i>avg</i> average price of all available
Vertical Optimization	Enables merging of longer codes into shorter ones, if respective rates satisfy <i>Target < Parent</i> and <i>Target > Parent</i> settings
	<ul style="list-style-type: none"> <i>Target < Parent</i> If current price of the rate which currently is being analyzed for optimization with it's parent (shorter code for vertical and same length code with most frequency of same price for horizontal) is less for entered percent or less, then it will be optimized
	<ul style="list-style-type: none"> <i>Target > Parent</i> If current price of the rate which currently is being analyzed for optimization with it's parent (shorter code for vertical and same length code for horizontal) is more for entered percent or more, then it will be optimized
Horizontal Optimization	Enables application of same rate to codes of same lengths, which belong to the same code name, if respective rates satisfy <i>Target < Parent</i> and <i>Target > Parent</i> settings
	<ul style="list-style-type: none"> <i>Target < Parent</i> If current price of the rate which currently is being analyzed for optimization with it's parent (shorter code for vertical and same length code with most frequency of same price for horizontal) is less for entered percent or less, then it will be optimized
	<ul style="list-style-type: none"> <i>Target > Parent</i> If current price of the rate which currently is being analyzed for optimization with it's parent (shorter code for vertical and same length code for horizontal) is more for entered percent or more, then it will be optimized

Adjust Options

"Adjust Results" checkbox enables results adjusting by data from currently selected Code Deck. For example, if your rules provided you with codes 380 and 38050, but your code deck has only code 38050 recorded, only that 38050 will get into resulting price list.

Screenshot: "Adjust Results" checkbox

The screenshot shows the 'New Rates Generator' interface. On the left, there are input fields for Name, Reseller (Reseller A), Code deck, Currency (DKK), and Description. In the center, there are three optimization sections: SIMPLE OPTIMIZATION (Mode: min), VERTICAL OPTIMIZATION (Target < parent: 0%, Target > parent: 0%), and HORIZONTAL OPTIMIZATION (Target < parent: 0%, Target > parent: 0%). On the right, the 'ADJUST RESULTS' checkbox is checked and highlighted with a red box. Below it are fields for Rate, Setup Fee, Min Time, Interval, Grace Time, and Time Profile. Further right, there are 'ADVANCED OPTIONS' (Detect fake: 5, Skip distance: 10%, Rate position: 1) and 'QUALITY OPTIONS' (Analyze period: 24 hours, Code min time: 60 min, Unmatched price: 100). At the bottom right are 'OK', 'Cancel', and 'Apply' buttons.

Field	Description
Rate	Define a rate for codes which are present in code deck, but were not provided by your rules, when performing <i>Adjust results</i>
Setup Fee	Define setup fee for those rates
Min Time	Define minimum time for those rates
Interval	Define interval for those rates
Grace Time	Define grace time for those rates
Time Profile	Define time profile for those rates

Advanced Options

Screenshot: Rates Generator Advanced Options

This screenshot is similar to the previous one, but the 'ADVANCED OPTIONS' section is highlighted with a red box. The 'ADJUST RESULTS' checkbox is now unchecked. The 'ADVANCED OPTIONS' fields are: Detect fake: 5, Skip distance: 10%, Rate position: 1. The 'QUALITY OPTIONS' fields remain: Analyze period: 24 hours, Code min time: 60 min, Unmatched price: 100. The 'OK', 'Cancel', and 'Apply' buttons are at the bottom right.

Field	Description
Detect fake	Enable detection of fake rates if at least specified number of rates is present. The mechanism is following: if you enter "3" and your rules provided you with 3 different rates for some destination, the cheapest rate will be compared to the direct average of those 3 rates. If the difference is more, than provided in <i>Skip distance</i> , then rate is considered fake and removed from result

Skip distance	A percentage value of difference between current rate and direct average when performing <i>Detect fake</i>
Rate position	Define what cheapest rate of all to provide as a result (for example, if you enter "1" – system will take cheapest rate, if "2" – second cheapest etc.)

Quality Options

Screenshot: Rates Generator Quality Options

The screenshot shows the 'New Rates Generator' window with several sections:

- General Settings:** Name, Reseller (Reseller A), Code deck, Currency (DKK), and Description.
- OPTIMIZATION:**
 - SIMPLE OPTIMIZATION:** Mode: min
 - VERTICAL OPTIMIZATION:** Target < parent: 0%, Target > parent: 0%
 - HORIZONTAL OPTIMIZATION:** Target < parent: 0%, Target > parent: 0%
- ADJUST RESULTS:** Rate, Setup Fee, Min Time, Interval, Grace Time, and Time Profile.
- ADVANCED OPTIONS:** Detect fake, Skip distance, and Rate position.
- QUALITY OPTIONS (highlighted in red):** Analyze period, Code min time, and Unmatched price.

Buttons: OK, Cancel, Apply

Field	Description
Analyze period	Define a number of hours to analyze for picking ACD and ASR quality
Code min time	Define a number of minutes that should be available for each code that satisfies quality parameters
Unmatched price	Define price for all codes which do not satisfy quality parameters

Adding New Rule

After pressing "OK" button in the "New Rates Generator" window you will go to a new window. By clicking here on "Add rule" button you will go to a new pop-up window, where you can set one rule to be added to query. Here is what you can specify in rule's settings (Screenshot):

Screenshot: Rates Generator "Add Rule" window

Add Rule
C

RATES FILTER

Code:

Code Name:

Time Profile:

QUALITY FILTER

ASR: – %

ACD: – min

FORCE RATES SETTINGS

Min Time: sec

Interval: sec

Grace Time: sec

Setup Fee: DKK

Time Profile:

SOURCES +


No Sources selected yet


MARGINS +

No Margins added yet

Section	Fields And Description
Rates Filter	Set basic parameters of your rule here
	<ul style="list-style-type: none"> Code – Pick a code for current rule
	<ul style="list-style-type: none"> Code Name – Pick group of codes for current rule
	<ul style="list-style-type: none"> Time Profile – Select a time profile for codes that will be picked from sources
Quality Filter	Set quality parameters of your rule here
	<ul style="list-style-type: none"> ASR, % – Specify ASR ranges that should be used when picking destinations from sources
	<ul style="list-style-type: none"> ACD, min – Specify ACD ranges that should be used when picking destinations from sources
Force Rates Settings	Specify additional parameters that should be noted when picking destinations from sources (<i>Setup Fee, Min. Time, Interval, Grace Time, etc.</i>)
Sources	Select one or multiple sources for picking data for new price list (set-by-step setting of this section you will find below)
Margins	Specify ranges of rates that should be picked from sources and apply respective margins

Working with this tool is really simple – specify your Filters, select a source, specify code and margins and when you click «OK», your selections will be added as new rule to the template. By adding multiple rules you can create a price list that you currently require (for example, pick one destination from *Provider A*, other one – from *Provider B*, and rest of destinations from all remaining providers). To generate a resulting price list, click on «Generate» button.

 **Tip:** Please note that rules abide following priority: top placed rule is picked first and if some of the lower priority rules are able to provide same codes, those codes will be ignored.

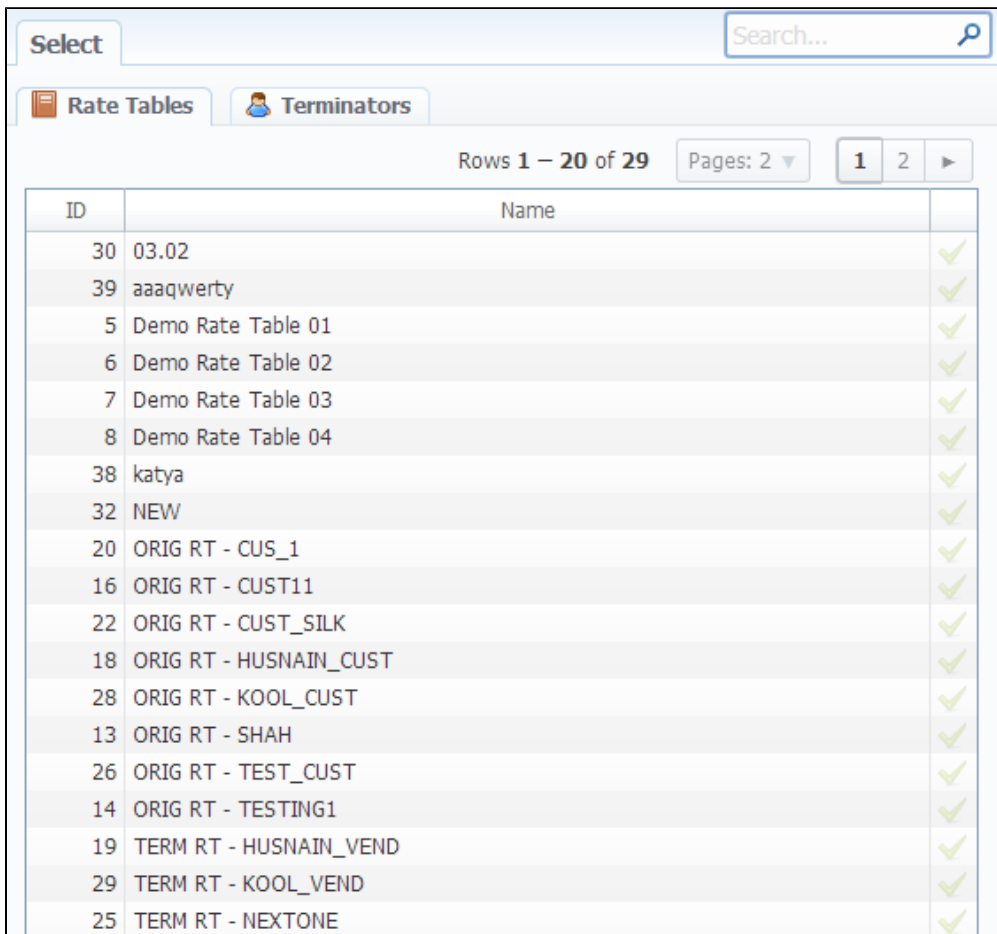
 **Tip:** You can drag rules to change priority.

Adding Source to the Rule

For specifying a source in Rate Generator's Rule, during adding or editing the Rule, simply click on green plus sign in "Sources" section, hereinafter in the pop-up "Select" window click on the "Terminators" or "Rate Tables" tab (depends on what kind of source you need) and select an appropriate terminator or rate table from the list (Screenshots below):

Screenshot: "Rate Tables" tab in "Select" window

Screenshot: "Terminators" tab in "Select" window




ID	Name	
30	03.02	✓
39	aaaqwerty	✓
5	Demo Rate Table 01	✓
6	Demo Rate Table 02	✓
7	Demo Rate Table 03	✓
8	Demo Rate Table 04	✓
38	katya	✓
32	NEW	✓
20	ORIG RT - CUS_1	✓
16	ORIG RT - CUST11	✓
22	ORIG RT - CUST_SILK	✓
18	ORIG RT - HUSNAIN_CUST	✓
28	ORIG RT - KOOL_CUST	✓
13	ORIG RT - SHAH	✓
26	ORIG RT - TEST_CUST	✓
14	ORIG RT - TESTING1	✓
19	TERM RT - HUSNAIN_VEND	✓
29	TERM RT - KOOL_VEND	✓
25	TERM RT - NEXTONE	✓


Select Search...

Rate Tables **Terminators**

Rows **1 – 18** of **18** Pages: 1 ▾ **1**

ID	Name	
470	aaaqwerty12345	✓
143	HUSNAIN_VEND	✓
161	Jeratesttttttttttt12345	✓
159	KOOL_VEND	✓
154	NEXTONE	✓
12	Partner 01	✓
23	Partner 02	✓
133	SHAH-VENDOR	✓
157	TEST_VEND	✓
147	VEN_1	✓
139	VEND11	✓
7	Vendor 01	✓
11	Vendor 02	✓
14	Vendor 03	✓
15	Vendor 04	✓
17	Vendor 05	✓
20	Vendor 06	✓
21	Vendor 07	✓

 If you want to use Quality Options for Rate Generator, you have to define a Terminator as a Source for Rate Generator's rule.

 **Tip:** Taking Terminator as a Source instead of its termination Rate Table gives possibility to use recently changed table automatically for Terminator as a whole.

Useful Tips

On this page

- [Billing by Access Numbers](#)
- [Automatic Rates Notifications \(Addendums\)](#)

Billing by Access Numbers

Rates Management module has the ability to apply additional Extra Rate to destinations. This is useful for easy and proper billing by access numbers. This function is available through *Rate Tables* section. To apply Extra Rates to customer traffic you need to do the following:

- Go to *Configuration – Client Groups* and create a group of *Orig Traffic* type named *Toll Free Group*;
- Go to *Management – Clients* and open customer's presets tab;
- Find *Traffic Processing* and perform a translation of Orig type, which says the following: in case call comes from defined access number (use *Src Matchfield*), put this call into *Toll Free Group*;
- Open Rate Table of this customer, go to *Extra* tab and apply extra rate for all calls in *Toll Free Group*.

Automatic Rates Notifications (Addendums)

This will allow you to send rate changes to your customers within VCS' interface. In short – if your customer's rate table is updated by some means, system will automatically generate and send notification e-mail to that customer with information which rates were increased/decreased/closed etc.

Here is how you can set Rate Addendum notification for one of your particular customers:

- Go to *Management – Clients* and open your customer's properties page;
- Find "*Rate Notification*" box and enable it;
- Don't forget to specify notification parameters: "Format" of the attachment with rate details, "Notify type" for displaying full current price list, or changed rates only, and "Last Notified for" – day when system notified your customer last time (this date is used to get actual updates to rate table by system). Finally, "*Notify Now*" button allows you to generate and send such notification manually.

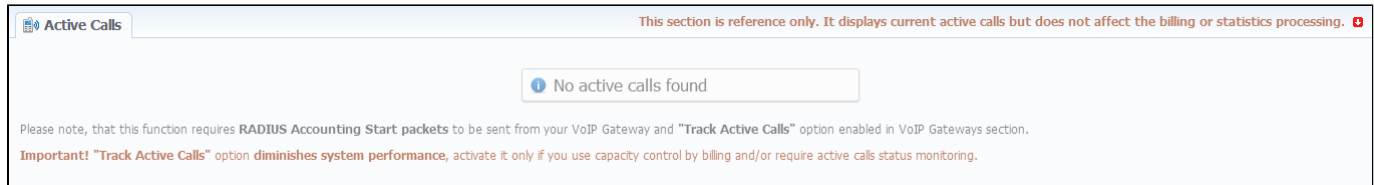
In general, setting this tool to work is as simple, as *Autoinvoicing*.

Active Calls

Active Calls section provides you with easy and convenient active calls monitoring tool. Upon access you will see the full list of active calls that are currently being processed by your switch.

The options that are available to you here are the following: you can filter calls list by origination or termination client / code group / code and group them by using *Group by #* drop-down boxes.

Screenshot: Active Calls main window



Factors Watcher

On this page

- [Factors Watcher Section Main Window](#)
- [Creating New Query](#)
- [Configuring Watcher Rules](#)

Factors Watcher Section Main Window

This section represents built-in monitoring tool, that watches over different parameters and generates alerts if some conditions are met. Main section window looks like on Screenshot:

Screenshot: Factors Watcher section main window

ID	Name	Watch Rules	Query
2	A Analyze by: Summary report Check time: 30 / 30 min No check has been made yet	0	Client: - Code Name: - Group By: - Owner: - Code: - VoIP GW: -
3	B Analyze by: CDRs List report Check time: 60 / 10 min No check has been made yet	0	Client: - Code Name: - Group By: - Owner: - Code: - VoIP GW: -

Creating New Query

The tool workout is based on periodical queries of statistic information. To create a new query press “New Factors Watcher” button. You'll need to specify next parameters in a new window (Screenshot below):

Screenshot: Adding new Factors Watcher query

New Factors Watcher

Name:

Analyze by:

Check every: min

Analyze interval of: min

QUERY

Client:

Code Name:

Code:

Under Owner:

Code Deck:

VoIP Gateway:


Group By #1:

Group By #2:


Group By #3:

Field	Description
Name	Query name
Analyze by	Select base report (Summary or CDRs List) as base for current query. Different reports provide different set of parameters that are available for monitoring. For instance, <i>CDRs List</i> allows you to manipulate with phone numbers, while <i>Summary</i> allows such operations with ACD and ASR

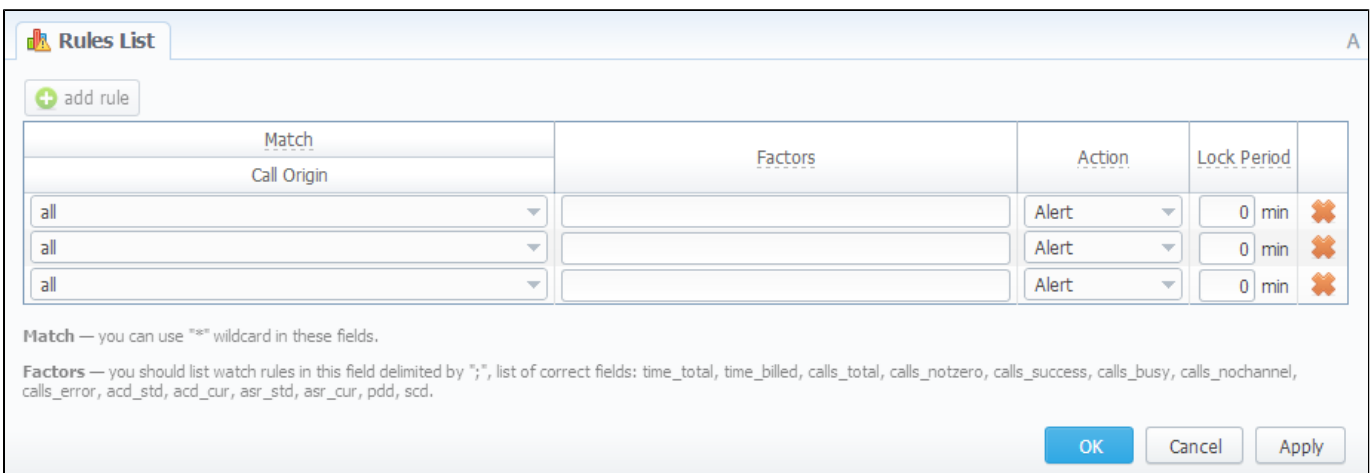
Check every, min	How often to perform checks
Analyze interval of, min	What interval of time to check
Client	Select a client
Code Name	Select a code group
Code	Specify the code
Under Owner	Specify a Reseller
Code Deck	Select a code deck to pull code names from
VoIP Gateway	Select a VoIP gateway
Group by #	Group query by selectable parameter (client, account, code group, code or Volp gateway)
"Test Query" Button	Press this button to test your query as <i>Summary Report</i> or <i>CDRs List</i> report for period specified Check Every and Analyze Interval of fields

When you click "OK", new query will appear on the list in main window. You can edit properties of this query later by pressing  icon.

Configuring Watcher Rules




Next step you need to take is configure the watcher rules – what parameters under which conditions to monitor. To do this click on Query name or  icon. In new window (Screenshot down below) press "add rule" button and fill the set of fields to specify the appropriate rule.

Screenshot: Editing Factors Watcher rules



Rules List A

+ add rule

Match	Factors	Action	Lock Period	
Call Origin				
all		Alert	0 min	
all		Alert	0 min	
all		Alert	0 min	

Match — you can use "*" wildcard in these fields.

Factors — you should list watch rules in this field delimited by ";", list of correct fields: time_total, time_billed, calls_total, calls_notzero, calls_success, calls_busy, calls_nochannel, calls_error, acd_std, acd_cur, asr_std, asr_cur, pdd, scd.

OK Cancel Apply

The set of rules depends on how many parameters you defined in "Group by #" fields when current query was created. For example, if you defined a client in query, you will be able to configure clients in watcher rules, etc. Here is the full list of possible configurable fields:

Field	Description
Match	A set of parameters that are used as base for checks

<ul style="list-style-type: none"> • Call Origin 	Type of route to check (origination, termination or both)
<ul style="list-style-type: none"> • Client 	What client to apply rules to
<ul style="list-style-type: none"> • Account 	What account to apply rules to
<ul style="list-style-type: none"> • Code Group 	What code group to apply rules to
<ul style="list-style-type: none"> • Code 	What code to apply rules to
<ul style="list-style-type: none"> • VoIP Gateways 	What VoIP gateway to apply rules to
Factors	Factors that are applied to current rule. Rules must be listed with delimiting symbol “;”. Correct list of rules: <i>time_total, time_billed, calls_total, calls_notzero, calls_success, calls_busy, calls_nochannel, calls_error, acd_std, acd_cur, asr_std, asr_cur, pdd, scd</i> . For example, if you enter “ <i>time total > 100</i> ” this will mean that when total calls time count for respective match parameters goes over 100 minutes, system will create an alert
Action	An action that should be taken if rule match is found
Lock Period	If action was block of number, destination or code, then define duration of that block in this field

Routing Details

This document will describe everything that concerns the routing capabilities of JeraSoft VoIP Carrier Suite. Please note, that for all this functions to be available to you, your JeraSoft VCS installation should include the Routing Module.

Introduction to VCS Routing Module

JeraSoft VCS is able to provide so-called Dynamic Routing features, also often called External Routing. Depending on your preferred switch manufacturer, VCS is able to utilize these functions via RADIUS Protocol or SIP Redirect Server. To find out more, regarding possible options for your switch manufacturers, please consult VCS Integration Manual or contact JeraSoft Support.

In VCS, Dynamic Routing works based on three principles: Routing Plans, Routing Policies and Routing Table generation. So, how can you set it working? A few easy steps:

Step 1: You need to create so-called Routing Plan, which consists of rules that describe your routing preferences and other criteria;

Step 2: You need to choose desired policy for your rules – a special formula to decide which routes should get top priority (for example, this way you decide whether you want to do LCR or Quality Routing);

Step 3: Assign created Routing Plan to your origination customer(s), wait a little bit till Routing Table is created and you are all set!

Please check the subsections below to get more detailed information regarding JeraSoft VCS Routing Module. Main module instruments can be found in *Routing* section of the system, which will appear if module is activated.

- [Routing Plans](#)
- [Routing Presets](#)
- [Routing Analysis](#)
- [Dynamic Routing Policies](#)
- [Dynamic Routing Table](#)
- [Routing Useful Tips](#)

Routing Plans

On this page

- [Routing Plans Section Main Window](#)
- [Editing Routing Rules](#)

Routing Plans Section Main Window

Routing Plans section becomes accessible if Routing Module is enabled in your JeraSoft VCS installation. To access *Routing Plans* section, please log in to your system and go to *Routing – Routing Plans*.

Routing Plans is something that manages your routing rules for your customers, providers and destinations. Each routing plan should be assigned to a respective customer (originator) for routing to work. While creating routing plan you are able to combine dynamic and static routing rules and assign separated rules for each and every of your destinations. To add new routing plan, simply click on «*New Routing Plan*» button and fill the following (Screenshot):

Screenshot: *Routing Plans* section main window

ID	Name	Reseller	Code Deck	Rules Hunting	DR Order	Rules
7	Custom-KSA	Reseller B	—	longest only	by appeal	3
8	debug	Reseller B	DEFAULT	longest only	by code / appeal	2
5	DR: Complex LCR	Reseller B	—	longest only	by code / appeal	1
4	DR: Complex Quality	Reseller B	—	longest only	by code / appeal	1
3	DR: Proportional	Reseller B	—	longest only	by code / appeal	1
2	DR: Simple LCR	Reseller B	DEFAULT	longest only	by appeal	2
1	DR: Simple Quality	Reseller B	—	longest only	by code / appeal	1
6	GO	Reseller A	—	longest only	by code / appeal	1

Column	Description
ID	Your routing plan ID
Name	A name for your routing plan
Reseller	Choose a reseller-owner of this routing plan. Additionally, you may choose any additional resellers that will be able to use this routing plan in « <i>Allow Routing Plan only to following resellers</i> » to the right
Code Deck	Select a Code Deck if you want to route by code names
Rules Hunting	Choose a hunting mode. Note, that this only applies to rules listed in Routing Plan Two options are available
	<ul style="list-style-type: none"> • longest only Routing will find only the longest matching code and will stop looking for shorter codes that comply to routing rule otherwise
	<ul style="list-style-type: none"> • all matching All possible matches will be found, including even shortest codes
DR Order	Select mode of routes sorting in routing table. The options here are: <i>by appeal</i> – routes will be sorted in accordance to their resulting appeal value; <i>by code / appeal</i> – routes will be grouped by codes and then sorted by appeal value
	<ul style="list-style-type: none"> • by appeal Routes will be sorted in accordance to their resulting appeal value
	<ul style="list-style-type: none"> • by code / appeal Routes will be grouped by codes and then sorted by appeal value

Rules	An amount of rules, which refers to the respective routing plan
--------------	---

This concludes creation of routing plan.

Editing Routing Rules

Now you need to fill it with routing rules (Screenshot below). To do that click on routing plan's name, click «add rule» and fill the following:

Screenshot: Routing plan contents

Priority	Code	Code name	Type	Terminator / Policy	PM	Params	Capacity
0	*		Dynamic	Simple LCR		TP: all time Term G: Premium CID, Wholesale CID	
0	966*		Static	Vendor D / all accounts		TP: all time	
1	966*		Static	Vendor C / all accounts		TP: all time	

Field	Description
Priority	Define a priority of rules execution, if they have similar code or code name specified
Code	Enter a code which will be used in current routing rule, use * as wildcard
Code Name	You may select a code name here if you have code deck attached to routing plan. This code name is used in same fashion as code – to perform routing based on group of codes
Type	Select a dynamic or static type or routing for current rule
Terminator / Policy	If you selected static for type, you may specify a terminator here; if you selected dynamic for type, specify routing policy for current rule
PM	Define a <i>Profit Margin</i> value for current rule here
Params	A number of additional parameters available here. You may define time profile for the rule here, allowed phone number length and routing to/for specific routing groups (for dynamic rules)
Capacity	Limit capacity for current rule (leave blank for unlimited)

Also, you may go to *Routing Plan* tab to edit any information you entered during plan creation process or to *Import / Export* tab to import or export list of routing rules respectively.


Note: After all info is entered and rules created, you need to go to *Management - Clients* section and assign this routing plan to one or more of your origination clients.

Routing Presets

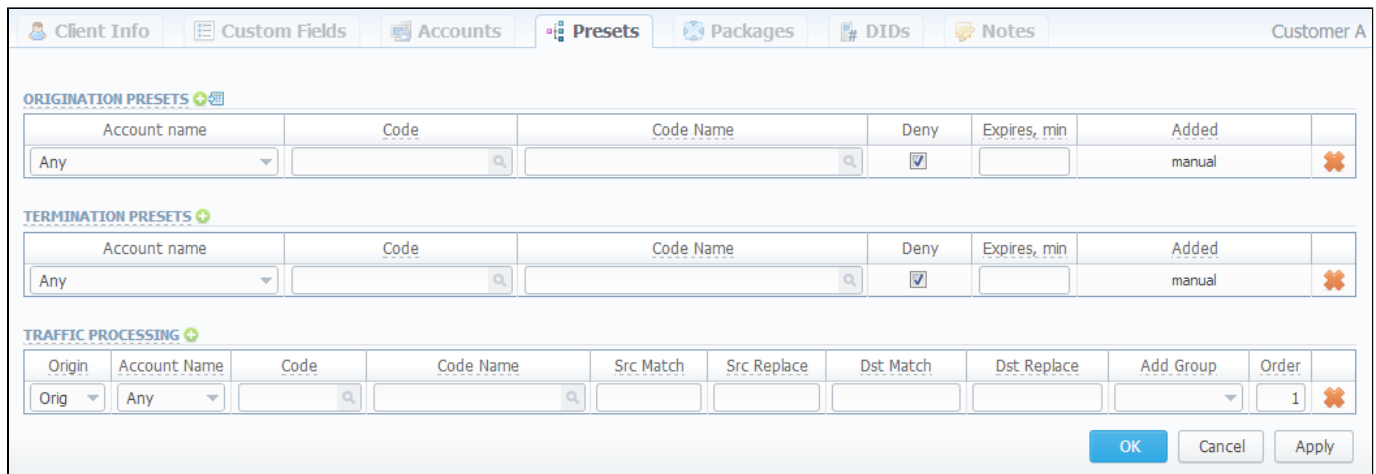
On this page

- [Routing Presets Contents](#)
- [Adding Routing Presets](#)
- [Performing Number Translation](#)

Routing Presets Contents

Routing Presets is additional instrument that you may use to block codes or whole destinations while doing Dynamic Routing. Routing Presets are accessible through *Management – Clients* section, by clicking on  icon next to specific client name. When you click it, you will see the following window:

Screenshot: Routing presets contents



The screenshot shows a web interface for 'Customer A' with tabs for Client Info, Custom Fields, Accounts, Presets, Packages, DIDs, and Notes. The 'Presets' tab is active, displaying three sections:


- ORIGINATION PRESETS**: A table with columns: Account name (Any), Code (searchable), Code Name (searchable), Deny (checked), Expires, min (empty), and Added (manual). A delete icon is in the right corner.
- TERMINATION PRESETS**: A table with columns: Account name (Any), Code (searchable), Code Name (searchable), Deny (checked), Expires, min (empty), and Added (manual). A delete icon is in the right corner.
- TRAFFIC PROCESSING**: A table with columns: Origin (Orig), Account Name (Any), Code (searchable), Code Name (searchable), Src Match (empty), Src Replace (empty), Dst Match (empty), Dst Replace (empty), Add Group (empty), Order (1), and a delete icon.

Buttons for OK, Cancel, and Apply are located at the bottom right.

There, you are able to add origination and termination presets, to block desired destination or code by clicking on «Deny» box. Also, the same window allows you to perform different number translations under «Traffic Processing». These translation rules use POSIX expressions syntax. For example, if number is 123#456, Match field is `^123#(.*)` and Replace field is 789\1, then resulting number will be 789456.

Please browse the full list of fields and descriptions of the routing presets window below.


Adding Routing Presets

To add a route press  icon near "Origination" and / or "Termination" presets and enter all required information in next fields:


Field	Description
Account name	Client's account that should be used in current routing rule
Code	Specify a code of destination here (use * as wildcard)
Code Name	Or select a destination name in this field if applicable
Deny	Enable this to deny current route selection
Expires, min	Set a duration in minutes, for which the block should be active (leave blank to block forever)
Added	When and how the rule was originally added
	<ul style="list-style-type: none"> • manual Added using this section

<ul style="list-style-type: none"> • <i>auto</i> 	Added by Factors Watcher
---	--------------------------



Tip: By pressing  icon near "Origination Presets" rubric you will get an access to "Mass Import" feature. This feature allows you to add new presets to already existing or to purge all existing presets and add new ones.

Performing Number Translation

To perform a number translation, press  icon near "Traffic Processing" rubric and fill the following fields:

Field Name	Field Description
Origin	Specifies, when current translation rule will be applied
	<ul style="list-style-type: none"> • <i>ORIG</i> For calls originated from a client
	<ul style="list-style-type: none"> • <i>TERM</i> For calls terminated to a client
	<ul style="list-style-type: none"> • <i>DR</i> On Dynamic Routing, before sending calls to a terminator
Account Name	Select a respective account here
Code	Specify a code of destination here (use * as wildcard)
Code Name	Or select a destination name in this field if applicable
Src Match	In this field you may set a template by which a number will be analyzed, and if template matches the number, the translation will occur in respect to settings in Src Replace field
Src Replace	Put a resulting action in this field, that will be performed, if translation process will take place
Dst Match	In this field you may set a template by which a number will be analyzed, and if template matches the number, the translation will occur in respect to settings in Dst Replace field
Dst Replace	Allows you to put matched calls into specified Origination Routing Group
Add Group	Allows you to put matched calls into specified Origination Routing Group
Order	Sets rules ordering, first matched rule will stop further number translations

Routing Analysis

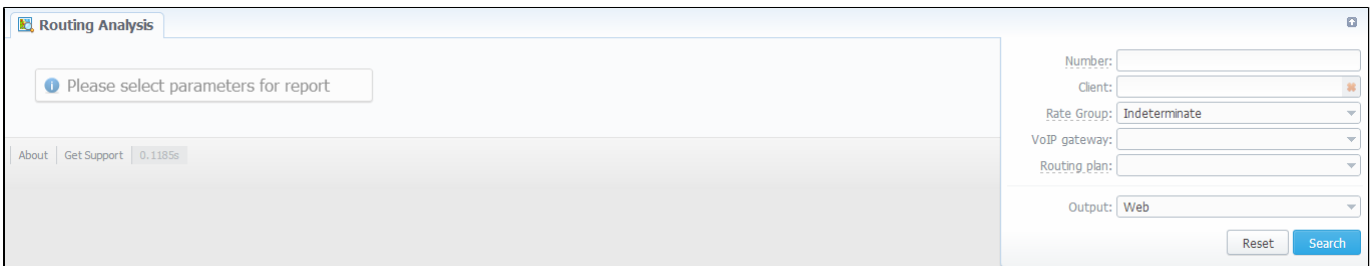
On this page

- [Routing Analysis Section Main Window](#)
- [Forming DR Analysis Report](#)

Routing Analysis Section Main Window

Routing Analysis section represents a routes analyzer tool that allows you to manage dynamical routes and simulate different routing models without hurting live voice traffic. This section can be accessed if you go to *Routing – Routing Analysis*. It should be noted, that this tool can be of use only when you are using Dynamic Routing feature. Main window of *Routing Analysis* section represents a search form with following parameters (Screenshot):

Screenshot: DR Analysis search form



The screenshot shows the 'Routing Analysis' search form. It features a main area with a message 'Please select parameters for report' and a sidebar with various input fields: 'Number' (text input), 'Client' (dropdown with a clear button), 'Rate Group' (dropdown menu showing 'Indeterminate'), 'VoIP gateway' (dropdown menu), 'Routing plan' (dropdown menu), and 'Output' (dropdown menu showing 'Web'). At the bottom right of the sidebar are 'Reset' and 'Search' buttons. The top left of the window shows 'About', 'Get Support', and a timer '0.1185s'.




Field	Description
Number	Enter a phone number here to define a destination (you can use «*» as any symbol, for example, 380* means any number that begins with 380)
Client	Select a client you want to create report about
Rate Group	A group, which this rate belongs to. Refers to Jurisdictional Billing and Routing Module
VoIP gateway	Select a desired VoIP gateway here
Routing Plan	Select here some specific routing plan
Output	Select result output format (web, XLS or CSV file)

When all required information is entered, press «Query» button.

Forming DR Analysis Report

Here is how an analysis report may look like (Screenshot):

Screenshot: DR Analysis report

Routing Analysis +										
Number: 38096			Client: Customer A				Client Capacity: 2 0 active calls			
Routing Plan: GO			Destination: 380 Ukraine				Account Capacity: — 0 active calls			
DR Order: by code / appeal			Orig Rate: 3.2000 DKK				Reseller Capacity: — 0 active calls			
Rules Hunting: longest only										
TYPE: NORMAL										
Rank		Appeal	Terminator	Code	Term Rate	Account IP / Name	Dst Number	VoIP gateway		
1	  	—	Vendor A account_1	380 Ukraine	3.2000 DKK	93.189.98.11/32	0038096	Any		

The resulting list shows detailed information regarding routing, including route availability / unavailability, profit margin control, reseller / group limitation, resulting appeal, code rate etc.



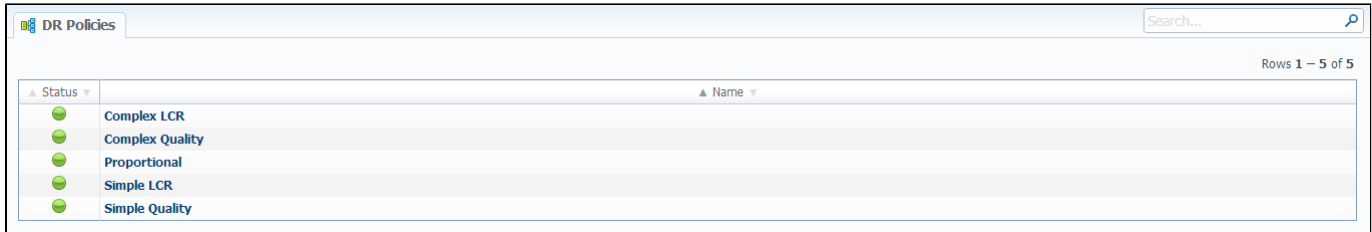
Note

Routing Analysis shows routes based on routing table built on last run of Dynamic Routing Manager. So won't be able to see last changes with Routing Rules until Dynamic Routing Manager will be restarted.

Dynamic Routing Policies

This section simply lists currently available routing policies for VCS. They currently are (Screenshot):

Screenshot: DR Policies section main window




The screenshot shows a window titled "DR Policies" with a search bar in the top right corner. Below the search bar, it indicates "Rows 1 - 5 of 5". The main content area is a table with two columns: "Status" and "Name". Each row in the table has a green status indicator (a circle with a dot) and a policy name. The policies listed are: Complex LCR, Complex Quality, Proportional, Simple LCR, and Simple Quality.

Policy	Description
Complex LCR	Three cheapest routes are sorted by quality
Complex Quality	Three routes with most quality are sorted by price
Proportional	The lower the price and higher the quality route has, the more priority it gets
Simple LCR	Generic price-based routing
Simple Quality	Generic quality-based routing

You may browse each policy routing formula by clicking on respective policy's name. Please do not change formulas to avoid unexpected routing results.

Dynamic Routing Table

JeraSoft VCS solution operates with its own Routing Table, which is automatically created in defined regular periods of time to provide the «dynamic» part of the Routing. This Routing Table includes latest changes to whole routing process, that include all latest changes made to system configuration, such as clients or rates update, changes to routing plans, accounts reconfiguration etc.

It is always good idea to recreate your routing table, to be able to see how your routing will work with current settings. Of course, if you don't have time to wait till it is created automatically, you can do that in manual mode. To generate routing table manually, please go to *System – Task Scheduler*, and click on the respective  button. The routing table will be generated shortly after.

Routing Useful Tips

On this page

- [Routing by SRC Number / Orig Group](#)
- [If Routing Doesn't Work](#)
- [Routes Testing](#)
- [Jurisdictional Billing Module](#)

Routing by SRC Number / Orig Group

Dynamic Routing Module has the function of providing routing based on src numbers, in addition to usual dst number routing. To use this type of routing you can do the following:

- Go to *Configuration – Client Groups* and create a group of *Orig Traffic* type;
 - Go to *Management – Clients* and open customer's presets tab, find *Traffic Processing* and perform a translation of Orig type, which says the following: in case call comes from specific src number (use *Src Match* field), put this call into group you just created (for routing by src number);
- or-
- Go to *Management – Clients*, open customer's accounts tab, and put an origination account into the group you just created (for routing by orig group);
 - Go to customer's *Routing Plan* and specify in routing rule "Allow routing only for following groups", where select orig group you've just created. This will insure that current rule will be applied only for traffic that belongs to specified group (either all traffic from designated src number(s) or from specified customer's account, belonging to an orig group).

If Routing Doesn't Work

If your newly routing setup doesn't work, please heed the following tips, maybe it's too early to call Customer Support Service:

- If you added or updated customer's rate, routing with new data will be available only after DynRouting Manager recreates routing table with most relevant information;
- If your customer's rate tables use Time Profiles, relevant rates will be effective in routing only after DynRouting Manager recreates the routing table after respective time profile settings come into effect (for example, if Time Profile states that rate is effective from 10am to 6pm, that rate will be used in routing only after first DynRouting Manager start after 10am, and not directly at 10am as stated by Time Profile);
- Pay attention to Routing Groups and Routing Permissions, it is possible that relevant vendors are forbidden for current customer or are in forbidden routing groups. This will be clearly visible in Routing Analysis, after query is made.

Routes Testing

JeraSoft VCS provides you means of comfortable and convenient testing of existing vendors. These means are provided by special routing plan, called *DR: Routes Testing*, which is not possible to edit through *Routing Plans* section. This plan will only be visible when assigned to an origination customer or in *Routing Analysis*.

So, how to use it? It's very easy. All you need to do is assign it to origination client which will be doing the testing (for example, this can be a SIP dialer phone of test-engineer), and then dial in following format: xxx*yyyyy, where xxx is an ID of termination vendor's account (these ID's can be viewed in *accounts* pop-up, when you click "Extra Fields"), and yyyy – the actual number in international format (or other format, if it's set otherwise).

For example, if test-engineer will dial 100*4955667788, this will mean that number 4955667788 will be sent to a vendor, who has an account with ID = 100. This way a test person can quickly and conveniently test a lot of vendors, without the need to build new routing plans/rules for each particular case.

Jurisdictional Billing Module

From now you can get our [Jurisdictional Billing Module](#), which supports jurisdictional routing with several features and solutions, including billing and routing over **NPA NXX codes** and support of **LNP** dipping from multiple vendors or over own database.

Jurisdictional Billing Module are integrated with TPM / LERG database and determines a jurisdiction of calls doing the following steps:

1. Parsing TPM / LERG database from inconnetive to the internal format (jurisdictional_table);
2. After client identification process, identifying NPA-NXX for both Source and Destination numbers and finding out jurisdiction of the call through the internal jurisdictional table;
3. Setting call group to the one of the following:
 - Interstate – InterLATA;
 - Intrastate – InterLATA;

- Interstate – IntraLATA;
 - Intrastate – IntraLATA.
4. Getting appropriate origination rate group.



Please note that Jurisdictional Billing (billing and routing over **NPA NXX codes**) is not included in *Dynamic Routing* for terminating vendors.

For more information about getting this Module please contact with JeraSoft Support Team.

Configuration

This section of our Guide contains everything that relates to the *Configuration* tab of JeraSoft VoIP Carrier Suite. For more details please go to the related subsections:

- [Code Decks](#)
- [Currencies](#)
- [Payment Accounts](#)
- [Payment Terms](#)
- [Payment Methods](#)
- [Time Profiles](#)
- [Taxes Profiles](#)
- [Groups](#)
- [Invoices Templates](#)
- [VoIP Gateways](#)
- [Settings](#)

Code Decks

On this page

- [Code Decks Section Main Window](#)
- [Creating New Code Deck](#)
- [Managing Code Decks](#)
 - [Adding Codes](#)
 - [Importing Codes](#)
 - [Exporting Codes](#)

Code Decks Section Main Window

This section houses all code decks – name sets for your codes. By having multiple code decks you can freely operate in different names for same codes and change them on the fly. Main window of this section is presented on Screenshot:

Screenshot: Code Decks section main window



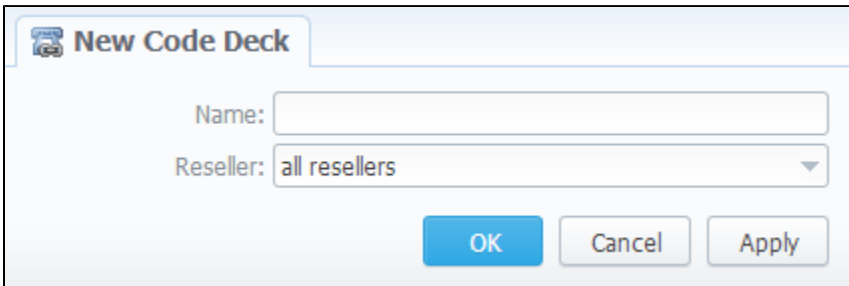
ID	Deck Name	Reseller	Codes		
1	DEFAULT	any reseller	66932		
2	A	any reseller	0		
3	B	Reseller A	0		
4	C	Reseller B	0		

The deck itself consists of destination code and destination name. Thus, having lots of code decks, you may have lots of different name-sets for same destination codes.

Creating New Code Deck

To create a code deck, press “New Code Deck” button and specify the deck name and reseller it belongs to (Screenshot):

Screenshot: New Code Deck window



New Code Deck

Name:

Reseller:

Managing Code Decks

To manage your code deck left-click on the deck's name.

In the window with the list of all existing codes (Screenshot below) you will be able to perform next operations:

Screenshot: Code deck's contents

Code	Code Name	Country		
1	North America			
1201555	USA Directory Assistance			
1201763	United States - OffNet			
12017632	United States - OffNet			
12017636	United States - OffNet			
12017637	United States - OffNet			
12017638	United States - OffNet			
12017639	United States - OffNet			
1202555	USA Directory Assistance			
1203547	United States - OffNet			
1203555	USA Directory Assistance			
1203902	United States - OffNet			
1204	Canada-Manitoba			

Adding Codes

When you press "New Code" button, you will be able to add a code group to your deck. The pop-up window contains the following parameters (Screenshot):

Screenshot: New Code Window

New Code
DEFAULT

Code Deck: **DEFAULT**

Code:

Code Name:

Country:

OK
Cancel

Field	Description
Code	Destination code
Code Name	Displayed name of a code group
Country	Which country the codes in current group will belong to

Importing Codes

It is the possibility to import a list of codes and code names from file. To import a file, do the following: go to the "Import Codes" tab (Screenshot down below) and fill the following fields:

Screenshot: "Import Codes" section tab

Field	Description
Select CSV file	Select an import CSV file
Fields delimiter	Specify here a delimiter symbol
Field "Code"	Specify column number that corresponds to number prefix that will be displayed in reports
Field "Name"	Specify column number that corresponds to number prefix that will be displayed in reports
Field "Country"	Specify column number that corresponds to number prefix that will be displayed in reports
Field "Country Code"	Specify column number that corresponds to number prefix that will be displayed in reports
"Skip first row" Checkbox	Enables file first row ignoring during import

And also, specify field importing method:

Method	Description
Import only not existing rows	Import only empty rows
Import all rows (replace existing)	Import all rows with overwriting of existing rows
Import all rows (remove existing first)	Import all rows with removal of existing rows

The import file may have this structure:

Code	Code Name	Country
55	Brasil	Brasil
5531, 5531210	Brasil – Belo Horizonte	Brasil
55312111	Brasil – Belo Horizonte	Brasil

Exporting Codes

This feature allows you to export a contents of a code deck to file. To export info to file, do the following: go to "Export Codes" section tab (Screenshot down below) and specify the following: delimiter symbol in "Fields delimiter" field and first CSV file row as a title row with a "With headers row" checkbox (optional). After you press "OK" button, you will be prompted to save a file. Enter respective path on your hard drive.

Screenshot: "Export Codes" section tab

Codes List

Import Codes

Export Codes

DEFAULT

Fields delimiter:

With headers row

OK

Cancel

Currencies

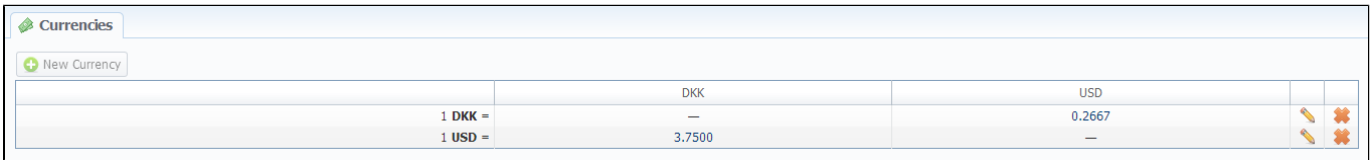
On this page

- [Currencies Section Main Window](#)
- [Adding New Currency](#)
- [Specifying Currencies Rate](#)

Currencies Section Main Window

This section displays the list of all currencies, registered in system:

Screenshot: Currencies section main window



The screenshot shows a window titled "Currencies" with a "New Currency" button. Below the button is a table displaying exchange rates for DKK and USD. The table has two columns for the base currency (DKK and USD) and two columns for the target currency (USD and DKK). The exchange rates are: 1 DKK = 0.2667 USD and 1 USD = 3.7500 DKK. There are edit and delete icons for each row.

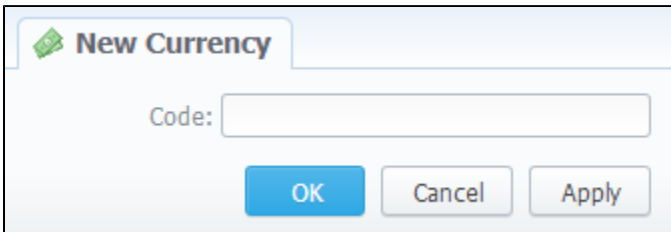
	DKK	USD		
1 DKK =	—	0.2667		
1 USD =	3.7500	—		

The list is displayed as currency exchange table, where each currency has direct exchange rate with any other currency.

Adding New Currency

You can add new currency by pressing "New Currency" button. In pop-up window (Screenshot below), you should specify name for the new currency:

Screenshot: "New Currency" window






The screenshot shows a pop-up window titled "New Currency" with a "Code:" label and an input field. Below the input field are three buttons: "OK", "Cancel", and "Apply".

Specifying Currencies Rate

After you add currency, you need to specify its rate. To do this, press respective exchange rate.




In pop-up window (Screenshot below) you can view a history of currency's rate changes that were made from currency's creation up to this moment.


Screenshot: Currency's rate changes history

Exchange Rate		USD / DKK	
		Rows 1 – 2 of 2	
Date	Rate	Change	
27/03/2013 10:00:00 +0200	3.7500	0.2500	
10/08/2012 13:00:00 +0300	3.5000	0.0000	

To add new currency's rate press "Add" button. Then you can specify currency's rate in "Rate" field. "Date" field displays the date of current currency's rate change, which will be recorded by system (Screenshot).

Screenshot: Adding new currency's rate

Exchange Rate		USD / DKK	
		Rows 1 – 2 of 2	
<div data-bbox="162 808 657 1018" style="border: 1px solid #ccc; padding: 5px;"> <p>1 USD = <input type="text" value="0.0000"/> DKK</p> <p>Date: <input type="text" value="2013-09-06 14:00:00+0300"/></p> <p style="text-align: right;"><input type="button" value="Add"/></p> </div>		Rate	Change
		3.7500	0.2500 
		3.5000	0.0000 

 **Tip:** Statistics data in new currency will be available after adding currency into system, but if currency has old start date and you want old data to be billed in this currency, you need to run calls rerating.

Payment Accounts

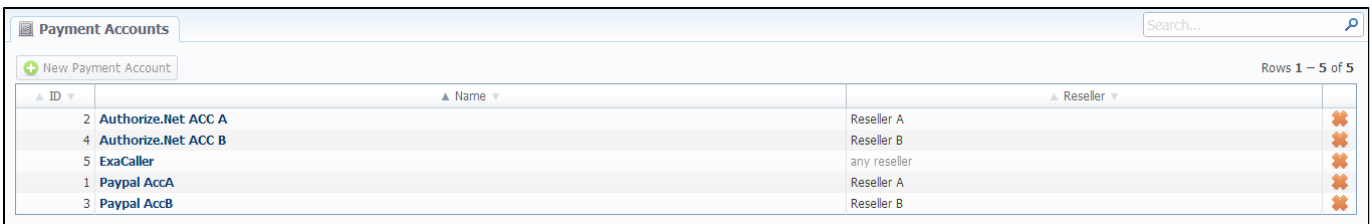
On this page

- [Payment Accounts Section Main Window](#)
- [Adding New Payment Account](#)

Payment Accounts Section Main Window

This section allows you to create different payment accounts for correct and precise transactions (payments) management (Screenshot below). These accounts are exact payment definitions which will be visible in *Transactions* section. For example, you can have *Bank Transfer* and *Credit Card* accounts, and when applying respective payments, you will be able to define that payment origin by selecting respective account.

Screenshot: *Payment Accounts* section main window



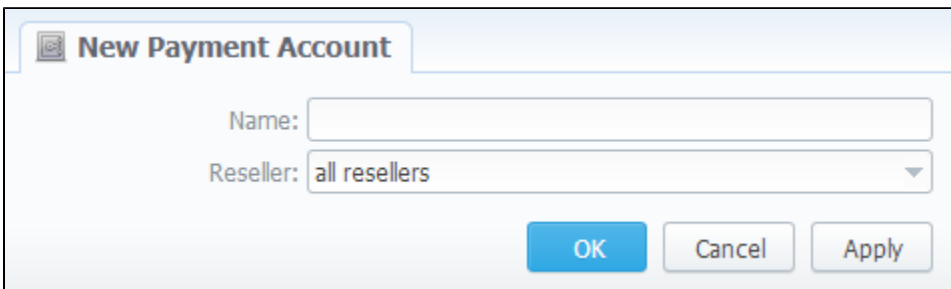
The screenshot shows the 'Payment Accounts' window with a search bar and a 'New Payment Account' button. Below is a table listing existing accounts:

ID	Name	Reseller	
2	Authorize.Net ACC A	Reseller A	✖
4	Authorize.Net ACC B	Reseller B	✖
5	ExaCaller	any reseller	✖
1	Paypal AccA	Reseller A	✖
3	Paypal AccB	Reseller B	✖

Adding New Payment Account

To create new payment account, simply click "New Payment Account" button, specify account name and a reseller (Screenshot below). After this, this account will be available in *Transactions* section.

Screenshot: *Adding new payment account*



The 'New Payment Account' dialog box contains the following fields and buttons:

- Name:** An empty text input field.
- Reseller:** A dropdown menu currently showing 'all resellers'.
- Buttons:** 'OK' (highlighted in blue), 'Cancel', and 'Apply'.

Payment Terms

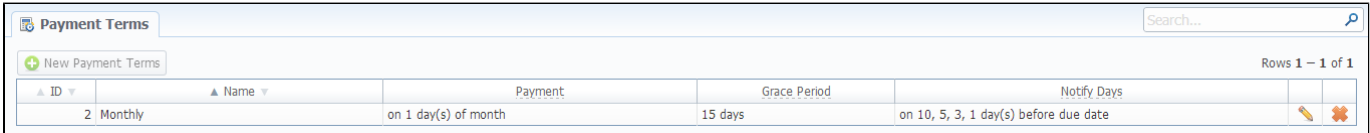
On this page

- [Payment Terms Section Main Window](#)
- [Adding New Payment Terms](#)

Payment Terms Section Main Window

This section helps to make the clients' invoicing easier and faster by allowing to use autoinvoicing profiles. Main window is displayed on Screenshot:

Screenshot: *Payment Terms section main window*



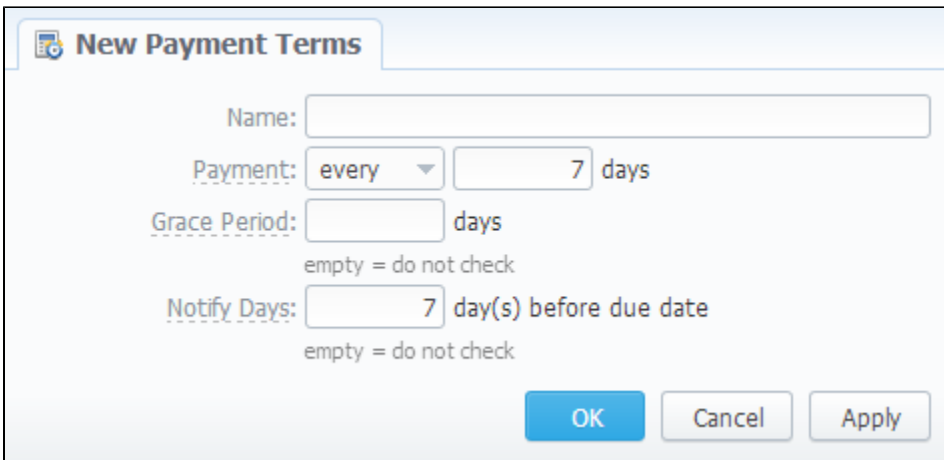
ID	Name	Payment	Grace Period	Notify Days		
2	Monthly	on 1 day(s) of month	15 days	on 10, 5, 3, 1 day(s) before due date		

This list houses the profiles that determine payment terms. These profiles are used to autoinvoice your clients.

Adding New Payment Terms

You can add a new such profile by pressing "New Payment Terms" button. A dialog-window (Screenshot below) allows you to specify next parameters:

Screenshot: *Adding new payment profile*



New Payment Terms

Name:

Payment: days

Grace Period: days
empty = do not check

Notify Days: day(s) before due date
empty = do not check

Field	Description
Name	Current profile name
Payment	You can specify the exact day or the frequency of payments here (for example, on 7-th day of the month or every 10 days)
Grace Period	Period that specifies how much time the client has to pay the bill after he was invoiced (so-called "Deferral period")

Notify Days	<p>Here you can specify by how many days before the payment date reminders will be sent to client (for example, if you will enter <i>10</i> as a value, the reminder will be sent 10 days before the payment date)</p> <p>You can specify more than one value in this field dividing them with comma symbol - “;”</p>
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Payment Methods

On this page

- [Payment Gateways Section Main Window](#)
- [Configuring Payment Gateways](#)

Payment Gateways Section Main Window

This section is dedicated to configuration of methods your customers may use to recharge their balance. Currently, there are few default methods available: *Authorize.net, Moneybookers, PayPal Top-Up cards and Ukash* (Screenshot).

Screenshot: Payment Gateways section main window

PAYPAL

ORDER POSITION:

E-mail:	<input type="text" value="paypal@exa.com.sa"/>	You PayPal e-mail, payment recipient.
Gateway Currency:	<input type="text" value="U.S. Dollar (USD)"/>	Currency which will be used by user to perform a payment.
System Currency:	<input type="text" value="USD"/>	This setting reflects currency of the gateway. Amount received will be treated as specified currency. Leave empty if not required for the gateway (eg. top-up cards).
Amount Limits:	<input type="text" value="50, 100, 200, 500, 1000"/>	Possible values for top-up separated by comma (eg "5, 20, 100"). If empty — user can specify any value. Field should be empty for top-up cards.
Payment Account:	<input type="text" value="Paypal AccA / Reseller A"/>	Specify account which will be used for transactions from this payment gateway.
Description:	<input type="text" value="Here you can add funds to your balance by using your PayPal account."/>	A user will see this text as a help-tip for respective payment method.

AUTHORIZE.NET

ORDER POSITION:

Login:	<input type="text" value="admin"/>	Add your API login ID
Transaction Key:	<input type="text" value="*****"/>	Add your API transaction key
Amount Limits:	<input type="text"/>	Possible values for top-up separated by comma (eg "5, 20, 100"). If empty — user can specify any value. Field should be empty for top-up cards.
Payment Account:	<input type="text" value="Authorize.Net ACC A / Reseller A"/>	Specify account which will be used for transactions from this payment gateway.
Description:	<input type="text" value="Here you can add funds to your balance by using your PayPal account."/>	A user will see this text as a help-tip for respective payment method.

MONEYBOOKERS

ORDER POSITION:

E-mail:	<input type="text"/>	Your Moneybookers e-mail, payment recipient
Secret word:	<input type="text"/>	Your Moneybookers secret word you set in your Moneybookers profile Merchant Tools
Gateway Currency:	<input type="text" value="U.S. Dollar (USD)"/>	Currency which will be used by user to perform a payment
System Currency:	<input type="text" value="DKK"/>	This setting reflects currency of the gateway. Amount received will be treated as specified currency. Leave empty if not required for the gateway (eg. top-up cards).
Amount Limits:	<input type="text"/>	Possible values for top-up separated by comma (eg "5, 20, 100"). If empty — user can specify any value. Field should be empty for top-up cards.
Payment Account:	<input type="text" value="Authorize.Net ACC A / Reseller A"/>	Specify account which will be used for transactions from this payment gateway.
Description:	<input type="text" value="Here you can add funds to your balance by using your PayPal account."/>	A user will see this text as a help-tip for respective payment method.

TOP-UP CARDS

ORDER POSITION:

Payment Account:	<input type="text" value="Authorize.Net ACC A / Reseller A"/>	Specify account which will be used for transactions from this payment gateway.
Description:	<input type="text" value="Here you can add funds to your balance by using your PayPal account."/>	A user will see this text as a help-tip for respective payment method.

UKASH

ORDER POSITION:

Security Request Token:	<input type="text"/>	20-Character alphanumeric unique Request-Token provided by Ukash. The token is used to validate the merchant account.
Security Response Token:	<input type="text"/>	20-Character alphanumeric unique Response-Token provided by Ukash. The token is used to validate the merchant account.
Brand Id:	<input type="text"/>	Ukash will supply a brand id to the merchant for each of the brands they wish to differentiate between. The appropriate brand id must then be sent through on each transaction request.
Gateway Currency:	<input type="text" value="U.S. Dollar (USD)"/>	Currency which will be used by user to perform a payment
System Currency:	<input type="text" value="DKK"/>	This setting reflects currency of the gateway. Amount received will be treated as specified currency. Leave empty if not required for the gateway (eg. top-up cards).
Amount Limits:	<input type="text"/>	Possible values for top-up separated by comma (eg "5, 20, 100"). If empty — user can specify any value. Field should be empty for top-up cards.
Payment Account:	<input type="text" value="Authorize.Net ACC A / Reseller A"/>	Specify account which will be used for transactions from this payment gateway.
Description:	<input type="text" value="Here you can add funds to your balance by using your PayPal account."/>	A user will see this text as a help-tip for respective payment method.

Update

Configuring Payment Gateways

To configure them, first thing you need to do is select a Reseller, by using «*Settings for*» drop-down menu in the top right corner of the window. This will mean that all customers belonging to selected Reseller will have these settings. The settings themselves depend on the payment system and can include specific options for each. The shared options are following:

Option	Description
E-Mail	Respective system e-mail, that should be used
Gateway Currency	Currency of the gateway that will be used to perform payment
System Currency	Select a currency from available in VCS to be used during payment. It should match <i>Gateway Currency</i>
Amount Limits	Specify allowed values for balance recharge, divided by comma (for example, "5, 10" means that user will be able to recharge only for 5 or 10 USD). If left empty – user can specify any value
Payment Account	Select which payment account should be used for payment from respective payment gateway
Description	User will see this text as tooltip for current payment method

Time Profiles

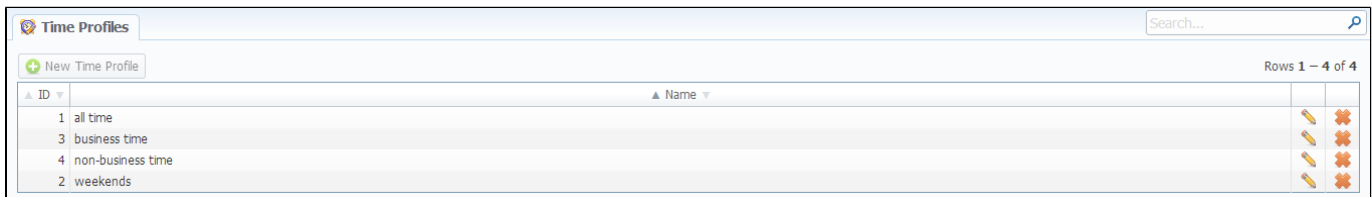
On this page

- [Time Profiles Section Main Window](#)
- [Adding New Time Profile](#)

Time Profiles Section Main Window

This section is used to create and manage time profiles. It allows you to divide rates by time of usage. For example, this can be used to sell traffic for more in business-time, and lower the price in non-business time. Main window looks like on Screenshot:

Screenshot: Time Profiles section main window

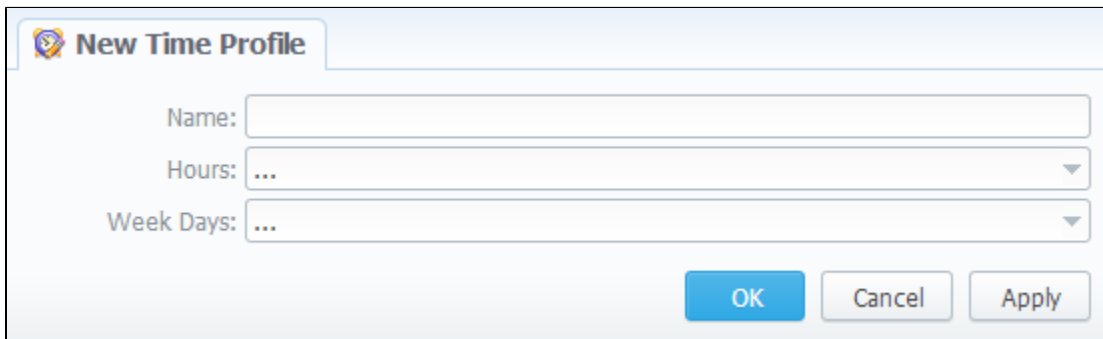


ID	Name		
1	all time		
3	business time		
4	non-business time		
2	weekends		

Adding New Time Profile

You can add new time profile by pressing "New Time Profile" button. A dialog-window will show-up:

Screenshot: Adding new time profile



New Time Profile

Name:

Hours: ...

Week Days: ...

You must enter name of new profile in the "Name" field, specify time in "Hours" section, and days of the week in "Week Days", then press "OK" button. Also, you can use "check all" and "uncheck all" options for selection.

Taxes Profiles

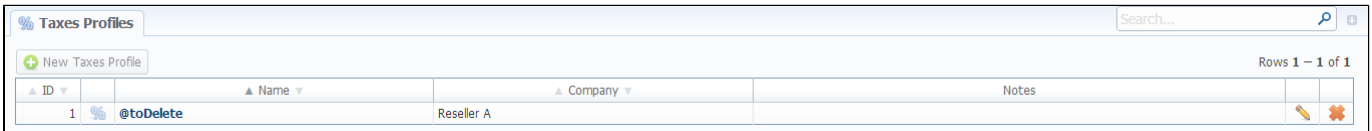
On this page

- [Taxes Profiles Section Main Window](#)
- [Creating New Taxes Profile](#)
- [Adding Taxation Rules](#)

Taxes Profiles Section Main Window

This section allows you to create so-called tax profiles, a set of taxation rules that can be applied to your rate tables in different taxation schemes.

Screenshot: Taxes Profiles section main window

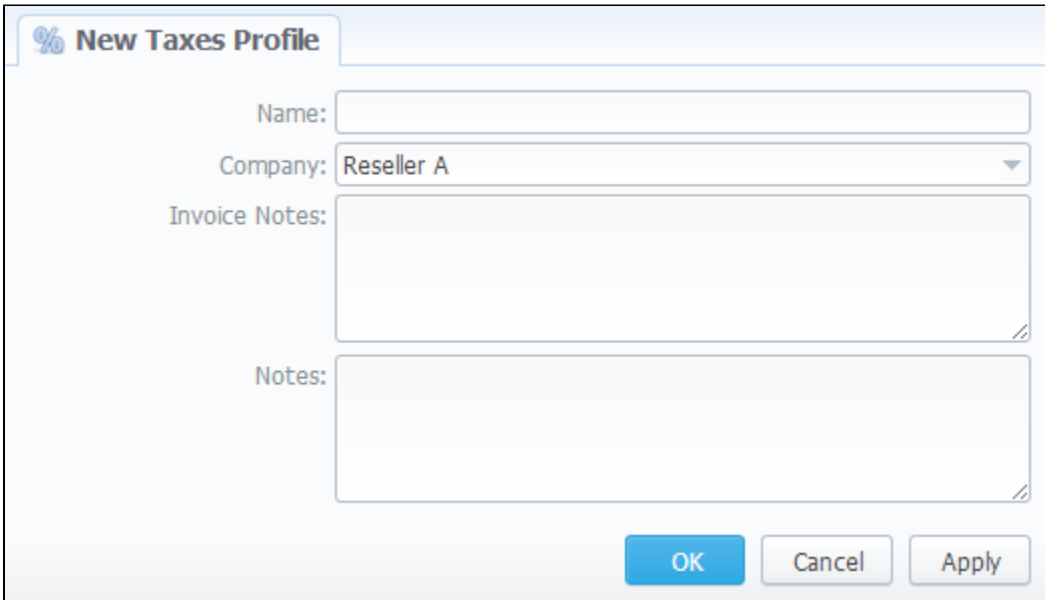


ID	Name	Company	Notes
1	@toDelete	Reseller A	

Creating New Taxes Profile

To create new profile click "New Taxes Profile" button and in pop-up window fill name and reseller-owner of current profile (Screenshot below). Also, you can fill in *notes* and *invoice notes* fields (invoice notes are additional text that will be a description of this tax profile in invoice).

Screenshot: "New Taxes Profile" window



New Taxes Profile


Name:

Company:



Invoice Notes:

Notes:



Adding Taxation Rules

To actually add a taxation rules, you need to click  icon. In the pop-up window you can add new rule by clicking on "Add Tax Value" button or edit already existed tax rule line, where you need to specify current tax name, it's percent value, effective start date and priority (Screenshot).

Screenshot: "Edit Tax Values" window

 **Edit Tax Values** @toDelete 

+ Add Tax Value Rows 1 – 2 of 2

Name	Value, %	Effective From	Priority	
@toDeleteTax1	10	2013-09-09 00:00:00+03	1	
@toDeleteTax2	13	2005-09-09 15:00:00+03	1	

OK Cancel Apply



Tip: Priority is a way to build more complex tax schemes than simple "add % of tax to operation sum". Priority works in following way: each following priority will add tax % to operation sum plus all previous priorities values. For example, if operation sum is 100USD, and there is single tax with priority 1 and value of 10%, the taxation result will be 10USD, so full operation plus tax is 110USD. If there are two taxes with priorities of 1 and 2, and respective values of 10% and 20%, then first tax yield will be 10USD, and second tax yield will be 22USD (because 20% is calculated from sum of operation plus previous tax), and total will be $100 + 10 + 22 = 132$ USD.

Groups

On this page

- [Client Groups Section Main Window](#)
- [Adding New Client Group](#)
- [Account Groups Section Main Window](#)
- [Adding New Account Group](#)
- [DID Groups Section Main Window](#)
- [Adding New DID Group](#)
- [Rate Groups Section Main Window](#)
- [Adding New Rate Group](#)

In this section all groups, which are represented in the system (of clients, accounts, etc.), are managed. All groups are represented in the form of tabs, for selecting a needed group simply click on the tab with its name.

Client Groups Section Main Window

This section displays a list of client groups presented in the system.

Screenshot: Client Groups section main window



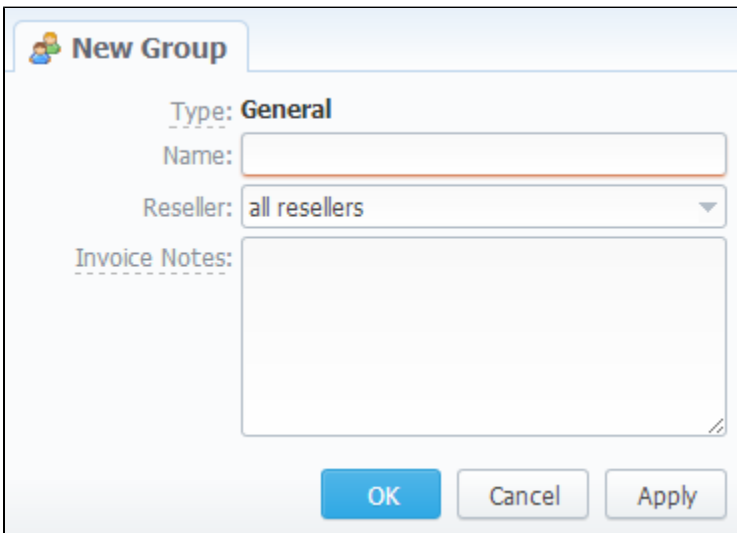
The screenshot shows the 'Client Groups' section of the application. At the top, there are tabs for 'Groups', 'Orig Groups', 'Term Groups', 'DID Groups', and 'Rate Groups'. A search bar is located on the right. Below the tabs is a 'New Group' button. The main area contains a table with the following data:

Name	Reseller	Notes
Customers	all resellers	
InterLATA-InterState	all resellers	Between different LATAs, between different states
InterLATA-IntraState	all resellers	Between different LATAs, within same state
IntraLATA-InterState	all resellers	Within same LATA, between different states
IntraLATA-IntraState	all resellers	Within same LATA, within same state
Vendors	all resellers	

Adding New Client Group

To create a new client group press the "New Group" button. Then enter a name for this group and fill other fields, if you need them.

Screenshot: Client Group "New Group" window



The screenshot shows the 'New Group' dialog window. It has a title bar with a group icon and the text 'New Group'. The dialog contains the following fields:

- Type:** General
- Name:** [Empty text box]
- Reseller:** all resellers (dropdown menu)
- Invoice Notes:** [Empty text area]

At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Apply'.

Field	Description
Name	A group name
Reseller	Specify a reseller for this group
Invoice Notes	Additional text which will be added to all invoices, issued to clients of current group

Account Groups Section Main Window

This section displays a list of created originator/terminator groups for further using them in Accounting and Dynamic Routing:

Screenshot: Originator Groups section main window

Name	Reseller	Notes
InterLATA-InterState	all resellers	Between different LATAs, between different states
InterLATA-IntraState	all resellers	Between different LATAs, within same state
IntraLATA-InterState	all resellers	Within same LATA, between different states
IntraLATA-IntraState	all resellers	Within same LATA, within same state
orig1	all resellers	

Screenshot: Terminator Groups section main window

Name	Reseller	Notes
InterLATA-InterState	all resellers	Between different LATAs, between different states
InterLATA-IntraState	all resellers	Between different LATAs, within same state
IntraLATA-InterState	all resellers	Within same LATA, between different states
IntraLATA-IntraState	all resellers	Within same LATA, within same state
Premium	Demo Reseller 01	
Wholesale	Demo Reseller 02	

Adding New Account Group

You can add new originator group by pressing the “New Group” button (Screenshots below). Then fill all needed fields in the pop-up window.

Screenshot: Originator Group “New Group” window

New Group

Type: **Orig Traffic**

Name:

Reseller: **all resellers**

Notes:

OK **Cancel** **Apply**

Screenshot: Terminator Group "New Group" window

Field	Description
Name	A group name
Reseller	Specify a reseller for this group
Notes	Additional information about a group

DID Groups Section Main Window

This section displays a list of created DID groups for using them in Retail Module:

Screenshot: DID Groups section main window

Name	Reseller	Notes
General DIDs	all resellers	
Gold Numbers	all resellers	
InterLATA-InterState	all resellers	Between different LATAs, between different states
InterLATA-IntraState	all resellers	Between different LATAs, within same state
IntraLATA-InterState	all resellers	Within same LATA, between different states
IntraLATA-IntraState	all resellers	Within same LATA, within same state
Silver Numbers	all resellers	

Adding New DID Group

For adding a new DID group you should press the "New Group" button. Then fill all required fields in the "New Group" window.

Screenshot: DID Group "New Group" window

New Group

Type: **DID Group**

Name:

Reseller: all resellers

Hold Days: 1

Notes:

OK Cancel Apply

Field	Description
Name	A group name
Reseller	Specify a reseller for a group
Hold Days	Specify the number of days till the deactivation of DID assigned package
Notes	Additional information about a group

Rate Groups Section Main Window

This section displays a list of created Rate groups for using them in Rate Tables:

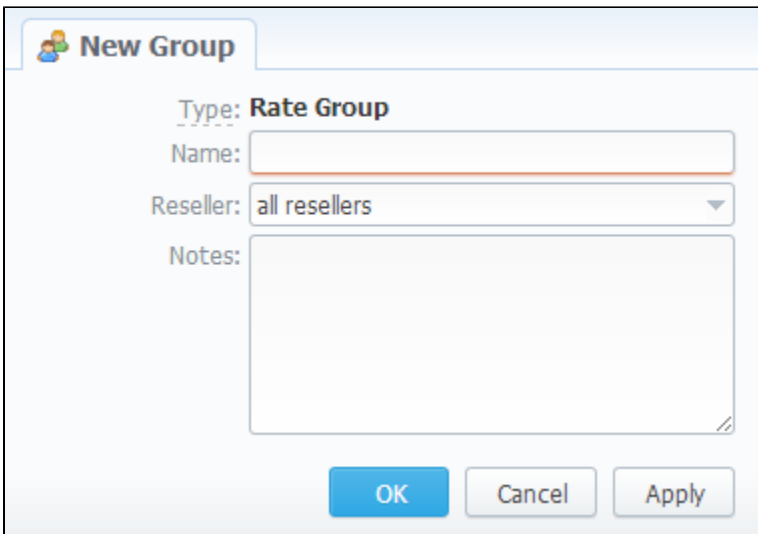
Screenshot: Rate Groups section main window

Name	Reseller	Notes
InterLATA-InterState	all resellers	Between different LATAs, between different states
InterLATA-IntraState	all resellers	Between different LATAs, within same state
IntraLATA-InterState	all resellers	Within same LATA, between different states
IntraLATA-IntraState	all resellers	Within same LATA, within same state

Adding New Rate Group

You can add new Rate group by pressing the “New Group” button. Then fill all needed fields in the pop-up window.

Screenshot: Rate Group "New Group" window

A dialog box titled "New Group" with a group icon. It contains a "Type" dropdown set to "Rate Group", a "Name" text input field, a "Reseller" dropdown menu set to "all resellers", and a "Notes" text area. At the bottom are "OK", "Cancel", and "Apply" buttons.

Field	Description
Name	A group name
Reseller	Specify a reseller for this group
Notes	Additional information about a group

Invoices Templates

On this page

- [Invoices Templates Section Main Window](#)
- [Creating New Invoice Template](#)

Invoices Templates Section Main Window

This tool allows you to create your own invoice templates, for use in different circumstances, for example if you own few companies, and each company requires its own customized invoice.

To use this feature you need to access *Configuration – Invoices Templates* section and proceed with browsing default templates or creating a new one (Screenshot).

Screenshot: Invoices Templates section main window

ID	Name	Type	Reseller	Notes
1	default	PDF	any reseller	default invoice template
5	default extended	PDF	any reseller	
2	estonian	PDF	any reseller	estonian default template

Creating New Invoice Template

When creating new template, first thing you must choose is the type of template. Currently there are two types – *xls* and *pdf*. For creating new template press respective button: "New PDF Template" or "New XLS Template". If *xls* type is selected, you can only select which fields you would like to see in invoice, as the positioning of all items are predefined. If *pdf* template is selected, you will see the interface similar to one of the popular text processors (Screenshot).

Screenshot: Creating an invoice template

EDIT PDF TEMPLATE

Name: default
Reseller: all resellers
Anonymized Codes:
 Attach CDRs list to the invoice

Notes: default invoice template

INVOICE No. {number} (sender_logo)

Date of Invoice: {date}
To be paid within {due_days} days of invoice date.
To be paid before {due_date}

FROM: {sender_name} (sender_address)
Tax ID: {sender_tax_id}
Reg ID: {sender_reg_id}

TO: {receiver_name} (receiver_address)
Tax ID: {receiver_tax_id}
Reg ID: {receiver_reg_id}

INVOICE FOR: VoIP services from {period_start} to {period_finish}, timezone {tz}

Package Info		Cost	
{name}	{details}	{rate}	{currency}
		TOTAL:	{total_cost_packages} {currency}

Country	Destination	Rate	Calls	Cost
{code_country}	{code_name}	{rate}	{count}	{cost}
			SubTotal:	{cost_subtotal}
			TOTAL:	{total_cost_calls} {currency}

{group_notes}

Payment should be directed to:
(receiver_bank_info)

SubTotal: {total_cost_net} {currency}
Tax: {(tax) %}; {total_cost_tax} {currency}

Total: {total_cost_gross} {currency}

Path: Words: 93

OK Cancel Apply

The whole process is following:

- Add a table to your workspace, right-click on it and define table class (stats, cdrs, packages, positions);
- Fill table with relevant information which should be present in invoice, by using functional variables, which you can pick from a list provided in same window at the right drop-down panels;
- After invoice template is created, fill in its name and click OK;
- Go to *Management – Resellers*, and in reseller's properties select your invoice template. This will insure that all customers of this reseller will be using this template;
- When creating invoice in *Management – Invoices* you can switch invoice template prior generating an invoice.

VoIP Gateways

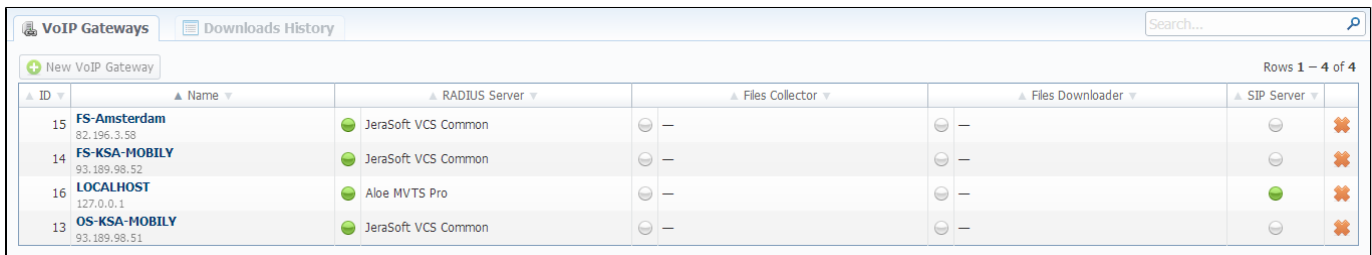
On this page

- [VoIP Gateways Section Main Window](#)
- [Adding New VoIP Gateway](#)
- [Files Downloading History](#)

VoIP Gateways Section Main Window


This section allows you to configure and integrate all switches into billing via RADIUS or CDR-files upload. Main window of this section is displayed on Screenshot:

Screenshot: VoIP Gateways section main window

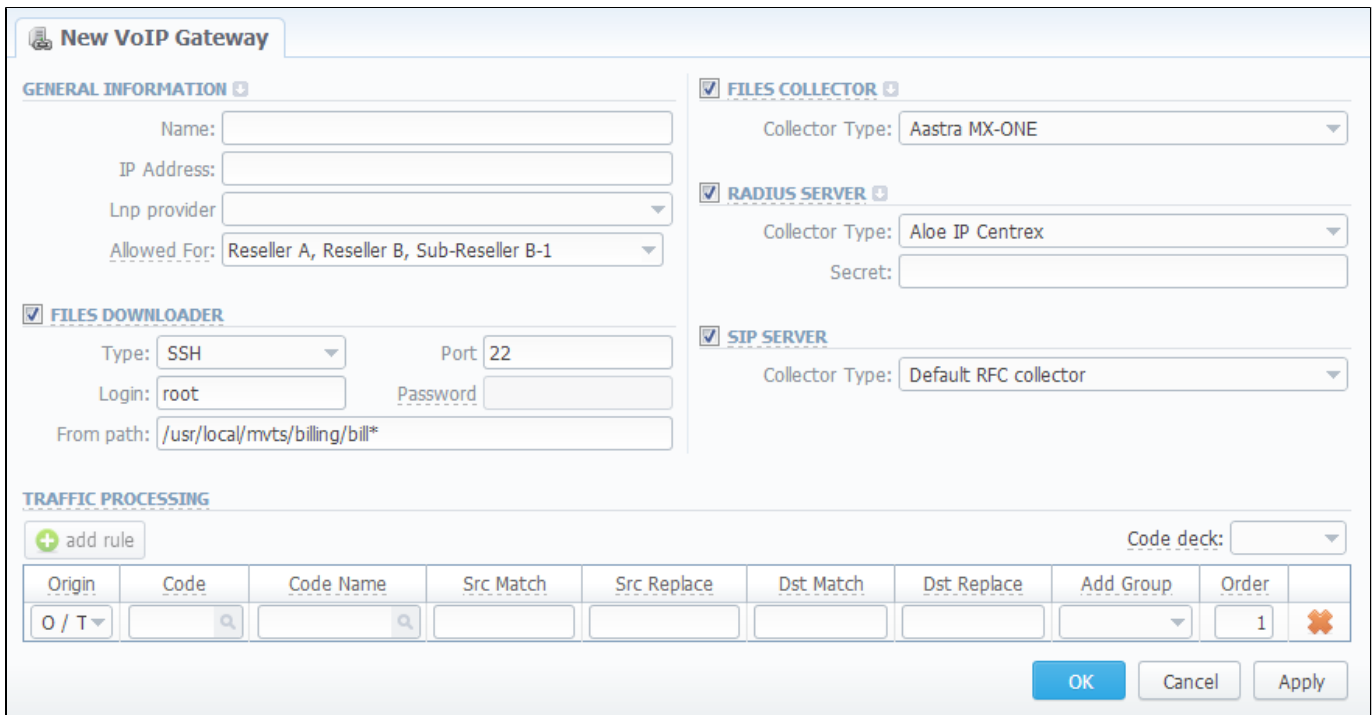


ID	Name	RADIUS Server	Files Collector	Files Downloader	SIP Server
15	FS-Amsterdam 82.196.3.58	JeraSoft VCS Common	—	—	—
14	FS-KSA-MOBILY 93.189.98.52	JeraSoft VCS Common	—	—	—
16	LOCALHOST 127.0.0.1	Aloe MVTS Pro	—	—	—
13	OS-KSA-MOBILY 93.189.98.51	JeraSoft VCS Common	—	—	—

Adding New VoIP Gateway

To add a new switch press “New VoIP Gateway” button and specify next parameters in a window that opens (Screenshot). Take a note, that some fields open by clicking on  icon near respective section.

Screenshot: Adding new VoIP Gateway



GENERAL INFORMATION

Name:

IP Address:

Ln provider:

Allowed For:

FILES DOWNLOADER

Type: Port:

Login: Password:

From path:

FILES COLLECTOR

Collector Type:

RADIUS SERVER

Collector Type:


Secret:

SIP SERVER

Collector Type:

TRAFFIC PROCESSING

+ add rule Code deck:

Origin	Code	Code Name	Src Match	Src Replace	Dst Match	Dst Replace	Add Group	Order	
O / T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	1	

Section	Fields And Descriptions	
General Information	General gateway and calls processing information	
	<ul style="list-style-type: none"> • Name 	VoIP gateway name
	<ul style="list-style-type: none"> • IP Address 	VoIP gateway IP-address
	<ul style="list-style-type: none"> • LNP Provider 	Specify here a LNP provider
	<ul style="list-style-type: none"> • Allowed For 	Specify here, which resellers can use current VoIP gateway
	<ul style="list-style-type: none"> • Ident Priority 	Set the priority of account identification
	<ul style="list-style-type: none"> • ORIG ANI Ident 	Sets originating calls ANI identification (options available: SRC number ext, SRC number bill, DST ext, DST number bill)
	<ul style="list-style-type: none"> • TERM ANI Ident 	Sets terminating calls ANI identification (options available: SRC numberext, SRC number bill, DST ext, DST number bill)
	<ul style="list-style-type: none"> • "Rate ORIG calls by DstIn number" Checkbox 	Activates / deactivates originating calls processing by full phone number in statistics
	<ul style="list-style-type: none"> • "Rate TERM calls by DstOut number" Checkbox 	Activates / deactivates terminating calls processing by full phone number in statistics
<ul style="list-style-type: none"> • "Rate calls only with "success" status" Checkbox 	Activates/deactivates processing of calls that have "success" end code only	
Files Downloader	Downloader settings	
	<ul style="list-style-type: none"> • Type 	Specify port type (SSH or FTP)
	<ul style="list-style-type: none"> • Port 	Specify port for SSH or FTP
	<ul style="list-style-type: none"> • Login 	Gateway server login (default value is "root")
	<ul style="list-style-type: none"> • Password 	Password is required for FTP integration. For SSH you have to crate SSH-keys
<ul style="list-style-type: none"> • From path 	Specify CDR-files path (mask paths are allowed)	
Files Collector	<i>File Collectors</i> gather call data from CDR-files (activate this option if you plan to use integration via CDR-files)	
	<ul style="list-style-type: none"> • Collector Type 	Which collector type should be used

	<ul style="list-style-type: none"> • Overwrite TZ 	Timezone selection (if you select a different timezone, system will ignore a timezone information stored in CDRs-file and use current value)
	<ul style="list-style-type: none"> • "Skip Zero Calls" Checkbox 	Activates / deactivates zero duration calls ignoring
	<ul style="list-style-type: none"> • "Skip Released Calls" Checkbox 	Activates/deactivates released calls ignoring
RADIUS Server	<i>RADIUS Collectors</i> gather call data from RADIUS-server via RADIUS-protocol (activate this option if you plan to use integration via RADIUS-protocol)	
	<ul style="list-style-type: none"> • Collector Type 	Which collector type should be used
	<ul style="list-style-type: none"> • Secret 	RADIUS-server password
	<ul style="list-style-type: none"> • Overwrite TZ 	Timezone selection (if you select a different timezone, system will ignore a timezone information stored in CDR file and use current value)
	<ul style="list-style-type: none"> • "Track Active Calls" Checkbox 	Enables the display of active calls in <i>Active Calls</i> section
	<ul style="list-style-type: none"> • "Skip Zero Calls" Checkbox 	Activates / deactivates zero duration calls ignoring
	<ul style="list-style-type: none"> • "Skip Released Calls" Checkbox 	Activates/deactivates released calls ignoring
SIP Server	Allows acceptance of SIP packets from current gateway. Required for SIP Redirect routing feature	
Traffic Processing	Here you can set number translation rules that will be executing for all calls processed by current gateway	

Files Downloading History

You can view files downloading history by going to the *"Downloads History"* section tab.

Settings

This section is used to manage system notify messages distribution, and specifying system time and date format. Main window is presented on screenshot:

Screenshot: Settings section main window

SYSTEM SETTINGS

Default Currency:	TST	Select which currency is the default one, it will be used for generation of routing tables and matching of profitability margin.
Domain name:	https://172.20.9.13/	Domain name field (It should always start with "https://" and should not be empty!)
Default language:	English	Choose which language will be selected by default on login screen
Timezone:	Europe/Kiev	Default system timezone, you can change timezone in statistic reports queries
Statistics processing order:	old calls first	Order of statistics processing when the queue is large
Calculator workers:	4	Number of threads processing calculator tasks (number of CPU cores / 2).
Calculator mode:	periodically run	Select calculator processing mode: periodic – runs every X minutes by Tasks Scheduler, faster processing bulk of CDRs, but causes some delay realtime – processes calls in realtime, slower processing in case of CDRs bulks, only if you really need realtime
<input checked="" type="checkbox"/> Enable clients panel		Enables client's access to control panel with rates and statistics at /clients/
<input checked="" type="checkbox"/> Enable CAPTCHA for clients		Enables graphical defence during sign-in to client's control panel
<input type="checkbox"/> Enable CAPTCHA for administrators		Enables graphical defence during sign-in to administrator's interface
Default PIN Length:	12	For Calling Cards only — default length of PIN code for generated cards

MAIL SERVER SETTINGS

Host:	localhost	Hostname or IP address of SMTP server
Port:	25 Plain	Port/Security of SMTP server
From:	billbery@localhost.ru	Specify e-mail address to send mail from, it is system address for the SMTP server, not the one that appears in From field in e-mails
Login:		login of SMTP server (if login and password fields are empty, no authentication)
Password:		Password of SMTP server

OUTPUT AND IMPORT/EXPORT

Date Format:	%d/%m/%Y	Output format for dates, you can check syntax for this field in the User Manual
Datetime Format:	%d/%m/%Y %H:%M:%S %z	Output format for datetimes, you can check syntax for this field in the User Manual
Items Per Page:	33	Default number of items per page in system interfaces.
CSV Delimiter:	,	Default delimiter used for CSV files when importing/exporting
CSV Decimal Point:	,	What will be used as decimal separation point for numbers ("," - for most cases)
Close rates marked by:	delete, block, close	When importing rate table, if some rates have notes that they are closed, system will close the appropriate destinations after importing them. This field defines what marking words should be taken as ones closing a rate. System also search for longer words, for example: close - closed, delete - deleted, etc.
Number formatting:	0	Count of destination call number digits which should be hidden
Output Encoding:	UTF-8	Encoding, that will be used during exporting data to file.

INVOICING SETTINGS

Invoice No Template:	%Y%m/%x	Format for Invoices No, you can use next replacements: %Y - current year, %m - current month, %d - current day, %C - client ID, %N - client name, %x - system incremental integer, %X - reseller incremental integer
Invoice Last No:	100347	Last Invoice No used in system for generation of invoices
Default invoice fields:	Country, Destination, Rate, Minutes, Cost	List of fields that will be selected by default during invoices generation. Same fields will be used during auto-invoicing generation.
Autoinvoicing Delay:	5 hour(s)	Time in hours from end of previous day to wait before invoicing. Required to be positive integer, otherwise system will invoice customer before the moment of full statistics process. Recommended value is around 5-6 hours.
CDR fields for invoices:	Call Date, Code Name, Code, Dst Number, Billed Time, Rate, Cost	List of fields that will be selected by default when adding CDR-list to invoice. Same fields will be used during auto-invoicing generation.

RADIUS SERVER

Bind to address:		Specify your server IP addresses (separated by comma) to bind to, empty field means bind to all addresses. empty - bind to all
Accounting port:	1813	Listen for accounting packets on specified port
Authorization port:	1812	Listen for authorization packets on specified port, same for dynamic routing if available
Number of workers:	2	Number of thread that process packets, usually should equal to number of CPU cores - 1
Max call length:	3600	Maximum call duration in seconds, for customers in postpaid mode.
Changes will be only applied after you restart RADIUS server from Task Scheduler section)		

SIP SERVER

SIP port:	<input type="text" value="5060"/>	Listen for auth packets on specified port.
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DYNAMIC ROUTING

Analyze Period:	<input type="text" value="300"/> minute(s)	What amount of last minutes of statistics will be analyzed to build a routing table.
<input type="checkbox"/> Log empty routes		Enable to get messages to Events Log about zero-routes (degrades performance)

NOTIFICATION AND MONITORING

<input checked="" type="checkbox"/> Event on not found account		Send event to events log, when client/account was not identified during processing of CDRs or RADIUS Authorization
<input checked="" type="checkbox"/> Event on not found tariff		Send event to events log, when destination/rate was not identified during processing of CDRs or RADIUS Authorization
<input type="checkbox"/> Event on zero time calls		Send events even if call has zero length
Resend low-balance events every:	<input type="text" value="24"/> hour(s)	How often to resend e-mail regarding low customer's balance
Rate changes notification period:	<input type="text" value="5"/> hour(s)	Customer will be informed regarding rates changes in given amount of hours after the actual change.
Period to notify future changes:	<input type="text" value="7"/> day(s)	Customer will be informed about rates for next X days.
Watch for free space at:	<input type="text" value="/usr/local:20;/var/lib/pgsql:30"/>	Monitor free disk space, you can specify full path where to monitor and percent of space delimited by ":". When free space will be less than specified percent of whole disk size - system will send alert.
Message Limit for Events Config:	<input type="text" value="5"/>	Sends all messages from one worker in single e-mail, if message count is larger than specified amount

AUTO-ROTATION AND CLEANING

Delete events from log after:	<input type="text" value="1"/> day(s) (from 1 to 90)	Delete events from Events Log after specified period of days.
Statistics rotate delay:	<input type="text" value="100"/> day(s) (0 - do not rotate)	Rotate statistics to archive after specified number of days.
Delete not actual rates after:	<input type="text" value="360"/> day(s) (0 - do not delete)	Delete rates from system, when they are not actual and effective date is older than specified number of days.
Delete parsed CDR-files after:	<input type="text" value="180"/> day(s) (0 - do not delete)	After what number of days already parsed and processed CDR-files should be deleted from local server.
Delete archived log-files after:	<input type="text" value="90"/> day(s) (0 - do not delete)	After what number of days archived log-files should be deleted from local server.
Delete DID's history from log after:	<input type="text" value="89"/> day(s) (from 1 to 90)	Delete DID's history from DID's history after specified period of days.

BACKUP SETTINGS

System backup period:	<input type="text" value="0"/> hour(s) (0 - do not backup)	How often to backup system, please note that actual backup will be done at the time when Backup Manager process runs.
Destination for backup packages:	<input type="text"/>	Absolute path where to put backup packages, it can not be inside root of VCS system.
Leave last X packages:	<input type="text" value="10"/>	How many last backup packages to leave.

[Update](#)

System Settings

Timezone and system's mail server parameters are specified here (Screenshot):

Screenshot: System Settings window

SYSTEM SETTINGS	
Default Currency:	TST Select which currency is the default one, it will be used for generation of routing tables and matching of profitability margin.
Domain name:	https://172.20.9.13/ Domain name field (It should always start with "https://" and should not be empty!)
Default language:	English Choose which language will be selected by default on login screen
Timezone:	Europe/Kiev Default system timezone, you can change timezone in statistic reports queries
Statistics processing order:	old calls first Order of statistics processing when the queue is large
Calculator workers:	4 Number of threads processing calculator tasks (number of CPU cores / 2).
Calculator mode:	periodically run Select calculator processing mode: periodic – runs every X minutes by Tasks Scheduler, faster processing bulk of CDRs, but causes some delay realtime – processes calls in realtime, slower processing in case of CDRs bulks, only if you really need realtime
<input checked="" type="checkbox"/> Enable clients panel	Enables client's access to control panel with rates and statistics at /clients/
<input checked="" type="checkbox"/> Enable CAPTCHA for clients	Enables graphical defence during sign-in to client's control panel
<input type="checkbox"/> Enable CAPTCHA for administrators	Enables graphical defence during sign-in to administrator's interface
Default PIN Length:	12 For Calling Cards only — default length of PIN code for generated cards

Field	Description
Default Currency	Specify currency that will be used as default for generation of routing
Domain Name	Enter relevant domain address of your VCS server. In most cases, VCS IP address should be entered here. Please note, if this name is specified incorrectly, you may experience issues with reseller logos display
Default Language	Select default language
Timezone	Select default timezone
Statistics processing order	Specify what statistics to process first (newer or older)
Calculator workers	Specify number of threads processing calculator tasks (number of CPU cores / 2)
Calculator mode	Defines the calculator workout, whether is will start periodically through Task Scheduler, or will be constantly running
"Enable client's panel" Checkbox	Switch customer's interface on/off with one click
"Enable CAPTCHA for clients" Checkbox	Enables CAPTCHA feature for customer interface
"Enable CAPTCHA for administrators" Checkbox	Enables CAPTCHA feature for administrator interface
Default PIN length	Sets the default length of PIN-code when creating calling card series

Mail Server Settings

Here you can specify mail server settings (Screenshot):

Screenshot: Mail Server Settings window

MAIL SERVER SETTINGS		
Host:	<input type="text" value="localhost"/>	Hostname or IP address of SMTP server
Port:	<input type="text" value="25"/> <input type="text" value="Plain"/>	Port/Security of SMTP server
From:	<input type="text" value="billbery@localhost.ru"/>	Specify e-mail address to send mail from, it is system address for the SMTP server, not the one that appears in From field in e-mails
Login:	<input type="text"/>	login of SMTP server (if login and password fields are empty, no authentication)
Password:	<input type="password"/>	Password of SMTP server

Field	Description
Host	Mail server address that is used by system
Port	Specify port and security type of SMTP server (Plain, TLS, SSL)
From	The e-mail address that will be specified as sender
Login	Login for SMTP server
Password	Password for SMTP server

Output and Import / Export

Here you can specify output and import / export parameters, including time and date parameters configuration (Screenshot):

Screenshot: Output and Import / Export settings window

OUTPUT AND IMPORT/EXPORT		
Date Format:	<input type="text" value="%d/%m/%Y"/>	Output format for dates, you can check syntax for this field in the User Manual
Datetime Format:	<input type="text" value="%d/%m/%Y %H:%M:%S %z"/>	Output format for datetimes, you can check syntax for this field in the User Manual
Items Per Page:	<input type="text" value="33"/>	Default number of items per page in system interfaces.
CSV Delimiter:	<input type="text" value=","/>	Default delimiter used for CSV files when importing/exporting
CSV Decimal Point:	<input type="text" value="."/>	What will be used as decimal separation point for numbers ("." - for most cases)
Close rates marked by:	<input type="text" value="delete, block, close"/>	When importing rate table, if some rates have notes that they are closed, system will close the appropriate destinations after importing them. This field defines what marking words should be taken as ones closing a rate. System also search for longer words, for example: close - closed, delete - deleted, etc.
Number formatting:	<input type="text" value="0"/>	Count of destination call number digits which should be hidden
Output Encoding:	<input type="text" value="UTF-8"/>	Encoding, that will be used during exporting data to file.

Field	Description
Date Format	Specify date parameters here
	<ul style="list-style-type: none"> • %d Day of the month in numeric form. Allowed values: from 01 to 31
	<ul style="list-style-type: none"> • %m Month number. Allowed values: from 01 to 12
Datetime Format	Specify datetime parameters here
	<ul style="list-style-type: none"> • %d Day of the month in numeric form. Allowed values: from 01 to 31
	<ul style="list-style-type: none"> • %m Month number. Allowed values: from 01 to 12
	<ul style="list-style-type: none"> • %Y Number of the year, that consists of 4 numbers. Value example: 1999, 2005, 2010
	<ul style="list-style-type: none"> • %H Hours in 24-hour format with leading zeroes. Allowed values: from 00 to 23
	<ul style="list-style-type: none"> • %M Minutes with leading zeroes. Allowed values: from 00 to 59
	<ul style="list-style-type: none"> • %S Seconds with leading zeroes. Allowed values: from 00 to 59
	<ul style="list-style-type: none"> • %z Timezone settings
Items Per Page	Set default quantity of items displayed on a single page
CSV Delimiter	Set default delimiter for CSV files

CSV Decimal Point	Set default decimal point for CSV files
Close rates marked by	When importing rate sheets system will be able to close respective rates, if <i>Rate Changes</i> column has one of the key-words entered here
Number formatting	Specify how many digits of a number should be hidden, when this function is activated for a customer
Output Encoding	Select which encoding to use when exporting a file

Invoicing Settings

Invoicing settings are grouped here (Screenshot):

Screenshot: Invoicing Settings window

INVOICING SETTINGS		
Invoice No Template:	<input type="text" value="%Y%m/%x"/>	Format for Invoices No, you can use next replacements: %Y - current year, %m - current month, %d - current day, %C - client ID, %N - client name, %x - system incremental integer, %X - reseller incremental integer
Invoice Last No:	<input type="text" value="100347"/>	Last Invoice No used in system for generation of invoices
Default invoice fields:	<input type="text" value="Country, Destination, Rate, Minutes, Cost"/>	List of fields that will be selected by default during invoices generation. Same fields will be used during auto-invoicing generation.
Autoinvoicing Delay:	<input type="text" value="5"/> hour(s)	Time in hours from end of previous day to wait before invoicing. Required to be positive integer, otherwise system will invoice customer before the moment of full statistics process. Recommended value is around 5-6 hours.
CDR fields for invoices:	<input type="text" value="Call Date, Code Name, Code, Dst Number, Billed Time, Rate, Cost"/>	List of fields that will be selected by default when adding CDR-list to invoice. Same fields will be used during auto-invoicing generation.

Field	Description
Invoice No Template	Default template for invoice number
Invoice Last No	Number of last issued invoice
Default invoice fields	You can select the displayable fields in automatically generated invoices here. This is used by autoinvoicing feature – if you don't use the autoinvoicing, you may ignore this setting
Autoinvoicing Delay	Time in hours system will wait until doing invoicing
CDR fields for invoices	Select default fields that should be in CDR list which is attached to invoices

RADIUS Server

VCS RADIUS server settings can be changed here (Screenshot):

Screenshot: RADIUS Server settings window

RADIUS SERVER		
Bind to address:	<input type="text"/> empty - bind to all	Specify your server IP addresses (separated by comma) to bind to, empty field means bind to all addresses.
Accounting port:	<input type="text" value="1813"/>	Listen for accounting packets on specified port
Authorization port:	<input type="text" value="1812"/>	Listen for authorization packets on specified port, same for dynamic routing if available
Number of workers:	<input type="text" value="2"/>	Number of thread that process packets, usually should equal to number of CPU cores - 1
Max call length:	<input type="text" value="3600"/>	Maximum call duration in seconds, for customers in postpaid mode.
Changes will be only applied after you restart RADIUS server from Task Scheduler section)		

Field	Description
Bind to address	Specify your servers IP addresses, separated by comma to bind RADIUS to
Accounting port	Specify accounting port here (default is 1813)
Authorization port	Specify authorization port here (default is 1812)
Number of workers	Number of RADIUS workers, usually is equal to number of CPU cores minus one
Max call length	Limit maximum call length in seconds

SIP Server

SIP Server settings can be changed here (Screenshot):

Screenshot: SIP Server settings window

The screenshot shows a settings window titled "SIP SERVER". It contains a single input field with the label "SIP port:" and the value "5060". To the right of the input field is a descriptive text: "Listen for auth packets on specified port."

Fields	Description
SIP Port	Specify a SIP port that system should listen to

Dynamic Routing

Dynamic routing settings can be altered here (Screenshot):

Screenshot: Dynamic Routing settings window

DYNAMIC ROUTING

Analyze Period: <input type="text" value="300"/> minute(s)	What amount of last minutes of statistics will be analyzed to build a routing table.
<input type="checkbox"/> Log empty routes	Enable to get messages to Events Log about zero-routes (degrades performance)

Field	Description
Analyze Period	An amount of minutes of last available statistics that will be used to build routing table
"Log empty routes" Checkbox	Enable to get log messages regarding zero routes

Notification and Monitoring

Notify messages distribution and other monitoring settings are configured here (Screenshot):

Screenshot: Notification and Monitoring settings window

NOTIFICATION AND MONITORING		
<input checked="" type="checkbox"/>	Event on not found account	Send event to events log, when client/account was not identified during processing of CDRs or RADIUS Authorization
<input checked="" type="checkbox"/>	Event on not found tariff	Send event to events log, when destination/rate was not identified during processing of CDRs or RADIUS Authorization
<input type="checkbox"/>	Event on zero time calls	Send events even if call has zero length
Resend low-balance events every:	<input type="text" value="24"/> hour(s)	How often to resend e-mail regarding low customer's balance
Rate changes notification period:	<input type="text" value="5"/> hour(s)	Customer will be informed regarding rates changes in given amount of hours after the actual change.
Period to notify future changes:	<input type="text" value="7"/> day(s)	Customer will be informed about rates for next X days.
Watch for free space at:	<input type="text" value="/usr/local:20;/var/lib/pgsql:30"/>	Monitor free disk space, you can specify full path where to monitor and percent of space delimited by ":". When free space will be less than specified percent of whole disk size - system will send alert.
Message Limit for Events Config:	<input type="text" value="5"/>	Sends all messages from one worker in single e-mail, if message count is larger than specified amount

Field	Description
"Event on not found account" Checkbox	Activates/deactivates notify sending when no account was found
"Event on not found tariff" Checkbox	Activates/deactivates notify sending when no rate was found
"Event on zero time calls" Checkbox	Activates/deactivates all previous checkboxes effects when calls with zero duration were found
Resend low balance events every, hour(s)	Resend low balance notification once in a specified period
Rate changes notification period, hour(s)	Specify amount of time which needs to pass after actual rate change, so notification will be sent
Period to notify future changes, day(s)	Specify number of days, for customer to beinformed about rate change in advance
Watch for free space at	Here you can specify folders that will be monitored for available disk space. To add a folder, specify its path, and by using ":" sign choose the percent of disk space, below which the system will send warning notifies For example - /usr/local/:20 means that if free disk space is below 20 percent in folder /usr/local/ the notify will be sent. You can add multiple folders in this field by delimiting them with ";" sign
Message Limit for Events Config	Specify how many same type messages shall be included into single email. If generated messages number is less than specified, each message will be sent in separate email

Auto-rotation and Cleaning

Automatic statistics and backup management parameters are configured here (Screenshot):

Screenshot: Auto-rotation and Cleaning settings window

AUTO-ROTATION AND CLEANING		
Delete events from log after:	<input type="text" value="1"/> day(s) (from 1 to 90)	Delete events from Events Log after specified period of days.
Statistics rotate delay:	<input type="text" value="100"/> day(s) (0 - do not rotate)	Rotate statistics to archive after specified number of days.
Delete not actual rates after:	<input type="text" value="360"/> day(s) (0 - do not delete)	Delete rates from system, when they are not actual and effective date is older than specified number of days.
Delete parsed CDR-files after:	<input type="text" value="180"/> day(s) (0 - do not delete)	After what number of days already parsed and processed CDR-files should be deleted from local server.
Delete archived log-files after:	<input type="text" value="90"/> day(s) (0 - do not delete)	After what number of days archived log-files should be deleted from local server.
Delete DIDs history from log after:	<input type="text" value="89"/> day(s) (from 1 to 90)	Delete DIDs history from DIDs history after specified period of days.


Field	Description
Delete events from log after	Here you can specify the number of days in which events will be removed from the log-files (when 0 is the value – events won't be deleted)
Statistics rotate delay	Statistics packages rotation delay (for example, if you will enter "3" as a value here, all statistics packages that are older than 3 months will be automatically moved to archive)
Delete not actual rates after	Cleans non-actual rates from database when specified number of days passed
Delete parsed CDR-files after	Define when system should delete old parsed CDR-files
Delete archived log-files after	Define when system should delete archived log-files
Delete DIDs history from log after	Delete DIDs history from DIDs history after specified period of days

Backup Settings

Backup settings can be set here (Screenshot):

Screenshot: Backup Settings window

BACKUP SETTINGS	
System backup period: <input type="text" value="0"/> hour(s) (0 - do not backup)	How often to backup system, please note that actual backup will be done at the time when Backup Manager process runs.
Destination for backup packages: <input type="text"/>	Absolute path where to put backup packages, it can not be inside root of VCS system.
Leave last X packages: <input type="text" value="10"/>	How many last backup packages to leave.

Field	Description
System backup period	Period of time that specifies when system should backup itself (for example, if you enter 24 as a value, this will mean that that system will backup itself every 24 hours)
Destination for backup packages	Absolute path to the folder where system backup copies will be stored <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> Warning! This folder must not be within any system folders!</div>
Leave last X packages	Parameter, that specifies how many backup copies will be stored at one given time (for example, if you will enter 3 as a value here, then only three copies will be stored. When the fourth copy is added, the oldest one will be deleted)

System

This section of our Guide contains everything that relates to the *System* tab of JeraSoft VoIP Carrier Suite. For more details please go to the related subsections:

- [Events Log](#)
- [Mail Queue](#)
- [System Status](#)
- [Task Scheduler](#)
- [Users](#)
- [Roles](#)

Events Log

On this page

- [Events Log Section Main Window](#)
- [Configuration Section Tab](#)

Events Log Section Main Window

This section displays the list of all events recorded by the system (Screenshot):

Screenshot: Events Log section main window

ID	Type	Sender	Date	Message
1615271	Message	SIP Redirect Server	10/09/2013 14:38:03 +0300	Got 0 packets / 0.00 pps for last minute
1615266	Message	Packages Manager	10/09/2013 14:38:02 +0300	no dids were found for unhold
1615265	Message	Task Scheduler	10/09/2013 14:38:01 +0300	Starting tool "packages_manager"
1615264	Message	Calculator	10/09/2013 14:37:05 +0300	no cdrs for processing
1615263	Message	Task Scheduler	10/09/2013 14:37:03 +0300	Starting tool "calculator"
1615262	Message	SIP Redirect Server	10/09/2013 14:37:03 +0300	Got 0 packets / 0.00 pps for last minute
1615261	Alert	Cache Manager	10/09/2013 14:37:03 +0300	Cache was generated in 0.0133 sec
1615260	Message	RADIUS Server	10/09/2013 14:37:03 +0300	Got 1 packets / 0.02 pps for last minute
1615259	Message	Task Scheduler	10/09/2013 14:37:02 +0300	Starting tool "cache_manager"
1615258	Message	SIP Redirect Server	10/09/2013 14:36:03 +0300	Got 0 packets / 0.00 pps for last minute
1615257	Message	Calculator	10/09/2013 14:35:15 +0300	no cdrs for processing
1615256	Message	Task Scheduler	10/09/2013 14:35:13 +0300	Starting tool "calculator"
1615251	Message	Packages Manager	10/09/2013 14:35:12 +0300	no dids were found for unhold
1615250	Message	Task Scheduler	10/09/2013 14:35:12 +0300	Starting tool "packages_manager"
1615249	Message	Task Scheduler	10/09/2013 14:35:11 +0300	Starting tool "factors_watcher"
1615248	Error	Mail Manager	10/09/2013 14:35:10 +0300	#103 / stats_watcher - "Reports Watcher / B: 2013-09-08 14:10:02 - 2013-09-10 14:10:02" to "1@1.com" - error during send

There are few types of events:

Event	Description
	Errors;
	Alerts;
	Messages..

In *Sender* row you can view the name of the system sender module (module, that sent the event).

Main window displays general list of events by default. You can filter them by types or groups by using search panel tools.

For example, system records following events:

- incoming or outgoing call client is not registered within the system;
- phone number prefix is not registered within system;
- incoming call price is more than outgoing call price;
- incoming or outgoing call was rejected;
- etc.

Warning! When you press "Delete Events" button, all events that satisfy current search query will be deleted from the system!

Configuration Section Tab

This section is used to inform system's users about all recorded events. Main window is displayed on Screenshot:

Screenshot: Configuration section tab main window

Event Type	Backup Manager	Balances Manager	Cache Manager
E-mail	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M
Select/Deselect All Errors	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M
Select/Deselect All Alerts	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M
Select/Deselect All Messages	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M	<input type="checkbox"/> E <input type="checkbox"/> A <input type="checkbox"/> M
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Mail Queue

Mail Queue section displays all system e-mails that were already sent or are waiting to be sent. Main window may look like on Screenshot:

Screenshot: Mail Queue section main window



The screenshot shows a web interface for the Mail Queue section. At the top, there is a search bar and a navigation bar with the text "Mail Queue". Below the search bar, there is a table with columns for ID, To, Subject, Type, and Created. The table contains 10 rows of data, each representing an email entry. The "To" column shows "1@1.com" for all entries. The "Subject" column shows various reports from "Reports Watcher" with timestamps. The "Type" column shows "Stats Watcher Report" for all entries. The "Created" column shows the date and time of creation. There are also some icons in the "Created" column, possibly representing status or actions.

ID	To	Subject	Type	Created
103	1@1.com	Reports Watcher / B: 2013-09-08 14:10:02 - 2013-09-10 14:10:02	Stats Watcher Report	10/09/2013 14:10:02 +0300
102	1@1.com	Reports Watcher / B: 2013-09-08 10:10:02 - 2013-09-10 10:10:02	Stats Watcher Report	10/09/2013 10:10:02 +0300
101	1@1.com	Reports Watcher / D: 2013-09-10 09:10:02 - 2013-09-10 10:10:02	Stats Watcher Report	10/09/2013 10:10:02 +0300
100	1@1.com	Reports Watcher / B: 2013-09-08 06:10:02 - 2013-09-10 06:10:02	Stats Watcher Report	10/09/2013 06:10:02 +0300
99	1@1.com	Reports Watcher / B: 2013-09-08 01:10:03 - 2013-09-10 01:10:03	Stats Watcher Report	10/09/2013 01:10:04 +0300
98	1@1.com	Reports Watcher / A: 2013-09-09 00:10:02 - 2013-09-10 00:10:02	Stats Watcher Report	10/09/2013 00:10:02 +0300
97	1@1.com	Reports Watcher / B: 2013-09-07 21:10:02 - 2013-09-09 21:10:02	Stats Watcher Report	09/09/2013 21:10:02 +0300
96	1@1.com	Reports Watcher / B: 2013-09-07 16:10:02 - 2013-09-09 16:10:02	Stats Watcher Report	09/09/2013 16:10:02 +0300
95	1@1.com	Reports Watcher / B: 2013-09-07 11:10:03 - 2013-09-09 11:10:03	Stats Watcher Report	09/09/2013 11:10:03 +0300

These can be invoices, low balance notifications or other types of messages system sends in form of e-mails.

System Status

This section displays all currently launched system services, system load info and current system database sessions (Screenshot):

Screenshot: System Status section main window

System Status
Refresh

NODE STATUS & SERVICES: STAGING-VCS.JERASOFT.NET

CPU Cores: 2
Load Average: 0.03 - 0.04 - 0
Memory Total: 1.96 GB
Services Active: 3

ID	Service	Started on	Uptime			
15086	RADIUS Server	10/09/2013 15:45:06 +0300	00:36:17			
17222	SIP Redirect Server	10/09/2013 16:20:02 +0300	00:01:21			
14692	RADIUS Server	10/09/2013 15:39:09 +0300	00:42:13			

Some processes can not be stopped via web interface, so you have to login on server via SSH to stop them.

DATABASE SESSIONS

ID	Session Start	Query Start	Duration	Query
17371	10/09/2013 16:21:23 +0300	10/09/2013 16:21:23 +0300	00:00:00	SELECT *, (now()-backend_start) AS duration FROM pg_stat_activity WHERE TRUE AND 'dbname' = 'vcs' AND 'username' = 'vcs' ORDER BY 'duration'
17228	10/09/2013 16:20:02 +0300	10/09/2013 16:20:02 +0300	00:01:20	<IDLE>
17227	10/09/2013 16:20:02 +0300	10/09/2013 16:20:02 +0300	00:01:20	<IDLE>
17224	10/09/2013 16:20:02 +0300	10/09/2013 16:21:01 +0300	00:01:20	<IDLE>
16883	10/09/2013 16:15:04 +0300	10/09/2013 16:15:04 +0300	00:06:19	<IDLE>
16882	10/09/2013 16:15:04 +0300	10/09/2013 16:15:04 +0300	00:06:19	<IDLE>
16881	10/09/2013 16:15:04 +0300	10/09/2013 16:15:04 +0300	00:06:19	<IDLE>
16877	10/09/2013 16:15:04 +0300	10/09/2013 16:15:04 +0300	00:06:19	<IDLE>
14705	10/09/2013 15:39:09 +0300	10/09/2013 15:39:09 +0300	00:42:13	<IDLE>
14704	10/09/2013 15:39:09 +0300	10/09/2013 15:39:09 +0300	00:42:13	<IDLE>
14703	10/09/2013 15:39:09 +0300	10/09/2013 15:39:09 +0300	00:42:13	<IDLE>
14699	10/09/2013 15:39:09 +0300	10/09/2013 15:39:09 +0300	00:42:13	<IDLE>
25852	05/09/2013 12:23:34 +0300	10/09/2013 14:34:08 +0300	5 days 03:57:48	<IDLE>

Node Status & Services table columns description is following:

Column	Description
ID	System service ID
Service	Name of system service
Started on	Service start date
Uptime	Service current uptime

By using button the service is started, with button it is restarted, and with button service is stopped.

Database Sessions table columns description is following:

Column	Description
ID	Database session ID
Session Start	Session start date
Query Start	Query start date
Duration	Session duration
Query	Query description

You can kill any of current sessions by pressing button.

Task Scheduler

On this page

- [Task Scheduler](#)
- [Cache Manager](#)

Task Scheduler

This section represents a task scheduler to manage system utilities (Screenshot):

Screenshot: Task Scheduler section main window

Active	Manual Run	Name	Run at	In Queue From	Last Run	
		Backup Manager	20 minute(s), 3 hour(s), every 1 day(s)	—	10/09/2013 03:20:02 +0300	
		Balances Manager	20 minute(s), 3 hour(s), every 1 day(s)	—	10/09/2013 03:20:03 +0300	
		RADIUS Server	every 10 minute(s)	—	10/09/2013 16:25:06 +0300	
		SIP Redirect Server	every 10 minute(s)	—	10/09/2013 16:20:02 +0300	
		Cache Manager	every 6 minute(s)	—	10/09/2013 16:21:03 +0300	
		Calculator	every 2 minute(s)	—	10/09/2013 16:25:11 +0300	
		Calling Cards Manager	5 minute(s), every 1 hour(s)	—	10/09/2013 16:05:03 +0300	
		Cleaner	20 minute(s), 1 hour(s), every 1 day(s)	—	10/09/2013 01:20:02 +0300	
		Dynamic Routing Manager	every 30 minute(s)	—	10/09/2013 16:25:04 +0300	
		Events Manager	every 5 minute(s)	—	10/09/2013 16:25:09 +0300	
		Factors Watcher	every 5 minute(s)	—	10/09/2013 16:26:02 +0300	
		Files Collector	every 10 minute(s)	—	10/09/2013 16:25:06 +0300	
		Files Downloader	every 5 minute(s)	—	10/09/2013 16:22:03 +0300	
		Invoicing Manager	20 minute(s), every 1 hour(s)	—	10/09/2013 16:20:04 +0300	
		Log Rotator	10 minute(s), 1 hour(s), every 1 day(s)	—	10/09/2013 01:10:02 +0300	
		Mail Manager	every 5 minute(s)	—	10/09/2013 16:25:08 +0300	
		Notifier	5 minute(s), every 1 hour(s)	—	10/09/2013 16:05:04 +0300	
		Packages Manager	every 3 minute(s)	—	10/09/2013 16:26:03 +0300	
		Rates Notificator	every 5 minute(s)	—	10/09/2013 16:22:04 +0300	
		Report Generator	every 16 minute(s)	—	10/09/2013 16:13:03 +0300	
		Statistics Manager	20 minute(s), every 1 hour(s)	—	10/09/2013 16:20:03 +0300	
		Statistics Watcher	10 minute(s), every 1 hour(s)	—	10/09/2013 16:10:02 +0300	
		XML-RPC Server	every 10 minute(s)	—	10/09/2013 16:25:04 +0300	

Utility	Description
Backup Manager	Utility that manages system backup processes
Balances Manager	Creates automatic charges
RADIUS Server	RADIUS server process
SIP Redirect Server	SIP Redirect server process
Cache Manager	Cache Manager process
Calculator	Utility that processes all data collected from CDR-files
Calling Card Manager	<i>Calling Cards</i> manager process
Cleaner	Utility that automatically cleans old messages from <i>Events Log</i> section
Dynamic Routing Manager	Utility that creates routing tables used in Dynamic Routing feature
Events Manager	Process that sends events to e-mails according to <i>Events Config</i>
Factors Watcher	Utility that controls <i>Factors Watcher</i> tool
Files Collector	Utility that controls file collectors
Files Downloader	Utility that automatically downloads cdr-files from switch host
Invoicing Manager	Utility that manages the autoinvoicing feature

Log Rotator	Utility that controls log-files
Mail Manager	Sends e-mails from mail queue (invoices, notifications etc.)
Notificator	Notifies in case of low balance or HDD space events
Packages Manager	Utility that manages your packages
Rates Notificator	Utility that notifies clients about rate changes
Report Generator	Utility that manages data generation for reports
Statistics Manager	Utility that manages statistics packages
Statistics Watcher	Utility that sends generated statistic reports by scheduled time
XML-RPC Server	XML-RPC server process

Cache Manager

Cache Manager is rather specific tool, because it continuously monitors and includes client-related changes for RADIUS and SIP Redirect (among other things). That tool is listed among others in Task Scheduler.

So, the tip regarding *Cache Manager* is following: if customer had no assigned packets, accounts, presets or translations, and you decided to add one, then RADIUS or SIP Redirect servers will notice those changes only after *Cache Manager* runs and does it's job. Please note, that this is only applicable if customer previously had absolutely no items listed above, in other words, if you add second account to customer, then that change will be effective instantly.

Users

On this page

- [Users Section Main Window](#)
- [Adding New User](#)

Users Section Main Window

This section displays system's registered users (Screenshot):

Screenshot: Users section main window




The screenshot shows a web application interface for managing users. At the top, there is a search bar and a 'New User' button. Below is a table with columns for 'Active', 'Login', 'Reseller', 'Full name', and 'Last Login'. The table contains 7 rows of user data. Each row has a green status indicator, a pencil icon for editing, and a red 'X' icon for deletion.

Active	Login	Reseller	Full name	Last Login		
	admin Administrator	all companies	Administrator	10/09/2013 17:05:14 +0300 IP: 172.20.10.86		
	ahmad Administrator	all companies	Ahmad	06/08/2013 16:32:24 +0300 IP: 41.32.150.50		
	ali Administrator	all companies	Ali	29/07/2013 11:22:53 +0300 IP: 176.45.142.190		
	Etisal Resellers	Sub-Reseller B-1		06/08/2013 16:31:47 +0300 IP: 41.32.150.50		
	mnshawe Accounting	all companies	Mostafa Menshawy	04/08/2013 14:09:38 +0300 IP: 41.32.150.50		
	mohamed.elshabrawy Resellers, Monitoring, Call Shop Operator, Call Shop Manager, Accounting	all companies	mohamed.elshabrawy	13/06/2013 15:54:44 +0300 IP: 41.32.150.50		
	sami Administrator	all companies	Sami Alhelwah	04/08/2013 13:54:09 +0300 IP: 93.189.97.145		

Adding New User

You can add new user by pressing "New User" button. Then, in pop-up window, you need to specify login, password, user's full name, e-mail, and configure his access rights (so called "roles") (Screenshot below). Also don't forget to specify a reseller that this user will represent. By doing so you will allow new user to see and manipulate only clients, rate tables and other specific data that belong to specified reseller and his agents (for example, if you create client under Reseller A, which already has Agent A under him, this user will only see clients that belong to Reseller A and Agent A etc). Press "OK" button to add new user.

Screenshot: Adding new user window

 **New User**

Login:

Password:

Disabled


Full name:

E-mail:

Reseller: ▼
if empty — no access limits

Type: ▼

Allowed IPs:

 **Tip:** Each user can have multiple roles.

Roles

On this page

- [Roles Section Main Window](#)
- [Adding New Role](#)

Roles Section Main Window

This section allows to specify access rights for different sections of the system (Screenshot):

Screenshot: Roles section main window



The screenshot shows a web interface for managing roles. At the top, there is a search bar and a "New Role" button. Below this is a table with the following columns: "Name" and "Access Permissions". The table contains six rows of roles, each with a corresponding set of access permissions represented by orange 'X' marks.

Name	Access Permissions
Accounting	XXXX
Administrator	XXXX
Call Shop Manager	XXXX
Call Shop Operator	XXXX
Monitoring	XXXX
Resellers	XXXX

Adding New Role

To add a new role, press "New Role" button.

In window that opens (Screenshot below), enter new role's name and select respective access rights for sections in *Access Permissions* table.

"Default Module" field specifies a default section, that will be displayed when you login into system.

Screenshot: Adding new role window

 **New Role**

Name:

Default Module:

ENTRIES

Name	Access Permissions
Management / Clients	<input type="checkbox"/> Full Delete <input type="checkbox"/> Read <input type="checkbox"/> Write
Management / Rate Tables	<input type="checkbox"/> Read <input type="checkbox"/> Write
Management / Invoices	<input type="checkbox"/> Read <input type="checkbox"/> Write
Management / Transactions	<input type="checkbox"/> Execute <input type="checkbox"/> Read <input type="checkbox"/> Write
Management / Balance Report	<input type="checkbox"/> Execute
Management / Resellers	<input type="checkbox"/> Full Delete <input type="checkbox"/> Read <input type="checkbox"/> Write
Retail / Calling Cards	<input type="checkbox"/> Read <input type="checkbox"/> Write
Retail / Top-up Cards	<input type="checkbox"/> Read <input type="checkbox"/> Write
Retail / Call Shops	<input type="checkbox"/> Read <input type="checkbox"/> Write
Retail / Packages	<input type="checkbox"/> Read <input type="checkbox"/> Write
Retail / DID Management	<input type="checkbox"/> Read <input type="checkbox"/> Write
Statistics / Dashboard	<input type="checkbox"/> Execute
Statistics / Summary Report	<input type="checkbox"/> Billing data <input type="checkbox"/> Execute
Statistics / Orig-Term Report	<input type="checkbox"/> Billing data <input type="checkbox"/> Execute
Statistics / Profit Report	<input type="checkbox"/> Execute
Statistics / LCR Lists	<input type="checkbox"/> Execute
Statistics / CDRs List	<input type="checkbox"/> Execute
Statistics / Mismatches Report	<input type="checkbox"/> Execute
Statistics / Calls Rerating	<input type="checkbox"/> Execute
Statistics / Reports to E-mail	<input type="checkbox"/> Read <input type="checkbox"/> Write
Statistics / Archive Management	<input type="checkbox"/> Read <input type="checkbox"/> Write
Tools / Rates Analysis	<input type="checkbox"/> Execute
Tools / Rates Generator	<input type="checkbox"/> Execute
Tools / Active Calls	<input type="checkbox"/> Execute
Tools / Factors Watcher	<input type="checkbox"/> Read <input type="checkbox"/> Write
Routing / Routing Plans	<input type="checkbox"/> Read <input type="checkbox"/> Write
Routing / Routing Analysis	<input type="checkbox"/> Execute
Routing / DR Policies	<input type="checkbox"/> Read <input type="checkbox"/> Write
Configuration / Code Decks	<input type="checkbox"/> Read <input type="checkbox"/> Write
Configuration / Currencies	<input type="checkbox"/> Read <input type="checkbox"/> Write
Configuration / Payment Accounts	<input type="checkbox"/> Read <input type="checkbox"/> Write
Configuration / Payment Terms	<input type="checkbox"/> Read <input type="checkbox"/> Write
Configuration / Payment Gateways	<input type="checkbox"/> Read <input type="checkbox"/> Write
Configuration / Time Profiles	<input type="checkbox"/> Read <input type="checkbox"/> Write
Configuration / Taxes Profiles	<input type="checkbox"/> Read <input type="checkbox"/> Write
Configuration / Groups	<input type="checkbox"/> Read <input type="checkbox"/> Write
Configuration / Invoices Templates	<input type="checkbox"/> Read <input type="checkbox"/> Write
Configuration / VoIP Gateways	<input type="checkbox"/> Read <input type="checkbox"/> Write
Configuration / Settings	<input type="checkbox"/> Read <input type="checkbox"/> Write
System / Events Log	<input type="checkbox"/> Read <input type="checkbox"/> Write
System / Mail Queue	<input type="checkbox"/> Read <input type="checkbox"/> Write
System / System Status	<input type="checkbox"/> Read <input type="checkbox"/> Write
System / Task Scheduler	<input type="checkbox"/> Read <input type="checkbox"/> Write
System / Users	<input type="checkbox"/> Read <input type="checkbox"/> Write
System / Roles	<input type="checkbox"/> Read <input type="checkbox"/> Write
System / Change Password	<input type="checkbox"/> Execute

System / Change Password	<input type="checkbox"/> Execute
System / About System	<input type="checkbox"/> Execute
System / Get Support	<input type="checkbox"/> Execute

Checkbox	Description
Read	Allows / forbids read permission
Write	Allows / forbids edit permission
Execute	Allows / forbids system services execution
Full Delete	Allows / forbids full delete permission
Billing data	Allows / forbids billing data permission



Tip: System has 3 preinstalled roles:

- **Administrator** – has all access permissions;
- **Monitoring** – has access permissions with ability to monitor them. Also doesn't have access to technical settings and some statistic info that is available to Administrator only;
- **Resellers** – has access permissions to productively work with its clients. Also doesn't have access to technical settings and some statistic info that is available to Administrator only (use this role when adding Reseller or Agent user).

Password Change and Logout

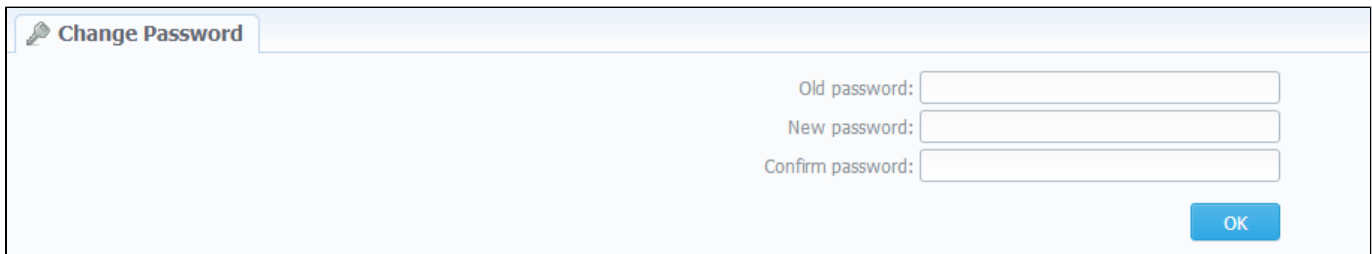
On this page

- [Changing Current Password](#)
- [Logging Out From System](#)

Changing Current Password

You can change current password by using *Change Password* menu (Screenshot):

Screenshot: *Change Password* menu



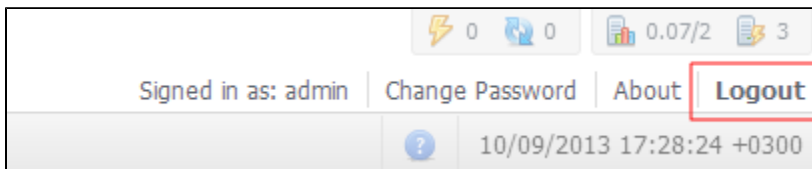
The screenshot shows a 'Change Password' dialog box. It has a title bar with a key icon and the text 'Change Password'. Below the title bar, there are three input fields: 'Old password:', 'New password:', and 'Confirm password:'. Each field is followed by a small rectangular input area. At the bottom right of the dialog box, there is a blue button labeled 'OK'.

To change a password, enter current password in *Old Password* field, and enter a new password in *New Password* and *Confirm Password* fields. When you press "OK" button, current password will change.

Logging Out From System

You can logout from system by using *Logout* menu (Screenshot):

Screenshot: *Logout* menu



The screenshot shows a user interface with a top navigation bar. On the left, it says 'Signed in as: admin'. In the center, there are three menu items: 'Change Password', 'About', and 'Logout'. The 'Logout' item is highlighted with a red rectangular box. To the right of the navigation bar, there are several status indicators: a lightning bolt icon with '0', a globe icon with '0', a bar chart icon with '0.07/2', and a document icon with '3'. Below the navigation bar, there is a footer area with a question mark icon and the text '10/09/2013 17:28:24 +0300'.

Customer's Portal

Customer's Portal is a control panel that can be used by client to check his balance and statistics.

Customer logs into his control panel by typing http://vcs_ip_address/clients in his internet browser and providing his credentials. This login and password are created in *Clients* section by editing customer's properties.

Customer's Portal consists of 2 sections:

Section	Description
Management	Allows viewing of client and balance information (<i>Client Info</i> subsection), call rates for current client (<i>Rates</i> subsection), sent invoices (<i>Invoices</i> subsection) and topping up one's balance (<i>Payment Gateways</i> subsection)
Statistics	Allows viewing of client's own statistics – summary (<i>Summary Report</i>), detailed (<i>CDRs List</i>) and accounting (<i>Balance Report</i>) reports

Password change procedure is same as for administrative interface user.

You can log out from customer's portal by using *Logout* menu.