

JeraSoft Billing 3.17

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JeraSoft is proud to announce a new major release of **3.17**. A focus of the latest version has been set primarily to rework and improve system functionality; however, a range of new features has been introduced to the system as well. The full list of changes is as follows:

Major Updates

Rate Tables

In this version, a range of improvements has been implemented in the **Rate Tables** section:

- Now, while adding a new rate for a target destination code, user can specify a **Source Code and/or Source Code Name** to make rate table customization even more agile and deliberate.

Screenshot: Src Code/Code Name

Src Code	Src Code Name	Dst Code	Dst Code Name	Rate	Effective Date	Min	Int	Extra
782	Canada	1212	United States	3.0000	2018-07-27 00:00:00+00	1	1	TP: all time
709	Canada	1209	United States	1.4000	2018-07-27 00:00:00+00	1	1	TP: all time
431	Canada	1201	United States	1.0000	2018-07-27 00:00:00+00	1	1	TP: all time

⚠ Attention

Please note that **rates with Src Codes are not used** when termination tariffs are chosen for Dynamic Routing. This functionality is going to be reworked in the upcoming releases.

- Introduction of **Src Code/Code Name** columns led to an expansion of rate table parameters, namely adding **Src Code Deck** field. Now, user can assign **Src Code Deck** and **Dst Code Deck** separately.

Screenshot: Rate Table parameters

- Additional settings that have been introduced to importing process now allow users to **set billing increment, remove dash, split source code name and update code deck**:

- Billing Increment** - billing increment defines the way events are billed and can include two parameters: *minimum volume* and *rating interval* or three parameters: *minimum volume*, *rating interval* and *grace volume*. In this field, you select from a drop-down list of predefined variants the order these parameters are recognized by the system during import.

Screenshot: Billing Increment

- Remove Dash** - if enabled, this field determines that a **dash** in codes, written as **1201-1205**, will be removed and these codes will be imported as a single **12011205** code. Otherwise, they will be imported as separate **1201, 1202, 1203, 1204, 1205** codes.
- Split Src Code Name** - this option is used only in case source code names contain **underscore** symbol. If you select **By underscore** value, **USA_Ohio** Src Code Name will be imported as **Ohio**. Otherwise, the whole name will be preserved during import.

Screenshot: Remove Dash and Split Src Code Name

- Update Code Deck** - select the way you want **both Src and Dst Code Decks** to be updated with new/existing code names from current import file.

Screenshot: Update Code Deck

STEP 2: IMPORT SETTINGS

On Duplicates: Update with latest value

On Errors: Import correct rows and show all found errors

Date Format: auto auto

Custom Format:

Optimize Codes: Disabled

Billing Increment: Min Volume / Interval

Remove Dash: Enabled

Split Src Code Name: By underscore

Update Code Deck: Import only not existing codes

Dst Code Deck: DEFAULT

Src Code Deck: Europe & USA

Notificator Code Deck:

AZ Mode: Disabled

AZ codes: *

AZ interval (days): Beginning of th 0

AZ close date: 2018-08-01 00:00:00+00:00

- Moreover, users can specify a type for each sheet of the import file.

Screenshot: Sheet type

STEP 2: IMPORT SETTINGS

Sheet 1 Sheet 2

Dst Code Name	Dst Code		Rate	Changes	
1201	United States	1	12/12/2018 00:00:00 +0000	431	
1202	United States	0,99	12/12/2018 00:00:00 +0000	250	
1203	United States	0,87	12/12/2018 00:00:00 +0000	604	☑
1205	United States	0,87	12/12/2018 00:00:00 +0000	778	☑
1206	United States	0,87	12/12/2018 00:00:00 +0000	236	☑

More rows

"Rates" sheet type

"Rates" sheet type

"Src Codes" sheet type

"Dst Codes" sheet type

A detailed information about new rate table features can be found in the respective articles of the [Rate Tables](#) section of Jerasoft User Guide.

FreeSWITCH v1.6 Integration

Starting from **v3.17.0**, VCS users can configure a CDR files and RADIUS / SIP Redirect Integration with **FreeSWITCH v1.6** platform. Previously, there was a possibility to integrate only with **FreeSWITCH v1.2** platform. More details about integration with FreeSWITCH can be found in the [Jerasoft Integration Manual](#) article.



Minor Updates

Provisioning API

As we've mentioned earlier, in **VCS v3.16.0**, a **before** type of Provisioning API handler was deprecated. With a release of a new version, it has been completely removed from the system. With a migration to a new version, all client's handlers with **before** type will be renamed to **BEFORE:<handler name>** (e.g. **BEFORE:Extra handler**) and their statuses will be changed to **disabled**. We highly advise all our customers to check if there are any **before** type handlers in their [Provisioning API](#) section. If such are present, we recommend to use staging system to test its integration prior to upgrading a production system.

Client Portal

The list of **Client Portal** changes includes the following:

- Previously, on **Payments History** page, user could view history of both payments and charges. Now, there are separate pages—**Payments History** and **Charges History**—for each type of transactions.
Screenshot: Payments History

OVERVIEW

- Dashboard
- Rates

BILLING & PAYMENTS

- Refill Balance
- Redeem Voucher
- Payments History
- Charges History
- Invoices

USAGE HISTORY

- Summary
- Detailed

ACCOUNT SETTINGS

- Profile Settings
- Change Password

Select Period: 2018-07-02 - 2018-07-31

Date	Description	Amount
07/31/2018, 03:37 PM	PayPal Refill	1.00 USD
07/31/2018, 12:59 PM	PayPal Refill	1.00 USD
07/31/2018, 12:43 PM	PayPal Refill	12.00 USD
07/31/2018, 12:26 PM	PayPal Refill	7.00 USD
07/31/2018, 12:16 PM	PayPal Refill	10.00 USD
07/31/2018, 11:48 AM	PayPal Refill	1.00 USD
07/31/2018, 11:40 AM	PayPal Refill	10.00 USD
07/31/2018, 11:30 AM	PayPal Refill	1.00 USD

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Screenshot: Charges History

OVERVIEW

- Dashboard
- Rates

BILLING & PAYMENTS

- Refill Balance
- Redeem Voucher
- Payments History
- Charges History
- Invoices

USAGE HISTORY

- Summary
- Detailed

ACCOUNT SETTINGS

- Profile Settings
- Change Password

Select Period: 2018-07-02 - 2018-07-31

Date	Description	Amount
07/30/2018, 05:14 PM	Package periodical payment: 0	-7.00 USD
07/30/2018, 05:14 PM	Package activation payment: 0	-5.00 USD
07/27/2018, 04:00 PM	Service Rendering	-225.33 USD
07/27/2018, 03:00 PM	Service Rendering	-127.73 USD

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- **customer-params.json.sample** in `/opt/jerasoft/vcs/portal-backend/config/` folder has been renamed to **customer-params.default.json**. Currently, **default values** for Client Panel are taken from **customer-params.default.json**, while customer values - from **customer-params.json**, as it was in previous versions. However, in case both files have identical keys, values from **customer-params.json** will be used.
- If **Refill Balance** page is missing in **Billing & Payments** section of your Client Panel, it is due to one of the following reasons:
 1. A role, assigned to a user, **lacks permits** to read this page;
 2. This page is **restricted** by VCS license;
 3. No payment gateway has been configured for target reseller in **Payment Gateways** section.

- Two additional columns: **Origin** and **Src number** have been added to **Usage History: Detailed** report. Moreover, the display of these columns can be configured manually in `app-params.php`, located in `/opt/jerasoft/vcs/portal-backend/config/` folder. For instance, if you wish to remove **Origin** column from the report, simply delete `'origin'` value from array for `'additionalColumns'` key. In the same way, you can remove **Src number** column or both.

Screenshot: *Origin and Src number columns*

The screenshot displays the 'USAGE HISTORY: DETAILED' report in the JERASOFT portal. The report is filtered for the period 2018-07-22 to 2018-07-31, for account 'All accounts', and service name '12345'. The table below shows the detailed usage history:

	Date	Service type	Src number	Service name	Rate	Volume	Cost
Outgoing	07/31/2018 2:32 PM	Calls	123	12345	4.00	119	7.93 USD
Outgoing	07/31/2018 2:32 PM	Calls	123	12345	4.00	118	7.87 USD
Incoming	07/31/2018 2:32 PM	Calls	123	12345	4.00	116	7.73 USD
Incoming	07/31/2018 2:32 PM	Calls	123	12345	4.00	117	7.80 USD
Outgoing	07/31/2018 2:32 PM	Calls	123	12345	4.00	116	7.73 USD

The 'Src number' column is highlighted with a red box in the original image. The interface also includes an 'Export' button and a pagination control showing page 1 of 3.

Traffic Processing

A new feature, introduced to **Traffic Processing** section, implies a possibility to choose whether **Src Party ID**, **Dst Party ID** or **both** will be used for LNP dipping. User can specify it in **LNP Direction** field in case a target database is specified in **LNP/MNP** field.

Screenshot: *LNP Direction field*

Traffic Processing

GENERAL

Type:

Src Code Deck:

Dst Code Deck:

Order:

Origin:

Notes:

Expiration Date:

MATCH

- General
- Service
- Gateway
- Tags (Any)
- Tags (All)
- Tags (Not)
- Src Party ID

ACTION

Mode:

Src Replace:

Dst Replace:

Set Service:

Tags Add:

LNP/MNP:

LNP Direction:

Number Portability

As a part of the integration with **TJA LNP database**, in addition to current **TJA (Routing Number)** collector that changes **Dst Party ID** during the LNP dip, a new **TJA (Owner)** collector has been added. Instead of changing Dst Party ID, the new collector **assigns the operator's name as a tag to the call** during the LNP dip.

Screenshot: *TJA (Owner)*

Number Portability
Gateways
Downloads History

Name	Data Source
Vera Networks	—
Broadvox	—
PCT	—
Numuri	—
TJA (RN)	—
TJA (Owner)	—

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Attention

Please note that **LNP update file format** of **TJA (Owner)** collector differs from that of **TJA (RN)**.

Gateways

Previously, while configuring Files Collector for a target gateway in **Gateways** section, you had to specify an exact path in **From Path** field. For instance, there are **/var/cdrs** folder with the latest CDR files and **/var/archive_cdrs/** folder with outdated ones. If user needs to download CDR files from both

folders, he can use ; (semicolon) to separate paths or /**/ for recursive download. New paths may have the following look: **/var/cdrs/**/bill***; **/var/archive_cdrs/bill***.

Screenshot: From Path field

The screenshot shows a configuration window titled "Gateways" with a sub-tab "GW Calls". The window is divided into several sections:

- GENERAL INFORMATION**:
 - Name: GW Calls
 - IP Address: 127.0.0.1
 - Allowed For: Reseller 1
 - Service: Calls
 - Tag: (empty)
 - Code deck: (empty)
- FILES COLLECTOR** (checked):
 - Collector Type: JeraSoft VCS Common
 - Data Source: Data Source
 - From path: /var/cdrs/**/bill*; /var/archive_cdrs/bill* (highlighted with a red box)
- RADIUS SERVER** (checked):
 - Collector Type: Aloe MVTS Pro
 - Secret: s
- SIP SERVER** (unchecked):
 - Collector Type: Default RFC

At the bottom right, there are three buttons: "OK", "Cancel", and "Apply".