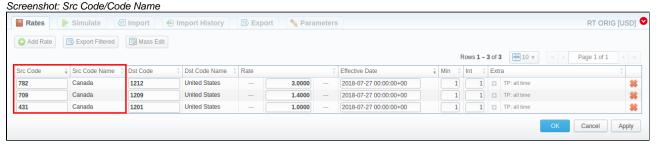# JeraSoft Billing 3.17

In this article

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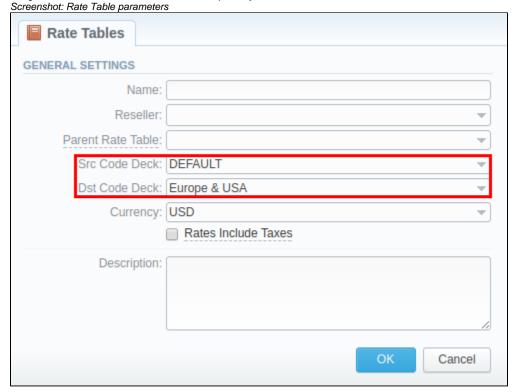
- Now, while adding a new rate for a target destination code, user can specify a **Source Code and/or Source Code Name** to make rate table customization even more agile and deliberate.
  Screenshot: Src Code/Code Name

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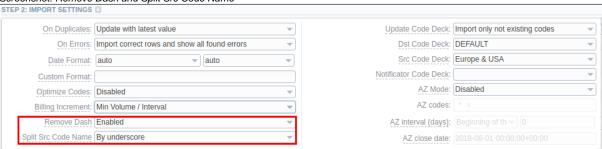
- Introduction of **Src Code/Code Name** columns led to an expansion of rate table parameters, namely adding **Src Code Deck** field. Now, user can assign **Src Code Deck** and **Dst Code Deck** separately.
  Screenshot: Rate Table parameters

- 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:**
  1. **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.
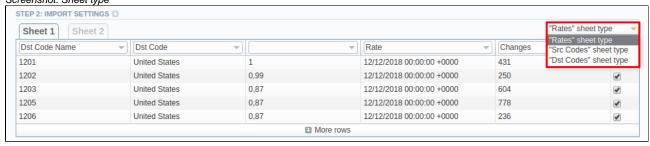   *Screenshot: Billing Increment*

  2. **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.
  3. **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

  4. **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

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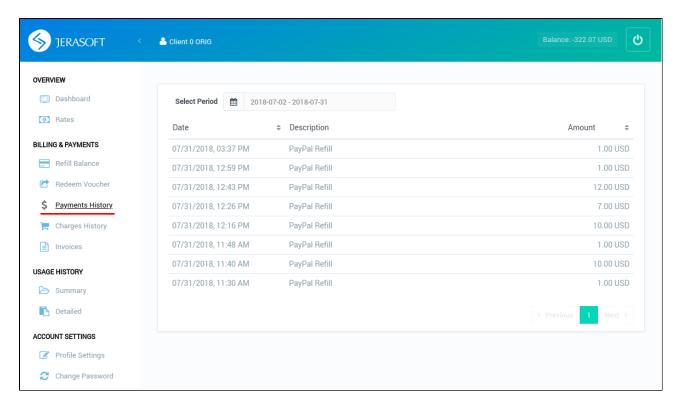

Minor Updates

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.
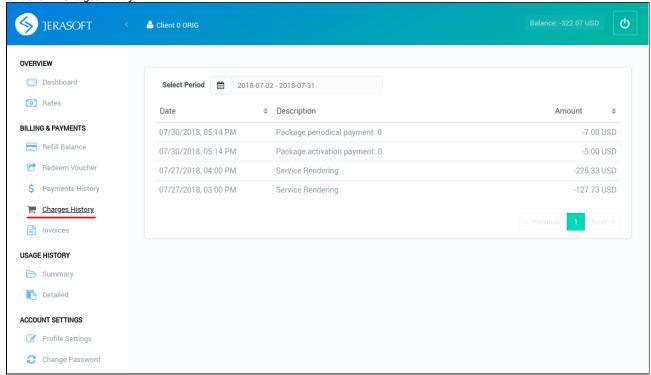
Client Portal

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.
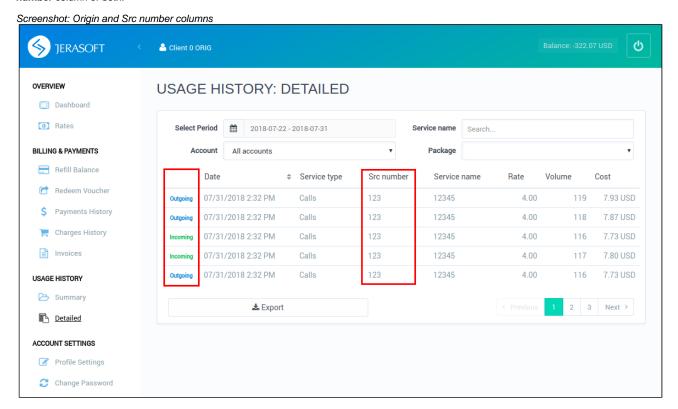 *Screenshot: Payments History*

Screenshot: Charges History

- **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.
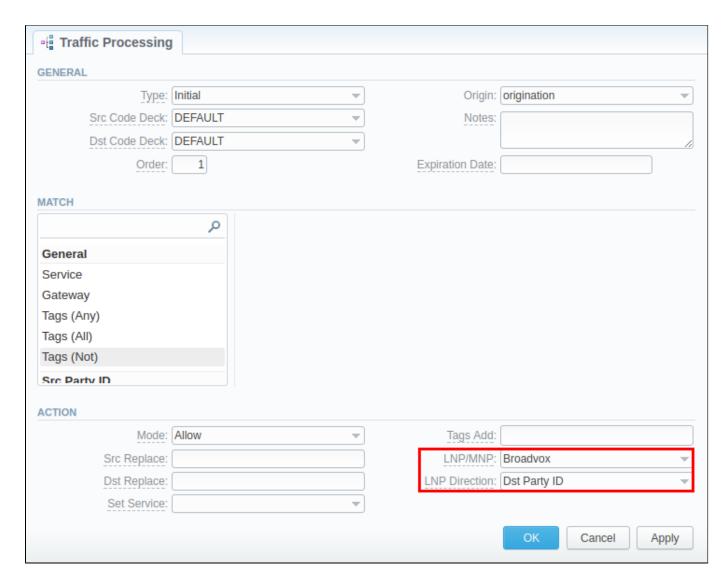
- Two additional columns: **Origin** and **Src number** have been added to **Usage History: Detailed** report. Moreover, the display of these columns can be configured manually in **app-params.php**, located in **/opt/jerasoft/vcs/portal-backend/config/** folder. For instance, if you wish to remove **Origin** 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

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

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)

> ⚠️ **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