

JeraSoft Billing 3.5

JeraSoft Development is pleased to announce the release of VCS 3.5, which brought lots of additions and improvements. This document will describe the features with biggest impact on system's functions and also provide information regarding their usage.

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General Changes

Traffic Processing

- Now gateway translation is done **AFTER** the customer identification. This change was done to avoid all possible problems in working with LNP feature.



If you were using gateway translations previously, please check, if new changes will affect your current scheme. We strongly recommend you to make sure, that these changes will not break your implementation. And in case of impact we recommend to rework your gateway translations accordingly!

- Now we have single traffic process query. This means, that now only first translation is performing for each type of translation for a single query.
- Source number translation for SIP Redirect was added. This feature will increase a flexibility of system usage.

LNP Integration

JeraSoft Development is pleased to announce one of the biggest improvements in VoIP Carrier Suite — the North American implementation of local number portability (LNP). LNP for fixed lines refers to the ability to transfer either an existing fixed-line or mobile telephone number assigned by a local exchange carrier (LEC) and reassign it to another carrier.

So now we can offer a brand new Module, that sends a queries to LNP database systems and provides LNP call routing. Particularly, now your JeraSoft VCS can be integrated with one of these providers:

- **Broadvox SIP LRN Dipping Service (BLDS).** This service allows you to gain access to LNP information over Session Initiation Protocol (SIP). BLDS is provided by multiple edge SIP servers, which could be discovered by origination proxies using DNS A or SRV records;
- **Vera Networks vDIP Service.** vDIP has an access to Carrier-Grade USA LNP Data and allows the ability to perform queries for LRN (Local Routing Number) data with high performance and reliability.

Jurisdictional Billing

From now JeraSoft VCS can offer you one more brand new feature — **Jurisdictional Billing Module**, which implementation has become a reality through VCS [LNP Integration](#).

Our 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.

Generally, our **Jurisdictional Billing Module** includes:

- Management of multiple rate tables per each jurisdiction;

- Jurisdictional routing in real-time;
- Jurisdictional billing for Online and Offline billing modes;
- Billing and routing over NPA NXX codes;
- Support of **LNP** dipping from multiple vendors or over own database.

Interface

Another big improvement of VCS 3.5 is that interface has been totally switched from JavaScript to CSS. This will reduce the load on your browser and will make the work of your VCS solution much faster.

Also, you will see, that VCS 3.5 web interface has changed completely. For example:

- Top panel has been changed;
- Building of main menu has been reworked;
- Query form has been re-positioned from the bottom to the top of the page. So changing parameters has become much easier, even if report is very long;
- Calendar has been updated;
- etc.

All these interface changes are designed to make your work with VCS 3.5 much easier and comfortable.

Presets

A "*Mass Import*" feature was added to our Presets section. This feature allows you to add new presets to already existing or to purge all existing presets and add new ones. We are sure, that "Mass Import" will definitely facilitate and speed up your working process.

Transactions

A new field "*Group Call Charges*" was added to Transactions section. This feature allows you to see payments and charges not only "Hourly" (like in previous versions), but also to switch to "Daily", "Weekly" and "Monthly" outlook.

Files Collector

Files Collector working process was changed. Now all corrupted files automatically move to Quarantine, so the system continues to work correctly.

Retail Module

DID Management

The functionality of DID Management was improved. Thus, it is possible to put DIDs to "*Hold*" status in case there is not enough money to renew the package and put them back to "*Active*" status, when package is renewed.

Packages

We have improved a packages activation. Now the packages are activating in realtime, just after assigning to the client.

Reports

- Now taxes cost are displayed in separate column in CDRs List, Summary Report and Orig-Term Report;
- In LCR Lists the possibility to order codes by amount of minutes was added;
- Now packages are ordered by name in Profit Report;
- Now PDD calculates as 'total pdd' / 'total calls count' in reports.

VoIP Gateways Integration

- Dialogic IMG Series collector was added;
- Test version of RADIUS collector for Genband was released;
- Call ID parsing for Sansay switch was improved;
- Now we have an ability to adapt switch integration through SIP server due to providing separate collectors.



If you are using SIP Redirect you must re-check that for every voip host SIP collector is specified correctly. In other case it may lead to the problems with calls routing.