

Release 3.21.0

- Major Updates
 - System Services section
 - Number Portability
 - Summary Report rework
 - Improvements in UI
 - Comparative Mode
 - Factors Watcher
 - "Summary Report" Mode
 - Backup Manager
 - Traffic Processing
 - Orig/Term Rules
 - Routing Analysis
 - Multireselling
 - Multiple SMTP servers configuration (since 3.21.3)
- Minor Updates
 - Clients' credit limit
 - Subscriptions
 - Price Override
 - Taxes Profiles rework
 - Compliance Integration
 - Taxes Profiles' Types
 - Rates
 - Import
 - Visual improvements (since 3.21.3)
 - Rate Notification
 - Routing Analysis
 - Integrations
 - VOS Integration Improvement
 - FusionPBX Integration (since 3.21.3)
 - Import History
 - Optimizations
 - System Status
 - Calculator
 - RADIUS Service
 - Routing
 - xDR List Report Links

JeraSoft presents a major release of **JeraSoft Billing 3.21** featuring quite a few significant improvements for better performance. Please find a complete revision list below.

Major Updates

System Services section

To deliver maximum clarity, the **Task Scheduler** section has undergone a complete makeover. We've changed naming to **System Services**, which are now presented as three main groups:

- **Daemons** - utilities that run permanently in the background. They are automatically started by the system when marked as "active";
- **Periodical** - utilities that are run with a defined period in minutes. The period can be up to 60 minutes;
- **Fixed** - utilities that are run at predefined timeslots.

Screenshot: System Services section

Number Portability

For simplification of integration with various ported numbers databases, we've created a **JeraSoft LNP Common** collector. Now it will be easier to set up LNP configurations with various not-out-of-the-box databases adjusting LNP files to a more generalized format. Please refer to the respective [Integration Manual](#) article for further details.

The very principle of working with a general collector is the same as with any other. You will need to load the database update files through **Data Sources**, and then dip this database through the **Traffic Processing** rules for the needed calls.

Summary Report rework

Improvements in UI

To enhance the generation efficiency, we've further improved the **Summary Report**. The new columns include:

- **Taxes Total,**
- **Additive Cost,**

as well as the new **Group by** option:

- **Dst Country.**

Screenshot: *Summary Report settings*

Comparative Mode

Comparative Mode was simplified for usage - instead of the manual definition of the period, the user now can just select one of the available modes:

Mode	Description	Example
Previous Period	This mode will take the same amount of hours before	If 2019-01-01 10:00:00 - 2019-01-01 14:59:59 selected as main period, it will be compared with 2019-01-01 05:00:00 - 2019-01-01 09:59:59
Previous Day	This mode will take the same period in the previous day	If 2019-01-02 10:00:00 - 2019-01-02 14:59:59 selected as main period, it will be compared with 2019-01-01 10:00:00 - 2019-01-01 14:59:59
Previous Week	This mode will take the same period in the previous week	If 2019-01-08 10:00:00 - 2019-01-14 14:59:59 selected as main period, it will be compared with 2019-01-01 10:00:00 - 2019-01-07 14:59:59
Previous Month	This mode will take the same period in the previous month	If 2019-01-01 10:00:00 - 2019-01-31 14:59:59 selected as main period, it will be compared with 2018-12-01 10:00:00 - 2018-12-31 14:59:59
Previous Year	This mode will take the same period in the previous year	If 2019-01-01 10:00:00 - 2019-12-31 14:59:59 selected as main period, it will be compared with 2018-01-01 10:00:00 - 2018-12-31 14:59:59



For correct work, the **Previous Day** mode needs to be used only with periods not longer than a day. Otherwise, the dates will overlap. The same goes for the **Previous Week**, **Previous Month**, and **Previous Year** modes - periods need to be no longer than a week, month, or year respectively.

Screenshot: *Comparative Mode usage example*



Attention

If you had **Report Templates** or **Chart Templates** for **Summary Report** with enabled "*Compare Mode*", you will have to re-create them using new modes.



For clients, who modified default behavior of "Usage History: Summary" section in the Client Portal only

If you have modified either `customer-params.json`, `attribute modules.reportSummary.columns` or the code directly, you will need to review the list of used columns according to their new names. Please contact our [support](#) for details and guidance.

Factors Watcher

"Summary Report" Mode

Alongside the Comparative Mode reworks in the **Summary Report**, we've adjusted the **Factors Watcher** in the "Summary Report" mode. **Period Offset** was replaced by **Compare Mode** that allows selection of the following periods:

- Previous Period
- Previous Day

- Previous Week
- Previous Month
- Previous Year

Screenshot: Factors Watcher add form



Attention

Due to the controversial implementation of *Data Time Profiles* vs *Rates Time Profiles*, we removed the **Time Profile** field from the add form. Queries that used "Time Profile" different from "all time" will be reset to regular "all time".

In the **Watch Rules** of the Factors Watcher, factors list has been renamed according to columns in Summary Report. Please check out the new list of allowed factors in the help tip:

Screenshot: Factors Watcher rules list



Attention

Queries that used **Period Offset** in the query form will have to be re-created after the upgrade procedure. If you have used any queries with comparison mode and relative factors monitoring - please write down your settings to be re-created after the update.

Backup Manager

For additional smoothness of backup procedure, the **Configuration -> Settings** section has a new setting for the **Backup Manager - Include into backup**. There are three available options:

- **Database,**
- **Application Files,**
- **Data Files.**

Screenshot: Backup Settings

New installations will have backup enabled by default to **/opt/jerasoft/backups/** directory with **Database** and **Data Files** options.



Attention

If before update your system had not had backup enabled, **please note** that:

1. You will need to make sure you have enough disk space for the backups. Please contact our [support](#) to estimate how much of the free disk space will be used for the backups.
2. If you have enough disk space (the backups will take up less than 23% of free space), the **Backup Manager** will be set to run *on Saturday at 5:30 am UTC*. The backups will be stored in the **/opt/jerasoft/backups/** directory.

Traffic Processing

Orig/Term Rules

Previously, to utilize a scenario for a specific pair of Originator and Terminator, the system needed two **Traffic Processing** rules connected through the tag. This was a fairly complex process, so we've re-thought the interface and added a new tab to the **Traffic Processing** section - **Orig/Term Rules**:

Screenshot: Orig/Term Rules tab

It's a rather simple method of creating such traffic rules, and they will be internally connected. The available parameters to work with are:

- **Orig Client / Orig Account**
- **Term Client / Term Account**
- **Expiration Date**
- **Code**
- **Code Name**
- **Code Deck**
- **Mode**
- **Notes**

The general logic of the **Orig/Term Rules** stays the same as for **Traffic Processing rules**, having an **Action** to operate with a pair of Clients/Accounts.

Routing Analysis

To make it even more convenient, we've added a special button to the **Routing Analysis** section for Orig/Term Rules creation directly from the output.

Screenshot: Routing Analysis section

Multireselling

Multiple SMTP servers configuration (since 3.21.3)

We've made SMTP configurations more comfortable for the clients who utilize *multireselling schemes*. Now, it is possible to configure the billing system to correctly deliver emails on behalf of each **Reseller** using it. The SMTP Credentials (**Data Source**) selection is available for each of the **Resellers** in UI:

Screenshot: Reseller settings

The default SMTP (localhost) can be set up within the **Data Sources** section. You will be able to select it (or any other) later in the general **Settings** for system notifications.

Screenshot: Mail Server settings

Minor Updates

Clients' credit limit

To get rid of ambiguity in the **Clients'** settings for credit limit management on the Origination side, we've replaced the **Postpaid** label with **Unlimited**. The logic stays the same - if enabled, the respective Client has unlimited credit, if disabled - you can define a limitation for the origination side.

Screenshot: Client's Settings

Subscriptions

Price Override

For much more flexible **Subscription** discounts management, we've added the ability to override the **Package** fees while assigning it to a **Client/Account** or **Reseller**. In the newest version, you are able to set custom fees that will overwrite the ones defined in the general **Package**. Please note that the **Discounts** from a **Package** will not be used if **Override Package Fees** is enabled while assigning:

Screenshot: Subscriptions assign form

Taxes Profiles rework

Compliance Integration

Starting from v3.21.0, we're introducing the integration with another third-party tax calculation service - **Compliance**. You can set up this Taxes Profile in the respective section:

Screenshot: Taxes Profiles list

Now both of the out-of-the-box integrated third-parties - **SureTax** and **Compliance** - can be set up there.



Please note that, in **Invoices Templates**, the name of the table that displays the values of taxes received from external services was changed from `suretax_items` to `custom_taxes`.

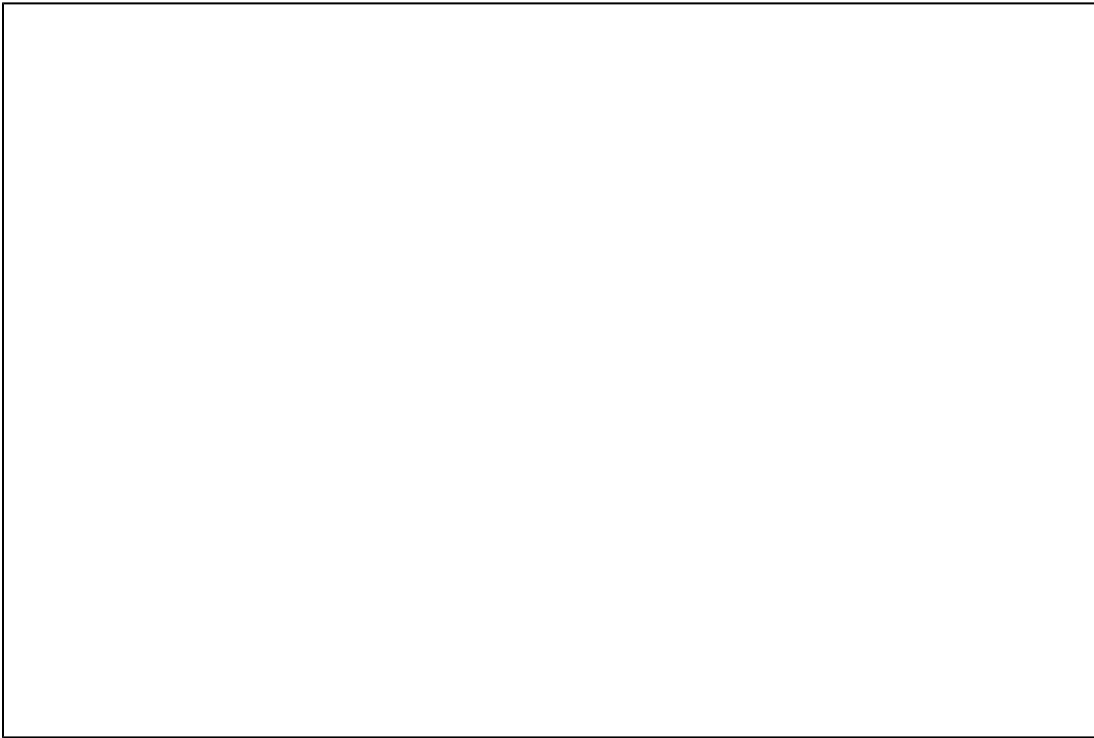
Taxes Profiles' Types

To manage all your taxes in one place, we've broadened our **Taxes Profiles** section by introducing a taxes profile **type**. There are three available types now:

- **Customer** (for our usual Taxes Profiles);
- **SureTax**
- **Compliance**

For **SureTax** and **Compliance** types of profiles, you can specify custom options in Taxes Profile create/edit form:

Screenshot: Taxes Profiles creation example - SureTax



Attention

Please note that you cannot add Tax Values to **SureTax** and **Compliance** profiles as they will be pulled automatically from the respective services to the **Invoices**.

Rates

Import

For extra convenience, we've enabled the automatic unzipping of archived **Rate** files during the import process. This functionality is available both for Manual and Automatic Import, in case your vendors send you archived files via email.

Visual improvements (since 3.21.3)

The changes in the visual representation of the Rates section include:

- rates' **Policy** has been reworked to icons (A for **additive**, R for **regular**);
- **End Date** and **Tag** columns have been added to the line, while the **Src Code Name** was removed.

Screenshot: Rates section

Rate Notification

To ensure compatibility with all types of business cases for notifications, we've added the option of **All rates (not repeated codes)** in the Client's settings. This option lets you send out multiple files to the customer in case there are two or more new rates with different effective dates for the same code. Each file will contain a full list of rates and only one unique rate for this code.

Screenshot: Rate Notification options



In Rates Notifications, the dates are displayed in the timezone of a Client, to which the said notification is sent.

Routing Analysis

We've extended the **Appeal** column specification for **Static Routes**. Previously, only for the Dynamic Routes, you could see reference information. Now it's available for both types of routing rules. To see additional **Appeal** details for static routes, hover your mouse over the N/A value.

Screenshot: Static Routes Appeal factors

Integrations

VOS Integration Improvement

The integration with VOS has been improved in terms of the identification of unique calls and duplicates. Due to VOS behavior, where multiple separate switches can generate duplicating identifications for the calls, we had to extend the procedure for uniqueness check and added *equipment_id* to the signature.

FusionPBX Integration (since 3.21.3)

We're introducing the integration with a Multi-tenant PBX service - **FusionPBX**. You can check out how to configure it for xDR files and SIP Redirect interoperability in the respective section of our [Integration Manual](#).

Import History

Starting from the newest version, you can access the **Import History** tab of a **Rate Table** faster. For this, click the respective button in the Rate Tables list.

Screenshot: Rate Tables list

Optimizations

System Status

The System Status section now shows services that are active not only on a master node but on the slave nodes too.

Calculator

In the previous versions, in case the majority of traffic was generated by a small number of Clients/Vendors, it could've slowed down **Calculator** performance. Now, for this scenario, we've sped up the **Calculator** service for such data distribution variations.

RADIUS Service

The feature of packets forwarding to 3rd party systems has been completely removed. If you would need such behavior, it is advised to use system Linux tools for this.

Routing

We've sped up the routing request execution process.

xDR List Report Links

To prevent long xDR List report links from becoming broken due to mail servers cutting them off, we've shortened them. The difference between these links and all other reports is when the user accesses a URL like this later, they will access new results each time. That is, we just store parameters of the xDR List query, not results.