

Import

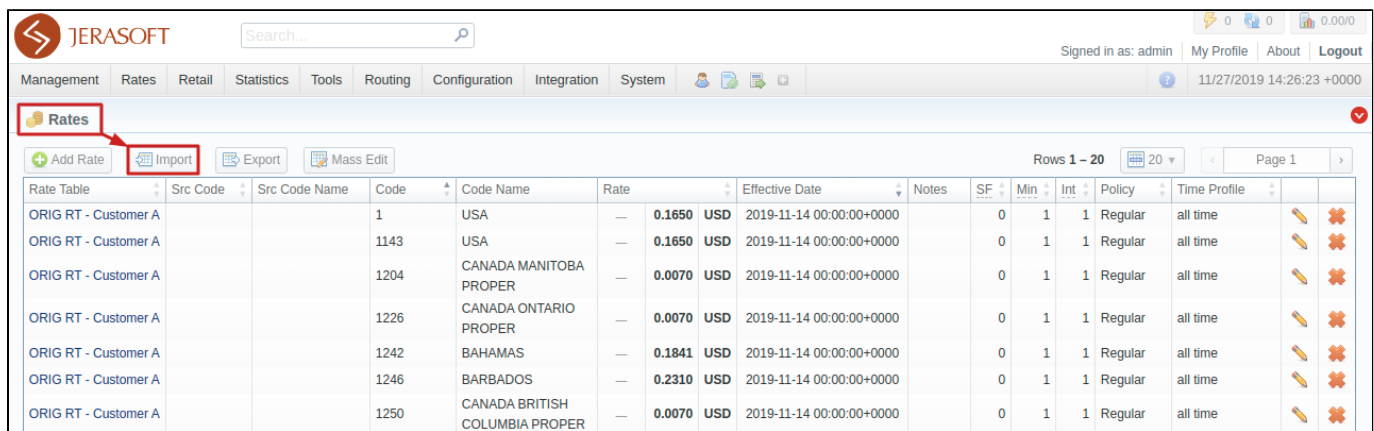
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Import Tab

The tab is designed to provide a user with a possibility to import rates to JeraSoft Billing by uploading a **.csv** or **.xls** file. The whole process can be divided into several steps discussed below. You can access the rates import by clicking the **Import** button in the Rates section:

Screenshot: *Import button*



Rate Table	Src Code	Src Code Name	Code	Code Name	Rate	Effective Date	Notes	SF	Min	Int	Policy	Time Profile
ORIG RT - Customer A			1	USA	0.1650 USD	2019-11-14 00:00:00+0000		0	1	1	Regular	all time
ORIG RT - Customer A			1143	USA	0.1650 USD	2019-11-14 00:00:00+0000		0	1	1	Regular	all time
ORIG RT - Customer A			1204	CANADA MANITOBA PROPER	0.0070 USD	2019-11-14 00:00:00+0000		0	1	1	Regular	all time
ORIG RT - Customer A			1226	CANADA ONTARIO PROPER	0.0070 USD	2019-11-14 00:00:00+0000		0	1	1	Regular	all time
ORIG RT - Customer A			1242	BAHAMAS	0.1841 USD	2019-11-14 00:00:00+0000		0	1	1	Regular	all time
ORIG RT - Customer A			1246	BARBADOS	0.2310 USD	2019-11-14 00:00:00+0000		0	1	1	Regular	all time
ORIG RT - Customer A			1250	CANADA BRITISH COLUMBIA PROPER	0.0070 USD	2019-11-14 00:00:00+0000		0	1	1	Regular	all time



Note

The button will only be active when you filter the rates by the rate table.

Step 1. Selecting a File and Specifying Additional Parameters

The first thing you need to do in the import configurations view is to select a rate table (the import template will autocomplete if existent). Then, drag-and-drop or upload an import file. Additionally, you can specify the following parameters:

Screenshot: *Step 1. File Settings*



Import

STEP 1: FILE SETTINGS

Rate Table: **RT 0 ORIG**

Import Template:

Selected File: File not selected
Choose a file or drag it here

STEP 2: IMPORT SETTINGS

Import

Field	Description
Rate Table	This field will be autocompleted with the name of a rate table if the rates are filtered in the Rates section. If not applicable, select a target rate table
Import Template	Select a target template for rates importing if available

Warning

1. It's not possible to import a file into the **Rate Table** with the **Min Time and Interval = 0**. These fields must have at least 1 second.
2. While specifying the **Effective Date** and **End Date**, keep in mind that **Timezone** is **UTC (+0000)** by default.
3. Please **DO NOT** import duplicates of the same **Code** in one import file.

Step 2. Import Settings

The system will recognize the file and display the first and last 5 rows of the first sheet. You will need to select the start and end lines of an import table (marked green). The middle lines are skipped, you can unfold them both ways by five lines by clicking the respective buttons. To switch from one sheet with rates to another, click on a respective tab: i.e., **Sheet 1**, **Sheet 2**, etc.

Screenshot: Step 2. Import Settings

STEP 1: FILE SETTINGS

Rate Table:

Import Template:

Selected File: **import.csv**
Choose a file or drag it here

STEP 2: IMPORT SETTINGS

"Rates" sheet type

Code	Code Name	Rate	Effective Date
Dst Code	Dst Code Name	Rate	Effective Date
1	USA	0.15	07/12/2019 00:00:00 ...
1143	USA	0.1	05/18/2019 00:00:00 ...
1143	USA	0.07	05/18/2019 00:00:00 ...
1143	USA	0.09	05/18/2019 00:00:00 ...
+5 ↑ 741 rows skipped +5 ↓			
995	GEORGIA	0.0297	07/12/2019 00:00:00 ...
9952	GEORGIA	0.0342	07/12/2019 00:00:00 ...
996	KYRGYZSTAN	0.0066	07/12/2019 00:00:00 ...
998	UZBEKISTAN	0.0066	07/12/2019 00:00:00 ...
9989	UZBEKISTAN MOBILE	0.0561	07/12/2019 00:00:00 ...

CODE RULES

Code	Status	Effective Date	Time Profile	Min	Int	Extra
*	Active	In days from the midnight	all time	1	1	regular

Starting from **VCS 3.17.0**, the user has a possibility to specify a type for each sheet of an imported file. Each sheet type has its own list of columns. Currently, there are 3 sheet types:

- **Rates** type - an equivalent to an importing page from earlier versions. While importing, **at least 1 sheet must be of Rates type**. For this type, the following columns are mandatory:
 1. **Dst Code/Code Name** - indicate at least one of them
 2. **Rate**
 3. **Effective Date** - if you don't indicate this column, the Effective Date, specified in the Code Rules information block, will be applied to imported rates.
- **Src Codes** type - this type allows a user to perform the import to the code deck attached to the rate table. For this, indicate source codes/code names in the two columns: **Src Code** and **Src Code Name**. If selected, both columns must be specified.
- **Codes** type - this type allows a user to perform the import to the code deck attached to the rate table. For this, indicate destination codes/code names in the two columns: **Code** and **Code Name**. If selected, both columns must be specified.

Warning

- **Codes** and **Src Codes** sheet types require the **Import all codes (update existing)** mode of **Update Code Deck** from **Advanced Settings**.

Starting from **JeraSoft Billing v3.18.0**, the user has an option to select the **Skip this sheet** option for the system to ignore the respective sheet during import. More about sheet types configuration [here](#).

Screenshot: Sheet types

Import

STEP 1: FILE SETTINGS

Rate Table:
Import Template:

✓

Selected File: import.csv

Choose a file or drag it here

STEP 2: IMPORT SETTINGS

"Rates" sheet type

Skip this sheet

"Rates" sheet type

"Src Codes" sheet type

"Codes" sheet type

Code Name

Dst Code Name

Rate

Effective Date

1143

USA

0.15

07/12/2019 00:00:00 ...

1143

USA

0.1

05/18/2019 00:00:00 ...

1143

USA

0.07

05/18/2019 00:00:00 ...

1143

USA

0.09

05/18/2019 00:00:00 ...

import.csv

On the second step, you can also save the importing rate table as a template for further usage during import. To do so, specify a template title in the bottom left corner of the tab, and click the **Save Template** button (see screenshot above).

To open advanced configurations, click on a grey downwards arrow  icon next to **Step 2: Import Settings**. Advanced settings contain the following fields:

Screenshot: Advanced settings

STEP 2: IMPORT SETTINGS

GENERAL SETTINGS

If Unchanged:
On Warnings:
On Errors:
Datetime Format:
Billing Increment:
Skip dash in codes:
Split Src Code Name:
Notificator Code Deck:

Update Code Deck:
Code Deck:
Src Code Deck:
AZ Mode:
AZ codes:
AZ interval: days from last midnight
AZ close date: 2019-11-26 22:00:00

ANALYSIS SETTINGS

Billing Increments Check:
Agreements Tolerance: day(s)
Deviation Tolerance: %
Changes Threshold: rate(s)

Field	Description
If Unchanged	Determines system behavior if it detects rates in the imported file with all the same settings as the ones already present in the Rate Table but Effective Date. Has two options: • Save rows • Skip rows
On Warnings	Manages alerts from the Analysis Settings section. If any, you'll have the option to: • Save rows • Skip rows • Abort import
On Errors	Determines billing behavior if inconsistency or error was found in the importing file (data inconsistency, incorrect symbols, etc.) • Import correct rows and show all found errors - import error-free rows and display the list of errors, if any • If errors are found, abort import and show all errors - if any error is found, stop the import and display a list of errors

Datetime Format	Specify the date format of an imported file. Please note, the auto-detection of date and time can be performed with files that contain one of the date and time formats, listed below: • DD-MM-YYYY (%d-%m-%Y) = 28-12-2018 • YYYY-MM-DD (%Y-%m-%d) = 2018-12-28 • MM/DD/YYYY (%m/%d/%Y) = 12/28/2018 • DD.MM.YYYY (%d.%m.%Y) = 28.12.2018 • YYYY/MM/DD (%Y/%m/%d) = 2018/12/28 • YYYYMMDD (%Y%m%d) = 20181228 • YYYY-MM (%Y-%m) = 2018-12
Billing Increment	Billing Increment defines the way events are billed and combines two parameters: minimum volume and tariffication interval or three parameters: minimum volume, tariffication interval and grace volume. Indicate the order of parameters recognition in the Billing Increment column: • Min Volume/Interval • Interval/Min Volume • Min Volume/Interval/Grace Volume • Interval/Min Volume/Grace Volume For example, if the Billing Increment column in your import file is 1, 5, and you selected Min Volume/Interval value in this field, the system will recognize 1 as Minimum Volume and 5 as a Tariffication Interval for a target rate.
Skip dash in codes	Select whether a dash in codes must be skipped or not: • Enabled - codes, written as 1201-1205, will be imported as a single 12011205 code • Disabled - 1201-1205 codes 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 an underscore symbol. Choose one of the following: • Disabled - if an Src Code Name is, for instance, USA_Columbia, it will be preserved as it is after import. • By underscore - if selected, a USA_Columbia Code Name will be changed to Columbia after import.
Notificator Code Deck	Specify code decks that will be used for the next rates notification
Update Code Deck	Select the way you want both Src and Dst code decks to be updated with new/existing code names from current rates file: • Disabled - leave selected code decks unchanged • Import only not existing codes - code decks will be updated with codes and their names if they are missing • Import all codes (update existing) - code decks and codes will be updated with code names taken from a file, overwriting of existing ones • Import all codes (purge code deck first) - code decks are fully cleared and then all codes and code names are imported from a file  Attention If Src Code and/or Dst Code sheet type is selected, you need to enable this feature
Code Deck	Dst Code Deck that will be used for an Update Code Deck option. Select a destination code deck that you want to update with the above-mentioned settings (note that code deck specified settings here will only be available if you are importing a file, which contains Code Names in addition to Codes).
Src Code Deck	Src Code Deck that will be used for an Update Code Deck option. Select a source code deck that you want to update with the above-mentioned settings (note that code deck specified settings here will only be available if you are importing a file, which contains Code Names in addition to Codes).
AZ Mode	A special mode that determines system behavior regarding active/future rates: • Disabled - leave active/future rates unchanged. Selected by default. • Simple mode - active rates from a current Rate Table will be closed on the specified AZ close date if they aren't present in this import. • Extended mode - all existing future rates will be marked as stashed. Currently, active rates (not presented in this import) will be closed by the date specified below.
AZ codes	Available if AZ Mode is active . Specify the exact code(s) AZ Mode is going to be applied to. By default, the field value is "" (all codes)

AZ interval	Available if AZ Mode is active. Specify the period for AZ mode to close rates. The selectable options are: • days from last midnight - the rates will be closed after the specified amount of days from the midnight of the import day • days from now - the rates will be closed after the specified amount of days from the import day • hours from XX:00 - the rates will be closed after the specified amount of hours from the start of an hour of the import timestamp • hours from now - the rates will be closed after the specified amount of hours from the import timestamp  Tip For a detailed explanation, check out our Knowledge Base article
AZ close date	Available if AZ Mode is active . The field displays the time and date (with timezone) of rates closure based on the AZ interval parameters.
Billing Increments Check	Select whether you need billing increments checking during import or not: • Enabled - the system will raise an error in case imported rates' billing increments differ from those already present in the Rate Table. • Disabled
Deviation Tolerance, (%)	Define the value of how much can an imported rate differ from an existing one in percent. If exceeded, the system will generate an alert for the manager.
Agreements Tolerance, (days)	Define a number of days that the system will take into account while analyzing the new import and the current agreement with the vendor. If the dates of an agreement and the import are closer then the specified amount, the system will generate an alert for the manager.
Changes Threshold, (rates)	Define a number of changed rates that will serve as a threshold for the selected rate table. If exceeded, the system will generate an alert for the manager.

Attention

If you have rates with missing **Rate** value in the importing file, the system will find the previous rate for the same destination and take this value from there (if the previous rate was not closed).

When you have rates with missing **Effective Date** value, the system will take it from the **End Date** value.

Code Rules Information Block

For adding a new code rule, click on the plus  icon next to the information block name.

When you add a rule and set the value in the fields, it will overwrite the parameters specified in the respective columns of the file. If you leave fields empty, it will take the parameters from the file.

There is one default rule with *** code** that affects all the imported codes. The not specified columns of the imported rates will be filled in with the respective field values of this code rule. The list of code rules fields is as follows:

Screenshot: Rates import - Code Rules settings

CODE RULES 

Code	Status	Effective Date	Time Profile	Min	Int	Extra	
*	Active	in 1 days from the midnight	all time	1	1	regular	

Field	Description
Code	Indicate a destination code. For all codes, use * (asterisk)
Status	Indicate a status for the rates. By default, it will be Active . Set the Stashed status if you want to double-check them later after import.
Effective Date	Specify a start date of a rate. There are various options to schedule this date: • days from last midnight - the rates will be active after the specified amount of days from the midnight of the import day • days from now - the rates will be active after the specified amount of days from the import day • hours from XX:00 - the rates will be active after the specified amount of hours from the start of an hour of the import timestamp • hours from now - the rates will be active after the specified amount of hours from the import timestamp
Time Profile	Indicate time profile that will be used for a current rate, for example, business time , non-business time , weekends , etc.

Min	Minimal time of the call that will be tariffed. For example, if the total call time was 20 seconds and Min is 30 , the client will pay for 30 seconds of the call.
Int	Tariffication interval. This parameter is used, when Min Time time expires.
Extra	Additional parameters are stored under the downwards arrow  icon. • Tag - specify a tag for respective rates. If it's not applicable, assign a (@) tag as default. • Service - specify a service of the rates. • Grace Volume - a volume that will not be tariffed (i.e., it's free). • Policy - rate's type for a code: regular rate or additive (extra) rate. • Setup Fee - an initial fee that is charged. • Number Length - specify the min and max number length. • End Date - the final date after which the rate will expire. • Notes - additional information.

After specifying all additional parameters, click the **Import** button.

Step 3. Import Errors

Provided a non-critical error(s) occurred, you will see a table, where the exact sheet, line and error description are specified (see screenshot). In this case, you need to start the whole import procedure from the beginning.

Screenshot: Step 3. Import Errors

STEP 3: IMPORT ERRORS		
RT ORIG - Rose		
Sheet	Line	Errors
1	4	Can not parse effective date

In case numerous errors occurred while **importing** rates, you will be displayed the respective notification:

Screenshot: Error notification



Too many errors. Please download file to see detailed data.

Download file

By clicking on **Download file**, a .csv file with the following columns will be downloaded:

Column	Description
Sheet	Index number of the sheet, where an error occurred
Line	Line of the sheet, where an error occurred
Errors	Description of the error that occurred

Screenshot: .csv file with detailed error data

	A	B	C	D
1	Sheet	Line	Errors	
2	1	1	Incorrect rate specified	
3	1	2	Incorrect rate specified	
4	1	3	Incorrect rate specified	
5	1	4	Incorrect rate specified	
6	1	5	Incorrect rate specified	
7	1	6	Incorrect rate specified	
8	1	7	Incorrect rate specified	
9	1	8	Incorrect rate specified	
10	1	9	Incorrect rate specified	
11	1	10	Incorrect rate specified	

When the procedure has been executed, you will be forwarded to the **Rates** section where all imported rates will be displayed. If the **Auto-Confirm** option was disabled during the import process, you need to **Mass Edit** the rates' status from **stashed** to **active**.

Rates

+ Add Rate
Import
Export
Mass Edit

Rows 1 - 20

20

Page 1

Rate Table	Src Code	Src Code	Status:	set to	Active	Effective Date	Notes	SF	Min	Int	Policy	Time Profile		
test_			Rate:	preserve	absolute	USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_			Setup Fee:	preserve	absolute	USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_			Tag:	preserve		USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_			Min Volume:	preserve		USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_			Interval:	preserve		USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_			Grace Volume:	preserve		USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_			Effective Date:	preserve		USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_			End Date:	preserve		USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_			Time Profile:	preserve	all time	USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_			Notes:	preserve		USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_			Number Length Min:	preserve		USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_			Number Length Max:	preserve		USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_						USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		
test_						USD	2019-02-26 00:00:00+0000	0	1	1	Regular	all time		

The tab contains information about all executed imports to this rate table. You can access it in the **Rate Tables {Specific Rate Table} Import History**. It is presented in the form of a table with the following columns:

Parameters										Simulate										Import History										ORIG RT - Customer B [USD]									
										Rows 1 – 5 of 5										20										Page 1 of 1									
Date	Details										Total	New	Increased	Decreased	Unchanged	A-Z Closed	A-Z Stashed	Status																					
2021-09-16 15:38:23 +0000	User Login: admin File:  rates-ORIG_RT_-_Customer_B-2021-09-16_122150.csv										6	0	3	3	0	0	0	Success																					
2021-09-15 15:34:07 +0000	Rates Generation: #10										19998	0	4	0	0	0	0	Success																					

Column	Description
Date	Time and date of import execution
User Login	Login of a user who executed the import
File	Import file. By clicking on the  icon, the file will be downloaded
Total	Total amount of imported rows
New	Total amount of rates with New type
Increased	Total amount of rates with Increased type
Decreased	Total amount of rates with Decreased type
Unchanged	Total amount of rates with Unchanged type
A-Z Closed	Number of rates, closed by A-Z import
A-Z Stashed	Number of rates, stashed by A-Z import
Status	Status of import procedure (<i>success/failed</i>)

 icon	When clicked on, deletes respective import data from the system  Note Only the latest Import can be undone.
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The imported rates are divided into the following types: **Unchanged**, **Increased**, **Decreased**, **New**. By clicking on the respective numbers of rates, you can see filtered rates by type (see screenshot above) in the **Rates** section.

 Attention

Imported rates will be marked as **Unchanged**, **Increased**, or **Decreased** only if their **Effective Date** value (e.g., **04.25.2018**) is higher than **Effective Date** of a current rate (e.g., **04.10.2018**) and they don't have an **End Date** value. If the **End Date** value is present in a previous rate, the fresh one will be marked as **New**.