

Rates Generator

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Section overview

Rates Generator is a tool aimed at making rates management more flexible and versatile by allowing setting up specific rules that will be applied to codes and rate tables in general. Additionally, it allows both generating a new rate table for vendors or updating new ones. The section is presented in a form of a table with the following columns:

Screenshot: Rates Generator form



Rates Generator

+ New Rates Generator

Rows 1 – 1 of 1

20

Page 1 of 1

ID	Name	Company	Description		
1	New Generator	Reseller 1			

About

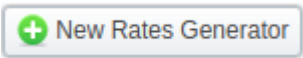


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0.3515s

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Column	Description
ID	Identification number of a rates generator
Name	Name of a rates generator
Reseller	Name of a reseller, whom a rates generator belongs to
Description	Additional information about a rates generator

Functional buttons/icons, presented in the section, are as follows:

Button/Icon	Description
	Allows creating a new rates generator
	Allows downloading a rate table with rates generator rules in .csv or .xls formats
	Allows deleting a rates generator from the system

Creating a New Rates Generator

To create a new rates generator, you need to click the New Rates Generator button and a pop-up creation form will appear. It consists of **general** and **additional** settings. The list of general settings includes the following fields:

Screenshot: General settings

	<div>Example</div> <div>For instance, if the USA code name consists of 3 codes with 1, 5, and 6 USD rates, respectively, depending on a chosen option, the results will be:</div> <table><tr><th>Code</th><th>Source Rate</th><th></th><th>Result Rate for <i>min</i></th><th>Result Rate for <i>max</i></th><th>Result Rate for <i>avg</i></th></tr><tr><td>1201</td><td>1</td><td rowspan="3">»</td><td>1</td><td>6</td><td>4</td></tr><tr><td>1202</td><td>5</td><td>1</td><td>6</td><td>4</td></tr><tr><td>1203</td><td>6</td><td>1</td><td>6</td><td>4</td></tr></table>	Code	Source Rate		Result Rate for <i>min</i>	Result Rate for <i>max</i>	Result Rate for <i>avg</i>	1201	1	»	1	6	4	1202	5	1	6	4	1203	6	1	6	4								
Code	Source Rate		Result Rate for <i>min</i>	Result Rate for <i>max</i>	Result Rate for <i>avg</i>																										
1201	1	»	1	6	4																										
1202	5		1	6	4																										
1203	6		1	6	4																										
Vertical Optimization	<div>This option allows replacing the longer codes by the shorter ones within a Code Name.</div> <div><div>Target < Parent</div><div>If a current rate is less of an entered percent, then it will be optimized. The longest codes will be merged to the shorter codes within the same code name.</div></div> <div><div>Target > Parent</div><div>If a current rate price is above an entered percent, then it will be optimized. The longest codes will be merged to the shorter codes within the same code name.</div></div> <div><div>Example</div><div>For instance, you have the USA code name that consists of 5 following codes: 120, 1201, 1202, 120345, 120456 with 1, 1.05, 0.98, 1.5, 0.6 USD rates, respectively.</div><div>Then, you need to specify the Target < Parent and Target > Parent fields: let's say 10% for each field. The Parent code is the shortest sub-code within a Code Name (e.g., 120 is a sub-code for 1202, 1203, 1205 but not for 121, 1222, etc.). Thus, the boundaries for vertical optimization are 0.9 USD and 1.1 USD with parent's code rate of 1 USD. As a result, 1201 and 1202 codes will be merged into 120 code since they are located within the specified interval. On the other hand, 120345 and 120456 codes will remain unchanged.The resulting rate table with vertical optimization will have the following look:</div><table><tr><th>Source Code</th><th>Source Rate</th><th>Target < Parent</th><th>Target > Parent</th><th></th><th>Result Code</th><th>Result Rate</th></tr><tr><td>120</td><td>1</td><td rowspan="5">10% (0.9)</td><td rowspan="5">10% (1.1)</td><td rowspan="5">»</td><td>120</td><td>1</td></tr><tr><td>1201</td><td>1.05</td><td></td><td></td></tr><tr><td>1202</td><td>0.98</td><td></td><td></td></tr><tr><td>120345</td><td>1.5</td><td>120345</td><td>1.5</td></tr><tr><td>120456</td><td>0.6</td><td>120456</td><td>0.6</td></tr></table></div>	Source Code	Source Rate	Target < Parent	Target > Parent		Result Code	Result Rate	120	1	10% (0.9)	10% (1.1)	»	120	1	1201	1.05			1202	0.98			120345	1.5	120345	1.5	120456	0.6	120456	0.6
Source Code	Source Rate	Target < Parent	Target > Parent		Result Code	Result Rate																									
120	1	10% (0.9)	10% (1.1)	»	120	1																									
1201	1.05																														
1202	0.98																														
120345	1.5				120345	1.5																									
120456	0.6				120456	0.6																									
Horizontal Optimization	<div>This option allows applying the same rate to codes of the same lengths within a Code Name.</div> <div><div>Target < Parent</div><div>If a current rate price is less of an entered percent, then it will be optimized. The price will be set for all codes with the same length within a respective code name.</div></div> <div><div>Target > Parent</div><div>If a current rate price is above an entered percent, then it will be optimized. The price will be set for all codes with the same length within a respective code name.</div></div> <div><div>Example</div><div>For instance, you have the USA code name that consists of 3 following codes: 120,120345,120456 with 1, 14, 15 rates, respectively.</div><div>Then, you need to specify the Target < Parent and Target > Parent with 5% and 10%. For this type of optimization, the system will check each code that matches the optimization rule (be of the same length) as a parent one. In our case, 120345 and 120456 will be checked. Therefore, the boundaries for 120345 code will be 13.3 USD and 15.4 USD. Since 120456 code has 15 USD rate that matches the interval, its rate will be changed to 14 USD. As a result, the generated rate table will have the following look.</div><table><tr><th>Source Code</th><th>Source Rate</th><th>Target < Parent</th><th>Target > Parent</th><th></th><th>Result Code</th><th>Result Rate</th></tr><tr><td>120</td><td>1</td><td rowspan="3">5%</td><td rowspan="3">10%</td><td rowspan="3">»</td><td>120</td><td>1</td></tr><tr><td>120345</td><td>14</td><td>120345</td><td>14</td></tr><tr><td>120456</td><td>15</td><td>120456</td><td>14</td></tr></table></div>	Source Code	Source Rate	Target < Parent	Target > Parent		Result Code	Result Rate	120	1	5%	10%	»	120	1	120345	14	120345	14	120456	15	120456	14								
Source Code	Source Rate	Target < Parent	Target > Parent		Result Code	Result Rate																									
120	1	5%	10%	»	120	1																									
120345	14				120345	14																									
120456	15				120456	14																									

⚠ Attention

Please be advised that **we don't recommend** using all types of optimization within one rates generator. **Simple optimization** is designed to work solely, thus, no other type will work, if simple optimization is enabled. However, you can enable **vertical** and **horizontal optimization** within the same rates generator. Nevertheless, we recommend to enable only one type of optimization per rates generator.

Adjust Options

The **Adjust Results** checkbox enables results adjusting by data from a currently selected **Code Deck**. It means that the number of codes in your **source rate table** (specified in rules after a new rates generator is created) **must be equal** to the number of codes in your Code Deck. If your Code Deck has only 5 codes, but a rate table has 10, those extra codes, that are not specified in a selected Code Deck, will be removed from a generated rate table. On the other hand, if your Code Deck has 15 codes, but a rate table has only 5, 10 extra codes will be added to a generated rate table with parameters, specified in this information block. A detailed example is provided in the table below.

Screenshot: Adjust Results information block

Rates Generator

Name:

Reseller:

Reseller 1

▼

Service:

Calls

▼

Code Deck:

DEFAULT

▼

Currency:

USD

▼

Description:

↕

☒ SIMPLE OPTIMIZATION

Mode:

min

▼

☐ VERTICAL OPTIMIZATION

Target < parent:

0

%

Target > parent:

0

%

☐ HORIZONTAL OPTIMIZATION

Target < parent:

0

%

Target > parent:

0

%

☒ ADJUST RESULTS

Tag:

@

▼

Policy:

Regular

▼

Rate:

7.5

USD

Setup Fee:

8

USD

Min Volume:

6

sec

Interval:

2

sec

Grace Volume:

2

sec

Time Profile:

all time

▼

ADVANCED OPTIONS

Detect fake:

5

▼

Skip distance:

10

%

Rate position:

1

▼

QUALITY OPTIONS

Analyze period:

24

hours

Code min volume:

60

min

Unmatched price:

100

▼

OK

Cancel

Apply

Field	Description
Tag	Specify a tag that will be applied to new rates, if such were created by a rates generator. Let's leave the default @ tag
Policy	Select the policy (regular or additive) that will be applied to a code(s), presented in a code deck, but not in a source rate table. For example, Regular policy
Rate	Define a rate for codes, which are present in a code deck but missing in a rule's source rate table. For example, 7.5 USD
Setup Fee	Define a setup fee for a new rate(s). For example, 8 USD
Min Volume	Indicate minimum volume for a new rate(s). 6 sec , for instance
Interval	Specify the interval for a new rate(s). For example, 2 sec
Grace Volume	Determine grace volume for those rates. For example, 2 sec
Time Profile	Define a time profile for a new rate(s). For instance, leave the default all time profile

Example Let's say our DEFAULT code deck contains 5 codes: **1201, 1202, 1203, 1204, 1205**. But our source rate table has 4: **1201, 1202, 1203**, and **1205**. If you enable **Adjust Results** and specify the above-mentioned fields with respective parameters, a new rate table, created by a rates generator, will consist of 5 codes: **1201, 1202, 1203, 1205** with their **original parameters** and a new **1204** code with the following ones (see screenshot above):

Field	Value
Code	1204
Code Name	According to DEFAULT code deck
Rate	7.5
Setup Fee	8
Min Volume	6
Interval	2
Grace Volume	2
Time Profile	all time
Tag	@
Policy	Regular

If a source rate table misses **more than 1 code** from the selected code deck, all added codes will have **identical parameters**, specified in the respective fields above.

⚠ Attention

Please note, if you enable the **Adjust Results** option but don't specify the **Rate** field, new rates for missing codes **won't be added** to a new rate table

Advanced Options

The Advanced Options information block is designed to resolve cases when rates generator rules are created for different source rate tables that share certain identical codes. By specifying the following fields, you can configure what will the rate system use for these codes:

Screenshot: Advanced Options information block

Rates Generator

Name:

Reseller:

Service:

Code Deck:

Currency:

Description:

☒ **SIMPLE OPTIMIZATION**

Mode:

☐ **VERTICAL OPTIMIZATION**

Target < parent: %

Target > parent: %

☐ **HORIZONTAL OPTIMIZATION**

Target < parent: %

Target > parent: %

☒ **ADJUST RESULTS**

Tag:

Policy:

Rate: USD

Setup Fee: USD

Min Volume: sec

Interval: sec

Grace Volume: sec

Time Profile:

ADVANCED OPTIONS

Detect fake:

Skip distance: %

Rate position:

QUALITY OPTIONS

Analyze period: hours

Code min volume: min

Unmatched price:

Field	Description
Detect Fake	Enable detection of fake rates if at least a specified number of rates is present in all source rate table, specified in generator rules.
Skip Distance	A percentage value of difference between the average rate value and a particular rate from all rates, used for the Detect Fake operation.

Example For example, you created a new rates generator and set up 3 rules for the following codes: **1201**, **1202**, **1205** with **1.5**, **2.5**, and **5.5 USD** rates, respectively. In the Quality options, the respective parameters are the same as indicated in an example (see screenshot above). If you click either **Generate To file**, **Create Rate Table** or **Update Rate Table** buttons on May 16th, at, i.e., 3:25 PM, the rates generator will run a Summary Report with the following parameters:

Field	Value
Period	May 15, 15.25 PM - May 16, 3:25 PM
Code	1201, 1202, 1205
Total Volume	60

Subsequently, a report showed that the billed volume for **1201** code is **79** mins, **1202** - **49** mins, and **1205** - **61** mins. As a result, a newly generated rate table will contain the following data:

Code	Old Rate		New Rate
1201	1.5	»	1.5
1202	2.5		100
1205	5.5		5.5

⚠ Attention

If you want to use **Quality Options** for Rates Generator, you have to define a **Terminator** as a Source for a Rates Generator's rule.

Rules List Tab

When your rates generator has been created, you need to specify its rules. The Rules List tab consists of all rules, created for a target rates generator and is presented in a form of a table with the following columns:

Screenshot: Rules List Tab

Rules List

Parameters

New Generator 1

Add Rule

Generate To File

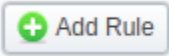
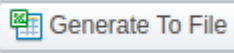
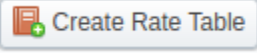
Create Rate Table


Update Rate Table


	Rates Filter	Sources	Margins	Force Rates Settings			
	Mexico		-∞ < rate ≤ -∞ +200	Min: 60 sec Setup: — TP: —	Int: 60 sec Grace: —		
	*	RT TERM - Rose	-∞ < rate ≤ -∞ +20%	Min: — Setup: — TP: —	Int: — Grace: —		

Columns	Description
Rates Filter	Code or Code Name, used in this rule
Sources	Rate Tables or Terminators Names that serve as sources for this rule
Margins	Amount of margin that will be applied to a rate if specified margin parameters are met
Force Rates Settings	Additional information on a rate: Setup Fee , Grace Volume , etc.

List of functional buttons, presented in the tab, includes:

Button/Icon	Description
	Allows creating new generator rules
	Allows downloading a new rate table in .csv or .xls formats
	Allows creating a new rate table with data from respective rules that will be added to the Rate Tables section


 Update Rate Table	Allows updating a target rate table(s) with data from respective rules
--	--

You can change an order of rules with the help of the  icon. Simply click on it and drag-and-drop it to a desired place.

Creating New Rules

To create a new rule, you need to click the **Add Rule** button. In the opened creation form (see screenshot below), specify the respective fields and click **OK**. A new rule will be added at the top of the **Rules List** tab:

Screenshot: New rule creation form

 **Rates Generator**

New Generator

RATES FILTER

Code:
Code Name:
Time Profile:
Tag
Policy:

QUALITY FILTER


ASR: — %
ACD: — min


FORCE RATES SETTINGS

Min Volume: sec
Interval: sec
Grace Volume: sec
Setup Fee: USD
Time Profile:

SOURCES

Rate Tables:
Terminators:

MARGINS 



 No Margins

OK

Cancel

Apply

Information Block	Fields and Description	
Rates Filter	Basic parameters of a new rule	
	• Code	Indicate a code for a current rule. Use the * (asterisk) symbol for all codes. If a code is specified, the Code Name field is inactive and vice versa
	• Code Name	Specify a respective Code Name for this rule
	• Time Profile	Select a time profile for codes that will be picked from sources
	• Tag	Specify a tag for a current code of a rule

	<ul style="list-style-type: none"> • Policy 	Choose a respective policy (regular/additive)
Quality Filter	Set quality parameters of your rule here	
	<p> Attention</p> <p>Please be advised that these parameters work in combination with Quality Options in generator settings. It means that if ASR, % is set to 85-95, when a rates generator creates a Summary Report, it will analyze codes not only by their volumes, indicated in the Code Min Volume field, but also if their ASR complies with the value, indicated in the ASR, % field. The same behavior is expected for the specified ACD, min field</p>	
	<ul style="list-style-type: none"> • ASR, % 	Specify ASR ranges for target code that are checked in a Summary Report by the rates generator
	<ul style="list-style-type: none"> • ACD, min 	Specify ACD ranges for target code that are checked in a Summary Report by the rates generator
Force Rates Settings	Specify additional parameters that must be noted when picking destinations from sources: <ul style="list-style-type: none"> • Setup Fee • Min. Volume • Interval • Grace Volume • Time Profile 	
Sources	Select one or multiple sources for picking data for a new price list	
	<ul style="list-style-type: none"> • Rate Tables 	Specify source rate tables
	<ul style="list-style-type: none"> • Terminators 	Specify vendors (termination clients) for this rule
Margins	<p>By clicking on the  icon, you can add a margin to a respective rate.</p> <p>If the rate for an indicated code is within the range of rates, defined in the Rate> and Rate fields, a margin (specified in respective currency or %) will be applied to this rate. Add the % symbol to the Add Margin field value to indicate that a margin is in percent.</p>	



Tip

Section rules abide the following priority: the top placed rule is picked first, and if some of the lower priority rules are able to provide the same codes, those codes will be ignored.

Attention

Rates Generator generates **stashed rates** that must be confirmed. When you confirm rates and there are duplicate active rates, it changes the status of an active rate to **stashed**, and a new confirmed rate (created by a rates generator) becomes **active**. You can confirm rates in the [Rate Tables](#) section.