

# 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



Column	Description
<b>ID</b>	Identification number of a rates generator
<b>Name</b>	Name of a rates generator
<b>Reseller</b>	Name of a reseller, whom a rates generator belongs to
<b>Description</b>	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 <b>.csv</b> or <b>.xls</b> 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

**Rates Generator**

Name: Basic Generator  
 Reseller: Reseller 1  
 Service: Calls  
 Code Deck: DEFAULT  
 Currency:  
 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:  
 Setup Fee: 0  
 Min Volume: 1 sec  
 Interval: 1 sec  
 Grace Volume: 0 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
<b>Name</b>	Specify the name of a new rates generator
<b>Reseller</b>	Select the reseller, to whom a newly created rates generator should belong
<b>Service</b>	Choose the service to be applied for the respective rates generator (calls, SMSs, data, etc.).
<b>Code Deck</b>	Select the code deck that will be used to name destination codes in a new price list if the <b>Adjust Results</b> option is checked
<b>Currency</b>	Specify the currency of rates in a new price list
<b>Description</b>	Additional information about a current rates generator

To refine your results, you can use the following additional criteria:

## Optimization Options

Screenshot: Rates Generator form/Optimization sub-panel

**Rates Generator**

Name: Basic Generator  
 Reseller: Reseller 1  
 Service: Calls  
 Code Deck: DEFAULT  
 Currency:  
 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:  
 Setup Fee: 0  
 Min Volume: 1 sec  
 Interval: 1 sec  
 Grace Volume: 0 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

Information Block	Description
<b>Simple Optimization</b>	It allows applying the same price for all codes inside the same code name by using three options:
	<ul style="list-style-type: none"> <li><i>m in</i> minimum available price.</li> </ul>
	<ul style="list-style-type: none"> <li><i>m ax</i> maximum available price.</li> </ul>
	<ul style="list-style-type: none"> <li><i>a vg</i> average price of all available.</li> </ul>

<b>Example</b>	<p>For instance, if the <b>USA</b> code name consists of <b>3</b> codes with <b>1, 5, and 6 USD</b> rates, respectively, depending on a chosen option, the results will be:</p> <table border="1" data-bbox="358 201 1206 352"> <thead> <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> </thead> <tbody> <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> </tbody> </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																										
<b>Vertical Optimization</b>	<p>This option allows replacing the longer codes by the shorter ones within a Code Name.</p> <p><b>Target &lt; Parent</b> 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.</p> <p><b>Target &gt; Parent</b> 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.</p> <p><b>Example</b> For instance, you have the <b>USA</b> code name that consists of <b>5</b> following codes: <b>120, 1201, 1202, 120345, 120456</b> with <b>1, 1.05, 0.98, 1.5, 0.6 USD</b> rates, respectively.</p> <p>Then, you need to specify the <b>Target &lt; Parent</b> and <b>Target &gt; Parent</b> fields: let's say <b>10%</b> for each field. The <b>Parent</b> code is the shortest sub-code within a Code Name (e.g., <b>120</b> is a sub-code for <b>1202, 1203, 1205</b> but not for <b>121, 1222</b>, etc.). Thus, the boundaries for vertical optimization are <b>0.9 USD</b> and <b>1.1 USD</b> with parent's code rate of <b>1 USD</b>. As a result, <b>1201</b> and <b>1202</b> codes will be merged into <b>120</b> code since they are located within the specified interval. On the other hand, <b>120345</b> and <b>120456</b> codes will remain unchanged. The resulting rate table with vertical optimization will have the following look:</p> <table border="1" data-bbox="358 806 1279 1031"> <thead> <tr> <th>Source Code</th> <th>Source Rate</th> <th>Target &lt; Parent</th> <th>Target &gt; Parent</th> <th></th> <th>Result Code</th> <th>Result Rate</th> </tr> </thead> <tbody> <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>120345</td> <td>1.5</td> </tr> <tr> <td>1202</td> <td>0.98</td> <td>120456</td> <td>0.6</td> </tr> <tr> <td>120345</td> <td>1.5</td> <td></td> <td></td> </tr> <tr> <td>120456</td> <td>0.6</td> <td></td> <td></td> </tr> </tbody> </table>	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	120345	1.5	1202	0.98	120456	0.6	120345	1.5			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				120345	1.5																									
1202	0.98				120456	0.6																									
120345	1.5																														
120456	0.6																														
<b>Horizontal Optimization</b>	<p>This option allows applying the same rate to codes of the same lengths within a Code Name.</p> <p><b>Target &lt; Parent</b> 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.</p> <p><b>Target &gt; Parent</b> 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.</p> <p><b>Example</b> For instance, you have the <b>USA</b> code name that consists of <b>3</b> following codes: <b>120, 120345, 120456</b> with <b>1, 14, 15</b> rates, respectively.</p> <p>Then, you need to specify the <b>Target &lt; Parent</b> and <b>Target &gt; Parent</b> with <b>5%</b> and <b>10%</b>. 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, <b>120345</b> and <b>120456</b> will be checked. Therefore, the boundaries for <b>120345</b> code will be <b>13.3 USD</b> and <b>15.4 USD</b>. Since <b>120456</b> code has <b>15 USD</b> rate that matches the interval, its rate will be changed to <b>14 USD</b>. As a result, the generated rate table will have the following look.</p> <table border="1" data-bbox="358 1440 1279 1600"> <thead> <tr> <th>Source Code</th> <th>Source Rate</th> <th>Target &lt; Parent</th> <th>Target &gt; Parent</th> <th></th> <th>Result Code</th> <th>Result Rate</th> </tr> </thead> <tbody> <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> </tbody> </table>	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*

The screenshot shows the 'Rates Generator' window. The 'Adjust Results' section is highlighted with a red box. It contains the following fields and values:

- 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

Other sections include:

- Simple Optimization:** Mode: min
- Vertical Optimization:** Target < parent: 0%, Target > parent: 0%
- Horizontal Optimization:** Target < parent: 0%, Target > parent: 0%
- 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

Field	Description
<b>Tag</b>	Specify a tag that will be applied to new rates, if such were created by a rates generator. Let's leave the default @ tag
<b>Policy</b>	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, <b>Regular</b> policy
<b>Rate</b>	Define a rate for codes, which are present in a code deck but missing in a rule's source rate table. For example, <b>7.5 USD</b>
<b>Setup Fee</b>	Define a setup fee for a new rate(s). For example, <b>8 USD</b>
<b>Min Volume</b>	Indicate minimum volume for a new rate(s). <b>6 sec</b> , for instance
<b>Interval</b>	Specify the interval for a new rate(s). For example, <b>2 sec</b>
<b>Grace Volume</b>	Determine grace volume for those rates. For example, <b>2 sec</b>
<b>Time Profile</b>	Define a time profile for a new rate(s). For instance, leave the default <b>all time</b> 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*

The screenshot shows the 'Rates Generator' configuration window. The 'ADVANCED OPTIONS' section is highlighted with a red box and contains the following settings:

- Detect fake: 4
- Skip distance: 15 %
- Rate position: 2

Other visible settings include:

- Name: Basic Generator
- Reseller: Reseller 1
- Service: Calls
- Code Deck: DEFAULT
- Currency: USD
- Mode: min
- Tag: @
- Policy: Regular
- Rate: 7.5 USD
- Setup Fee: 8 USD
- Min Volume: 6 sec
- Interval: 2 sec
- Grace Volume: 1.5 sec
- Time Profile: all time
- Analyze period: 24 hours
- Code min volume: 60 min
- Unmatched price: 100

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

<b>Rate Position</b>	<p>Define what rate from a total amount of rates left after <b>Detect Fake</b> operation will be used for a certain code.</p> <p>Rates are ordered from the cheapest to the most expensive. Thus, if you specify 1, The system will use the cheapest rate, if 2 - the second cheapest, and so on.</p>										
<b>Example</b>	<p>Let's say we have 4 rules in our rates generator, each with a different source rate table. Each rate table has a rate for the <b>1201</b> code, but with different prices in USD:</p> <table border="1" data-bbox="237 319 522 556"> <thead> <tr> <th>Rate Table Name</th> <th>Rate</th> </tr> </thead> <tbody> <tr> <td>RT 1</td> <td>0.98</td> </tr> <tr> <td>RT 2</td> <td>0.2</td> </tr> <tr> <td>RT 3</td> <td>1.1</td> </tr> <tr> <td>RT 4</td> <td>1.7</td> </tr> </tbody> </table> <p>In <b>Advanced Options</b> of rates generator settings, we've specified values, seen on the screenshot above. It means that the system will pick <b>all 4</b> rates for the <b>1201</b> code and execute the following actions:</p> <ol style="list-style-type: none"> <li>1. Count an <b>average rate</b> for all 4 rates that equals <b>0.99 USD</b>.</li> <li>2. Count the interval of <b>15%</b> for average rate of 0.99 USD that is between <b>0.85 USD</b> and <b>1.13 USD</b>. Then, the system will compare all rates and skip <b>1.7 USD</b> rate from <b>RT 4</b> and <b>0.2 USD</b> rate from <b>RT 2</b>.</li> <li>3. Since the <b>Rate position</b> field value is <b>2</b>, the system will pick <b>the second cheapest rate</b> for this code that is <b>1.1</b> from <b>RT 3</b> and apply it as a basic rate for <b>1201</b> code in a new rate table, created by a rates generator.</li> </ol>	Rate Table Name	Rate	RT 1	0.98	RT 2	0.2	RT 3	1.1	RT 4	1.7
Rate Table Name	Rate										
RT 1	0.98										
RT 2	0.2										
RT 3	1.1										
RT 4	1.7										

## Quality Options

The Quality Options information block contains additional parameters for more precise rate generation, based on the [Summary Report](#). The system will analyze the report taking into account a specified time interval, specified in a report, minimum event value for codes, specified in generator rules, as well replace rate values for unmatched codes, and will generate a new rate table or update an existing one including these parameters. The information block consists of the following fields:

Screenshot: Quality Options information block

The screenshot shows the 'Rates Generator' configuration window. It is divided into several sections:

- General Settings:** Name: Basic Generator, Reseller: Reseller 1, Service: Calls, Code Deck: DEFAULT, Currency: USD.
- OPTIMIZATION:**
  - 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: 1.5 sec, Time Profile: all time.
- ADVANCED OPTIONS:** Detect fake: 4, Skip distance: 15%, Rate position: 2.
- QUALITY OPTIONS (highlighted in red):** Analyze period: 24 hours, Code min volume: 60 min, Unmatched price: 100.

Buttons: OK, Cancel, Apply.

Field	Description
<b>Analyze Period</b>	Define a number of hours to analyze the <b>Summary Report</b> for. For example, <b>24 hours</b>
<b>Code Min Volume</b>	Define a minimum event volume for a certain code. For example, <b>60 min</b> for the <b>Calls</b> service
<b>Unmatched Price</b>	Define a price for all codes that do not satisfy quality parameters ( <b>Code Min Volume</b> value). For example, <b>100 USD</b>

**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
<b>Period</b>	May 15, 15.25 PM - May 16, 3:25 PM
<b>Code</b>	1201, 1202, 1205
<b>Total Volume</b>	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

Columns	Description
<b>Rates Filter</b>	Code or Code Name, used in this rule
<b>Sources</b>	Rate Tables or Terminators Names that serve as sources for this rule
<b>Margins</b>	Amount of margin that will be applied to a rate if specified margin parameters are met
<b>Force Rates Settings</b>	Additional information on a rate: <b>Setup Fee, Grace Volume</b> , 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 <b>.csv</b> or <b>.xls</b> formats
	Allows creating a new rate table with data from respective rules that will be added to the <b>Rate Tables</b> section

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

Information Block	Fields and Description
Rates Filter	Basic parameters of a new rule
	<ul style="list-style-type: none"> <li><b>Code</b> Indicate a code for a current rule. Use the * (<b>asterisk</b>) symbol for all codes. If a code is specified, the <b>Code Name</b> field is inactive and vice versa</li> </ul>
	<ul style="list-style-type: none"> <li><b>Code Name</b> Specify a respective Code Name for this rule</li> </ul>
	<ul style="list-style-type: none"> <li><b>Time Profile</b> Select a time profile for codes that will be picked from sources</li> </ul>
	<ul style="list-style-type: none"> <li><b>Tag</b> Specify a tag for a current code of a rule</li> </ul>

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