

# Routing Analysis

### In this article

- Section overview
- Creating a Routing Analysis Report:
- Export a generated report

## Section overview

This section represents a **route analyzer tool** that allows to manage dynamical routes and simulate different routing models without hurting live voice traffic. It should be noted that this tool can be used only in a case when you are using **Dynamic Routing feature**.

The **Routing Analysis** section represents a query form with the following parameters:

*Screenshot: Routing Analysis form*

Routing Analysis

Gateway

Extras

Src Party ID

Dynamic Tags

Routing Plan

Version

FILTERS

Service:

Dst Party ID:

Client:

Account:

Save Query

Load Query...

Query

OUTPUT


Type:




















**Attention**




Please note that if there are changes in **the Term Rate Table**, you need to launch **Dynamic Routing Manager** in the **Task Scheduler** section (**System > Task Scheduler**). Routing Analysis shows routes based on **routing table** built on the last run of the **Dynamic Routing Manager**. So you won't be able to see the latest changes regarding Routing Rules until Dynamic Routing Manager is **restarted**.

## Creating a Routing Analysis Report:

To generate routing analysis, enter the next parameters in the query form:

Section	Field Description	
Filters	In the <b>Filters</b> menu, select desired parameters for the report. To cancel any filter, click the delete icon  next to the filter.  You can use a <b>quick search</b> by typing filters' names in the respective field at the top of the filters list.	
	<b>Service</b>	Select the service for the report. By default, the field value is set to <b>Calls</b> . This field is mandatory.
	<b>Dst Party ID</b>	Enter the destination party ID to define a destination. This field is mandatory.
	<b>Client</b>	Select a client for the report. Also, you can specify respective <b>call shops</b> . This field is mandatory.
	<b>Account</b>	Select an account for the report.
	<b>Additional Filters</b>	
	<b>There are the following accessible additional filters:</b> <ul style="list-style-type: none"><li>• <b>Events:</b> Gateway.</li><li>• <b>Extras:</b> Src Party ID; Dynamic Tags; Routing Plan; Verbose.</li></ul>	
	<b>Events Settings</b>	
	<b>Gateway</b>	Define a gateway specified in the term account
	<b>Extra Settings</b>	
<b>Dynamic Tags</b>	Enter additional dynamic tags for this routing	

	<table> <tr> <td><b>Routing Plan</b></td><td>Enter the plan with a respective routing rule</td></tr> <tr> <td><b>Src Party ID</b></td><td>Specify a source number or any other source identification to check the translations</td></tr> <tr> <td><b>Verbose</b></td><td>Select, which routes should be displayed (<i>active, active and non-profit, or all routes</i>).</td></tr> </table>	<b>Routing Plan</b>	Enter the plan with a respective routing rule	<b>Src Party ID</b>	Specify a source number or any other source identification to check the translations	<b>Verbose</b>	Select, which routes should be displayed ( <i>active, active and non-profit, or all routes</i> ).				
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<b>Output</b>	<p>This form contains <b>settings of the output</b> data of the report.</p> <p>Click the plus icon  near <b>Columns</b> to select respective columns to output report data. Also, you can cancel any chosen item.</p> <table> <tr> <td colspan="2"><b>Accessible columns in the report</b></td></tr> <tr> <td colspan="2"> <b>Following additional columns can be added to the report:</b> <i>Rank, Route Type, Route Status, Profit, Appeal, Termination, Code, Term Rate, Account IP/Name, Dst Party ID, Src Party ID, Gateway.</i> </td></tr> <tr> <td><b>Rank</b></td><td>Vendor position during routing. It's applicable and the system puts values in order when route status is accepted.</td></tr> <tr> <td><b>Route Type</b></td><td> <p>Type of the route that includes: <b>destination, policy and rule properties (balancing, priority), time profile, orig groups, term groups, debug information</b></p> <p>A blue  icon in the column shows a <b>static route</b></p> <p>A violet  icon indicates a <b>DID route</b></p> <p>A green  icon in the column shows a <b>dynamic route</b></p> <p><b>To view detailed information on a route type hover over a corresponding icon in the column.</b></p> <p><i>Screenshot: Detailed information on a route type</i></p> <div> <b>Rule Destination:</b>  1202   Static route  <b>Rule Properties:</b>  Balancing: 100%  Priority: 1  <b>Debug Info:</b>  #1 {DST#1202 TP#1 P#1 RP#7 T#s C#12 "Term Client #1 / term"} </div> </td></tr> <tr> <td><b>Route Status</b></td><td> <p>The following information is displayed in the column: <b>the state of the route, routing rule capacity, termination client /account/reseller capacity</b></p> <p> for <b>accepted</b></p> <p> for <b>no capacity</b></p> <p> for <b>denied</b> (for example, not matched Reseller/number length limit)</p> <p><b>To view detailed information on a route status hover over a corresponding icon in the column.</b></p> <p><i>Screenshot: Detailed information on a route status</i></p> <div> <b>Route Status:</b>  <b>accepted</b>  <b>Routing Rule Capacity</b>  — 0 active sessions  <b>Terminator Account Capacity:</b>  — 0 active sessions  <b>Terminator Client Capacity:</b>  — 0 active sessions  <b>Terminator Reseller Capacity:</b>  — 0 active sessions </div> </td></tr> </table>	<b>Accessible columns in the report</b>		<b>Following additional columns can be added to the report:</b> <i>Rank, Route Type, Route Status, Profit, Appeal, Termination, Code, Term Rate, Account IP/Name, Dst Party ID, Src Party ID, Gateway.</i>		<b>Rank</b>	Vendor position during routing. It's applicable and the system puts values in order when route status is accepted.	<b>Route Type</b>	<p>Type of the route that includes: <b>destination, policy and rule properties (balancing, priority), time profile, orig groups, term groups, debug information</b></p> <p>A blue  icon in the column shows a <b>static route</b></p> <p>A violet  icon indicates a <b>DID route</b></p> <p>A green  icon in the column shows a <b>dynamic route</b></p> <p><b>To view detailed information on a route type hover over a corresponding icon in the column.</b></p> <p><i>Screenshot: Detailed information on a route type</i></p> <div> <b>Rule Destination:</b>  1202   Static route  <b>Rule Properties:</b>  Balancing: 100%  Priority: 1  <b>Debug Info:</b>  #1 {DST#1202 TP#1 P#1 RP#7 T#s C#12 "Term Client #1 / term"} </div>	<b>Route Status</b>	<p>The following information is displayed in the column: <b>the state of the route, routing rule capacity, termination client /account/reseller capacity</b></p> <p> for <b>accepted</b></p> <p> for <b>no capacity</b></p> <p> for <b>denied</b> (for example, not matched Reseller/number length limit)</p> <p><b>To view detailed information on a route status hover over a corresponding icon in the column.</b></p> <p><i>Screenshot: Detailed information on a route status</i></p> <div> <b>Route Status:</b>  <b>accepted</b>  <b>Routing Rule Capacity</b>  — 0 active sessions  <b>Terminator Account Capacity:</b>  — 0 active sessions  <b>Terminator Client Capacity:</b>  — 0 active sessions  <b>Terminator Reseller Capacity:</b>  — 0 active sessions </div>
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<b>Profit</b>	<p>Information on <b>Profit</b> and <b>Profit Margin</b> in the currency, indicated in the <b>Client's settings</b>, is displayed in the section. Also, it shows <b>Term Rate</b>, <b>Profit</b> and <b>Profit Margin</b> in the system currency only if system currency differs from the one in Client's settings.</p> <p>To view detailed information, hover over the <b>Profit</b>  icon in the respective column.</p> <p><i>Screenshot: Routing Analysis/Profit</i></p> <div data-bbox="362 312 540 672"> <p><b>Profit:</b> 0.9875 EUR</p> <p><b>Profit Margin:</b> 25%</p> <p><b>Term Rate:</b> 0.2000 USD</p> <p><b>Profit:</b> 0.7900 USD</p> <p><b>Profit Margin:</b> 25%</p> </div> <div data-bbox="362 699 1485 829"> <p> <b>Tip</b></p> <p>Please note, it analyses the profitability by comparing orig and term rates. Therefore, an orig rate should be equal or greater than a term rate and profit margin.</p> </div>
<b>Appeal</b>	Shows the appeal automatically calculated by the system according to the chosen <b>DR Policies (Routing section &gt; DR Policies)</b>
<b>Terminator</b>	The name of the respective terminator or his account name specified in the Client's settings
<b>Code</b>	Here you can see matched code in the terminator's rate table
<b>Term Rate</b>	Rate that is used to terminate the call
<b>Account IP/Name</b>	The name or IP of the account
<b>Dst Party ID</b>	Shows destination party ID that is sent to provider when all matching number translations are performed
<b>Src Party ID</b>	Shows source party ID after all number translations
<b>Gateway</b>	Displays a respective gateway that is specified in the term account
<b>Other output settings</b>	
<b>Type</b>	<p>Choose a format of the report from a drop-down list: <b>Web/CSV/Excel XLS/Excel XLSx</b>.</p> <p>Also, select a look of table view next to the <b>Type</b> field:</p> <ul style="list-style-type: none"> <li>• <b>Plain</b> - a simple table view</li> <li>• <b>Grouped</b> - a table view with grouped data and possibility to collapse it</li> </ul> <div data-bbox="362 1593 1485 1724"> <p> <b>Attention</b></p> <p>Please note, that the <b>Grouped</b> type of a table view is available only for <b>Excel XLSx</b> and <b>Web</b> formats, it doesn't work with <b>CSV</b> or <b>Excel XLS</b>.</p> </div> <p>If <b>CSV</b>, <b>Excel XLS</b> or <b>Excel XLSx</b> type has been selected, an additional <b>Send to</b> field will be displayed. In this field, you can specify emails of the clients, where the current report in the selected format will be sent.</p>

After selecting all needed parameters, click the **Query** button and the system will generate a report.

*Screenshot: Routing Analysis*

Routing Analysis

Gateway  
Extras  
Src Party ID  
Dynamic Tags  
Routing Plan  
Verhnee

Service: Calls

Dst Party ID: 1202

Client: Orig Client

Account:

Save Query
Load Query...
Query

Type: Web
Grouped

COLUMNS (12)

Dst Party ID: 1202  
Routing Plan: Routing Plan  
DR Order: by code / appeal  
Rules Hunting: longest only

Client: Orig Client  
Destination: 1202 | United States  
Orig Rate: 1.2375 EUR | Parent Rate Norification

Export to XLSx

Type	Rank	Route Type	Route Status	Profit	Appeal	Terminator	Code	Term Rate	Account IP / Name	Dst Party ID	Src Party ID	Gateway
Normal	1	S				Term Client #1 term2	1202 United States	0.9375 EUR	100.100.14.1/32	1202		Any
Normal	2	S				Term Client #1 term	1202 USA	0.2000 EUR	term	1202		Any
Normal	3	S				Term Client #1 term3	1202 United States	0.5625 EUR	term3	1202		Any

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Moreover, you can create (save) and display previously saved report templates by clicking **Save Query** and **Load Query** respectively. Keep in mind that the load button will be present only if there is at least one routing analysis report in **Report Templates** section.

### Tip

To find more details about templates, please refer to the [Report Templates](#) article in our **User Guide**.

To expand or collapse data in your report, click the **plus** or **minus** icons. If the data is **Grouped** in the report, it will be shown **initially collapsed**.

Screenshot: Expand/collapse report data

Routing Analysis

Gateway  
Extras  
Src Party ID  
Dynamic Tags  
Routing Plan  
Verhnee

Service: Calls

Dst Party ID: 1202

Client: Orig Client

Account:

Save Query
Load Query...
Query

Type: Web
Grouped

COLUMNS (12)

Dst Party ID: 1202  
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Normal	3	S				Term Client #1 term3	1202 United States	0.5625 EUR	term3	1202		Any


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If applicable, you can check the **Future Terminator's Rate** and **its effective date** in the report, by hovering over a current rate in the **Term Rate** column.

Screenshot: Future Terminator's Rate

Term Rate	Account IP / Name
0.5625 EUR	term3
0.2000 EUR ▲	term
<b>Next Rate:</b> 0.3000   ▲ 0.1000 EUR <b>Effective From:</b> 01/24/2018 00:00:00 +0000	

By clicking the **Info**  icon above the report on the right, **user's name** and **time/date** when a report was generated will be displayed in a pop-up window.

Screenshot: Info icon

Generated by: Administrator on 01/24/2018 16:17:47 +0000

## Export a generated report

You can export report data either in an .xls or .csv file that would contain currently presented data. Click the **Export to XLSx** or **Export to CSV** button to download a file of the respective format. Be advised that the **Export to CSV** button is only available if **Output** is set to **Web/Plain**.

### Attention

Please note:

1. Inactive additive rates with non-zero value (for respective tags) won't be shown. Active additive rates with zero value will be shown.
2. If you change the currency in the **Settings**, you need to restart **Dynamic Routing Manager** in the **Task Scheduler** section for immediate Routing Analysis functioning.

## Knowledge Base Articles

Error rendering macro 'contentbylabel'

parameters should not be empty