Routing Analysis

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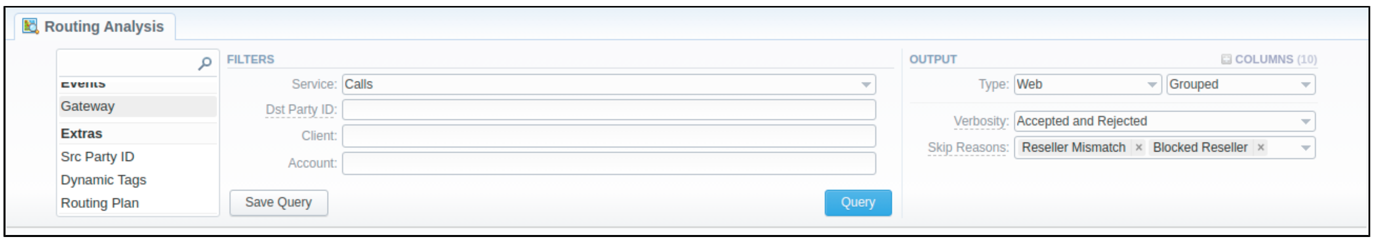
Section overview

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 case you are using the **Dynamic Routing feature.**

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

Screenshot: Routing Analysis form



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 the 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	Select desired parameters for the report in the **Filters** menu. To cancel any filter, click the delete icon next to the filter. You can use a **quick search** by typing filters' names in the respective field at the top of the filters list.	
	Service	Select the service for the report. By default, the field value is set to **Calls**. This field is mandatory.
	Dst Party ID	Enter the destination party ID to define a destination. This field is mandatory.
	Client	Select a client for the report. Also, you can specify respective **call shops.** This field is mandatory.
	Account	Select an account for the report.
	Additional Filters	
	There are the following accessible additional filters: • ***Events:*** *Gateway.* • ***Extras:*** *Src Party ID; Dynamic Tags; Routing Plan.*	
	Events Settings	
	Gateway	Define a gateway specified in the term account

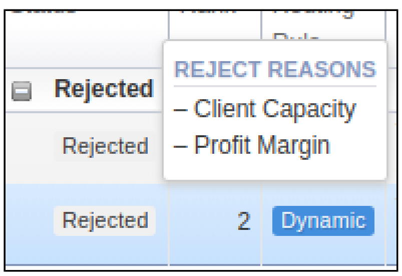
<table>
<tr><td></td><td>
<table>
<tr><th colspan="2">Extra Settings</th></tr>
<tr><td>Src Party ID</td><td>Specify a source number or any other source identification to check the translations</td></tr>
<tr><td>Dynamic Tags</td><td>Enter additional dynamic tags for this routing</td></tr>
<tr><td>Routing Plan</td><td>Enter the plan with a respective routing rule</td></tr>
</table>
</td></tr>
<tr><td>Output</td><td>
This form contains settings of the output data of the report.

Click the plus icon near Columns to select respective columns to output report data. Also, you can cancel any chosen item.
<table>
<tr><th colspan="2">Accessible columns in the report</th></tr>
<tr><td colspan="2">Following columns can be added to the report: Status, Rank, Routing Rule, Vendor, Account, Code, Rate, Dst Party ID, Src Party ID, Appeal, Reject Reasons.</td></tr>
<tr><td>Status</td><td>
The following information is displayed in the column: the state of the route, reject reasons (if any)

Accepted for accepted route

Rejected for rejected route due to some reasons (to see them, hover over the icon)

To view detailed information on a rejected route status, hover over a corresponding icon in the column.

Screenshot: Detailed information on a route status


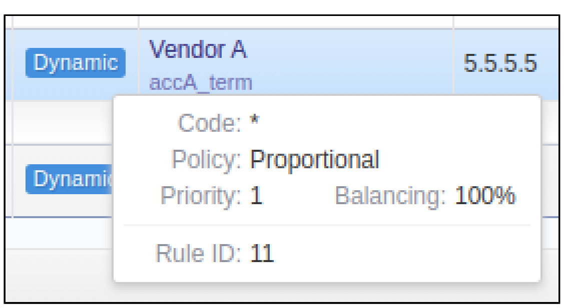
</td></tr>
<tr><td>Rank</td><td>Vendor position during routing. It's applicable and the system puts values in order when route status is accepted.</td></tr>
<tr><td>Routing Rule</td><td>
Type of the route that includes: destination, policy and rule properties (balancing, priority), time profile, orig groups, term groups, debug information

A grey Static icon in the column shows a static route

A violet # icon indicates a DID route

A blue Dynamic icon in the column shows a dynamic route

To view detailed information on a route type hover over a corresponding icon in the column.

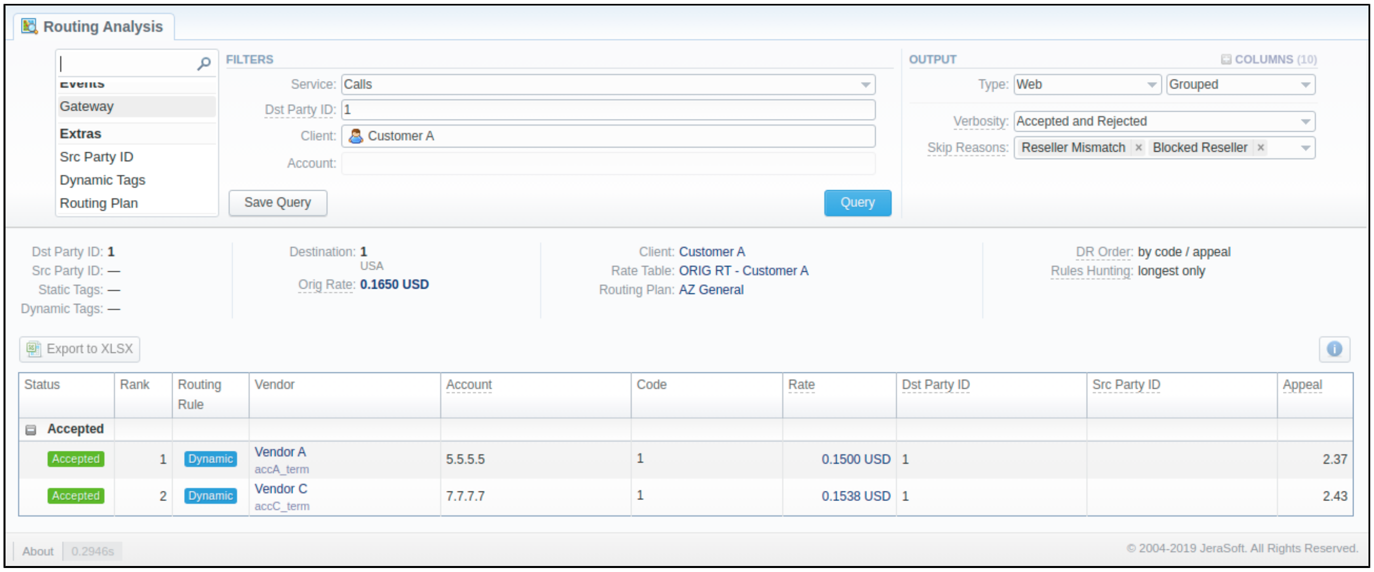
Screenshot: Detailed information on a routing rule


</td></tr>
</table>
</td></tr>
</table>

	Vendor	The name of the respective terminator specified in the Client's settings and its account name
	Account	The name or IP of the account
	Code	Here you can see matched code in the terminator's rate table
	Rate	Rate that is used to terminate the call
	Dst Party ID	Shows destination party ID that is sent to the provider when all matching number translations are performed
	Src Party ID	Shows source party ID after all number translations
	Appeal	Shows the appeal automatically calculated by the system according to the chosen **DR Policies** (**Routing section > DR Policies**) The Appeal is displayed as a value if a route is dynamic. If a route is static, it's displayed as N/A. Regardless of the route type, you can hover over the appeal value to get additional insights on ASR, ACD, SCD, PDD, Vendor Debt, Payment Due, Stats Qty.
	Reject Reasons	Displays respective rejection reasons for a particular route
	Other output settings	
	Type	Choose a report format from a drop-down list: ***Web/CSV/Excel XLS/Excel XLSx.*** Also, select a look of table view next to the **Type** field: • ***Plain*** - a simple table view • ***Grouped*** - a table view with grouped data and possibility to collapse it **Attention** Please note that the ***Grouped*** type of a table view is available only for **Excel XLSx** and **Web** formats, it doesn't work with **CSV** or **Excel XLS**. If **CSV, Excel XLS** or **Excel XLSx** type has been selected, an additional ***Send to*** 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.
	Verbosity	Select which routes should be displayed *(**accepted and rejected***, or ***accepted only****).*
	Skip Reasons	Specify the reasons under which routes should be excluded from the output list. The available skip reasons are: • *Reseller Mismatch* • *Blocked Reseller* • *Blocked Client* • *Blocked Account* • *Vendor Qty* • *Stop Hunting* • *Party ID Length* • *Profit Margin* • *Rate Increments* • *Orig Tags* • *Term Tags* • *Traffic Processing* • *Reseller Capacity* • *Client Capacity* • *Account Capacity* • *Rule Capacity* • *Quality* • *Vendor Credit Limit*

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

Screenshot: Routing Analysis



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

Tip

To find more details about templates, please refer to the Report Queries article in our **User Guide.**

Attention

Please mind the naming of your codes. For example, if your client has:

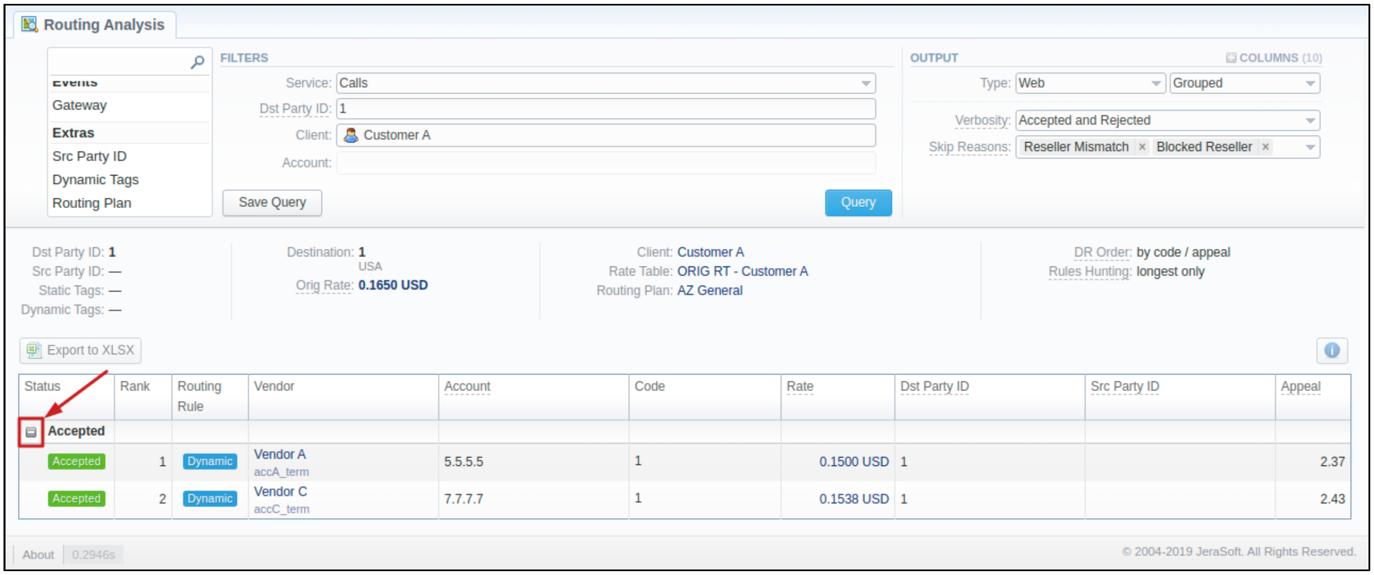
- a ***447911*** code in a Rate Table,
- an assigned Code Deck that has only ***44-UK***, but ***not 447911***,
- an assigned Routing Plan with a static rule for ***UK*** to a vendor,

in the Routing Analysis you ***will not*** see this vendor as available for a call to, say, 4479110000, even though the Orig parameters state a Code Name as UK. This happens, because it's a *simulated Code Name* (from 44 Code, present in a Code Deck).

If you'd like to see the said vendor, the code should be either 447911, or 44*.

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 as **initially expanded**.

Screenshot: Expand/collapse report data

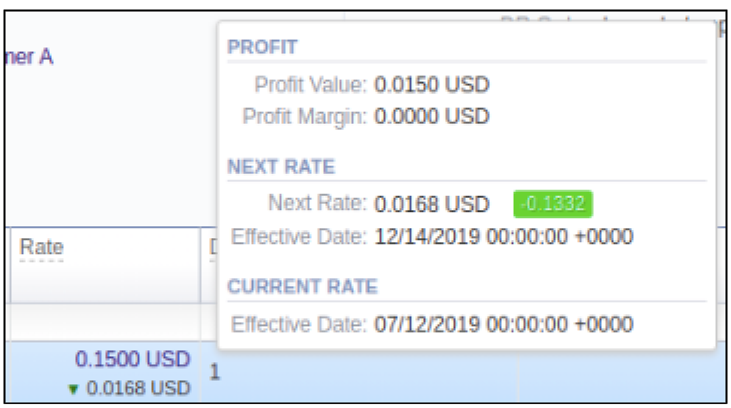


Note for blocked destinations

1. If the rate is blocked for the originator, the routes will not be displayed.
2. If a terminator has a direction blocked, the route will be rejected with the corresponding status ("Blocked Rate").
3. If the Routing Policy contains the Rate factor, the appeal value for blocked rates is set to a high value of 1000, regardless of the values of any other factors.

If applicable, you can check the **future terminator's rate**, **effective date**, and **profit** in the report by hovering over the current rate in the **Term Rate** column.

Screenshot: Future Terminator's Rate



Tip

Please note that 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.

Attention

Please note that if a **Reseller** has an orig rate assigned, the profit margin will be counted taking into account both client-originator's rate and Reseller's rate.

By hovering over 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

Export a generated report

You can export report data either in a .xlsx 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.***

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.

Sharing a Report

Each time you get a report output, the system generates a unique link in the format of "/view?id=<uniq-string>". It allows sharing data between the users, even if they belong to different resellers (the feature works similarly to Share by Link in Google Drive).

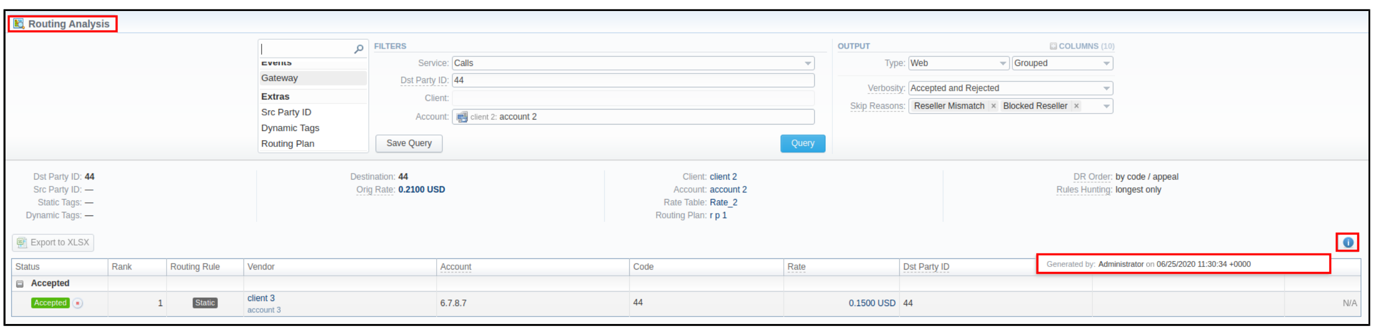
The link refers to the report data valid for a specific moment.

Example: When you send a link to a report, you ensure the recipient would see the same data as you do. If you change data in the system (for example, perform rerating), the previously copied link to the report will display data valid for the moment of generation (even though the actual data is now different).

You can also view the additional information about the generated report by hovering over the **Info** icon, which is located under the **Output** section:

Title	Description
Generated by	Indicates the **Role** of the user who generated a report and specifies a generation time

Screenshot: Routing Analysis Info icon



Knowledge Base Articles

Error rendering macro 'contentbylabel'

parameters should not be empty