Factors Watcher

Factors Watcher List Creating a New Factors Watcher Configuring Watch Rules

Factors Watcher List

This section represents a built-in tool to monitor statistics and generate alerts, as well as block numbers, codes/code names, destinations, clients, or accounts if some conditions are met. The section is presented in the form of a table with the following columns:

Screenshot: Factors Watcher main section



| Column | Description | |
|---------------|--|--|
| ID | Identification number of factors watcher | |
| Name | Name of a factors watcher | |
| Watch Rules | Vatch Rules Total number of watch rules within a factors watcher | |
| Traffic Rules | raffic Rules Total amount of traffic rules, created by a factors watcher | |
| Query | Factors watcher query | |

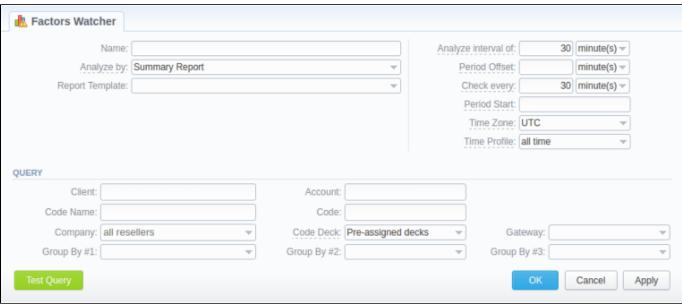
Functional buttons/icons, presented in the section, are as follows:

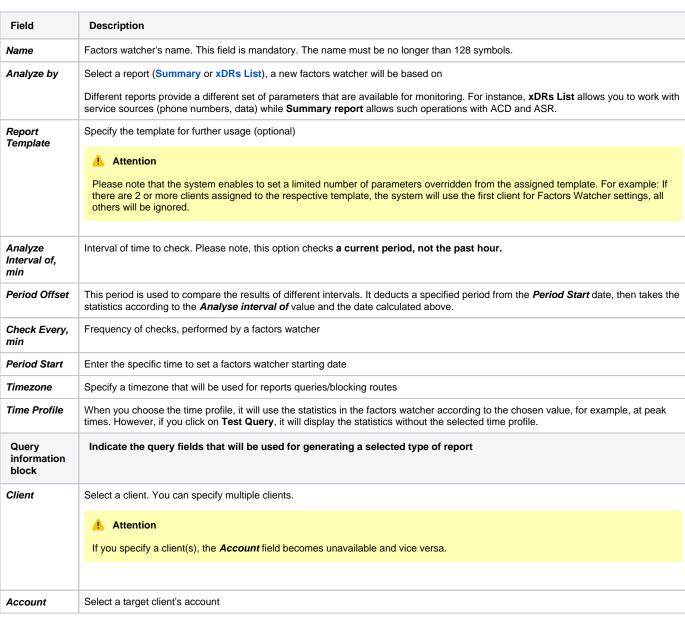


Creating a New Factors Watcher

The tool is based on periodical queries in the Summary or xDRs List sections. To create a new query, click the New Factors Watcher button and specify parameters in the following form:

Screenshot: Adding a New Factors Watcher





| Code Name | Indicate a code name | | | |
|--------------------|---|--|--|--|
| | 1 Attention | | | |
| | The Code and Code Name fields are mutually exclusive | | | |
| | | | | |
| Code | Define the code | | | |
| Company | Specify a Reseller | | | |
| Code Deck | Indicate a target code deck | | | |
| Gateway | Select a respective gateway | | | |
| Group by # | Group query by a selected parameter (<i>client, account, code name, code</i> or <i>gateway</i>). Pay attention that based on selected parameters, respective <i>Action</i> options will be available. For instance, if you group by <i>Code</i> , in the rule settings you will have the <i>Bi Code</i> option and so on. | | | |
| Test Query bu tton | Click on this button to perform a test query in the Summary or xDRs List Report for the period, specified in the <i>Check Every</i> and <i>Analy ze Interval of</i> fields | | | |

When you click **OK**, the new factors watcher will be created. You can edit properties of this watcher later by clicking the edit \$\sigma\$ icon.



Configuring Watch Rules

Next, you need to configure the watcher rules - parameters, under which conditions are monitored. To do this:

- 1. choose the already existed Factors Watcher from the list or create a new rule;
- 2. click on the name of the Factors Watcher or the watch rule usicon;
- 3. in the appeared window, click the Add Rule button and fill in the following fields:

Screenshot: Editing Factors Watcher rules



| Field | Description | | | | | |
|----------|--|---|--|--|--|--|
| Priority | Define a priority of rules execution if they have a similar <i>Match</i> parameter | | | | | |
| Match | A set of parameters that are used as a basis for checks | | | | | |
| | Service | Determine the type of service (e.g., calls, SMSs, data) | | | | |
| | Origin | Type of route to check (<i>Origination/Termination</i>) | | | | |
| | Code Name | Indicate the code name to apply a rule to | | | | |
| | Gateways | Specify the gateway to apply a rule to | | | | |



To create a temporary rule that will override other rules with the same match parameters, you need to set up the rule with the highest priority and specify an appropriate Expiration Date. Therefore, the existed multiple rules with the same match parameters will override each other and the rule with the highest priority will be applied.

Factors Enter factors that will be applied to a current rule.

Parameters must be listed with a semi-colon ";" as a delimiting symbol.

The list of parameters available for usage:

- volume_total, volume_billed, acd_std, acd_cur, pdd, scd, package_volume with a measurement unit specified in the service
- records_total, records_notzero, records_success, records_busy, records_nochannel, records_error with a measurement unit:
- cost_total, rate_avg with a measurement unit: money;
- asr_std, asr_cur with a measurement unit: percentage (%).

For example, if you enter total_volume > 100, it means that when the total event volume (e.g., call time) count for respective match parameters goes over 100 (here - minutes), the system will create an alert.

It's possible to add a factors watcher rule with negative values. For example, total_cost < -10.

Factors with a reference to the side-by-side reports:

You can adjust these factors on your own, using the next formula and pre-existing factors mentioned above: factors_name_1 - value for the first period; factors_name_2 - value for the second period; factors_name_diff - the difference between periods.

For example: total_cost_1 (of the 1st period), total_cost_2 (of the 2nd period), total_cost_diff (difference in %).



Users can add the Factors Watcher based on the side-by-side Summary Report. All you need to do is:

- o click the **New Factors Watcher** button;
- o fill in the Name field and others according to your needs;
- o specify intervals in the next fields: Analyze Interval of, Period Start and Period Offset,
- o click the Test Query button.

Action

An action that must be taken if a matched rule is found.

There are respective options: Alert, Block Code Name/Account/Client

When one of these options is applied, the message will be shown in the Events log section.



Attention

The Block Code Name/Client/Account options will be invisible if the Group By # field in factors watcher rule is empty. If you group by the Client, the Block Account option won't be visible in the drop-down list of the Action field.

Lock Period

Defines the lockout time in minutes for the analyzed route in case of a block action (0 value means infinite lockout)

Period Lock

If enabled, the rule will expire at the end of a period specified in the Analyze interval of field in the Watcher settings. Please note, that this option has a higher priority than the Expiration Date.

Expira tion Date

Specify the date when the rule must be automatically deleted

Attention

Please note that the set of rules in the Action field depends on how many parameters you defined in the Group by # field when a current query was

The Block Code option is available only if you set respective grouping in the factors watcher settings. For example, if you defined code in the query, you will be able to block codes in watcher rules, etc.