

Alaris MNP Server

Release notes

version 2.3.0

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1 What's new

Configurator

- The ability to configure LCR routing in the rules of the *Dipping rules* interface has been supported for more flexible selection of HLR sources. To use this feature, select *Enable LCR=Yes* (disabled by default) when configuring choices in the rule. If this setting is enabled, you can also choose not to fill in the list of HLR sources for the rule. In this case all possible sources (for which rates are loaded) will be used. Sources with the lowest price will have the highest priority in the list. Please note that the System searches for the lowest price regardless of the accuracy of the MCC or MCCMNC match (for example, if there is source 1 with price 0.1 for MCC 304 and source 2 with price 0.2 for MCCMNC 304001, where 304001 is a more accurate match for the number, source 1 will still be selected). If an exact list of HLR sources is specified in the rule and the LCR mode is enabled, the System will use sources from the list for which rates on the required MCCMNC exist.

The new *Import rates* interface has been added for uploading rates (available for users with the new *import_rates.read*, *import_rates.edit* permissions). It supports uploading files in xls, xlsx, and csv formats (with the separator - ;). The file must contain the following columns: *rate*, *mcc*, where *rate* supports numbers (including fractional ones), and *mcc* contains 3 digits. Also an optional column *mnc* can be used (possible values are up to 3 digits). Other columns will not be uploaded. When uploading the file, it is required to specify the HLR source in the web interface to which rates will be applied. MCC 777 (rest of the world) is supported for uploading. File example:

```
rate;mcc;mnc
```

```
0.5;301;002
```

```
0.2;322;01
```

The uploaded rates will be available in the *Import rates* interface. The user can delete all rates of a particular HLR source using the *Delete rates* button. Number (prefix) and MCCMNC matching is performed using the internal reference book. The MCC/MCCMNC for rate selection are defined by the longest match of the number from the e.212/e.164 reference book of Alaris SMS Platform.

- The *Currencies* and *Exchange rates* interfaces have been added (the *Settings* tab) to manage currencies and their exchange rates. The functionality comes instrumental when using LCR in dipping rules. The System currency is set with the help of Alaris technical support team. Exchange rates are set manually. New permissions have been added for interface management: *currencies.edit*, *currencies.read*, *rates.edit*, *rates.read*, *rates.edit.past*. It is possible to select currency for each source when creating it (if currency is not specified, the System currency is used).
- Only active products are now available in the *Client product* list (*Clients* interface) and *Product list* (*Dipping rules* interface).
- The logic of displaying the list of products in filters has been redesigned - now all selected products will be at the top of the list.
- Additional verifications have been added for the format entered in the following fields: *ENUM address list* (*Clients* interface, valid format is *IP address/mask*) and *IP address* (*Sources* interface, valid format is *IP address* (no protocol specified) or domain name with the protocol specified) fields.
- Support for regular expressions has been added for the *Sender ID list* field (*Dipping rules* interface). When added, regular expressions will be highlighted in blue. The System detects a regular expression by the ^ character opening the expression and \$ character closing it.

Possible options are:

- `^d*$` - any number of digits (0 or more)
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- $\backslash d+\$$ - one or more digits
- $\backslash d\{n\}\$$ - exact number of n digits
- $\backslash d\{m,n\}\$$ - from m to n digits

Combinations with alternatives are also supported, for example: $\backslash (574\backslash d\{7\}|565\backslash d\{8\})\$$ - the Sender ID is considered appropriate if it starts with 574 followed by exactly 7 digits, or with 565 followed by exactly 8 digits.

Please note that if both exact values and regular expressions are added within a single HLR rule, the exact values are searched first.

- Possibility has been added to select a single HLR source from the *Choice list* of HLR rules with a specified probability. By default, each choice is defined with a probability of 100%. To add a probability distribution, click the *New share* button, add an additional source and specify the probability for all added sources (the total probability must be 100%).
- The *Sender ID list* field (*Dipping rules* interface) now supports values containing dots.
- The new *About the App* menu has been added to user settings. The menu displays the installed version of the product and the time zone.
- The product ID is now displayed in brackets next to the product name in filters and in the fields *Client product* (*Clients* interface) and *Product list* (*Dipping rules* interface).
- The flag *Ignore mccmnc if ndpi false* has been added for the HLR source *xconnect*. When enabled, and if *ndpi=false*, the *HLR MCCMNC* will not be applied even if the HLR provider returned it.
- The fields *Number of attempts to request provider* and *Status request delay* (in milliseconds) have been added for HLR sources working with two-step requests.
- When filling out the *Add/Edit* form, parameters will not be reset when clicking outside of the form as it happened previously. Use the *Close* button to close the form.
- Filtering has been added to the *Users* and *Roles* interfaces.
- Case sensitive search has been removed for the following filters:

Clients interface:

- *Login*

Dipping rules interface:

- *Name*
- *Choice list*

Sources interface:

- *Name*
- *Type*

- The new *Direct dipping* interface has been added (with corresponding new permissions to access the interface, run the task and view the results). It serves for checking the operability of HLR sources through the HLR proxy. When creating a task, the user must select an HLR source (or several sources) and specify the number to be accessed. Multiple numbers must be separated by a line break (Enter key). Also, a file with a list of numbers can be uploaded. Task details can be accessed by clicking the *View* icon.
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- Search by the *Prefix list* field of the *Dipping rules* interface has been changed to exact match search (previously it was search by substring). Masks (through %) are allowed for substring search. Below are examples of acceptable values:
 - 34% - search for rules where the prefix starts with 34
 - %34 - search for rules where the prefix ends with 34
 - %34% - search for rules containing the prefix 34
 - 34%,1%2,86 - search for rules where the prefix starts with 34, or starts with 1 and ends with 2, or matches "86"

HLR Proxy 3 Adapter

- Parsing of the *ported* flag has been added for the *cequens* adapter, based on the value of the *status* field from the HLR service response. If *status=002*, the number is considered ported.
- The new HLR source *telesystems_enum* has been added.
- The new HLR source *telco_guard* has been added.
- Possibility has been added to fetch values for the internal *hlrResponseCode* metric from the *datafon_enum* HLR provider response field *gsm_error_code*. To do this, specify *gsm_error_code* in the *Response code source* field of the HLR source.
- For the *tyntec* adapter, the ability to obtain *hlrResponseCode* from the *presence* field has been added. This value must be specified in the *Response code source* field when configuring the source. By default (if the value is not filled in), *errorCode* is used.
- Parsing of *pres* field values to the internal *present* metric has been added for the *hgc2_enum* HLR source.
- Support for the Cequens HLR source over ENUM has been added.
- For *svyazcom* adapter, parsing of values from the *RES1*, *RES2* and *RES3* fields to the internal *hlrResponseCode* metric has been added. Values are separated by "/". For example, if the HLR vendor returned:

RES1:1
RES2:3
RES3:5

then *hlrResponseCode* will be written as *1/3/5*.
- The *bsg_new* adapter has been added to support the provider's new API.
- For the source *telesign_net* the parsing of the MNC part from response field *mnc_current* has been improved. If the field contains several values separated by semicolon (;), only the first value is taken.

2 Fixed issues

Configurator

- An error has been fixed that occurred when filtering by rule ID in the *Dipping rules* interface.
 - Incorrect display of applied filters has been fixed in the sidebar of the *Clients* and *Dipping rules* interfaces.
 - The *Login* and *Password* fields are now marked as optional if *Interfaces=ENUM* is selected for the client, as the fields are not currently used for authorization using this protocol.
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