Configuring the RESTifier for SAP

To configure the RESTifier for SAP, click the configuration icon in the top-right corner and select one of the menu entries. You can configure

- the SAP connection
- connection pooling
- performance options
- logging options
- a BAPI white list
- users and permissions

If you can't find the appropriate menu items or if you're missing the configuration icon at all, refer to section Configuring Users and Permissions.

Permissions

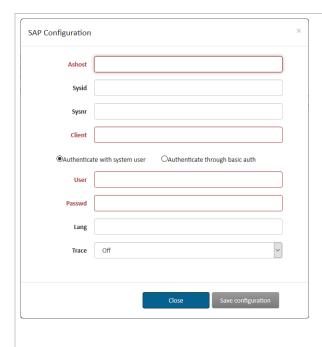
To use the RESTifier for SAP, the SAP user the RESTifier uses to access your SAP system must be allowed to execute the following RFCs (also see Configuring the SAP Connection below):

- BDL_FUNCTION_INTERFACE_GET
- DDIF_FIELDINFO_GETRFC_FUNCTION_SEARCH
- RFC_GET_FUNCTION_INTERFACE
- RFCPING
- SDIXML_FIELDINFO_GET

Configuring the SAP Connection

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Configure the standard SAP connection parameters here. In case of connection problems, double-check if the given values are correct. Fields marked red are obligatory. You cannot save the configuration without having set these values This dialog will also popup on every page load if the configuration is incomplete.

By selecting A uthenticate through basic auth, you can enable a mode that allows to pass SAP credentials with each request. This mode enabled, authentication is required for RFC execution and metadata. Pass these credentials via standard BasicAuth headers.

Trace Settings

You can set the following Trace values:

Name	SAP Value
Off	0
Brief	1
Verbose	2
Full	3

Please keep in mind, that high trace levels may produce very big log files. It's recommended to keep tracing off unless you're investigating problems. When trace is enabled, SAP libraries will generate a bunch of *.trc files in the working directory. The content varies depending on the trace level from overview of the API calls to hexadecimal dumps of the actual data being processed.

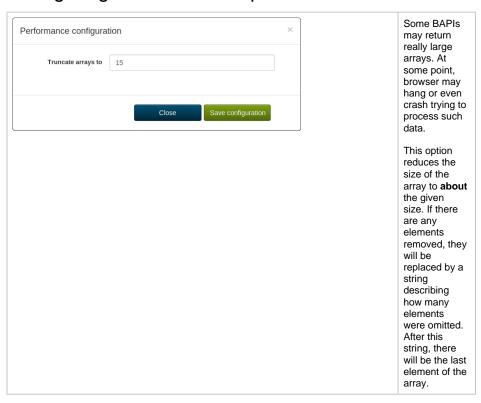
After changing the **Ashost** parameter, it's highly recommended to rebuild the search cache.

Configuring Connection Pooling



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Configuring Performance Options

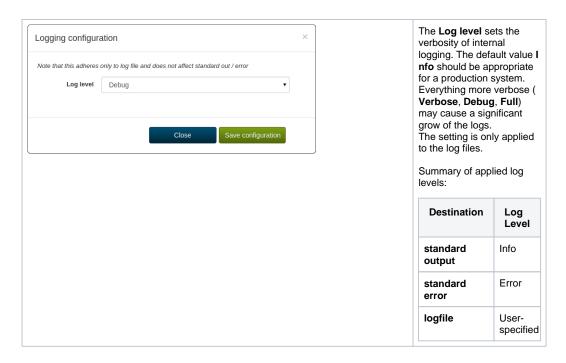


Rebuilding the Cache

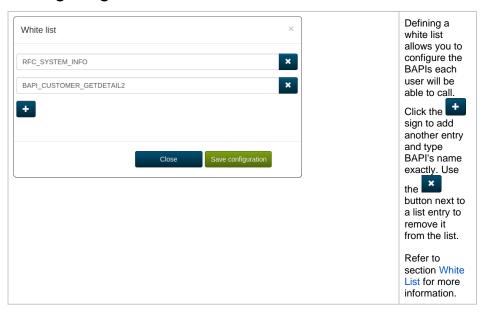
As interaction with SAP system is generally slow, the RESTifier uses caching to provide a real-time instant search. The drawback is that whenever you add or remove a BAPI from SAP system, you have to rebuild the RESTifier's cache. The procedure boils down to clicking **Rebuild cache** in the configuration menu of the RESTifier and can take up to several minutes depending on the speed of SAP system and the connection. It doesn't require restarting the service.

There's also a secondary cache managed by the SAP library which cannot be simply rebuild. That means a restart of the RESTifier may be required after altering BAPI's parameter list in order to pick the new metadata.

Configuring the Logging



Configuring a BAPI White List



Configuring Users and Permissions

The RESTifier can be used with the **E2E Auth Server** to provide application-level permission control. The user management is being done using E2E Auth Server's administration panel. The RESTifier then refers to the role a user has been assigned to.

Roles

There are two roles the RESTifier is aware of:

SapRestifier- Api	user having this role is allowed to search, get metadata for and execute all BAPIs
SapRestifier- Admin	user having this role can additionally modify RESTifier's configuration (has access to the /config API)

A user that has none of the above roles and an anonymous user can search and get metadata for all BAPIs, but can only execute the white listed ones.

White List

The set of BAPIs that can be executed by any (including anonymous) user is called the white list. To configure it, you have to have user support already turned on. As a user with **SapRestifier-Admin** role use the menu entry **White list** to compose a list of BAPIs you want to allow for anyone to call. Trying to call a BAPI from outside the list will result in a 401 HTTP response.

Enabling User Support

By default user support is turned off, meaning that everyone can do anything. To have better control you may want to enable it. To avoid a chicken-egg problem, the settings are not exposed in the UI. We strongly recommend using the BRIDGE to change those settings, although they can be edited with any text editor (please refer to config/default/config.json and copy and edit the "e2eAuth" section of configuration).

Menu

The menu differs depending on the logged-in user and user control configuration. Except for **Documentat ion** and **Rebuild cache**, all menu entries open a corresponding setting dialog (see top of the page for more information).

