Adapting the Configuration of Containerized xUML Services

ⓘ This option is only available for type **xuml-service** (= containerized xUML services).

The administration application allows you to change the configuration of a containerized xUML service.

The administration application allows you to change the configuration of a Docker container.

You have two options to open the configuration of a container:

- Click **Edit configuration** ⚙ in the quick actions bar in the services' list.

- Open the details page of the service and scroll down to section **Configuration**.

In the **Configuration** section you can directly modify xUML service settings. When you save your changes, the container will be re-created and restarted. Changes are possible after the first deployment of the containerized service.

You can change the **Current Value** of a service setting.

The **Default Value** is displayed next to the current value.
If you want to reset the setting to its default, click **Reset** .

Click **Save** after you have completed your changed.

⚠ **Please note:**

- **Save** is only enabled when changes have been made.

- Clicking **Save** triggers a restart, changes in the **Configuration** section are directly applied to the service.

Service settings can be erroneous if a setting name contains special characters or whitespaces. Invalid service settings are marked ⚠. Their number is also displayed on top right of the list.

If a service setting is erroneous, you cannot change its current value.

In case that your service contains erroneous settings, you can do the following:

- If it is a setting in a Designer service ("custom value"): Open the service in the Designer, correct the settings' name and redeploy the service.
- If it is a setting in a platform service, please contact our support team.
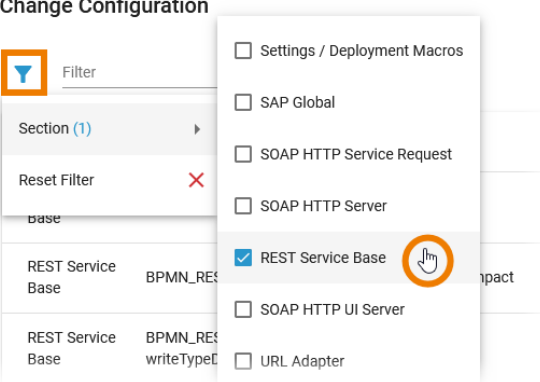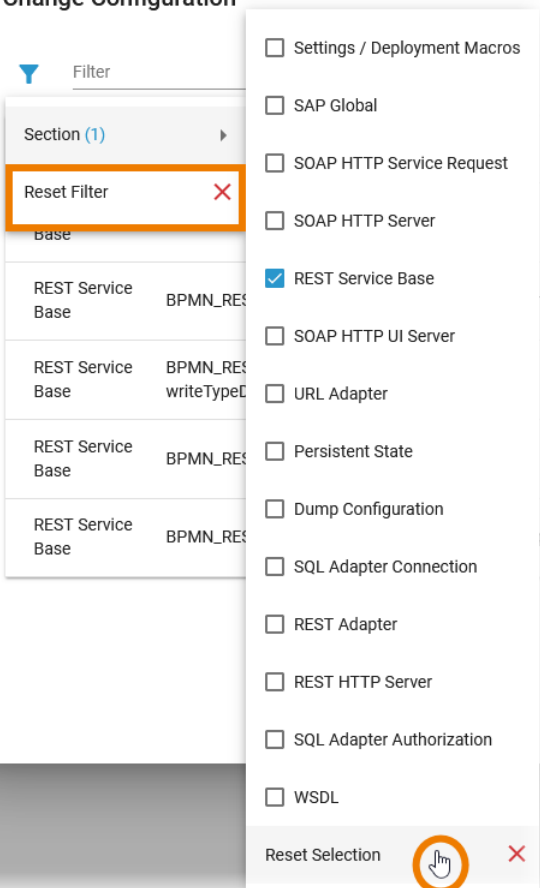
As there are many available settings, use the filter field to search for the setting you want to modify.

The content of the filter field is applied to the columns **Section** and **Key**.

Click **Extended filter** to display the extended filter options:

- **Section**
- **Reset Filter**

If a filter is applied, the extended filter changes to .

In the main filter window, you can reset all selected filters. Click **Reset Filter**.

In the filter option window, you can also reset the selection.

xUML Service Settings

> ⚠ You can modify settings of a service no matter if the service is running or if it has been stopped. Saving the changes triggers a re-create and restart of the container. Changing the settings on a stopped service will start the service. Settings will be stored, so if you stop the service and restart it, the settings are restored.
>
> **If you delete a service, all settings are lost and cannot be recovered.**

Settings / Deployment Macros

Setting	Description	Allowed Values	
Service Composite			
getCompositeCategory	Value returned by Action Language macro getCompositeCategory(). Initial value of this setting is the category specified in the service details (see Managing the Service Details). You can change this value here.	any string	
getCompositeName	Value returned by Action Language macro getCompositeName(). Initial value of this setting is the service name. You can change this value here.	any string	
getCompositeVersion	Value returned by Action Language macro getCompositeVersion(). Initial value of this setting is the service version in the service details (see Managing the Service Details). You can change this value here.	a version string	
PAS Platform			
AuthenticatorEnabled	Specify whether users are allowed to identify themselves using an **x-pas-user** header instead of a **bearer token**. ⚠ For compatibility reasons **true** (x-pas-header allowed) is the default option but this is deprecated and may lead to security issues. If you do not rely on the **x-pas-header**, we recommend setting this option to **false**.	**true**	Allow using an **x-pas-header** or a **bearer token** for authentication (default).
		false	Authentication only by **bearer token**.
AuthService::minimalAccessTokenLifeSpan	Define when a refresh token should be triggered. Default is **30** (if the token last less than 30 seconds it will be refreshed before it is used). ⓘ In general there is no need to change the default of 30 seconds.	any integer	
KeycloakInstance::clientId	Specify the clientId to use when authenticating the service. Default is **keycloak-clientId**. ⓘ The clientId is defined in Keycloak, it should be changed in production to define specific authorization for this service.	any string	
KeycloakInstance::clientSecret	Specify the clientSecret associated to the clientId. Default is **keycloak-clientSecret**. ⓘ The clientSecret is defined in Keycloak, it should be changed in production to define specific authorization for this service.	any string	
KeycloakAlias:Location:host	Specify the hostname (domain) of the Keycloak SSO system. Default is **keycloak-host**.	any string	
KeycloakAlias:Location:basePath	Specify the subpath of the Keycloak system. Default is **keycloak-basePath**.	any string	
KeycloakAlias:Location:port	Specify the port of the Keycloak system. Default cannot be changed.	8080	
KeycloakAlias:Location:protocol	Specify the protocol of the Keycloak system. Default cannot be changed.	http	
PasSecurityService::allowAnonymous	Specify whether anonymous users (no PAS users) should be allowed to send requests to the PAS BPMN service. In contrast to anonymous users, PAS users are identified by a bearer token or x-pas-user header). If this setting is set to **false**, requests of unauthenticated users will return HTTP error 401. ⓘ This setting does not disable any role configuration within the BPMN. If there are lanes configured in the BPMN, the service can only be accessed by authenticated users.	**true**	Allow anonymous access (default).

			fa lse	Access for identified users only.
Service				
<service settings>	In your Designer service, you can define name-value pairs using the [set ting macro](#) in an implementation. These values can be modified here.			

Adapter Settings

Each xUML service adapter has its own settings that are initialized in the xUML model and can be changed in the configuration.

If you are running an xUML service that is connecting to a database backend, you can modify the tagged values of the database interface respectively dependency. Before starting a deployed xUML service that connects to a database backend, you may want to redefine required database parameters.

Generally, most of the add-on settings that are related to an xUML Service Adapter have a corresponding tagged value in the component diagram. Refer to the [documentation of the corresponding adapter](#) for these settings.

Other

Find below a list of other add-on settings and their description. For the sake of completeness, we also mentioned settings coming from the model for some setting groups (see column **Specified in Model on**).

Settings Group	Setting	Specified in Model on	Description	Allowed Values	
Dump Configurati on	Caught Error Code		Only dump errors with the specified code.Specify a Bridge user defined error code. This setting takes no effect if **Dump not Caught Errors**/**Dump Context on Error** is disabled.	a string	
	Caught Error Domain		Only dump errors of the specified error domain. Specify a Bridge user defined error domain. This setting takes no effect if **Dump not Caught Errors**/**Dump Context on Error** is disabled.	a string	
	Dump Caught Errors: enabled		Enable/Disable writing an error dump file for errors that have been caught in the xUML service model. This setting takes no effect if **Dump not Caught Errors**/**Dump Context on Error** is disabled.	true	Create a service dump for caught errors.
				fal se	Disable service dump for caught errors (def ault).
	Dump not Caught Errors: enabled		Enable/Disable writing an error dump file at all. This setting corresponds to the xUML service preference **Dump Context on Error** (refer to [Integration Platform User's Guide > Preferences of an xUML Service](#)).	**true**	Create a service dump for not caught errors (default).
				fal se	Disable service dump for not caught errors. This disables error dump at all.

Persistent State	Owner		Change the name of the persistent state object owner here. Each persistent state object is owned by a persistent state engine. If you change the owner setting, all subsequently created persistent state objects will belong to the new owner. ⚠ All existing persistent state objects of the old owner will not been processed anymore by this service as they belong to a different owner now.		
	Worker Limit	Composite	Specify the worker limit. **Workers** defines the maximum number of parallel threads used to process pending events. The default setting is 5, which is used if none or 0 workers are configured. The implications of more or less workers are discussed in xUML Service Reference Guide > Performance Considerations of Persistent State .		
REST Service HTTP Server	Descriptor: Cache Control: value		Specify the Browser caching options for the YAML file by setting a value for HTTP header `Cache-Control`. For more information on this header, refer to Cache-Control on the Mozilla pages.		
	Test Tool: Cache Control: value		Specify the Browser caching options for the Swagger UI by setting a value for HTTP header `Cache-Control`. For more information on this header, refer to Cache-Control on the Mozilla pages.		
REST Service Base	<your service name>: enabled		Switch the service port on / off. When the service port is deactivated, it will not accept any request anymore.	**true**	Service port is active (default).
				false	Service port is deactivated.
	<your service name>: JSONComposerOptions: compact	REST Service	Specify the JSON compose option for the REST request/response. When **jsonCompact** is true, the JSON composer will generate compact JSON, otherwise it will generate pretty JSON. **jsonCompact** defaults to true - also on re-compile of an older model with Builder as of 7.0.0-beta3.	**true**	Generate compact JSON (default).
				false	Generate pretty JSON.
	<your service name>: JSONComposerOptions: keepNulls	REST Service	Specify the JSON compose option for the REST request/response. When **jsonKeepNulls** is true, attributes of the REST response object having NULL values will be rendered to the REST response, otherwise they will be left out completely (refer to xUML Service Reference Guide > NULL Values).	true	Render attributes with NULL values to the REST call.
				false	Leave out attributes with NULL values in the REST call (default).
	<your service name>: Maximum Connections:		Change the maximum number of parallel requests to the service port.		
	<your service name>: Port		Change the port the xUML service listens to. The original value comes from the SOAP service component.	a valid port number	

	<your service name>: ResolveHostnames		Define whether the host name is logged to the service logs instead of the IP address.	**true**	Resolve the IP address to the hostname in the service logs (default).
				false	Write the IP address to the service logs.
SOAP HTTP Server	Allow Tracing		Switching tracing on / off. All xUML services are compiled with tracing enabled. This option allows you to turn off the tracing, so that no trace information is returned by the Bridge when a service is called.	**true**	The Runtime returns tracing information on request (default).
				false	The Runtime does not return tracing information.
	Maximum Connections		Change the maximum number of parallel requests to the service port.		
	ResolveHostnames		Define whether the host name is logged to the service logs instead of the IP address.	**true**	Resolve the IP address to the hostname in the service logs (default).
				false	Write the IP address to the service logs.
	<your service name>Port		Change the port the xUML service listens to. The original value comes from the SOAP service component.	a valid port number	
SOAP HTTP Server Request	<your service name>: <your port type>: enabled		Switch the service port on / off. When the service port is deactivated, it will not accept any request anymore.	**true**	Service port is active (default).
				false	Service port is deactivated.
	<your service name>: <your port type>: URI	Component diagram	Change the service URI. The default value comes from the component diagram of the xUML service.		
SOAP HTTP UI Server	Library Cache Control: value		Specify the Browser caching options for the UI files (HTML, CSS, ...) by setting a value for HTTP header `Cache-Control`. For more information on this header, refer to Cache-Control on the Mozilla pages.		

WSDL: <your service name>	WSDL: <your service name> host		Specify the host name of the server for the xUML service WSDL.	`${ server _h os tn am e}`	Name of the Bridge node instance the service is deployed to.
				`a full y qu alif ied sy ste m na me`	

Expert Mode

Use the checkbox **Expert Mode** to display further options:

Option	Description
RAM	Use the slider to increase or decrease the RAM of a service. This option allows you to avoid that one service can comsume all resources. Default is 256 MB, the RAM maximum is 4 GB. You can change the RAM in steps of 64 MB.
Name	If you want to set xUML service settings for containerized services from the outside using the xuml-tool, you will need the **Name** (= *friendly Id*) as the environment variable. Refer to Integration Platform User's Guide > xUML Runtime Tool for details.