xUML Runtime API Reference

Bridge 7 Find below a list of resources that can be accessed via the xUML Runtime API. All resources refer to base path /api.

xUML Service

Resource	Method	Description	API Version	Runtime Version
/isAlive	GET	Check if the xUML service is ready. A success HTTP code indicated readiness, an error HTTP code indicates startup still in progress.	1.2.0	Runtime 2021.6
/hooks/shutdown /fire	PUT	Fire the service shutdown activity.	1.1.0	Runtime 2020.13
/hooks/startup /fire	PUT	Fire the service startup activity.	1.1.0	Runtime 2020.13
/scheduler/events/ {schedulerName} /fire	PUT	Fire the scheduler event (without checking the conditions).	1.1.0	Runtime 2020.13
/timer/events/ {timerName}/fire	PUT	Fire the timer event (without checking the conditions).	1.1.0	Runtime 2020.13
/timer/events/ {eventObserverActi vity}/fire	PUT	Fire the event (without checking the conditions).	1.1.0	Runtime 2020.13
/pstate/engine	GET	Check if the xUML service uses persistent state and get general information on the persistent state configuration.	1.0.0	Runtime 2019.5
/status	GET	Get the status of the persistent state server.	1.0.0	Runtime 2019.5
/stop	PUT	Stop the running xUML service.	1.0.0	Runtime 2019.5

Logging

Resource	Method	Description	API Version	Runtime Version
/log/channels/	GET	List all configured log channels.	1.1.0	Runtime 2020.1
/log/channels/{channel}/sinks	GET	List all configured sinks of a channel.	1.1.0	Runtime 2020.1
/log/channels/{channel}/sinks/ {sink}/filters	PUT	Replace all filters of the given sink.	1.1.0	Runtime 2020.1
/log/channels/{channel}/sinks/ {sink}/filters/	GET	List filters on a given sink.	1.1.0	Runtime 2020.1
/log/channels/{channel}/sinks/ {sink}/filters/	POST	Create a new filter.	1.1.0	Runtime 2020.1
<pre>/log/channels/{channel}/sinks/ {sink}/filters/{filterNum}</pre>	DELETE	Remove the filter with the given number.	1.1.0	Runtime 2020.1
/log/channels/{channel}/sinks/ {sink}/filters/{filterNum}	GET	Retrieve the filter with the given number from the given sink.	1.1.0	Runtime 2020.1
/log/channels/{channel}/sinks/ {sink}/filters/{filterNum}	PUT	Change the filter with the given number.	1.1.0	Runtime 2020.1

Persistent State

The **Persistent State Control Adapter** gives access to persistent state metadata directly from within a service (self context). The same data can be retrieved using the **xUML Runtime API**.

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Related Pages:

- Retrieving Persistent State Metadata with the PersistentStateControl Adapter
- Bridge API

If you want to retrieve metadata of persistent state of the very same service, always use the Persiste nt State Control Adapter.

If you want to retrieve data from other services, use the xUML Runtime API.

Persistent State Classes

Resource	Method	Description	API Version	Runtime Version
/pstate/classes/	GET	List all available persistent state classes.	1.0.0	Runtime 2019.5
/pstate/classes/ {class}	GET	Get the persistent state object/state counters for a given class.	1.0.0	Runtime 2019.5
/pstate/classes/ {class}/meta	GET	Get the persistent state metadata of a given class.	1.0.0	Runtime 2019.5

Persistent State Objects

Resource	Method	Description	API Version	Runtime Version
/pstate/objects/ {objectId}	GET	Get the metadata of a given persistent state object. The object is identified by its ID.	1.0.0	Runtime 2019.5
	DELETE	Delete a persistent state object by its ID.	1.0.0	Runtime 2019.5
/pstate/objects/ {objectId}/events	GET	Get all pending events of a persistent state object. The object is identified by its ID.	1.0.0	Runtime 2019.5
<pre>/pstate/objects/ {objectId}/signals /completion</pre>	POST	Send a completion signal to a persistent state object. The object is identified by its ID and the state it is stalled in.	1.0.0	Runtime 2019.5
/pstate/objects/ {objectId}/states	GET	Get all states a persistent state object is in and possible transitions. The object is identified by its ID.	1.0.0	Runtime 2019.5
/pstate /queryObjects	POST	Globally, find persistent state objects matching the search criteria given by parameter.	1.0.0	Runtime 2019.5

Persistent State Objects of <class name>

Resource	Method	Description	API Version	Runtime Version
/pstate/classes/ <class name=""> /object</class>	GET	Find a persistent state object of a given class by its primary key.	1.0.0	Runtime 2019.5
/pstate/classes/ <class name=""> /objects/{objectId}</class>	GET	Get the details of a persistent state object of a given class by its object ID.	1.0.0	Runtime 2019.5
/pstate/classes/ <class name="">/ objects/{objectId}/signals /<signal name=""></signal></class>	POST	Send the given signal to a persistent state object. The object is identified by its ID.	1.0.0	Runtime 2019.5
/pstate/classes/ <class name=""> /queryObjects</class>	POST	Find all persistent state objects matching the search criteria given by parameter.	1.0.0	Runtime 2019.5

Persistent State Owners

Resource	Method	Description	API Version	Runtime Version
/pstate /owners/	GET	Get a list of all persistent state owners and some details on the xUML services and objects they own.	1.0.0	Runtime 2019.5

Peristent State Events

Resource	Method	Description	API Version	Runtime Version
<pre>/pstate/events/ {eventId}</pre>	GET	Get the details of a given persistent state event.	1.0.0	Runtime 2019.5

Asynchronous Tracing

The API of asynchronous tracing allows to manage the trace settings and trace data of a service.

- A classifier in this context is a model element that can be traced.
- An identifier in this context identifies the recorded trace data.

You can clear all tracing of a service by performing

- 1. DELETE on $\mbox{\tt /trace/configurations/}$ to remove all active traces.
- 2. DELETE on /trace/identifiers/ to remove all trace data.

Resource	Method	Description	API Version	Runtime Version
/trace/configurations/	GET	List all asynchronous trace configurations of this service.	1.1.0	Runtime 2020.14
/trace/configurations/	POST	Insert a new asynchronous trace configuration to this service.	1.1.0	Runtime 2020.14
/trace/configurations/	DELETE	Remove all asynchronous trace configurations for this service.	1.1.0	Runtime 2020.14
/trace/configurations/ {classifier}	GET	List all asynchronous trace configurations for the given classifier.	1.1.0	Runtime 2020.14
/trace/configurations/ {classifier}	PUT	Replace the asynchronous trace configuration of the given classifier.	1.1.0	Runtime 2020.14
/trace/configurations/ {classifier}	DELETE	Remove all asynchronous trace configurations for the given classifier.	1.1.0	Runtime 2020.14
/trace/configurations/ {classifier} /identifiers/	GET	List all available trace identifiers of the the given classifier.	1.1.0	Runtime 2020.14
/trace/configurations/ {classifier} /identifiers/	DELETE	Remove all trace identifiers of the the given classifier.	1.1.0	Runtime 2020.14
/trace/configurations/ {classifier} /identifiers/{id}	DELETE	Remove the trace identifier with the given ID within the the given classifier.	1.1.0	Runtime 2020.14
/trace/configurations/ {classifier} /identifiers/{id}/raw	GET	Get the tracing data of the identifier with the given ID within the the given classifier as stored internally (raw data).	1.1.0	Runtime 2020.14
/trace/identifiers/	GET	List all asynchronous trace identifiers of the service.	1.1.0	Runtime 2020.14
/trace/identifiers/	DELETE	Remove all asynchronous trace identifiers of the service.	1.1.0	Runtime 2020.14