

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
<code>/isAlive</code>	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
<code>/hooks/shutdown/fire</code>	PUT	Fire the service shutdown activity.	1.1.0	Runtime 2020.13
<code>/hooks/startup/fire</code>	PUT	Fire the service startup activity.	1.1.0	Runtime 2020.13
<code>/scheduler/events/{schedulerName}/fire</code>	PUT	Fire the scheduler event (without checking the conditions).	1.1.0	Runtime 2020.13
<code>/timer/events/{timerName}/fire</code>	PUT	Fire the timer event (without checking the conditions).	1.1.0	Runtime 2020.13
<code>/timer/events/{eventObserverActivity}/fire</code>	PUT	Fire the event (without checking the conditions).	1.1.0	Runtime 2020.13
<code>/pstate/engine</code>	GET	Check if the xUML service uses persistent state and get general information on the persistent state configuration.	1.0.0	Runtime 2019.5
<code>/status</code>	GET	Get the status of the persistent state server.	1.0.0	Runtime 2019.5
<code>/stop</code>	PUT	Stop the running xUML service.	1.0.0	Runtime 2019.5

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Logging

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

Persistent State

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
/pstate/objects/{objectId}/signals/completion	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	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}	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>	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	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

Persistent State Events

Resource	Method	Description	API Version	Runtime Version
/pstate/events/{eventId}	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 `/trace/configurations/` to remove all active traces.
2. DELETE on `/trace/identifiers/` to remove all trace data.

Resource	Method	Description	API Version	Runtime Version
<code>/trace/configurations/</code>	GET	List all asynchronous trace configurations of this service.	1.1.0	Runtime 2020.14
<code>/trace/configurations/</code>	POST	Insert a new asynchronous trace configuration to this service.	1.1.0	Runtime 2020.14
<code>/trace/configurations/</code>	DELETE	Remove all asynchronous trace configurations for this service.	1.1.0	Runtime 2020.14
<code>/trace/configurations/{classifier}</code>	GET	List all asynchronous trace configurations for the given classifier.	1.1.0	Runtime 2020.14
<code>/trace/configurations/{classifier}</code>	PUT	Replace the asynchronous trace configuration of the given classifier.	1.1.0	Runtime 2020.14
<code>/trace/configurations/{classifier}</code>	DELETE	Remove all asynchronous trace configurations for the given classifier.	1.1.0	Runtime 2020.14
<code>/trace/configurations/{classifier}/identifiers/</code>	GET	List all available trace identifiers of the the given classifier.	1.1.0	Runtime 2020.14
<code>/trace/configurations/{classifier}/identifiers/</code>	DELETE	Remove all trace identifiers of the the given classifier.	1.1.0	Runtime 2020.14
<code>/trace/configurations/{classifier}/identifiers/{id}</code>	DELETE	Remove the trace identifier with the given ID within the the given classifier.	1.1.0	Runtime 2020.14
<code>/trace/configurations/{classifier}/identifiers/{id}/raw</code>	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
<code>/trace/identifiers/</code>	GET	List all asynchronous trace identifiers of the service.	1.1.0	Runtime 2020.14
<code>/trace/identifiers/</code>	DELETE	Remove all asynchronous trace identifiers of the service.	1.1.0	Runtime 2020.14