xUML Service Transaction Log

You can use the information that is logged to the transaction log for performance measurements or statistical evaluations (for instance, how often the transaction has been called, in which context, etc.). There is one log file per day or one per hour – depending on what has been configured in the transaction log rotation interval of the service preferences (see Preferences of an xUML Service). The amount of data that is logged depends on the selected transaction log level (see Transaction Log Levels).

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UML Service	Docum	intat	ion History	Logging	Dump	Settings	Version Pe	rsistent State Sta	atus	
xUML Se	rvice Lo	gs								
Search for	η	pe	transaction v	log level	10	~ from	2018-10-05 10:08	00 📰 10	View Download	Auto Refresh in 6
iec.										
show 20 v	entries									
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2019-01-07 14:03:36	00000	15	Services.Supp	ortC 0	OK	PSTATE	TRANSITION_EXIT	Leave_Support_Case	Lis 0000000e28325cf00000418c0	
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2019-01-07 13:05:07		8	um:Services.S	app 0	ок	INTERFACE	SERVICE_ENTER	anonymous	1700xdefe:	
2019-01-07 13:03:43		7	um:Services.S	арр., 1	ок	INTERFACE	SERVICE_EXIT	anonymous	1700x8bf3::	
2019-01-07 13:03:43		7	um:Services.S	app 1	ок	INTERFACE	SERVICE_ENTER	anonymous	1700:dbf3::	
2019-01-07	60000	6	um:Services.S	app 3	ок	INTERFACE	SERVICE, EXIT	anonymous	1700:dbdd:	
2019-01-07	00000.	6	Services.Supp	1 010	OK	PSTATE	IO.EXIT	Create	000000026325/00000418/0	

How to search the logfiles is explained in detail on Logging of xUML Services.

The transaction log contains the following information:

Field	Description		Example		
Date	Date when request was received.	Fields Date and Time are set automatically for system messages. Custom log messages written with the Log Adapter or the r	2018-06-06		
Time	Time when request was received.	eport() Function can contain a custom timestamp. This may result in log messages that are not sequential.	08:02:45		
Time Zone	Time zone offse	t	+0200		
Transa ction ID		transaction. It is used to trace service calls through the call saction ID). The transaction log contains the first 40 e transaction ID.	00000002d3b0bdc000 0069ce00ff9700ea65 376f		
Reques t ID	Unique ID of req	101			
Compo nent Name	Name of composition service).	urn:Services. SupportCase. SupportAPI. supportcases.GET			
Elapse d Time	Elapsed time, fo milliseconds.	36			
	If the elapsed tin millisecond of tin				
	 before SER readi parsii after SERV creat sendi 				
State	State is either O	OK			
Domain	 If an adapt denoting th , URL, etc. If a service If a log ent value was 	INTERFACE			

On this Page: Transaction ID **Related Pages:** • Transaction Log Levels • Contents of the **Transaction Log** Preferences of an xUML

- Service • report() Function
- Log Adapter

Log Type	 SERVICE_ENTER or SERVICE_EXIT marks the begin/end of a service call. TRANSITION_ENTER or TRANSITION_EXIT marks the begin/end of persistent state transition handling. DOACTION_ENTRY or DOACTION_EXIT marks the begin/end of a persistent state do activity. IO_ENTER or IO_EXIT marks the begin/end of an IO operation, like e. g. an adapter call. If the logger adapter triggered the log entry, the value is CUSTOM. 	SERVICE_EXIT		
Parame ter 1 and 2	 Parameters, for instance, if the file system adapter has been called, the first parameter corresponds to the executed action (e.g. ReadDirectory) and the second one to the specified file. If the logger adapter triggered the log entry, the first parameter corresponds to the description defined as input for the adapter in the UML model. 	anonymous 2.0.232.75		
Correla tion ID	 Unique ID that relate an adapter call with the adapter response. The transaction log contains the first 40 characters of the correlation ID. A correlation ID is available for the following: adapters sending a correlation ID: SOAP, URL, SMTP, SAPRFC, Persistent State, JMS services receiving a correlation ID: SOAP, HTTP, SAP, JMS Listener For more information refer to the adapter pages. 	00000011e33a4f8400 004fc4000043ac9bc6 9bee		

Usually, you will not analyze the transaction log within the Bridge, but download the log file. Then you can have a look at it either in Excel ...

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1	Date	Time	Time Zone	Transaction	Request ID	Component	Elapsed Tim	State	Domain	Log Type	Parameter 1	Parameter 2	Correlation ID	
2	27.05.2014	09:13:14	200		5	i um:Services	0	OK	INTERFACE	SERVICE_EN	anonymous	120.110.120.2	202	
3	27.05.2014	09:13:14	200	000000053c8	5	um:Services	0	ОК	INTERFACE	SERVICE_EXI	anonymous	120.110.120.3	202	
4	27.05.2014	09:13:17	200		6	i um:Services	0	OK	INTERFACE	SERVICE_EN	anonymous	120.110.120.2	202	
5	27.05.2014	09:13:17	200	00000063c8	6	um:Services	0	ОК	INTERFACE	SERVICE_EXI	anonymous	120.110.120.3	202	
6														
		transaction	2014-05-27	÷					E 4					Þ

... or analyze it with the Analyzer.

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Transaction ID

The Transaction ID identifies a transaction. It is a unique number used to trace service calls through the call stack of multiple service calls.

- Runtime 2019.9 Clients calling a service running on the Bridge can provide a transaction ID in HTTP header X-Transaction-ID or xTransactionId (in JMS context).
 SOAP clients can also use the SOAP headers to provide a transaction ID.
- ٠ If an xUML service is called without providing a transaction ID, the xUML Runtime will generate such an ID.

This ID will be passed on through the call stack of the xUML service, so that the whole transaction can be traced. This can be useful, when analyzing the log file in case of error.

In the Analyzer, the transaction log will be sorted by transaction ID. You can expand the tree of a transaction ID to inspect the sequence diagram of this transaction in the panel on the right.



While modeling services with MagicDraw and Builder, you have access to the received transaction ID (get TransactionID() Function) and you can pass it on in your service model.