

# Contents of the Transaction Log

## Structure of the Transaction Log

The transaction log contains the following information:

| Field                    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Example                                              |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>Date</b>              | Date when request was received.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2018-06-06                                           |
| <b>Time</b>              | Time when request was received.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 08:02:45                                             |
| <b>Time Zone</b>         | Time zone offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | +0200                                                |
| <b>Transaction ID</b>    | Unique ID of the transaction. It is used to trace service calls through the call stack (see <a href="#">Transaction ID</a> ). The transaction log contains the first 40 characters of the transaction ID.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 00000002d3b0bdc0000069ce00ff9700ea65376f             |
| <b>Request ID</b>        | Unique ID of request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 101                                                  |
| <b>Component Name</b>    | Name of component that has been requested (not the name of the xUML service).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | urn:Services.SupportCase.SupportAPI.supportcases.GET |
| <b>Elapsed Time</b>      | <p>Elapsed time, for each call (service calls, external or internal calls) in milliseconds.</p> <p>If the elapsed time is displayed as "0", the logged step has taken below 1 millisecond of time. The value of <b>elapsed time</b> does not contain:</p> <ul style="list-style-type: none"><li>• before <b>SERVICE_ENTER</b><ul style="list-style-type: none"><li>◦ reading the request data from the network</li><li>◦ parsing the request body (e.g. SOAP)</li></ul></li><li>• after <b>SERVICE_EXIT</b><ul style="list-style-type: none"><li>◦ creating the response (e.g. SOAP)</li><li>◦ sending the response to the client</li></ul></li></ul> | 36                                                   |
| <b>State</b>             | State is either <b>OK</b> or <b>ERROR</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | OK                                                   |
| <b>Domain</b>            | <ul style="list-style-type: none"><li>• If an adapter has been called, the domain fields contains a value denoting the adapter, for instance <b>SAPRFC</b>, <b>SQL</b>, <b>FILE</b>, <b>SYSAD</b>, <b>POP3</b>, <b>URL</b>, etc.</li><li>• If a service operation has been called, the value is <b>INTERFACE</b>.</li><li>• If a log entry has been triggered by the user via the logger adapter, the value was defined in the UML model.</li></ul>                                                                                                                                                                                                   | INTERFACE                                            |
| <b>Log Type</b>          | <ul style="list-style-type: none"><li>• <b>SERVICE_ENTER</b> or <b>SERVICE_EXIT</b> marks the begin/end of a service call.</li><li>• <b>TRANSITION_ENTER</b> or <b>TRANSITION_EXIT</b> marks the begin/end of persistent state transition handling.</li><li>• <b>DOACTION_ENTRY</b> or <b>DOACTION_EXIT</b> marks the begin/end of a persistent state do activity.</li><li>• <b>IO_ENTER</b> or <b>IO_EXIT</b> marks the begin/end of an IO operation, like e.g. an adapter call.</li><li>• If the logger adapter triggered the log entry, the value is <b>CUSTOM</b>.</li></ul>                                                                      | <b>SERVICE_EXIT</b>                                  |
| <b>Parameter 1 and 2</b> | <ul style="list-style-type: none"><li>• Parameters, for instance, if the file system adapter has been called, the first parameter corresponds to the executed action (e.g. <b>ReadDirectory</b>) and the second one to the specified file.</li><li>• 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.</li></ul>                                                                                                                                                                                                                                   | anonymous<br>2.0.232.75                              |

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### Related Pages:

- [xUML Service Transaction Log](#)

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <b>Correlation ID</b> | <p>Unique ID that relate an adapter call with the adapter response. The transaction log contains the first 40 characters of the correlation ID.</p> <p>A correlation ID is available for the following:</p> <ul style="list-style-type: none"> <li>• <b>adapters sending a correlation ID:</b> SOAP, URL, SMTP, SAPRFC, Persistent State, JMS</li> <li>• <b>services receiving a correlation ID:</b> SOAP, HTTP, SAP, JMS Listener</li> </ul> <p>For more information refer to the <a href="#">adapter pages</a>.</p> | <p>00000011e33a4f8400<br/>004fc4000043ac9bc6<br/>9bee</p> |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|

## Log Levels

The following transaction log levels can be set for each selected xUML service. The higher the log level the more information will be written to the log files. The log levels in the table below are cumulative and are ordered from the lowest to the highest log level. For each log level, also the information of the lower levels is logged. How to view the log is described in [xUML Service Transaction Log](#).

| Log Level  | Log Types Logged                                                                                                                         | Description                                                                                                                                                                                                                                         |
|------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| None       |                                                                                                                                          | No logging executed.                                                                                                                                                                                                                                |
| Custom     | CUSTOM                                                                                                                                   | Logs everything that is written by the logger adapter (for more details, see <a href="#">Log Adapter</a> ).                                                                                                                                         |
| Service    | CUSTOM<br>SERVICE_ENTER<br>SERVICE_EXIT<br>TRANSITION_ENTER<br>TRANSITION_EXIT<br>DOACTION_ENTER<br>DOACTION_EXIT                        | Additionally logs the start and the end of calls to a service operation (service interface). For example, calls to SOAP, SAPRFC, or HTTP operations.                                                                                                |
| IOExternal | CUSTOM<br>SERVICE_ENTER<br>SERVICE_EXIT<br>TRANSITION_ENTER<br>TRANSITION_EXIT<br>DOACTION_ENTER<br>DOACTION_EXIT<br>IO_ENTER<br>IO_EXIT | Additionally logs calls of adapters that communicate with external systems like SAP, SQL, SOAP, etc. For instance, the SQL queries that are sent to the database will be logged as well. Calls via the file system and system adapter are excluded. |

|                   |                                                                                                                                                                              |                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>IOInternal</b> | CUSTOM<br>SERVICE<br>_ENTER<br>SERVICE<br>_EXIT<br>TRANSITI<br>ON_ENT<br>ER<br>TRANSITI<br>ON_EXIT<br>DOACTIO<br>N_ENTER<br><br>DOACTIO<br>N_EXIT<br>IO_ENTER<br><br>IO_EXIT | Additionally logs also calls of adapters to internal (local) resources (file system adapter and system adapter). |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|

## Transaction Log Domains

Each adapter logs to a dedicated domain:

| Adapter                                     | Adapter Stereotype                                                                                       | Domain                                                         | Documentation Link                                                  |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|
| Log entries that concern the service itself |                                                                                                          | INTERFACE                                                      |                                                                     |
| Conversation                                | <<E2ESendSignalAction>><br><<E2EAcceptEventAction>>                                                      | CONVERSATION                                                   | <a href="#">Transaction Logging of Conversations</a>                |
| File System Adapter                         | <<FileSystemAdapter>>                                                                                    | FILE                                                           | <a href="#">Transaction Logging of the File System Adapter</a>      |
| Java Adapter<br>JMS Adapter                 | <<JavaAdapter>><br><<JMSAdapter>><br><<E2EJMSListener>>                                                  | JAVA                                                           | <a href="#">Transaction Logging of the Java Adapter</a>             |
| Log Adapter                                 | <<Logger>>                                                                                               | domain given by the adapter call in tagged value <b>domain</b> | <a href="#">Transaction Logging of Log Adapter</a>                  |
| Persistent States Adapter                   | <<PersistentStateAdapter>>                                                                               | PSTATE                                                         | <a href="#">Transaction Logging of the Persistent State Adapter</a> |
| POP3 Adapter                                | <<POP3Adapter>>                                                                                          | POP3                                                           | <a href="#">Transaction Logging of the POP3 Adapter</a>             |
| REST Adapter                                | <<RESTAdapter>>                                                                                          | REST                                                           | <a href="#">Transaction Logging of the REST Adapter</a>             |
| SAP Adapter                                 | <<SAPRFCAdapter>><br><<SAPTRFCAdapter>><br><<SAPTRFCCreateTransaction>><br><<SAPTRFCConfirmTransaction>> | SAPRFC                                                         | <a href="#">Transaction Logging of the SAP Adapter</a>              |
| SMTP Adapter                                | <<SMTPAdapter>>                                                                                          | SMTP                                                           | <a href="#">Transaction Logging of the SMTP Adapter</a>             |
| SOAP Adapter                                | <<SOAPAdapter>>                                                                                          | SOAP                                                           | <a href="#">Transaction Logging of the SOAP Adapter</a>             |
| SQL Adapter                                 | <<SQLAdapter>>                                                                                           | SQL                                                            | <a href="#">Transaction Logging of the SQL Adapter</a>              |
| System Adapter                              | <<SystemAdapter>>                                                                                        | SYSAD                                                          | <a href="#">Transaction Logging of the System Adapter</a>           |
| URL Adapter                                 | <<URLAdapter>>                                                                                           | URL                                                            | <a href="#">Transaction Logging of the URL Adapter</a>              |
| ZIP Adapter                                 | <<ZIPAdapter>>                                                                                           | ZIP                                                            | <a href="#">Transaction Logging of the ZIP Adapter</a>              |

# Transaction Log xUML Service Adapter Details

## Conversations

| Domain                | State | Parameter 1 | Parameter 2     | Correlation ID |
|-----------------------|-------|-------------|-----------------|----------------|
| Log Level: IOInternal |       |             |                 |                |
| CONVERSATION          | OK    | Send        | conversation ID | ✓              |
|                       |       | Receive     | conversation ID | ✓              |

## File System Adapter

| Domain                | Component                       | Parameter 1                                                                                                                                                                                      | State | Parameter 2                                                                      |
|-----------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------|
| Log Level: IOInternal |                                 |                                                                                                                                                                                                  |       |                                                                                  |
| FILE                  | name of the adapter action node | adapter action as defined on the adapter: read, readLine, write, createDirectory, readDirectory, status, remove, removeRecursively, rename, append, close<br><br><b>Example:</b> createDirectory | OK    | path to file /directory<br><b>Example:</b> ./tmp/testFile_dyn.txt                |
|                       |                                 |                                                                                                                                                                                                  | ERROR | error message<br><b>Example:</b> Failed stating entry " ./tmp/testFile_dyn.txt". |
|                       |                                 | rename                                                                                                                                                                                           | OK    | path to old file<br><b>Example:</b> ./tmp/testFile_old.txt                       |

## Java Adapter

| Domain                | Component                       | Parameter 1       | State       | Parameter 2        |
|-----------------------|---------------------------------|-------------------|-------------|--------------------|
| Log Level: IOInternal |                                 |                   |             | IO_ENTER   IO_EXIT |
| JAVA                  | name of the adapter action node | JavaAddOn.execute | OK<br>ERROR | start<br>executed  |

## JMS Adapter

The JMS adapter is used in combination with the Java adapter. Possible errors are logged with the Java adapter.

| Domain                | Component                       | Transaction ID                                                                                                                                                   | Parameter 1                                               | State | Parameter 2                                             | Correlation ID                                                      |
|-----------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------|---------------------------------------------------------|---------------------------------------------------------------------|
| Log Level: IOInternal |                                 |                                                                                                                                                                  |                                                           |       |                                                         |                                                                     |
| JAVA                  | name of the adapter action node | custom JMS header property <b>xTransactionID</b> if present (see <a href="#">JMS Adapter Reference</a> for more information on custom JMS Adapter header fields) | SendMessageAction.execute<br>ReceiveMessageAction.execute | OK    | JMS connection<br><b>Example:</b> tcp://localhost:61616 | <a href="#">JMSMessageID</a> (for send and receive, not for listen) |

## Log Adapter

| Domain                                   | Component                       | Adapter Action | State | Parameter 1                                   | Parameter 2                                 |
|------------------------------------------|---------------------------------|----------------|-------|-----------------------------------------------|---------------------------------------------|
| Log Level: Custom                        |                                 |                |       |                                               |                                             |
| as defined in tagged value <b>domain</b> | name of the adapter action node | <b>report</b>  | OK    | as defined in tagged value <b>description</b> | as defined in tagged value <b>parameter</b> |

## POP3 Adapter

| Domain                | Component                       | Adapter Action | Parameter 1 | Parameter 2                        |             |
|-----------------------|---------------------------------|----------------|-------------|------------------------------------|-------------|
|                       |                                 |                |             | State OK                           | State ERROR |
| Log Level: IOExternal |                                 |                |             |                                    |             |
| POP3                  | name of the adapter action node | getMessage     | GetMail     | Mail host<br>Example: linux.e2e.ch | Failed      |
|                       |                                 | delete         | DeleteMail  |                                    |             |
|                       |                                 | commit         | commit      |                                    |             |
|                       |                                 | rollback       | Rollback    |                                    |             |

## Persistent State Adapter

### Log Level "Service"

The start of a transition/do activity (TRANSITION\_ENTER/DOACTION\_ENTER) is always logged with state OK. If the transition/do activity fails, TRANSITION\_EXIT/DOACTION\_EXIT is logged with state ERROR and the transition/do activity is rolledback.

| Domain             | Component                          | Log Type                            | State | Parameter 1                              | Parameter 2                                |
|--------------------|------------------------------------|-------------------------------------|-------|------------------------------------------|--------------------------------------------|
| Log Level: Service |                                    |                                     |       |                                          |                                            |
| PSTATE             | name of the persistent state class | TRANSITION_ENTER<br>TRANSITION_EXIT | OK    | name of the transition                   | primary key of the persistent state object |
|                    |                                    | DOACTION_ENTER<br>DOACTION_EXIT     | OK    | internal MagicDraw id of the do activity | primary key of the persistent state object |

### Log Level "IOInternal" for Bridge Console Actions

| Domain                | Control Port Action                   | Component                | Parameter 1                                         | Parameter 2    |
|-----------------------|---------------------------------------|--------------------------|-----------------------------------------------------|----------------|
| Log Level: IOInternal |                                       |                          |                                                     |                |
| PSTATE                | <b>retry of completion transition</b> | broadcastCompletionEvent | <name of persistent state class>                    | <console user> |
|                       | <b>retry of completion transition</b> | createCompletionEvent    | <name of persistent state class>:<unique object ID> |                |
|                       | <b>delete single PS object</b>        | deleteObject             | <name of persistent state class>:<unique object ID> |                |
|                       | <b>show pstate data as raw object</b> | getObject                | <name of persistent state class>:<unique object ID> |                |
|                       | <b>show pstate data as raw object</b> | getObjectByKey           | <name of persistent state class>:<unique object ID> |                |
|                       | <b>list all PS classes</b>            | listAllClasses           |                                                     |                |
|                       | <b>list all PS classes</b>            | listClasses              |                                                     |                |
|                       | <b>list all PS objects</b>            | listObjects              | <name of persistent state class>                    |                |
|                       | <b>show instances for owner</b>       | listOwners               |                                                     |                |

|                                               |            |                                                        |
|-----------------------------------------------|------------|--------------------------------------------------------|
| <b>assign objects to own service instance</b> | moveOwner  | Move owner from <ID of old owner> to <ID of new owner> |
| <b>delete PS objects</b>                      | reset      |                                                        |
| <b>delete PS objects</b>                      | resetAll   |                                                        |
| <b>send signal to PS object</b>               | sendSignal | <unique object ID>                                     |

## Log Level "IOInternal" for xUML Service Actions

| Domain                | Component                          | Adapter Action          | Parameter 1    | Parameter 2                                |                                            |                     |
|-----------------------|------------------------------------|-------------------------|----------------|--------------------------------------------|--------------------------------------------|---------------------|
|                       |                                    |                         |                | IO_ENTER State OK                          | IO_EXIT State OK                           | IO_EXIT State ERROR |
| Log Level: IOInternal |                                    |                         |                |                                            |                                            |                     |
| PSTATE                | name of the persistent state class | <b>broadcast signal</b> | Broadcast      | signal name                                |                                            |                     |
|                       |                                    | <b>create</b>           | Create         | undefined                                  | primary key of the persistent state object | undefined           |
|                       |                                    | <b>getObjectHandle</b>  | Get handle     | unknown                                    | primary key of the persistent state object | unknown             |
|                       |                                    | <b>getObjectHandles</b> | Search handles | name of the persistent state class         |                                            |                     |
|                       |                                    | <b>getObjectCopy</b>    | Get copy       | primary key of the persistent state object |                                            |                     |
|                       |                                    | <b>getStateInfo</b>     | Get state info | primary key of the persistent state object |                                            |                     |
|                       |                                    | <b>commit</b>           | Commit         | primary key of the persistent state object |                                            |                     |
|                       |                                    | <b>rollback</b>         | Rollback       | pimary key of the persistent state object  |                                            |                     |
|                       |                                    | <b>send signal</b>      | Send           | signal name                                |                                            |                     |

## REST Adapter

| Domain                | Component                       | Parameter 1           | State       | Parameter 2 |
|-----------------------|---------------------------------|-----------------------|-------------|-------------|
| Log Level: IOExternal |                                 |                       |             |             |
| REST                  | name of the adapter action node | REST method, e.g. GET | OK<br>ERROR | REST URL    |

## SAP Adapter

| Domain                | Component                       | Parameter 1                                          |                                | State       | Parameter 2                                                   | Correlation ID                                                                       |
|-----------------------|---------------------------------|------------------------------------------------------|--------------------------------|-------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Log Level: IOExternal |                                 |                                                      |                                |             |                                                               |                                                                                      |
| SAPRFC                | name of the adapter action node | adapter operation<br><b>Example:</b> RFC_SYSTEM_INFO |                                | OK<br>ERROR | IP address of the SAP system<br><b>Example:</b> 80.241.97.227 |  |
|                       | SAPConnectionPool               | OpenConnection                                       | Open connection to SAP system. |             |                                                               |                                                                                      |
|                       |                                 |                                                      |                                |             |                                                               |                                                                                      |

|  |  |                         |                                                             |  |  |
|--|--|-------------------------|-------------------------------------------------------------|--|--|
|  |  | CloseC<br>onnect<br>ion | Close connection to<br>SAP system.                          |  |  |
|  |  | PoolEx<br>hausted       | No connection available<br>from the SAP<br>connection pool. |  |  |

## SMTP Adapter

| Domain               | Component                             | Parameter 1 | State | Parameter 2                                                                                                                 | Correlation ID |
|----------------------|---------------------------------------|-------------|-------|-----------------------------------------------------------------------------------------------------------------------------|----------------|
| Log Level:IOExternal |                                       |             |       |                                                                                                                             |                |
| SMTP                 | name of the<br>adapter action<br>node | Send Mail   | OK    | SMTP host and correlation ID<br><b>Example:</b> smtp.mail.net<br>00000002a28435030000387c0000<br>1adcd46ef793               | ✓              |
|                      |                                       |             | ERROR | error message<br><b>Example:</b> <test3@e2e.ch>:<br>Recipient address rejected:<br>User unknown in local<br>recipient table | ✓              |

## SOAP Adapter

| Domain               | Component Name             | Parameter 1 | State | Parameter 2   | Correlation ID |
|----------------------|----------------------------|-------------|-------|---------------|----------------|
| Log Level:IOExternal |                            |             |       |               |                |
| SOAP                 | name of the SOAP operation | ""          | OK    | URL           | ✓              |
|                      |                            |             | ERROR | error message |                |

## SQL Adapter

| Adapter Call          |                 |                                                                                                                                            |                                                           |
|-----------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Domain                | Adapter Action  | Parameter 1                                                                                                                                |                                                           |
| Log Level:IOExternal  |                 |                                                                                                                                            |                                                           |
| SQL                   | execute         | SQL action as defined in the SQL statement:<br>select, insert, update, commit, rollback or stored procedure name<br><b>Example:</b> INSERT |                                                           |
|                       | fetch           | fetch                                                                                                                                      |                                                           |
|                       | closeHandle     | closeHandle                                                                                                                                |                                                           |
| Log Level: IOInternal |                 |                                                                                                                                            |                                                           |
| SQL                   | implicit action | connect                                                                                                                                    | Establish a connection to the database.                   |
|                       |                 | PRAGMA                                                                                                                                     | Apply a PRAGMA statment to the database connection.       |
|                       |                 | disable autocommit                                                                                                                         | Disable autocommit on this database connection.           |
|                       |                 | set transaction isolation level to                                                                                                         | Set the database isolation level to the given value.      |
|                       |                 | commit (implicit)                                                                                                                          | Perform an implicit commit on the database transaction.   |
|                       |                 | rollback (implicit)                                                                                                                        | Perform an implicit rollback on the database transaction. |
|                       |                 | isalive (implicit)                                                                                                                         | Test the database connection.                             |
|                       |                 | disconnect                                                                                                                                 | Disconnect from the database.                             |
| States                |                 |                                                                                                                                            |                                                           |
| Domain                | State           | Parameter 2                                                                                                                                |                                                           |

|     |       |                                                                                                                   |
|-----|-------|-------------------------------------------------------------------------------------------------------------------|
| SQL | OK    | name and path of the SQL database the action has been performed on<br><b>Example:</b> ..\resource\Employee.sqlite |
|     | ERROR | error message<br><b>Example:</b> SQLAPI exception                                                                 |

## System Adapter

| Domain                | Component Name                  | Parameter 1 | State | Parameter 2    |
|-----------------------|---------------------------------|-------------|-------|----------------|
| Log Level: IOInternal |                                 |             |       |                |
| SYSAD                 | name of the adapter action node | Execute     | OK    | component name |

## URL Adapter

| Domain                | Parameter 1                       | State | Parameter 2                                                                            | Correlation ID                                                                     |
|-----------------------|-----------------------------------|-------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Log Level: IOExternal |                                   |       |                                                                                        |                                                                                    |
| URL                   | URL method<br><b>Example:</b> GET | OK    | URL<br><b>Example:</b> http://www.e2ebridge.com/BridgeFiles/bridging_in_a_nutshell.htm |  |
|                       |                                   | ERROR | -                                                                                      |                                                                                    |

## ZIP Adapter

| Domain                | Parameter 1 | State | Parameter 2          |
|-----------------------|-------------|-------|----------------------|
| Log Level: IOInternal |             |       |                      |
| ZIP                   | Zip         | OK    | name of the ZIP file |
|                       |             | ERROR | -                    |

# Transaction Log Service Implementation Details

## HTTP Service

| Domain             | Component                                                                                              | Log Type      | Transaction ID                                           | State | Parameter 1 | Parameter 2                                                                                                                                           | Correlation ID                      |
|--------------------|--------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------|-------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Log Level: Service |                                                                                                        |               |                                                          |       |             |                                                                                                                                                       |                                     |
| INTERFACE          | model path to the HTTP operation<br><b>Example:</b> urn:Services.SimpleHTTPService.SimpleHTTPPort.echo | SERVICE_ENTER | HTTP header X-Transaction-ID if present                  | OK    | anonymous   | IP address of the caller   HTTP header X-Sender-Host   HTTP header X-Sender-Service<br><b>Example:</b> 1700:e84e: bridge2.scheer-acme.com TestService | HTTP header X-Request-ID if present |
|                    |                                                                                                        | SERVICE_EXIT  | HTTP header X-Transaction-ID or unique id if not present |       |             |                                                                                                                                                       |                                     |

## Java Callback Service

| Domain             | Component                                                                                                        | Log Type                      | State | Parameter 1 | Parameter 2                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------|-------|-------------|--------------------------------------------------------|
| Log Level: Service |                                                                                                                  |                               |       |             |                                                        |
| INTERFACE          | model path to the callback operation<br><b>Example:</b> urn:Services.HelloBridgeService.HelloBridgePort.sendText | SERVICE_ENTER<br>SERVICE_EXIT | OK    | anonymous   | IP address of the caller<br><b>Example:</b> 1700:e84e: |

## REST Service

| Domain             | Component                                                                                                 | Log Type       | Transaction ID                                                  | State | Parameter 1 | Parameter 2                                                                                                                                                         | Correlation ID                             |
|--------------------|-----------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------|-------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Log Level: Service |                                                                                                           |                |                                                                 |       |             |                                                                                                                                                                     |                                            |
| INTERFACE          | model path to the REST operation<br><b>Example:</b> urn:Services.SupportCase.SupportAPI.supportcases.POST | SERVIC E_ENTER | HTTP header <b>X-Transaction-ID</b> if present                  | OK    | anonymous   | IP address of the caller   HTTP header <b>X-Sender-Host</b>   HTTP header <b>X-Sender-Service</b><br><b>Example:</b> 1700:e84e: bridge2.scheer-acme.com TestService | HTTP header <b>X-Request-ID</b> if present |
|                    |                                                                                                           | SERVIC E_EXIT  | HTTP header <b>X-Transaction-ID</b> or unique id if not present |       |             |                                                                                                                                                                     |                                            |

## SAP Service

| Domain             | Component                                                                                                                   | Log Type                            | State | Parameter 1 | Parameter 2                                            |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------|-------------|--------------------------------------------------------|
| Log Level: Service |                                                                                                                             |                                     |       |             |                                                        |
| INTERFACE          | model path to the SAPRFC operation<br><b>Example:</b> urn:Services.RFCServerExample.CalculatorPort.Z_RFC_SERVICES.Z_RFC_ADD | SERVIC E_ENTER<br><br>SERVIC E_EXIT | OK    | anonymous   | IP address of the caller<br><b>Example:</b> 1700:e84e: |

## Scheduler Service

| Domain             | Component                                                  | Log Type                          | State | Parameter 1 | Parameter 2 |
|--------------------|------------------------------------------------------------|-----------------------------------|-------|-------------|-------------|
| Log Level: Service |                                                            |                                   |       |             |             |
| INTERFACE          | model path to the scheduler .<br>EXECUTE_SCHEDULER_DIAGRAM | SERVICE_ENTER<br><br>SERVICE_EXIT | OK    | default     | -           |

## SOAP Service

| Domain             | Component                                                                                                 | Log Type       | Transaction ID                                                  | State | Parameter 1 | Parameter 2                                                                                                                                                         | Correlation ID                             |
|--------------------|-----------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------|-------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Log Level: Service |                                                                                                           |                |                                                                 |       |             |                                                                                                                                                                     |                                            |
| INTERFACE          | model path to the SOAP operation<br><b>Example:</b> urn:HelloWorldService.HelloWorldPort.helloWorldCreate | SERVIC E_ENTER | HTTP header <b>X-Transaction-ID</b> if present                  | OK    | anonymous   | IP address of the caller   HTTP header <b>X-Sender-Host</b>   HTTP header <b>X-Sender-Service</b><br><b>Example:</b> 1700:e84e: bridge2.scheer-acme.com TestService | HTTP header <b>X-Request-ID</b> if present |
|                    |                                                                                                           | SERVIC E_EXIT  | HTTP header <b>X-Transaction-ID</b> or unique id if not present |       |             |                                                                                                                                                                     |                                            |

## Timer and Event Observer Service

| Domain             | Component | Log Type | State | Parameter 1 | Parameter 2 |
|--------------------|-----------|----------|-------|-------------|-------------|
| Log Level: Service |           |          |       |             |             |

|           |                                                    |                               |    |         |   |
|-----------|----------------------------------------------------|-------------------------------|----|---------|---|
| INTERFACE | model path to the timer .<br>EXECUTE_TIMER_DIAGRAM | SERVICE_ENTER<br>SERVICE_EXIT | OK | default | - |
|-----------|----------------------------------------------------|-------------------------------|----|---------|---|

## Transaction Log System Log Details

| Domain             | Component                                                                               | Log Type                      | State | Parameter 1                                                   | Parameter 2                                             |
|--------------------|-----------------------------------------------------------------------------------------|-------------------------------|-------|---------------------------------------------------------------|---------------------------------------------------------|
| Log Level: Service |                                                                                         |                               |       |                                                               |                                                         |
| INTERFACE          | request service status<br>rpcctrl.Status                                                | SERVICE_ENTER<br>SERVICE_EXIT | OK    | anonymous                                                     | IP address of the caller<br><b>Example:</b> 1700:e84e:: |
|                    | request long running session threshold<br>rpcctrl.Sessions                              | SERVICE_ENTER<br>SERVICE_EXIT | OK    | SYSTEM                                                        |                                                         |
|                    | reload changed tab files (e.g. due to changes to service preferences)<br>rpcctrl.Reload | SERVICE_ENTER<br>SERVICE_EXIT | OK    | anonymous                                                     |                                                         |
|                    | request service shutdown<br>rpcctrl.Shutdown                                            | SERVICE_ENTER<br>SERVICE_EXIT | OK    | <user that has triggered the action><br><b>Example:</b> admin |                                                         |

## Transaction Log xUML Runtime API Details

| Domain             | Component                                                                   | Log Type                      | State | Parameter 1 | Parameter 2                                             |
|--------------------|-----------------------------------------------------------------------------|-------------------------------|-------|-------------|---------------------------------------------------------|
| Log Level: Service |                                                                             |                               |       |             |                                                         |
| INTERFACE          | urn:xUML_Controller.xUML<br>Controller.<api resource path>.<request method> | SERVICE_ENTER<br>SERVICE_EXIT | OK    | anonymous   | IP address of the caller<br><b>Example:</b> 1700:e84e:: |