

Logging Custom Values to the Dashboard Database

Displaying the information you need to e.g. identify problems with a process assumes that this information has been stored to the dashboard database. As per default, the log collectors store

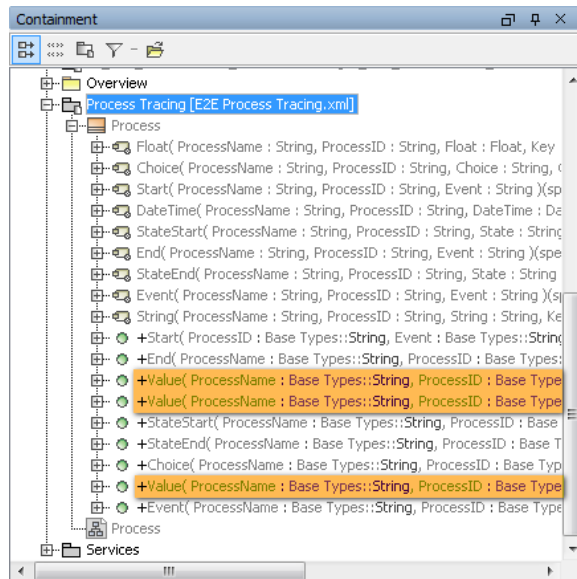
- ProcessID
- Start Date
- Start Event
- End Date
- End Event
- Last Update
- Current State
- Duration
- Host

Related Pages:

- [A Simple Business Process](#)
- [Custom Process Charts](#)

If you need more details on a process instance, you can extend the E2E composite service as to log custom fields. All E2E Builder models contain a **Process Tracing** repository that can be used for this.

Figure: Process Tracing Repository in Containment Tree



Class **Process** contains three **Value** operations that can be used to log additional values for **String**, **Float** and **DateTime** fields.

With this approach, the Process Dashboard tracing can also be enabled for SOAP services that are not based on a business process. Just use the following operations in the order stated below:

- **Start**
Use Start in the beginning of a SOAP operation.
- **Value**
Use Value as often as necessary.
- **End**
Use End at the end of a SOAP operation.

In this way, you will be able to inspect the logged values of the SOAP service with the Process Dashboard.

Example

Example File (Builder project Advanced Modeling\BPMN):



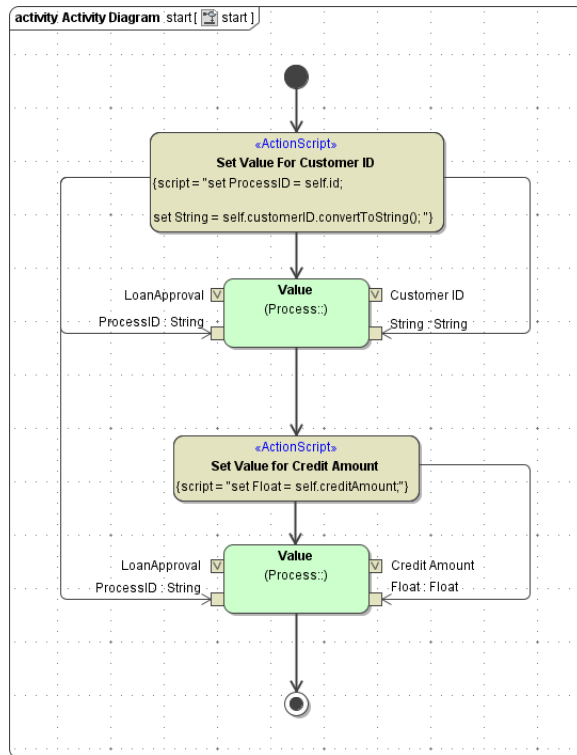
<your example path>\AdvancedModeling\BPMN\um\BPMNLoanApprovalServices.xml

The LoanApproval example implements a very basic loan approval process. Refer to [A Simple Business Process](#) for more details on the process.

This process has been adapted to log some more fields in addition to the common fields:

- customer ID
- credit amount

Figure: Logging Additional Values to the Process Dashboard Database



The three **Value** operations receive four parameters each:

Group	Parameter Name	Type	Description
Process	ProcessName	String	Contains the name of the BPMN process. This value corresponds to the name of the persistent state class and has to be set manually (e.g. LoanApproval).
	ProcessID	String	Contains the process ID. The process ID can be taken from the self object.
Value	Key	String	Contains the name of the custom value (e.g. Credit Amount). This name will be presented as a table column in the Process Dashboard.
	String Float DateTime	String Float DateTi me	Contains the value to be logged. This value will be presented in the table column defined with Key . Depending on the value you want to log, use one of the three Value operations and supply the corresponding parameter (String , Float or Date Time).

Make sure that you add the logging of the custom values after the logging of the process start. Otherwise, the Log Collector services will not be able to associate these additional logs with the process.

Figure: Custom Values in the Process Dashboard

Table	Process Duration	Start Event	End Event	State Duration	Custom
CSV					
Show 10 entries					
Detail	ProcessID	Start Date	End Event	End Event	Duration
Detail	4711010	start	end approved	0	
Detail	4711011	start	end rejected	3 sec	
Showing 1 to 2 of 2 entries					

Credit Amount
 Current State
 Customer ID
 Duration
 End Date
 End Event
 Host
 Last Update
 ProcessID
 Start Date
 Start Event

Custom fields are displayed in bold in the drop down list of columns that can be selected in the Process Dashboard. To inspect diagrams based on the custom fields refer to the **Custom** tab (see [Custom Process Charts](#)).