



SAP WebFlow Execution Handler

Configuration

V 1.0

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1 Context

The WebFlow ExecutionHandler is the connecting link between workflows that run on SAP's WebFlow Engine, and HTTP-based services. It enables the use of any intranet services or Internet services as a dialog step or background step in a workflow. As before, the Workflow-Engine executes local method calls here, while the ExecutionHandler ensures communication between workflow and service.

2 Software Components Involved

- ExecutionHandler (com.sap.tc.wf.WfX.par)
- SAP's WebFlow Engine Release 4.0B or above inclusive
- WP-PI 500 Patch 0002 or above

3 Installation

After the Par file com.sap.tc.wf.WfX.par has been deployed on the portal server, the following configurations must be performed:

3.1 Registration of Systems with the Workflow-Engine

The ExecutionHandler can serve multiple workflow backends. Every backend system that wants to use the ExecutionHandler must be registered in the callableSapSystems.xml file. callableSapSystems.xml is part of com.sap.tc.wf.WfX.par. New entries in callableSapSystems.xml must be entered according to the enclosed XML schema callableSapSystems.xsd.

Note that the attribute *logsys* actually corresponds to the logical system of the backend system involved. The *loginuser* to be entered is needed for RFC calls to the workflow backend. A CPIC user is sufficient. As a minimum, the RFC authorization is required for the function groups SWK3 and SWK4.

3.2 Registration of Services

The ExecutionHandler can make any number of services for SAP WebFlow accessible. Every service that is to be contacted using the ExecutionHandler must be registered in file webflowServices.xml. webflowServices.xml is part of com.sap.tc.wf.WfX.par. New entries in webflowServices.xml are to be entered according to the enclosed XML schema webflowServices.xsd. Components of the ExecutionHandler itself that are contacted using HTTP are also registered in the webflowServices.xml.

3.2.1 Registration of the ExecutionHandler

In webflowServices.xml there is an entry with the name *SAPWebFlowXHandler*. For this entry the value of the tag *baseURI* is to be changed to the valid URI of the installation on the current portal server.

In webflowServices.xml there is an entry with the name *SAPWebFlowXDialogTerminator*. For this entry the value of the tag *baseURI* is to be changed to the valid URI of the installation on the current portal server.

3.2.2 Registration of Services

In webflowServices.xml any number of additional services can be entered that are to be used as implementation of a workflow step. Here, the entry of a unique name and a valid URL is binding in accordance with the enclosed XML schema webflowServices.xsd.

3.3 Publish LaunchHandler

A portal component with the name *com.sap.tc.wf.WfX.Url2Backend* is contained in *com.sap.tc.wf.WfX.par*. Using this dialog, the URI of the ExecutionHandler (as entered in *webflowServices.xml*) is published in the registered backend systems (as entered in *callableSapSystems.xml*). By using the *Test XHandler URL in Browser Window* button, you can test the availability of the ExecutionHandler before the URI is moved to the registered backend system with the *Start Deployment* button.

4 Connecting New Services

A portal component with the name *com.sap.tc.wf.WfX.TaskGenerator* is contained in *com.sap.tc.wf.WfX.par*. Using this dialog, a corresponding task can be generated in a workflow backend for a service entered in *webflowServices.xml*. The generated task can afterwards be used directly as a step in a workflow.

5 Working with Existing Services

If a task is generated for a service with *com.sap.tc.wf.WfX.TaskGenerator*, a link Task -> Service is automatically created in the file *serviceTaskRelations.xml*. *serviceTaskRelations.xml* is part of *com.sap.tc.wf.WfX.par*. If an existing task is to be used with a suitable service, this coupling must be entered manually in the form of a new entry in *serviceTaskRelations.xml*. New entries in *serviceTaskRelations.xml* are to be entered in accordance with the enclosed XML schema *serviceTaskRelations.xsd*.

6 Renaming Registry Files

After maintaining the registry files mentioned above (*callableSapSystems.xml*, *webflowServices.xml*, *serviceTaskRelations.xml*) these files should be renamed to protect them from being overwritten by deployment of a patch or a new version. The new filenames have to be entered in the profile *XHandler.properties*. Therefore the following values have to be changed accordingly:

- *ServiceTaskRelationsFile.value*=xml/serviceTaskRelations.xml
- *CallableSapSystemsFile.value*=xml/callableSapSystems.xml
- *WebFlowServicesFile.value*=xml/webflowServices.xml

7 Logging

The WebFlow ExecutionHandler logger is called *com.sap.tc.wf.wfx*.