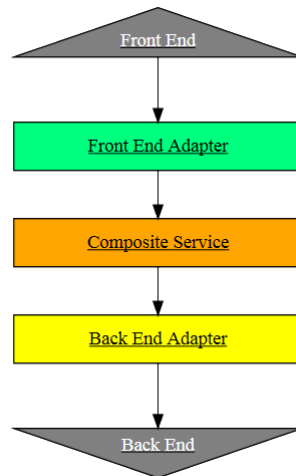




Service Design Back End Adapters / BEA / BEA Sample



Date:
14-02-2015

Voortreffelijk  Daar heb je Baat bij!



Document Version history

Version	Date	Author	Remarks
V0.1	14-02-2015	SoaVis	First Draft

Related Documents

Reference	Document
[CD]	SVT_SD_CS_BEA_BEA_Sample
[ICD]	SVT_ICD_FEA_Sample

Table of contents

1	Introduction	4
2	Service Design	5
2.1	Service Definition.....	5
2.2	Service Characteristics.....	5
2.3	Service Classification	5
2.4	Service Version History	5
3	Design Specifications	6
3.1	Message Structure.....	6
3.1.1	Message Structure BEA Sample Request.....	6
3.1.2	Message Structure BEA Sample Response	6
3.1.3	Returned Errors	7
4	Process Flow Specification	8
4.1	Process Flow	8
4.2	Step 1a. Generate Error for Start.....	8
4.2.1	Error Mapping.....	8
4.3	Step 2. Invoke BE Sample.....	8
4.3.1	Invocation Mapping.....	8
4.4	Step 2a. Generate Error for 2	9
4.4.1	Error Mapping.....	9
4.5	Return Mapping.....	9

1 Introduction

This document specifies the design for the BEA_Sample service in the BEA component.

2 Service Design

2.1 Service Definition

This is the description of the functionality of a simple service.

It should also contain a brief description of the steps executed in this service. For this simple service, it only invokes the back end adapter service BEA Sample.

2.2 Service Characteristics

Characteristic	Description
Service name	BEA Sample
Service version	1
Document version	0.1.0

2.3 Service Classification

Property	Value
Visibility	Public
Deprecated	No
Interaction	Asynchronous
SOx_Sensitive	No
ModelStatus	Operable

2.4 Service Version History

Version	Date	Author	Description
0.1.0	12-11-2014	SoaVis	Created as a sample for explaining the SOA Tool.

3 Design Specifications

3.1 Message Structure

This section describes the request message used to invoke this service and the response message returned by this service.

3.1.1 Message Structure BEA Sample Request

Field	Card	Type	Note
1 BEA_SampleRequestMessage	1		
2 Header	0 .. 1		
2 Body	1		
3 Request	1	BEA_SampleRequestType	
4 ENTITY	0 .. 1	ENTITY	One or more entities may appear here. The other elements which are children of the BODY element are some example elements to demonstrate the handling of the different types.
5 DATE_ELEMENT	1	dateTime	This is an element of basic type dateTime.

3.1.2 Message Structure BEA Sample Response

Field	Card	Type	Note
1 BEA_SampleResponseMessage	1		
2 Header	0 .. 1		
2 Body	1		
3 Response	1	BEA_SampleResponseType	
4 ENTITY	0 .. 1	ENTITY	One or more entities may appear here. The other elements which are children of the BODY element are some example elements to demonstrate the handling of the different types.
5 DATE_ELEMENT	1	dateTime	This is an element of basic type dateTime.
3 Result	1	Result	
4 ErrorCode	1	Integer	The ErrorCode can be either '0' indicating OK or non-'0' indicating not OK.
4 ErrorDescription	0 .. 1	String	The ErrorDescription contains the textual description of the error situation.

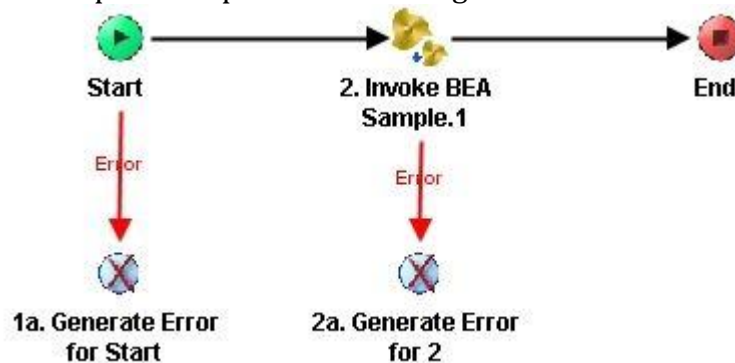
3.1.3 Returned Errors

ErrorCode	ErrorDescription
01	Service not available
02	Connection not found
03	Invalid Service Request
04	Non specific error
05	Invalid field value

4 Process Flow Specification

4.1 Process Flow

This text is used to explain the process flow image.



4.2 Step 1a. Generate Error for Start

This section describes the errors that can occur after the first step, i.e. the Start node.

4.2.1 Error Mapping

Error	Error Comment
1 when (<i>Request message not valid</i>)	
1 Code: 03 Description: Invalid Service Request	"This error indicates that the service was unable to parse the request message."
1 otherwise	
1 Code: 04 Description: Non specific error	"An internal error occurred that is not covered by any of the specific error messages."

4.3 Step 2. Invoke BE Sample

Invocation of /Back End/BE/BE_Sample.process

This section describes the invocation of the back-end adapter service to get or set the information.

4.3.1 Invocation Mapping

Field	Mapping from
2 Body	
3 Request	
4 ENTITY	
5 DATE_ELEMENT	/ BEA_SampleRequest/ BODY/ ENTITY/ DATE_ELEMENT

4.4 Step 2a. Generate Error for 2

This section describes the errors that can occur after the second step, i.e. the invocation of the BE Sample service.

4.4.1 Error Mapping

Error		Error Comment
1	when (<i>Service not available</i>)	
1	Code: 01 Description: Service not available	"This error will be returned in case the service invoked didn't respond within the configured timeout after the configured number of retries."
1	when (\$_error_Invoke-BEA-Sample/ Errors/ Error_03-Invalid_Service_Request)	
1	Code: 03 Description: Invalid Service Request	"This error indicates that the service was unable to parse the request message."
1	otherwise	
1	Code: 04 Description: Non specific error	"An internal error occurred that is not covered by any of the specific error messages."

4.5 Return Mapping

Field	Mapping from
2 Body	
3 Request	
4 ENTITY	
5 DATE_ELEMENT	\$Invoke-BE-Sample / BE_SampleResponse / BODY / CDM_ENTITY / DATE_ELEMENT