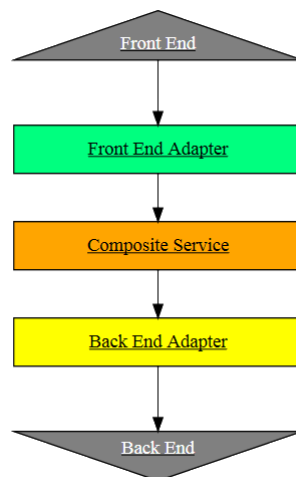




## Service Design Processes / CS Sample / CS Publisher



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_CS_Sample_CS_Publisher
[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 CS Publisher Request.....	6
3.1.2	Message Structure CS Publisher 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 BEA 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 CS\_Publisher service in the CS\_Sample 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
<b>Service name</b>	CS Publisher
<b>Service version</b>	1
<b>Document version</b>	0.1.0

### 2.3 Service Classification

Property	Value
<b>Visibility</b>	Public
<b>Deprecated</b>	No
<b>Interaction</b>	Asynchronous
<b>SOx_Sensitive</b>	No
<b>ModelStatus</b>	Operable

### 2.4 Service Version History

Version	Date	Author	Description
<b>0.1.0</b>	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 CS Publisher Request

Field	Card	Type	Note
1 CS_PublisherRequestMessage	1		
2 Header	0 .. 1		
2 Body	1		
3 Request	1	CS_PublisherRequestType	
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 CS Publisher Response

Field	Card	Type	Note
1 CS_PublisherResponseMessage	1		
2 Header	0 .. 1		
2 Body	1		
3 Response	1	CS_PublisherResponseType	
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.

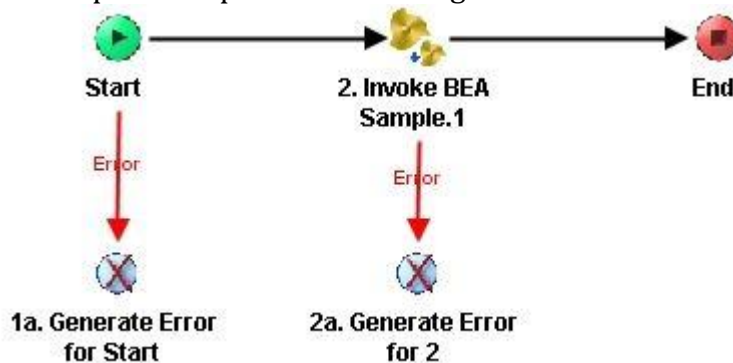
### 3.1.3 Returned Errors

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 BEA Sample

Invocation of /Back End Adapter/BEA/BEA\_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	/ CS_PublisherRequest/ 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 BEA 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-BEA-Sample / BEA_SampleResponse / BODY / CDM_ENTITY / DATE_ELEMENT