



CHARTER
VERSION 0.1

Charter – Create Assigned Products - SDD

Service Design Document

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1 Overview

The purpose of this Service Design Document (SDD) is to provide service implementation design details for the service create assigned products that are not covered in the High Level Service Design documentation.

1.1 Related Documentation

Charter – Modify Existing Customer Flow (CHQ) – HLS (Amdocs Document ID DC#2476119)

1.2 Assumptions

#	Assumption
1	As a result of MEC and BPT Data Gathering, Valid Values may be refined.
2	As a result of Detail Design, additional error message(s) may be added (section 3.1.11.3)

2 Service Definition

This service will create an assigned product structure in the Ordering Engine (OE) system. The assigned product will be needed in order to initiate CHQ flows.

2.1 Service Name

Create Assigned Products

2.2 Service Endpoints

Environment	Endpoint
Dev	Not available
QA	Not available
UAT	Not available
Prod	Not available

2.3 Required Projects

The URL for this REST will be: POST commerce/customer/{customer-id}/create-assigned-products

2.4 Service WSDL - N/A

3 Operation Definition

Name	Request Parameters	Response	Status
createAssignedProducts	ImplCreateAssignedProductsRequest	ImplCreateAssignedProductsResponse	

3.1 createAssignedProducts

This service will create assigned products

3.1.1 Request Parameters

3.1.1.1 ImplCreateAssignedProductsRequest

Field Name	Data Type	Valid values	Mandatory/Optional	Description
implCreateAssignedProductsInput	ImplCreateAssignedProductsInput	N/A	Mandatory	Main input

3.1.1.2 ImplCreateAssignedProductsInput

Field Name	Data Type	Valid values	Mandatory/Optional	Description
offers	ImplOffer[]	N/A	Mandatory	Offer configuration
orderLevelAttributes	FlexAttr[]	N/A	Optional	List of all order level dynamic attributes that are needed to be passed while creating the order.
customerId	String	N/A	Mandatory	Charter Customer id

3.1.1.3 ImplOffer

Field Name	Data Type	Valid values	Mandatory/Optional	Description
cid	String	N/A	Mandatory	The catalog ID. Should be a valid CID in OE catalog.
pcVersionID	String	N/A	Mandatory	The catalog version of the offer

Field Name	Data Type	Valid values	Mandatory/Optional	Description
attribute	ImplAttribute[]	N/A	Optional	Array of the offer's attribute
product	ImplProduct[]	N/A	Optional	Array of products in this offer
externalApID	String	N/A	Mandatory	External identifier from SOLO

3.1.1.4 ImplAttribute

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
pid	String	N/A	Mandatory	The property ID. A valid Property ID in MEC catalog.
propertyName	String	N/A	Mandatory	The property name from MEC.
value	String	N/A	Mandatory	The implemented value for the property. In case of date, use format: DD/MM/YYYY HH:MM:SS
isVisible	Boolean	True/false	Optional	If a property is visible or not
isEditable	Boolean	True/false	Optional	If a property is editable or not
isMandatory	Boolean	True/false	Optional	If a property is mandatory or not

3.1.1.5 ImplProduct

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
cid	String	N/A	Mandatory	The catalog ID of the product. A valid CID in OE catalog
pcVersionID	String	N/A	Mandatory	The MEC catalog version of the product
component	ImplComponent[]	N/A	Optional	Array of components in this product
offerCid	String	N/A	Mandatory	Offer Catalog Id to which this product belongs
externalApID	String	N/A	Mandatory	External identifier From SOLO
relationId	String	N/A	Mandatory	Relation ID

3.1.1.6 ImplComponent

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
cid	String	N/A	Mandatory	The catalog ID of the product. A valid CID in OE catalog
pcVersionID	String	N/A	Mandatory	The MEC catalog version of the product
Attribute	ImplAttribute[]	N/A	Optional	Array of Component's attributes
Component	ImplComponent[]	N/A	Optional	Array of Additional components in this component
externalApID	String	N/A	Mandatory	External identifier from SOLO
pricePlan	ImplPricePlan[]	N/A	Optional	Price plan
relationId	String	N/A	Mandatory	Relation ID

3.1.1.7 ImplPricePlan

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
cid	String	N/A	Mandatory	The catalog ID, a valid CID in OE catalog.
pcVersionID	String	N/A	Mandatory	The catalog version of the component
externalApID	String	N/A	Mandatory	External identifier from SOLO
relationId	String	N/A	Mandatory	Relation ID

3.1.1.8 FlexAttr

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
name	String	N/A	Mandatory	Name
value	FlexAttrValue	N/A	Mandatory	Flex attribute value

3.1.1.9 FlexAttrValue

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
integerValue	Integer	N/A	Optional	Value as Integer
stringValue	String	N/A	Optional	Value as String
dateValue	Date	N/A	Optional	Value as Date
decimalValue	BigDecimal	N/A	Optional	Value as Double
booleanValue	Boolean	N/A	Optional	Value as Boolean
valueType	FlexAttrValueType	N/A	Mandatory	Value types

3.1.1.10 FlexAttrValueType

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	BOOLEAN,DATE,DECIMAL,INTEGER,STRING	Mandatory	Flexible Attribute value types.

3.1.2 Request Sample

3.1.3 Response

3.1.3.1 ImplCreateAssignedProductsResponse

Field Name	Data Type	Valid values	Mandatory/Optional	Description
implCreateAssignedProductsOutput	ImplCreateAssignedProductsOutput	N/A	Mandatory	Main input
implBaseResponse	ImplBaseResponse	N/A	Mandatory	Additional generic information.

3.1.3.2 ImplBaseResponse

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
transactionId	N/A	String	Optional	A unique ID for a certain REST call
Timestamp	N/A	Date	Optional	The time of the response
implErrorInfo	N/A	ImplErrorInfo[]	Optional	Used for business errors (for technical/unexpected error – HTTP error codes will be returned). See section 3.1.10.1

3.1.3.3 ImplCreateAssignedProductsOutput

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
implAssignedProductID	ImplAssignedProductID []	N/A	Mandatory	List of assigned product ID and the corresponding external IDs.

3.1.3.4 ImplAssignedProductID

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
apID	String	N/A	Mandatory	Assigned product ID
externalApId	String	N/A	Optional	External AP ID.

3.1.4 Response Sample

3.1.5 Sequence Diagram N/A

3.1.6 Operation Synchronicity

Synchronous

3.1.7 Operation Type

Proxy

3.1.8 Related Services

N/A

3.1.9 Operation Specific Header Information

3.1.9.1 Request Header

Field Name	Valid Values	Data Type	Type	Mandatory /Optional	Description
username	N/A	String	Header	Mandatory	User name
password	N/A	String	Header	Mandatory	Password
applicationId	N/A	String	Header	Mandatory	For example, Charter Gateway
transactionId	N/A	String	Header	Mandatory	A Unique ID for a certain REST call.
timestamp	N/A	Date	Header	Mandatory	The time the REST was called.
lo(locale)	En	String	Query	Mandatory	Locale
sc (sales channel)	CC	String	Query	Mandatory	Sales channel
customer-id	N/A	String	path	Mandatory	The Business Customer ID; it cannot be anonymous at this stage.

3.1.10 Operation Specific Logging - N/A

3.1.11 Operation Specific Error Handling

#	Exception	Error Code	Description/Scenario
1	Unauthorized	401	Security issue
2	Forbidden	403	Security issue
3	BadRequest	400	The request could not be understood by the server
4	RequestTimeout	408	Request timed out.
7	InternalServerError	500	Server encountered problem
10	InvalidUsage	400	Thrown when the API is not used in the defined way

3.1.11.1 Error code structure – ImplErrorInfo

Field Name	Data Type	Mandatory /Optional	Description
errorCode	String	Mandatory	Error code, single string.
Description	String	Mandatory	A description of the error.
errorMessage	String	Mandatory	Error message.
errorUUID	String	Mandatory	Unique number to identify the error.

3.1.11.2 Sample Error Code

```
{  
  "implErrorInfo": {  
    "errorCode": "AuthorizationFailed",  
    "description": "You are not Authorized",  
    "errorMessage": "login of user {FAKE_USER} has failed: {status:4} {userStatus:0}  
    {error:User account is unknown or password is wrong}",  
    "errorUUID": "1a719fd5-01eb-4b78-ad9d-b80296bc548a"  
  }  
}
```

3.1.11.3 Possible Error Messages

#	Exception	Scenario	Error Message
1	InternalServerError	General exception in the BE system.	InternalServerError

4 Open Issues

No.	Requirement	Open Issue Description	Status	Comments

5 Fields Driven from MEC - N/A

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