



amdocs

embrace challenge e^xperience success

CHARTER
VERSION 2.3

Charter REST Services – createOrder SDD

Services Design Document

Document Information

Version:	0.6
Publication Date:	
Catalog Number:	document_center\2466053 Version 0.6
Information Security:	Level 1 – Confidential
Created:	6/14/2015 4:40:00 PM
Account/FOP:	Charter Communications
Author:	malki sabag
Editor:	malki sabag
Last Edited:	06/14/2015 4:53:45 PM
File Name:	Converted Charter - REST Services - createOrder - SDD.docx
Template:	Development.dotm

Copyright © 2015 Amdocs.

Information Security Level 1 - Confidential

CONTAINS RESTRICTED - PROPRIETARY INFORMATION

This document is strictly confidential and proprietary; to be used only by authorized persons on a need to know basis, and must not be distributed without specific permission.

In the event of unauthorized use of this document or the confidential information it contains, violators will be subject to severe disciplinary action, based on Amdocs regulations, as well as any other sanctions applicable by law.

Table of Contents

1	Overview	1
1.1	Related Documentation	1
1.2	Assumptions	1
2	Service Definition.....	2
2.1	Service Name	2
2.2	Service Endpoints.....	2
2.3	Required Projects	2
2.4	Service WSDL - N/A	2
3	Operation Definition	3
3.1	createOrder.....	3
3.1.1	Request Parameters	3
3.1.2	Request Sample.....	4
3.1.3	Response	4
3.1.4	ImplCreateOrderResponse	4
3.1.5	Response Sample	5
3.1.6	Sequence Diagram.....	5
3.1.7	Operation Synchronicity	5
3.1.8	Operation Type.....	5
3.1.9	Related Services - N/A.....	5
3.1.10	Operation Specific Header Information	5
3.1.11	Operation Specific Logging - N/A.....	6
3.1.12	Operation Specific Error Handling.....	6
4	Open Issues N/A	8
	Appendix A. Fields derived from MEC.....	9

1 Overview

This Service Design Document (SDD) provides service implementation design details for the Create Order REST service.

The REST enables order creation, by providing the selected eligible offer IDs as input.

The result of the Create Order for COP REST is the required order with a set of order actions (one order action per product in the offer) is created

1.1 Related Documentation

Charter - COP Order Flow - HLS: 2424229

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 3.1.12.4)
3	Fields that are of 'Date' data type in the request and in the response will be expected in Long format. for Example: "Tuesday, August 4, 2015 6:50:20 AM GMT" is translated to: "1438671020480"

2 Service Definition

2.1 Service Name

Create order

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/{id}/product-order/create-order

2.4 Service WSDL - N/A

3 Operation Definition

Name	Request Parameters	Response	Status
createOrder	ImplCreateOrderRequest	ImplCreateOrderResponse	

3.1 createOrder

This service will return an order ID after the order and all included order actions were created successfully.

3.1.1 Request Parameters

3.1.1.1 ImplCreateOrderRequest

Field Name	Data Type	Valid values	Mandatory/Optional	Description
implCreateOrderInput	ImplCreateOrderInput	N/A	Optional	Main input

3.1.1.2 ImplCreateOrderInput

Field Name	Data Type	Valid values	Mandatory/Optional	Description
addressID	String	N/A	Optional	Address ID
userID	String	N/A	Optional	CSR ID
implOfferID	ImplOfferID []	N/A	Mandatory for COP. Optional for CHQ.	List of offer IDs (CID) and corresponding action type.
serviceRequiredDate	Date as long	N/A	Optional	Date on which the customer wants the action to be performed Expected Date as Long. see assumption #3
implAssignedProduct	ImplAssignedProduct[]	N/A	Mandatory for CHQ. Not in use for COP.	List of assigned product ID. Relevant only for CHQ.

3.1.1.3 ImplAssignedProduct – Only for CHQ

Field Name	Data Type	Valid values	Mandatory/Optional	Description
apID	String	N/A	Mandatory	Assigned product ID.
orderActionType	String	CH- Change CE – Cease SU – Suspend HM – Change Move RT – Restart CR – Cease Restart PR – Provide	Mandatory	Action type

3.1.1.4 ImplOfferID

Field Name	Data Type	Valid values	Mandatory/Optional	Description
offerID	String	N/A	Mandatory for COP. Optional for CHQ.	offer ID (CID)
orderActionType	String	PR – Provide PV – Provide Move	Mandatory	Order action type

3.1.2 Request Sample

TBD

3.1.3 Response

3.1.4 ImplCreateOrderResponse

Field Name	Data Type	Valid values	Mandatory/Optional	Description
implCreateOrderOutput	ImplCreateOrderOutput	N/A	Optional	Main output
transactionId	String	N/A	Mandatory	A unique ID for a certain REST call
timeStamp	Date as Long	N/A	Mandatory	The time of the response Expected Date as Long. see assumption #3

Field Name	Data Type	Valid values	Mandatory/Optional	Description
implErrorInfo	ImplErrorInfo[]	N/A	Optional	Used for business errors (for technical/unexpected error – HTTP error codes will be returned). See section 3.1.10.1

3.1.4.1 ImplCreateOrderOutput

Field Name	Data Type	Valid values	Mandatory/Optional	Description
orderId	String	N/A	Mandatory	A unique number that Charter Gateway will use in all communication with Ordering till end of the order

3.1.5 Response Sample

TBD

3.1.6 Sequence Diagram

N/A

3.1.7 Operation Synchronicity

Synchronous

3.1.8 Operation Type

Proxy

3.1.9 Related Services - N/A

3.1.10 Operation Specific Header Information

3.1.10.1 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

Field Name	Valid Values	Data Type	Type	Mandatory /Optional	Description
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 as Long	Header	Mandatory	The time the REST was called Expected Date as Long. see assumption #3
sc (sales channel)	CC	String	Query	Mandatory	Sales channel
lo(locale)	en_US	String	Query	Mandatory	Locale
customer-id	N/A	String	path	Mandatory	The customer identification, in case of anonymous send '0'

3.1.11 Operation Specific Logging - N/A

3.1.12 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.
5	PreconditionFailed	412	Re-Authentication Failed
6	NotFound	404	Resource Not Found
7	InternalServerError	500	Server encountered problem

3.1.12.1 Error Code Structures

3.1.12.2 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.

3.1.12.3 Sample error code (401)

{

```
“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"  
}  
}
```

3.1.12.4 Possible Error Messages

#	Exception	Scenario	Error message
1	BadRequest	Entity locked	“OrderingLocalizedMessage”
2	BadRequest	Entity not found	“ProductNotFound”
3	BadRequest	Inconsistent parameters	“InvalidUsage”
4	BadRequest	Mandatory parameter is missing	“BadRequest”
5	InternalServerError	General exception in the BE system.	“InternalServerError”

4 Open Issues N/A

Appendix A. Fields derived from MEC

The valid values for the following fields are BPT values, defined in MEC.

Field Name	Data Type	section

Document Release Information

Every change made to the document following the initial delivery MUST be shown in detail in this table

Software Version	Editor/Author	Application	Edit Date [Mm-dd-yyyy]	Section	Changes	Sent to site	Approving Manager	DC Ver.
00.00			Jan-13-201	Initial Version		N		00.00
	Jonathan Cohen	TechComm	Jun-14-2015	Initial TW review		N	Orit Sarfaty-Preisler	
	Orit Sarfaty-Preisler		Jun-14-2015	All	Finalize	Y	Orit Sarfaty-Preisler	1.0
	Malki Sabag	REST	Jul-07-2015	3.1.1.2	* Removed field – ‘orderActionType’ * Added field – ‘implAssignedProduct’ * Changed name of field ‘offerId’ to ‘implOfferID’	Y/N		1.1
	Malki Sabag	REST	Jul-07-2015	3.1.1.3, 3.1.1.4	Added this Objects to input: - ImplAssignedProduct - ImplOfferID	Y/N		1.2
	Malki Sabag	REST	Jul-23-2015	3.1.1.1	Changed wording instead of output to input.	N		1.13
	Malki Sabag	REST	Jul-29-2015	3.1.1.3	Add new valid value for provide in orderActionType field	N		1.14

Charter REST Services – createOrder SDD Services Design Document
Document Release Information

Software Version	Editor/Author	Application	Edit Date [Mm-m-dd-yyyy]	Section	Changes	Sent to site	Approving Manager	DC Ver.
	Tammy shalev	REST	Aug-04-2015	All	Added assumption for Date fields and updated description for all Date fields in the document	N		1.15
	Orit Sarfaty Preisler		Aug 05-2015	ALL	Doc Signed off on July 24 Accept all changes until Sign Off date and promote to Major version.	Y		2.0
	Tammy shalev	REST	Aug-11-2015	3.1.10.1	Changed the valid value for the locale field	N		2.1
	Harel Madar	REST	Aug-19-2015	3.1.4, 3.1.4.2	Removed ImplBaseResponse from response because the response extends it and not have it as field	N		2.2
	Tammy shalev	REST	Aug-20-2015	3.1.4	Added 3 base fields to the response and changed transactionId and timestamp to be Mandatory	N		2.3