

Charter - UXF - Rest Services

JSON examples

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Contents

Introduction	5
1.1. Purpose and Scope	5
1.2. Related Documentation	6
1.3. General Input.....	6
1.4. Error Handling	6
2. Solution Description	8
2.1. Process Description.....	8
3. New Connect.....	9
3.1. Supported Operations.....	9
3.2. RetrieveBrowsingCategoriesAndFilters.....	9
3.2.1. Description	9
3.2.2. SDD document.....	9
3.2.3. URL and Method	9
3.2.4. Example JSON Input – N/A	10
3.2.5. Example JSON Output.....	10
3.3. RetrieveCatalogItems	10
3.3.1. Description	12
3.3.2. SDD document.....	12
3.3.3. URL and Method.....	12
3.3.4. Example JSON Input.....	12
3.3.5. Example JSON Output.....	12
3.4. CreateOrder.....	12
3.4.1. Description	12
3.4.2. SDD document.....	12
3.4.3. URL and Method.....	12
3.4.4. Example JSON Input.....	13
3.4.5. Example JSON Output.....	13
3.5. ProductOrderItems	13
3.5.1. Description	13
3.5.2. SDD document.....	13
3.5.3. URL and Method	13
3.5.4. Example JSON Input.....	13
3.5.5. Example JSON Output.....	13
3.6. ProductConfigurationOptions.....	13
3.6.1. Description	13
3.6.2. SDD document.....	13
3.6.3. URL and Method.....	14
3.6.4. Example JSON Input.....	14

3.6.5.	Example JSON Output.....	14
3.7.	ProductConfigurations	14
3.7.1.	Description	14
3.7.2.	SDD document.....	14
3.7.3.	URL and Method	14
3.7.4.	Example JSON Input.....	14
3.7.5.	Example JSON Output.....	Error! Bookmark not defined.
4.	Open Issues – N/A.....	17
5.	Appendix – N/A.....	18

INTRODUCTION

1.1. Purpose and Scope

The purpose of this document is to present examples for calling Charter UXF RESTs.

All RESTs are called by HTTP request and return [JSON Format](#) result.

Example for Json structure:

```
{ "status": "failure", "messages": [{ "code": "0002", "severity": "Error", "inputErrorDetails": [{ "message": "Invalid value \"1234\" for field \"cardNumber\". Must match pattern \"^[\\d{12,19}]$\".", "fieldName": "cardNumber" } ] } ] }
```

1.2. Related Documentation

The following documents will assist the reader in obtaining a broader understanding of the subject matter of this document:

DC #	Title
2424229	Charter - New Connect Order Flow - HLS

1.3. General Input

- Amdocs Self Service has a mechanism to add a common header to all exposed AIF operations.
- The rest service header contains user name and password for generating a ticket using ASM (Amdocs Security Manager).
- Mandatory input – Header parameters – Example:
 1. username: Rest
 2. password: Rest000
 3. transactionId: 123456
 4. applicationId: CharterGateway
 5. timeStamp: 1438671020480
 6. Content-Type: application/json
- Mandatory input - Query Parameters - Example:
 1. Locale: lo=en_US
 2. Sales Channel: sc=CC

1.4. Error Handling

When any exception occurs, UXF rest services use `List<ImplErrorInfo>` object in `ImplBaseResponse`.

`ImplErrorInfo` object contains:

```
String errorCode;  
String description;  
String errorMessage;  
String errorUUID;  
SOURCE_SYSTEM sourceSystem;  
String fieldName;
```

The `errorCode` is mandatory in the output.

The `errorMessage`, `sourceSystem`, `fieldname` are optional fields in the output, and might be provided depending on the error type.

Error Json example:

```
{  
  ImplValidateOrderRestOutput: {  
    transactionId: "111",  
    errorInfo: [1]  
  }  
}
```

```
    errorCode: "12005"  
    errorMessage: "Mandatory field %fieldName is  
missing"  
    sourceSystem: "OMS"  
    fieldName: "%fieldName%"  
  }  
}  
}
```

2. SOLUTION DESCRIPTION

UXF rest services expose Amdocs Ordering and MEC functionality to the Charter Gateway system.

UXF rest services will be completely stateless, and all relevant information for performing transactions will be provided as input parameters by the front end.

FE validation, security handling, caching/ session handling is not part of UXF services scope, Charter Gateway is responsible for it.

2.1. Process Description

When Charter Gateway system calls UXF rest service, UXF processes the call, activates the business logic if required, and delegates the call to Amdocs Ordering back-end system.

- The Charter Gateway user wishes to use Amdocs functionality; for example: to get a list of eligible offers for a customer.
- Charter Gateway calls an appropriate UXF, in accordance with the user's request.
- UXF processes the call and activates the UXF business logic if required.
- UXF delegates the call to the Amdocs Ordering back-end system.
- UXF processes the output of the Ordering back-end system if required, wraps and modifies it in order to enforce the REST service's standards, and passes it to Charter Gateway system.

3. NEW CONNECT

This chapter describes the REST services that describes as part of the COP –New Connect HLD. These rest services are used to view eligible offers, select offers and configure them. Compatibility checking will be done as well.

3.1. Supported Operations

Operation Name	Description	Type
RetrieveBrowsingCategoriesAndFilters	Returns the browsing categories and sub-categories hierarchy information and filter facets per category.	Stateless
RetrieveCatalogItems	Returns the eligible offers for a customer.	Stateless
CreateOrder	Retrieves high level information of products and associated Order Actions which are included in the current order based on the Order ID provided as input.	Stateless
ProductOrderItems		Stateless
ProductConfigurationOptions		Stateless
ProductConfigurations		Stateless

3.2. RetrieveBrowsingCategoriesAndFilters

3.2.1. Description

The REST returns the browsing categories and sub-categories hierarchy information, for example, Ordering Gateway category.

In addition, the REST returns the filter facets defined in MEC.

The recommendation for Charter Gateway is to call this REST when the Charter Gateway server is brought up, and then keep the information for later use in Tibco cache.

3.2.2. SDD document

2466035 - Charter - REST Services - RetrieveBrowsingCategoriesAndFilters - SDD

3.2.3. URL and Method

URL: /rp-webapp-9-common/commerce/browsing-category-structure

Example URL: /rp-webapp-9-common/commerce/browsing-category-structure?sc=CC&lo=en_US

Method: GET

3.2.4. Example JSON Input – N/A

3.2.5. Example JSON Output



RetrieveBrowsingCategoriesAndFiltersOutput.txt

3.2.6. Additional Examples – Negative Scenarios

3.2.6.1. Wrong Locale

3.2.6.1.1 Example URL

/rp-webapp-9-common/commerce/browsing-category-structure?sc=CC&lo=en

3.2.6.1.2 Example JSON Input –N/A

3.2.6.1.3 Example JSON Output



RetrieveBrowsingCategoriesAndFilters wrong locale output.txt

3.2.6.2. Wrong Sales Channel

3.2.6.2.1 Example URL

/rp-webapp-9-common/commerce/browsing-category-structure?sc=SS&lo=en_US

3.2.6.2.2 Example JSON Input –N/A

3.2.6.2.3 Example JSON Output



RetrieveBrowsingCategoriesAndFilters wrong sales channel output.txt

3.2.6.3. Missing Header



RetrieveBrowsimgCategoriesAndFilters missing header (locale).txt

3.2.6.3.1 Example URL

/rp-webapp-9-common/commerce/browsing-category-structure?sc=CC

3.2.6.3.2 Example JSON Input –N/A

3.2.6.3.3 Example JSON Output –N/A



RetrieveBrowsimgCategoriesAndFilters missing header (locale) output.txt

3.3. RetrieveCatalogItems

3.3.1. Description

This REST returns the eligible offers for a customer by providing the relevant Category ID as input. (Ordering Gateway category)

3.3.2. SDD document

2465983 - Charter - REST Services - RetrieveCatalogItems - SDD

3.3.3. URL and Method

URL: /rp-webapp-9-common/commerce/customer/{customer-id}/browsing-category-structure/{browsing-category-structure-id}/retrieve-catalog-items

Example URL: /rp-webapp-9-common/commerce/customer/0/browsing-category-structure/6482/retrieve-catalog-items?sc=CC&lo=en_US

Method: POST

3.3.4. Example JSON Input



inputRequestCatalogItems.txt

3.3.5. Example JSON Output



ImplRetrieveCatalogItemsResponse.txt

3.4. CreateOrder

3.4.1. Description

The REST creates new order with a unique order ID based on the eligible offers that are provided in advanced.

3.4.2. SDD document

2466053 - Charter - REST Services - CreateOrder - SDD

3.4.3. URL and Method

URL: /rp-webapp-9-common/commerce/customer/{id}/product-order/create-order

Example URL: /rp-webapp-9-common/commerce/customer/0/product-order/create-order?sc=CC&lo=en_US

Method: POST

3.4.4. Example JSON Input



CreateOrder input payload.txt

3.4.5. Example JSON Output



CreateOrder output.txt

3.5. ProductOrderItems

3.5.1. Description

REST service retrieves high level information of products and associated Order Actions which are included in the current order based on the OE Order ID provided as input.

3.5.2. SDD document

2467139 - Charter - REST Services - NPC ProductOrderItems - SDD

3.5.3. URL and Method

URL: commerce/customer/{customer-id}/product-order/{product-order-id}/product-order-items

Example URL: /commerce/customer/99999999/product-order/157026/product-order-items?sc=CC&lo=en_US

Method: GET

3.5.4. Example JSON Input – N/A

3.5.5. Example JSON Output



ImplProductOrderItemsResponse_pricing.txt

3.6. ProductConfigurationOptions

3.6.1. Description

3.6.2. SDD document

2467137 - Charter - REST Services - NPC ProductConfigurationOptions - SDD

3.6.3. URL and Method

URL: /commerce/customer/{id}/product-order-item/{product-order-item-id}/product-configuration-options

Example URL: http://illin3391:50830/rp-webapp-9-common/commerce/customer/99999999/product-order-item/157049/product-configuration-options?sc=CC&lo=en_US

Method: POST

3.6.4. Example JSON Input



ImplProductConfigurationOptionsRequest.txt

3.6.5. Example JSON Output



ImplProductConfigurationOptionsResponse.txt

3.7. ProductConfigurations

3.7.1. Description

3.7.2. SDD document

2467138 - Charter - REST Services - NPC ProductConfigurations - SDD

3.7.3. URL and Method

URL: /commerce/customer/{customer-id}/product-order-id/{product-order-id}/product-configurations

Example URL: http://localhost:7001/rp-webapp-9-common/commerce/customer/99999999/product-order-id/157030/product-configurations?sc=CC&lo=en_US

Method: PUT

3.7.4. Example JSON Input for add component



AddComponentRequest.txt

3.7.5. Example JSON output for add component



AddComponentResponse.txt

3.7.6. Example JSON Input for remove component



RemoveComponentRequest.txt

3.7.7. Example JSON output for remove component



RemoveComponentResponse.txt

3.7.8. Example JSON Input for modify component



ModifyComponentRequest.txt

3.7.9. Example JSON output for modify component



ModifyComponentResponse.txt

3.7.10. Example JSON Input for add price plan



AddPPRequest.txt

3.7.11. Example JSON output for add price plan



AddPPResponse.txt

3.7.12. Example JSON Input for remove price plan



RemovePPRequest.txt

3.7.13. Example JSON output for remove price plan



RemovePPResponse.txt

3.7.14. Example JSON Input without product changes



request without product changes.txt

3.7.15. Example JSON output without product changes



response without product changes.txt

4. OPEN ISSUES – N/A

5. APPENDIX – N/A
