Charter - UXF - Rest Services

JSON examples

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# Introduction

## 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](https://en.wikipedia.org/wiki/JSON) 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"}]}]}

## 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 |

## 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 Paramerters - Example:

1. Locale: lo=en\_US
2. Sales Channel: sc=CC

## 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]

0: {

errorCode: "12005"

errorMessage: "Mandatory field %fieldName is

missing"

sourceSystem: "OMS"

fieldName: "%fieldName%"

}

}

}

# 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, cashing/ session handling is not part of UXF services scope, Charter Gateway is responsible for it.

## 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.

# 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.

## 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 |

## RetrieveBrowsingCategoriesAndFilters

### 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.

### SDD document

2466035 - Charter - REST Services - RetrieveBrowsingCategoriesAndFilters - SDD

### 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

### Example JSON Input – N/A

### Example JSON Output



### Additional Examples – Negative Scenarios

#### 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



#### 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



#### Missing Header



##### 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



## RetrieveCatalogItems

### Description

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

### SDD document

2465983 - Charter - REST Services - RetrieveCatalogItems - SDD

### 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

### Example JSON Input

### 

### Example JSON Output

## 

## CreateOrder

### Description

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

### SDD document

2466053 - Charter - REST Services - CreateOrder - SDD

### 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

### Example JSON Input



### Example JSON Output



## ProductOrderItems

### 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.

### SDD document

2467139 - Charter - REST Services - NPC ProductOrderItems - SDD

### 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

### Example JSON Input – N/A

### Example JSON Output



## ProductConfigurationOptions

### Description

### SDD document

2467137 - Charter - REST Services - NPC ProductConfigurationOptions - SDD

### 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

### Example JSON Input



### Example JSON Output



## ProductConfigurations

### Description

### SDD document

2467138 - Charter - REST Services - NPC ProductConfigurations - SDD

### 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

### Example JSON Input for add component



### Example JSON output for add component



### Example JSON Input for remove component



### Example JSON output for remove component



### Example JSON Input for modify component



### Example JSON output for modify component



### Example JSON Input for add price plan



### Example JSON output for add price plan



### Example JSON Input for remove price plan



### Example JSON output for remove price plan



### Example JSON Input without product changes



### Example JSON output without product changes



# Open Issues – N/A

# Appendix – N/A