



CHARTER
VERSION 1.0

Charter - REST Services - RetrieveCatalogItems - SDD

Service Design Document

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1 Overview

This Service Design Document (SDD provides service implementation design details for the retrieveCatalogItems REST.

This REST service will enable the Charter Gateway system to retrieve the eligible offers for a customer, to display them on the screen to the user.

All the available offers will be defined in MEC and will be under a single category.

Having all the available offers defined under a single category by MEC, enables retrieving all the available eligible offers, which enables Charter Gateway to handle filtering and searching at the UI level, by using the offer attributes defined by MEC.

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 3.1.10.3.12.4)

2 Service Definition

2.1 Service Name

Retrieve Catalog Items

2.2 Service Endpoints

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

2.3 Required Projects

REST URL will be: POST /commerce/customer/{customer-id}/browsing-category-structure/{browsing-category-structure-id}/retrieve-catalog-items.

2.4 Service WSDL - N/A

3 Operation Definition

Name	Request Parameters	Response	Status
retrieveCatalogItems	ImplRetrieveCatalogItemsRequest	ImplRetrieveCatalogItemsResponse	

3.1 retrieveCatalogItems

This API retrieves items listed under a specific category tree, under the category and under all sub categories.

3.1.1 Request Parameters

3.1.2 ImplRetrieveCatalogItemsRequest

Field Name	Data Type	Valid values	Mandatory/Optional	Description
implCategoryItemsInput	ImplCategoryItemsInput	N/A	Optional	Main output
serviceabilityObject	ServiceabilityObject	N/A	Mandatory	Additional information to support serviceability
implBaseRequest	ImplBaseRequest	N/A	Mandatory	Base input

3.1.2.7 ImplBaseRequest

Field Name	Data Type	Valid values	Mandatory/Optional	Description
applicationId	N/A	String	Optional	For example, Charter Gateway
transactionId	N/A	String	Optional	A unique ID for a certain REST call
timeStamp	N/A	Date	Optional	The time the REST was called

3.1.2.333.1.2.1 ImplCategoryItemsInput

Field Name	Data Type	Valid values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
sortType	CatalogItemSort Type	N/A	Optional	Sorting will be done according to the value that will be sent.
includeExpiredOfferings	Boolean	True/False	Optional	If value is TRUE, return expired ProductOfferings and PriceSchemas according to the requested, in addition to the not expired entities. If no value is sent then will be set to False.

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Field Name	Data Type	Valid values	Mandatory /Optional	Description
sortAscending	Boolean	True – Sort ascending, False – sort descending	Optional	Default will be in ascending order.
FilterFacets	FilterFacet[]	N/A	Not in use	Not in use
ProductId	String	N/A	Not in use	Not in use
TopItems	Boolean	N/A	Not in use	Not in use
customerId	String	N/A	Mandatory	customer id
includeEligibleOffering Only	Boolean	True/False	Optional	True - Return only eligible offers; False - Return all offers
includeAtleastInputLOBS	Boolean	True/False	Optional	If value is TRUE return all the eligible and sellable ProductOfferings having at least those lines of business specified in ProductOfferingFilterInfo.linesOfBusiness that contains the matching result.
text	String	N/A	Optional	The free text string input based on which the search is performed on the ProductOfferings and ProductSpecifications data
serviceabilityObject	ServiceabilityObject	N/A	Mandatory	Additional information to support serviceability

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3.1.2.403.1.2.2 Link – Not in use

Field Name	Data Type	Valid values	Mandatory/Optional	Description
rel	String	N/A	Not in use	Not in use
href	String	N/A	Not in use	Not in use

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3.1.2.413.1.2.3 CatalogItemSortType

Field Name	Data Type	Valid values	Mandatory/Optional	Description
value	String	NM - Sort by catalog item name, OC - Sort according to catalog item One-time charge, OR - Sort according to catalog item overall rating, PD - Sort according to the date catalog item was published., RC - Sort according to catalog item recurring charge	Mandatory	Sorting will be performed according to one of the valid values.

3.1.2.423.1.2.4 FilterFacet – Not in use

Field Name	Data Type	Valid values	Mandatory/Optional	Description
Links	Link[]	N/A	Not in use	Not in use
lob	String[]	TV, INTERNET, PHONE	Optional	Line Of Business, in case of multiple values send as array.
lob	String	TV, INTERNET, PHONE	Optional	Line Of Business, in case there is only one
valueRestriction	CharacteristicValueRestrictionType	N/A	Optional	Defines how the possible set of values for the ValueType are restricted
additionalProperties	FlexAttr[]	N/A	Optional	List of additional properties that were assigned to the FilterFacet
valueType	CharacteristicValueBasicType	N/A	Optional	The underlying (basic) type of values
name	String	N/A	Optional	Free format short textual description
id	String	N/A	Optional	A unique identifier
values	FilterFacetValue[]	N/A	Optional	List of values of the facet to be used for filtering
code	String	N/A	Optional	A unique identifier that is human readable.

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3.1.2.433.1.2.5 CharacteristicValueRestrictionType – Not in use

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Field Name	Data Type	Valid Values	Mandatory/Optional	Description
value	String	DI - DISCRETE, GE - GENERAL, RA - RANGE	Mandatory	Restriction type, use only mentioned valid values.

3.1.2.443.1.2.6 CharacteristicValueBasicType – not in use

Field Name	Data Type	Valid values	Mandatory/Optional	Description
value	String	BL - BOOLEAN, CX - COMPLEX, DT - DATE, DB - DOUBLE, NU - INTEGER, CH - STRING.	Mandatory	Basic types, use only from the valid values list.

3.1.2.453.1.2.7 FilterFacetValue – not in use

Field Name	Data Type	Valid values	Mandatory/Optional	Description
Links	Link[]	N/A	Not in use	Not in use
valueTo	String	N/A	Mandatory	The upper range value that a range-type item property can take on.
value	String	N/A	Mandatory	A value that the item can take on. In the case of a range value, this represents the lower value of the range.
id	String	N/A	Mandatory	A unique identifier. Provider write only

3.1.2.463.1.2.8 ServiceabilityObject

Field Name	Data Type	Valid values	Mandatory/Optional	Description
sysPrinAgent	String	N/A	MandatoryOptional	Code related to location
LOBServiceability	LOBServiceability[]	N/A	MandatoryOptional	LOB name and status

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Field Name	Data Type	Valid values	Mandatory/Optional	Description
availabilityGroup	String	BPT Values defined by MECN/A Default value — 'NA' TBD	Mandatory Optional	Parameter used for phone
dwelType	String	BPT Values defined by MEC Default value — 'NA' TBD N/A	Mandatory Optional	Type used for competitive areas
customerIsNew	Boolean	Default value - True/false false	Mandatory Optional	Indicator to indicate whether this is a new or existing customer
customerHasActiveAccount	Boolean	Default value - true	Mandatory	Indicator to indicate whether the customer has an active account.
customerType	String	BPT Values defined by MECN/A Default value — Residential TBD	Mandatory Optional	Business, Residential – Currently all implementation are Residential
orderActionType	String	BPT Values defined by MECN/A Default value — Change. List of valid values: Provide. Change. Transfer TBD	Mandatory Optional	ActionType - Provide, Change, Cease, etc.
userRole	String	BPT Values defined by MEC Default value — N/A CSR TBD	Mandatory Optional	User roles: manager, CSR
offerCode	String[]	N/A	Mandatory Optional	Offer code
additionalAttribute []	AdditionalAttribute	N/A	Optional	If some of the parameters for eligibility rules/serviceability are necessary (and were not in the initial list) can be added here

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3.1.2.473.1.2.9 AdditionalAttribute

Field Name	Data Type	Valid values	Mandatory/Optional	Description
name	String	N/A	Mandatory	Attribute name.
value	String	N/A	Mandatory	Attribute value.

3.1.2.483.1.2.10 LOBServicability

Field Name	Data Type	Valid values	Mandatory/Optional	Description
LOBName	String	BPT Values defined by MECTV, INTERNET, PHONETB D	Mandatory	LOB Name
LOBServicableStatus	String	true, false	Mandatory	An indication whether the LOB is serviceable or not

3.1.3 Request Sample

TBD

3.1.4 Response

3.1.4.1 ImplRetrieveCatalogItemsResponse

Field Name	Data Type	Valid values	Mandatory/Optional	Description
implSearchResults	ImplSearchResults	N/A	Optional	Main output
implBaseResponse	ImplBaseResponse	N/A	Mandatory	Additional generic information.

3.1.4.2 ImplSearchResults

Field Name	Data Type	Valid values	Mandatory/Optional	Description
Links	Link[]	N/A	Not in use	Not in use
items	SearchCatalogItems	N/A	Optional	
categories	SearchResultsCategory[]	N/A	Optional	
flexAttr	FlexAttr[]	N/A	Optional	List of additional properties that are assigned to the ProductOffering

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3.1.4.3 Link – Not in use

Field Name	Data Type	Valid values	Mandatory/Optional	Description
rel	String	N/A	Not in use	Not in use
href	String	N/A	Not in use	Not in use

3.1.4.4 SearchCatalogItems

Field Name	Data Type	Valid Values	Mandatory/Optional	Description
Links	Link[]	N/A	Not in use	Not in use
itemsPerCategory	Integer	N/A	Mandatory	Number of items to present on each page
itemsPerPage	Integer	N/A	Mandatory	Number of items per page
startIndex	Integer	N/A	Mandatory	The start index for this representation.
results	SearchResult[]	N/A	Optional	List of results
totalResults	Integer	N/A	Mandatory	Number of total results

3.1.4.5 SearchResult

Field Name	Data Type	Valid Values	Mandatory/Optional	Description
Links	Link[]	N/A	Not in use	Not in use
calculatedPrices	ImplCalculatedPrice[]	N/A	Optional	Calculated prices by type.
RecurringPrice	RecurringPrice	N/A	Not in useOptional	Not in use recurring price
OneTimePrice	OneTimePrice	N/A	OptionalNot in use	Not in use one time price
lob	String	TV, INTERNET, PHONE	Optional	Single line of business
lob	String[]	TV, INTERNET, PHONE	Optional	When there is more than one line of business.
catalogItemID	String	N/A	Optional	The catalog id of the item
catalogItemName	String	N/A	Mandatory	Item's name
businessType	ItemBusinessType	N/A	Optional	Representation of the business type of item in the search result.
catalogItemDescription	String	N/A	Mandatory	Item's description
catalogItemImage	String	N/A	Optional	URL of image
attachments	Attachment[]	N/A	Optional	List of attachments

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Field Name	Data Type	Valid Values	Mandatory/Optional	Description
planType	String	N/A	Optional/Not in use	Relevant for SearchResult of type PLAN only - The type of plan - either prepaid (PRE) or postpaid (POST)
HasCrossProductDiscount	Boolean	True/false	Not in use	Flag to indicate whether cross-product discount is available on/via this catalog item.
minNumOfSubscribers	String	N/A	Not in use/Mandatory	Relevant for SearchResult of type Plan only - indicates what is the minimum number of subscribers required for this plan.
numOfSubscribers	String	N/A	Not in use/Mandatory	Relevant for SearchResult of type Plan only - Indicates how many subscriber are allowed for this plan
parentAssignedID	String	N/A	Optional	Relevant only for result that is PRICE_PACKAGE: Contains assigned ID of parent service
parentCatalogItemID	String	N/A	Optional	Relevant only for result that is PRICE_PACKAGE: Contain catalog ID of parent service.
parentCatalogItemName	String	N/A	Optional	Relevant only for result that is PRICE_PACKAGE: Contain name of parent service.
parentCurrentStatus	ItemStatus	N/A	Optional	Relevant only for result that is PRICE_PACKAGE: Contain status of parent service.
relationID	String	N/A	Optional	Relation ID
SharedPlan	SharedPlan	N/A	Not in use	Representation of whether this SearchResult is a shared plan. Only applicable for businessType = PLAN
TopRecommended	Boolean	True/false	Not in use	If set to True, indicates whether this catalog item is a top recommended one for the customer, meaning that this catalog item best fits the customer's needs. If set to False, indicates that this is not a Top Recommended item.

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Field Name	Data Type	Valid Values	Mandatory/Optional	Description
				By default this attribute is set to False.
containingOfferings	ContainingOffering[]	N/A	Optional	The containing offerings of the search result
BundleSearchResults	BundleSearchResult[]	N/A	Not in use	Not in use
AssignedID	String	N/A	Not in use	Not in use
CatalogItemBanner	String	N/A	Not in use	Not in use
CatalogItemDisplayName	String	N/A	Not in use	Not in use
CompatibleWithDevice	CompatibleWithDevice	N/A	Not in use	Not in use
CurrentStatus	ItemStatus	N/A	Not in use	Not in use
eligibilityReason	String	N/A	Optional	Description of eligibility status reason. For eligibility rules, there is an option to define a message with a reason why the offer is not eligible, i.e. This product Offering is only for new customers
eligibilityStatus	String	BPT Values defined by MECN/ATB D	Optional	Whether eligibility status is Eligible
expiredIndication	Boolean	True/False	Optional	Indication of expired item.
type	CatalogItemType	N/A	Mandatory	Represents the type of the catalog item
Bundle	Boolean	True/False	Not in use	Not in use
currency	String	N/A 'USD'	Optional	Reflects catalog prices, if defined in multiple currencies
flexAttr	FlexAttr[]	N/A	Optional	List of additional properties that are assigned to the ProductOffering

3.1.4.6 [RecurringPrice](#) — Not in use

Field Name	Data Type	Valid values	Mandatory/Optional	Description
Links	Link[]	N/A	Not in use	Not in use
o OriginalAmount	BigDecimal	N/A	Optional	The original amount of the price - before any discounts.
d DiscountPercentage	BigDecimal	N/A	Optional	Discount percentage

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Field Name	Data Type	Valid values	Mandatory/Optional	Description
f Frequency	String	N/A	Not in use Optional	The price frequency, for example: monthly, weekly.
f inalAmount	BigDecimal	N/A	Optional	The final amount of the price after any discounts and override/waive
f inalAmountWithTax	BigDecimal	N/A	Optional	The finalAmount + finalTaxAmount
f inalTaxAmount	BigDecimal	N/A	Optional	The final tax amount of the price after any discounts.
o OriginalTaxAmount	BigDecimal	N/A	Optional	The original tax amount of the price - before any discounts.
m MaxAmount	BigDecimal	N/A	Optional	The maximum price that can be applied.
m MinAmount	BigDecimal	N/A	Optional	The minimum price that can be applied
d Description	String	N/A	Optional	Charge description
c urrency	String	N/A U SD	Optional	The currency of the price

3.1.4.7 ~~OneTimePrice~~ — ~~Not in use~~

Field Name	Data Type	Valid values	Mandatory/Optional	Description
Links	Link[]	N/A	Not in use	Not in use
o OriginalAmount	BigDecimal	N/A	Optional	The original amount of the price - before any discounts.
d DiscountPercentage	BigDecimal	N/A	Optional	Discount percentage
f inalAmount	BigDecimal	N/A	Optional	The final amount of the price after any discounts and override/waive.
f inalAmountWithTax	BigDecimal	N/A	Optional	The finalAmount + finalTaxAmount
f inalTaxAmount	BigDecimal	N/A	Optional	The final tax amount of the price after any discounts
o OriginalTaxAmount	BigDecimal	N/A	Optional	The original tax amount of the price - before any discounts
m MaxAmount	BigDecimal	N/A	Optional	The maximum price that can be applied

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Field Name	Data Type	Valid values	Mandatory/Optional	Description
mMinAmount	BigDecimal	N/A	Optional	The minimum price that can be applied
dDescription	String	N/A	Optional	Charge description
cCurrency	String	N/A, 'USD'	Optional	The currency of the price

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3.1.4.8 ItemBusinessType

Field Name	Data Type	Valid values	Mandatory/Optional	Description
value	String	ACCESSORY, BUNDLE_PLAN, DEVICE, F_N_F_SERVICE, OFFERING, PLAN, PRICE_PACKAGE, SERVICE, TV_CHANNEL, TV_PACKAGE	Mandatory	Will hold the item business type as per one of the valid values.

3.1.4.9 Attachment

Field Name	Data Type	Valid values	Mandatory/Optional	Description
Links	Link[]	N/A	Not in use	Not in use
purpose	String	BPT Values defined by MECN ATBD	Optional	The purpose of the attachment: Valid values from AttachmentPurpose. Examples might include: Marketing Training

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Field Name	Data Type	Valid values	Mandatory/Optional	Description
attachmentLocation	String	N/A	Mandatory	A URL (or some other location string) that defines the logical location of the Attachment within some external repository
type	String	BPT Values defined by MECN /ATBD	Optional	A logical type for the Attachment: Valid values from AttachmentType. Examples might include: Document Picture Contrast with mime_type, which is the technical type of the content

3.1.4.10 ItemStatus

Field Name	Data Type	Valid values	Mandatory/Optional	Description
value	String	ACTIVE, PROPOSED_CURRENT_PRODUCT_OFFERING, PROPOSED_OTHER_PRODUCT_OFFERING, SUSPENDED	Mandatory	ACTIVE - indicates that item is assigned and active. PROPOSED_CURRENT_PRODUCT_OFFERING - indicates that item is not assigned but under same offer PROPOSED_OTHER_PRODUCT_OFFERING - indicates that item is not assigned and under different offer. SUSPENDED - Indicates that item is assigned and suspended

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3.1.4.11 SharedPlan – Not in use

Field Name	Data Type	Valid values	Mandatory/Optional	Description
Value	String	NA, NO, YES	Mandatory	Shared plan valid values.

3.1.4.12 ContainingOffering

Field Name	Data Type	Valid values	Mandatory/Optional	Description
Links	Link[]	N/A	Not in use	Not in use
offeringId	String	N/A	Mandatory	Catalog ID of the containing offering
productSpecIds	String[]	N/A	Optional	Catalog ID of the top-level product that contains the search result. The first ID in this array is related to the first ID in the offeringToProductIds[]. This attribute is populated only for PLAN or PRICE_PACKAGE
productSpecIds	String	N/A	Optional	Either a list or a single value will be returned
offeringToProductIds	String	N/A	Mandatory	Either a list or a single value will be returned
offeringToProductIds	String[]	N/A	Mandatory	Catalog ID of the relationship between the containing offering and the containing product(s). The relation ID kept in offeringToProductIds[0] is the relationship between the offering whose ID is kept in offeringId and the product kept in productSpecIds[0]. The relation ID kept in offeringToProductIds[1] is the relationship between the offering whose ID is kept in offeringId and the product kept in productSpecIds[1] and so on.

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3.1.4.13 BundleSearchResult – Not in use

Field Name	Data Type	Valid values	Mandatory/Optional	Description
Links	Link[]	N/A	Not in use	Not in use
OfferingName	String	N/A	Mandatory	Offer name
PlanName	String	N/A	Optional	Plan name
LobImage	String	N/A	Optional	URL of image
DisplayName	String	N/A	Optional	Item's name

3.1.4.14 CompatibleWithDevice – Not in use

Field Name	Data Type	Valid values	Mandatory/Optional	Description
value	String	<ul style="list-style-type: none">NA,NO,YES	Mandatory	Valid values that are compatible with device field.

3.1.4.15 CatalogItemType

Field Name	Data Type	Valid values	Mandatory/Optional	Description
value	String	PRODUCT_OFFERING, PRODUCT_SPEC	Mandatory	Valid values for catalog item type.

3.1.4.17 ImplCalculatedPrice

Field Name	Data Type	Valid values	Mandatory/Optional	Description
ppCid	String	N/A	Mandatory	the Price Plan Catalog ID (PP CID) automatically generated in MEC
ppType	String	RP—Retail Price (regular price). Each price plan is associated with a retail price (the record with this PP TYPE is mandatory) DP—Percentage Discount (the record with this PP TYPE is optional) DF—Flat Discount (this amount overrides the regular price) (the record with this PP TYPE is optional) DD—Dollar Off Discount (the record with this PP TYPE is optional)	Mandatory	the Price Plan type

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Field-Name	Data-Type	Valid-values	Mandatory/ Optional	Description
tierFrom	String	N/A	Optional	The discount tier's start (in months) For example 1, means either from the first month, or the thirteenth, meaning from the second year.
tierTo	String	N/A	Optional	The discount tier end (in months), for example 12, meaning until the 12th month (discount is applied for one year only). The value 999 will mean that the discount is not limited in time.
quantityAtt	String	N/A	Optional	The ID of the quantity attribute on the component. This code, which is defined in MEC for each attribute, will help the target application to find the quantity value set during the product configuration
quantityFrom	Integer	N/A	Optional	The number of the service instances from which the discount is applied
quantityTo	Integer	N/A	Optional	The number of the service instances to which the discount is applied. The value 999 will mean that the discount is not limited in its number of instances
amountType	String	OC—One-Time price RC—Recurring price DC—Discount	Mandatory	Type of the amount price in the next column
amount	Integer	N/A	Mandatory	The value of the dollar amount for the retail price, flat discount or dollar off discount, or percentage in case of a percentage discount.

3.1.4.843.1.4.16 SearchResultsCategory

Field Name	Data Type	Valid values	Mandatory/Optional	Description
Links	Link[]	N/A	Not in use	Not in use
categoryName	String	N/A	Mandatory	The category name
currentPlanRelationID	String	N/A	Optional	Relation ID of the plan of the current product to its parent

Field Name	Data Type	Valid values	Mandatory/Optional	Description
itemsPerCategory	Integer	N/A	Mandatory	Number of items to present on each page
itemsPerPage	Integer	N/A	Optional	Integer
startIndex	Integer	N/A	Optional	The start index for this Representation
totalResultsInCategory	Integer	N/A	Mandatory	Number of total results
categoryId	String	N/A	Mandatory	Category ID
results	SearchResult[]	N/A	Optional	List of sub results

3.1.4.853.1.4.17 FlexAttr

Field Name	Data Type	Valid values	Mandatory/Optional	Description
name	String	N/A	Mandatory	Attribute name.
value	FlexAttrValue	N/A	Mandatory	Attribute values

3.1.4.863.1.4.18 FlexAttrValue

Field Name	Data Type	Valid values	Mandatory/Optional	Description
integerValue	Integer	N/A	OptionalMandatory	Value as integer
stringValue	String	N/A	OptionalMandatory	Value as string
dateValue	Date	N/A	OptionalMandatory	Value as date
decimalValue	BigDecimal	N/A	OptionalMandatory	Value as double
booleanValue	Boolean	N/A	OptionalMandatory	Value as boolean
valueType	FlexAttrValueType	N/A	Mandatory	Value type

3.1.4.873.1.4.19 FlexAttrValueType

Field Name	Data Type	Valid values	Mandatory/Optional	Description
value	String	BOOLEAN, DATE, DECIMAL, INTEGER, STRING	Mandatory	Attribute value types. Use only from the valid values list.

3.1.4.883.1.4.20 ImplBaseResponse

Field Name	Data Type	Valid values	Mandatory/Optional	Description
transactionId	N/A	String	Optional	A unique ID for a certain REST call

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Field Name	Data Type	Valid values	Mandatory/Optional	Description
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

3.1.5 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
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
sc (sales channel)	CC	String	Query	Mandatory	Sales channel
lo(locale)	en	String	Query	Mandatory	Locale
pageSize	N/A	Integer	Query	Optional	Enables the consumers to retrieve a quantity of results. Default value will be set to 10.

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Field Name	Valid Values	Data Type	Type	Mandatory/Optional	Description
browsing-category-structure-id	N/A	String	Path	Mandatory	browsing category structure ID
customer-id	N/A	String	path	Mandatory Optional	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 Structure

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
  }
}
```

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3.1.12.4 Possible Error Messages

#	Exception	Scenario	Error Message
1	BadRequest	Mandatory input was not sent.	BadRequest
2	BadRequest	Invalid customer id.	BadRequest
3	InternalServerError	General exception in the BE system.	InternalServerError

4 Open Issues – N/A

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Appendix A. Fields derived from MEC

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

Field Name	Data Type	section
availabilityGroup	ServiceabilityObject	3.1.2.8
dweltType	ServiceabilityObject	3.1.2.8
customerType	ServiceabilityObject	3.1.2.8
orderActionType	ServiceabilityObject	3.1.2.8
userRole	ServiceabilityObject	3.1.2.8
LOBName	LOBServicability	3.1.2.10
eligibilityStatus	SearchResult	3.1.4.5
purpose	Attachment	3.1.4.9
type	Attachment	3.1.4.9

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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 [Mmm-dd-yyyy]	Section	Changes	Sent to site	Approving Manager	DC Ver.
00.00			Jan-01-2014	Initial Version		N		00.00
	Jonathan Cohen	TechComm	Jun-14-2015	Initial TW review		N		0.8
	Orit Sarfaty-Preisler			Finalize		Y		1.0
		Malki Sabag	Jun-22-2015	3.1.2.6 3.1.2.7	Updated the objects in this sections to 'not in use'	NY/N		1.6
		Malki Sabag	Jun-22-2015	3.1.4.5	* Changed this fields to 'not in use': - planType = minNumOfSubscribers = numOfSubscribers * added valid value to 'currency' field	NY/N		1.6
		Malki Sabag	Jun-22-2015	3.1.4.6	* Changed this fields to 'not in use': frequency * added valid value to 'currency' field * Changed the fields name to start with lowercase	NY/N		1.6

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Charter - REST Services - RetrieveCatalogItems - SDD Service Design Document
Document Release Information

Soft ware Vers ion	Editor/Aut hor	Application	Edit Date [Mmm-dd- yyyy]	Section	Changes	Sent to site	Approving Manager	DC Ver.
		Malki Sabag	Jun-22-2015	3.1.4.7	* Changed this fields to 'not in use'; frequency * added valid value to 'currency' field * Changed the fields name to start with lowercase	N		1.6
		Tammy Shalev	Jul-05-2015	3.1.2	Changed the location of the 'ServiceabilityObject' from the 'ImplCategoryItemsInput' structure to the 'ImplRetrieveCatalogItemsRequest' structure	N		1.7
		Tammy Shalev	Jul-05-2015	All	Updated section numbers	N		1.8
		Tammy Shalev	Jul-07-2015	3.1.2.8, 3.1.2.10, 3.1.4.5, 3.1.4.9	Updated valid values to - BPT Values defined by MEC for this fields: - value - availabilityGroup - dwellType - customerType - orderActionType - userRole - LOBName - eligibilityStatus - purpose - type	Y		1.8

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