

CHARTER VERSION 1.0

Charter - REST Services NPC Product Configurations SDD

Services Design Document

Document Information

Version:	0.5
Publication Date:	
Catalog Number:	document_center\2467138 Version 0.5
Information Security:	Level 1 – Confidential
Created:	6/15/2015 9:09:00 AM
Account/FOP:	Charter Communications
Author:	malki sabag
Editor:	malki sabag
Last Edited:	06/15/2015 11:36:49 AM
File Name:	Converted Charter - REST Services NPC product-configurations - SDD.docx
Template:	Development.dotm

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1 Overview

This Service Design Document (SDD) provides service implementation design details for the product-configurations REST.

The Product Configurations REST is called after the user finishes configuring all the products, and enables the user to validate the configuration and save it in the Ordering system for all the products.

The input of the Product Configurations REST includes all the active order actions in the order, and the configuration changes made for each product, to validate and save all products in the order via the Ordering system.

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)

Service Definition 2

2.1 Service Name

Product configurations

2.2 Service Endpoints

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

Required Projects 2.3

The REST URL that will be used is:

 $PUT/commerce/customer/\{customer-id\}/product-order-id/\{product-order-id\}/product-order-id\}/product-order-id/\{product-order-id/\{product-or$ configurations.

Service WSDL - N/A 2.4

Operation Definition

Name	Request Parameters Response		Status
productConfigur ations	Impl Products Configuration Request	ImplProductConfigurationsRespo nse	

productConfigurations 3.1

This service returns available order actions for a given product/s assigned products for given customer

3.1.1 Request Parameters

Impl Products Configuration Request

Field Name	Data Type	Valid values	Mandatory /Optional	Description
implValidateAndUpdateMulti ProductsConfigurationRequest	ImplValidateAndUpdateMulti ProductsConfigurationRequest	N/A	Optional	Main output input
serviceabilityObject	ServiceabilityObject	N/A	Mandatory	Additional information to support serviceability

3.1.1.2 ImplValidate And Update MultiProducts Configuration Request

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
activityForConfiguration	String	BPT Values defined	Mandatory	If empty then it is taken from configuration parameter.
		by MECN/ ATBD		Out of Box this is the Negotiate Product Configuration
<u>c</u> ConfigurationLevel	ConfigurationLevelFilter	_N/A	Mandatory	The level of configuration to
			Not in use	be returned. Charter must always send FULL Not in use
settingsView	SettingsViewFilter	N/A	MandatoryOpt ional	The Settings View Filter of the ProductSpecifications.
				Charter should always send 'FULL'
retrieveSchemaPricing	Boolean	True/Fa lse	Mandatory	This parameter indicates if to retrieve prices of the optional price schema

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Field Name	Data Type	Valid Values	Mandatory /Optional	Description
ReturnConfiguration	ReturnedConfiguration	N/A	Not in use	If set to ALL: PRODUCT_CONFIGURAT ION, CATALOG_DATA and SUMMARY. Otherwise: SUMMARY
ReturnConfigurationMasks	UpdateProductConfigura tionMask[]	N/A	Not in use	Not in use
ReturnRemovedItems	Boolean	True/Fa lse	Not in use	Indicates whether to return removed ProductSpecifications
productOrderItems	ChangedProductOrderIte m[]	N/A	Optional	Product order items that have been changed
retrieveComponentPricing	Boolean	True/Fa lse	Mandatory	This parameter indicates whether to retrieve prices of the optional components
confirmationMessagesApp roved	Boolean	True/Fa	Mandatory	Indication whether the user approved rule messages (productConfiguration.mess ages) with CONFIRMATION as {@PATH RuleExecutionMessage#severity}. Default is false

3.1.1.3 Link – not in use

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

3.1.1.4 ConfigurationLevelFilter—not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
<u>v</u> . V alue	String	 FULL, 	Mandatory	Please use a value
	-	• NOT_SELECTE D	-	from the valid values list.

3.1.1.5 SettingsViewFilter

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	FULLQUICK_SETTINGS	Mandatory	Please use a value from the valid values list.

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3.1.1.6 ReturnedConfiguration – not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	ALL,NONE,NOT_VALID	Mandatory	Use a value from the valid values list.

UpdateProductConfigurationMask - not in use 3.1.1.7

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	 CATALOG_DATA, CROSS_PRODUCTS_DISCOUNTS_DATA, PRODUCT_CONFIGURATION, QUOTED_PRICES, QUOTED_PRORATION, QUOTED_TAX, SUMMARY 	Mandatory	Use a value from the valid values list.

3.1.1.8 Changed Product Order Item

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
productOrderItemID	String	N/A	Mandatory	IDs of all product order items that needs to be validated
productID	String	N/A	Mandatory	Product order ID
productChanges	ProductConfigurationChanges	N/A	Optional	Configurations that require change.

ProductConfigurationChanges 3.1.1.9

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
suspendedContainedProducts	SuspendContainedProduct[]	N/A	Optional Mandatory	Contained Products that were suspended
changedSimpleProducts	ChangedSimpleProduct[]	N/A	Optional	Simple Products that were modified
implnNewAssignedPricePlan	$\frac{\text{Impl}}{n \; []} A dded Assigned Price Pla$	N/A	Optional	new AssignedPricePlanDispla y that were added to the Product configuration

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
newSimpleProducts	AddedSimpleProduct[]	N/A	Optionalnot in use	New simple Products that were added to the Product configuration.
resumedContainedProducts	ResumeContainedProduct[]	N/A	Optional <u>not</u> in use	Contained Products that were resumed
changedContainedProducts	ChangedContainedProduct[]	N/A	Optional	Contained Products that were modified (configuration changes)
removedSimpleProducts	RemovedSimpleProduct[]	N/A	Optionalnot in use	Hold information required for removed simple products.
$\frac{impl {\scriptstyle \mp} \underline{R} emoved Assigned Price}{Plan}$	ImplRemovedAssignedPrice Plan []	N/A	Optional	AssignedPricePlanDispla y that were removed from the Product configuration
removedContainedProducts	RemovedContainedProduct[]	N/A	Optional	Contained Products that were removed from the Product configuration
newContainedProducts	AddedContainedProduct[]	N/A	Optional	new contained Products that were added to the Product configuration

3.1.1.10 SuspendContainedProduct

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
productID	String	N/A	Mandatory	Product ID

3.1.1.11 ChangedSimpleProduct

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
productID	String	N/A	Mandatory	Product ID

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
parentTemporaryID	String	N/A	Mandatoryn ot in use	Used if a contained product is added/changed in quantity and each instance needs to be updated differently but the contained product instance is not assigned yet (meaning there is no AP ID). The parentTemporaryID is generated by the consumer (same as temporaryID)
productSpecContainmentID	String	N/A	Mandatoryn ot in use	The ID of the ProductSpecContainme nt. Used if the change is done on a contained Product added by default and not assigned yet. Must be sent if productID is not sent as input
temporaryID	String	N/A	Mandatoryn ot in use	It is a unique ID generated by the consumer that enables the consumer to IDentify the added component in the output. it serves as the consumer IDentifier for entities that do not have an ID yet.
changedCharacteristics	CharacteristicValueChange	N/A	Optional	Characteristics that have been changed by ID and value.
simpleProductSpecID	String	N/A	Mandatory	Unique IDentifier of the simple product specification
parentProductSpecContainmentI D	String	N/A	Mandatoryn ot in use	The ID of the relation to the parent of the added contained product. Used when Contained Products need to be added in quantity with different configuration

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3.1.1.12 CharacteristicValueChange

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
characteristicID	String	N/A	Mandatory	Characteristic ID
value	String	N/A	Mandatory	Characteristic value

3.1.1.13 <u>Impl</u>AddedAssignedPricePlan

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
parentTemporaryID	String	N/A	Mandatory, must be sent if the parent component was added in quantity and there is no assigned instance of the parent component yet, else Optional	This temporary ID is generated by the consumer
productSpecPricingID	String	N/A	Mandatory	The catalog ID of the relation between the component and the assigned profile. It is the ID of the ProductSpecPricing. The specification of pricing for the ProductSpecification. For example associated price plans or activity charges. The definition of the pricing is in the associated PriceSchema or ActivityCharge

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
parentProductSpecContainmentID	String	N/A	Mandatory, Must be sent if the parent component was added in quantity and there is no assigned instance of the parent component yet else Optional.	Relationship between assigned profile and the component. This is the catalog ID of the relation between price and its parent component
parentProductID	String	N/A	Mandatory, Must be sent if the parent component was added in quantity and there is assigned instance of the parent component else Optional.	Assigned Parent component ID.

3.1.1.14 AddedSimpleProduct

Field Name	Data Type	Valid Value s	Mandator y /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
parentTemporaryID	String	N/A	Mandatory	Used if a contained product is added/changed in quantity and each instance needs to be updated differently but the contained product instance is not assigned yet (meaning there is no AP ID). The parentTemporaryID is generated by the consumer (same as temporaryID)
productSpecContainmentID	String	N/A	Mandatory	The ID of the ProductSpecContainment of the ProductSpecification to be added.
temporaryID	String	N/A	Mandatory	It is a unique ID generated by the consumer that enables the consumer to IDentify the added component in the output. it serves as the consumer IDentifier for entities that do not have an ID yet.

Field Name	Data Type	Valid Value s	Mandator y /Optional	Description
changedCharacteristics	CharacteristicValueChange	N/A	Optional	Characteristics that have been changed by ID and value.
businessType	ProductBusinessType	N/A	Mandatory	Indicates the SimpleProduct type. The relevant values are:
simpleProductSpecID	String	N/A	Mandatory	Unique IDentifier of the simple product specification
parentProductSpecContainmentI D	String	N/A	Mandatory	The ID of the relation to the parent of the added contained product. Used when Contained Products need to be added in quantity with different configuration
parentProductID	String	N/A	Mandatory	The parent product ID

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	DEVICE,FRIENDS_AND_FAMILY,TV_CHANNEL,TV_PACKAGE	Mandatory	Please use one of the valid values list.

3.1.1.16 ResumeContainedProduct

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
productID	String	N/A	Mandatory	Product ID
changedCharacteristics	CharacteristicValueChange[]	N/A	Optional	Characteristic s that have been changed by ID and value.

Field Code Changed

3.1.1.17 ChangedContainedProduct

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
productID	String	N/A	Mandatory	Product ID (ap id of this component)
parentTemporaryID	String	N/A	Mandatory (only in case there is no productID)	Used if a contained product is added/changed in quantity and each instance needs to be updated differently but the contained product instance is not assigned yet (meaning there is no AP ID). The parentTemporaryID is generated by the consumer (same as temporaryID)
productSpecContainmentID	String	N/A	Mandatory	The ID of the ProductSpecContainme nt. Used if the change is made on a contained product, added by default and not assigned yet.
temporaryID	String	N/A	Mandatory (only in case there is no productID)	It is a unique ID generated by the consumer that enables the consumer to identify the added component in the output. it serves as the consumer identifier for entities that do not have an ID yet.
changedCharacteristics	CharacteristicValueChange	N/A	Optional	Characteristics that have been changed by ID and value.
parentProductSpecContainmentI D	String	N/A	Mandatory	The ID of the relation to the parent of the added contained product. Used when Contained Products need to be added in quantity with different configuration

3.1.1.18 RemovedSimpleProduct

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
productID	String	N/A	Mandatory	Product ID
parentTemporaryID	String	N/A	Mandatory	Parent temporary ID
productSpecContainmentID	String	N/A	Mandatory	The ID of the ProductSpecContainme nt. Used if the change is done on a contained Product added by default and not assigned yet. Must be sent if productID is not sent as input
simpleProductSpecID	String	N/A	Mandatory	Uniqueidentifier of the new simple ProductSpecification.

3.1.1.19 <u>Impl</u>RemovedAssignedPricePlan

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
parentTemporaryID	String	N/A	Mandatory, Must be sent if the parent product was added in quantity and there is no assigned instance of the parent product yet. This field is generated by the consumer else Optional.	Operation extension attribute. Used as the consumer technical Identifier of a parent product entity.

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
assignedPricePlanID	String	N/A	Mandatory	The ID of an assigned instance of ProductSpecPricing. Mandatory if RemovedAssignedPricePlan #productSpecPricingID is not provided. To be used if an assigned ProductSpecPricing needs to be removed. If there are two assigned instances of the same ProductSpecPricing in the Product configuration the first one with this ID is removed
productSpecPricingID	String	N/A	Mandatory	the catalog ID of the relation between the component and the assigned profile

3.1.1.20 RemovedContainedProduct

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[N/A	Not in use	Not in use
productID	Strin g	N/A	Mandatory	Product ID
parentTemporaryID	Strin g	N/A	Mandatory	Parent temporary ID
productSpecContainmentI D	Strin g	N/A	Mandatory	The ID of the ProductSpecContainment. Used if the change is done on a contained Product added by default and not assigned yet. Must be sent if productID is not sent as input

3.1.1.21 AddedContainedProduct

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
parentTemporaryID	String	N/A	Mandatory	Used if a contained product is added/changed in quantity and each instance needs to be updated differently but the contained product instance is not assigned yet (meaning there is no AP ID). The parentTemporaryID is generated by the consumer (same as temporaryID)
productSpecContainmentI D	String	N/A	Mandatory	The ID of the ProductSpecContainment of the ProductSpecification to be added.

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
temporaryID	String	N/A	Mandatory	It is a unique ID generated by the consumer that enables the consumer to IDentify the added component in the output. it it serves as the consumer IDentifier for entities that do not have an ID yet. Should start with 'C'.
changedCharacteristics	CharacteristicVa lueChange[]	N/A	Optional	Characteristics that have been changed by ID and value.
parentProductSpecContain mentID	String	N/A	Mandatory	The ID of the relation to the parent of the added contained product. Used when Contained Products need to be added in quantity with different configuration
productSpecID	String	N/A	Mandatory	The ID of the ProductSpecification that needs to be added. Should be populated if AddedContainedProduct#productSpecC ontainmentID is not sent as input. This attribute is used by consumers if there is only one instance of the ProductSpecification in the catalog tree. If more than one instance exists, the ProductSpecification will be added as a first found instance
parentProductID	String	N/A	Mandatory	Parent product ID

3.1.1.22 Link - not in use

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Rel	String	N/A	Not in use	Not in use
Href	String	N/A	Not in use	Not in use

3.1.1.23 ServiceabilityObject

Field Name	Data Type	Valid values	Mandatory/Optional	Description
sysPrinAgent	String	<u>N/A</u>	Mandatory	Code related to location
LOBServicability	LOBServicability[]	<u>N/A</u>	Mandatory	LOB name and status
<u>availablityGroup</u>	String	BPT Values defined by MEC	Mandatory	Parameter used for phone
dwellType	String	BPT Values defined by MEC	Mandatory	Type used for competitive areas

Field Name	Data Type	Valid values	Mandatory/Optional	Description
customerIsNew	Boolean	Default value - false	Mandatory	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 MEC	Mandatory	Business, Residential - Currently all implementation are Residential
orderActionType	String	BPT Values defined by MEC	Mandatory	ActionType - Provide, Change, Cease, etc.
<u>userRole</u>	String	BPT Values defined by MEC	Mandatory	User roles: manager, CSR
offerCode	String[]	N/A	Mandatory	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

3.1.1.24 AdditionalAttribute

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

3.1.1.25 LOBServicability

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

3.1.2 Request Sample TBD

3.1.3 Response

3.1.3.1 Impl Product Configurations Response

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
implValidateMultiProductConfigurationsResponse	ImplValidateMultiProductCo_nfigurationsResponse	_N/A	Optional	_Main_output
implBaseResponse	ImplBaseResponse	N/A	Mandatory	Additional generic

ImplValidate MultiProduct Configurations Response3.1.3.2

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
productConfigurations	ValidateProductConfigurationResponse[]	N/A	Mandatory	Product configuration s

Link - not in use 3.1.3.3

Field Name	Data Type	Valid Value s	Mandatory /Optional	Descriptio n
Rel	String	N/A	Not in use	Not in use
Href	String	N/A	Not in use	Not in use

3.1.3.4 ValidateProductConfigurationResponse

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
productOrderID	String	N/A	Mandatory	Product order ID
productOrderItemID	String	N/A	Mandatory	The ID of the ProductOrderIte m
productOrderItemReferenceNumber	String	N/A	Mandatory	The reference number of the ProductOrderIte m
ProductOrderReferenceNumber	String	N/A	Not in use	Not in use

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Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
productConfiguration	TopLevelProductConfiguratio n	N/A	Mandatory	Product configurations
productID	String	N/A	Mandatory	The ID of the Product
other Products Cross Products Discounts	ProductDiscountsDisplay[]	_N/A	Optional Not in use	Represent the eross products discounts of a Product.Not in use

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3.1.3.5 TopLevelProductConfiguration

Field Name	Data Type	Valid Valu es	Mandato ry /Optiona I	Description
Links	Link[]	N/A	Not in use	Not in use
TotalOneTimeCalculatedPrice	TotalOneTimeCalculatedPric e	N/A	Not in use	Not in use
<u>impl</u> ∉CalculatedPrices	ImplCalculatedPrices []	N/A	Optional	prices Prices for the TopLevelProductConfigur ation as configured and maintained in the CATALOG PRICE table. It will not be from price quoting engine.
TotalRecurringCalculatedPrice	TotalRecurringCalculatedPri ce	N/A	Not in use	Not in use
displayableItems	ProductDisplay[]	N/A	Optional	Contains Products and CharacteristicValues that are defined as related to this configuration group
compatibilityStatus	CompatibilityStatus	N/A	Optional	Compatibility status after applying the changes
DisplayableSimpleProductRefer ences	SimpleProductReferenceDisp lay[]	N/A	Not in use	Represent a Simple Product that can be added to a Product, or that is already part of a Product.
productID	String	N/A	Mandato ry	Catalog Product ID.

Field Name	Data Type	Valid Valu es	Mandato ry /Optiona I	Description
temporaryID	String	N/A	Mandato ry	Operation extension attribute. This attribute is used differently on an operation basis when an operation requires non business data as a parameter to the operation. The operation must document explicitly how it is used. An example of its use is for the consumer technical IDentifier of new anonymous data types instances such as a product instance that has not been created yet
serviceID	String	N/A	Mandato ry	service ID
messages	RuleExecutionMessage[]	N/A	Optional	A message resulting from the execution of a rule- based operation. The results of these operations typically include an array of these messages
Steps	ConfigurationStepDisplay[]	N/A	Not in use	Contains Products and CharacteristicValues that are defined as related to this configuration group
productSpecification	ProductSpecification	N/A	Optional	general catalog information and implemented information for a product
displayableActivityCharge	ActivityChargeDisplay	N/A	not in use	Context ActivityCharge of this Product.
effectiveCatalogVersion	String	N/A	Mandato ry	The effective catalog version of the ProductSpecification this Product belongs to.
lineOfBusiness	String	BPT Valu es defin ed by MEC N/A TBD	Optional	Describes which LineOfBusiness the ProductSpecifications associated to this category belong to.

Field Name	Data Type	Valid Valu es	Mandato ry /Optiona I	Description
quoteStatus	QuoteStatus	N/A	Not in use	Status of quote call
productOffering	ProductOffering	N/A	Optional	Entity that defines the elements that can be sold.

3.1.3.6 TotalOneTimeCalculatedPrice - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
OriginalAmount	BigDecimal	N/A	Mandatory	The original amount of the {@LABEL TotalCalculatedPrice} - before any discounts.
DiscountPercentage	BigDecimal	N/A	Mandatory	The percentage of discount amount that was reduced from {@LABEL TotalCalculatedPrice}. Calculated as {@LABEL TotalCalculatedPrice#discountAmount}/{ @LABEL TotalCalculatedPrice#originalAmount} * 100
FinalAmount	BigDecimal	N/A	Mandatory	The final amount of the {@LABEL TotalCalculatedPrice} after any discounts and override/waive
FinalTaxAmount	BigDecimal	N/A	Mandatory	The final tax amount of the {@LABEL TotalCalculatedPrice} after any discounts.
OriginalTaxAmount	BigDecimal	N/A	Mandatory	The original tax amount of the {@LABEL TotalCalculatedPrice} - before any discounts.
FinalAmountIncludingTa x	BigDecimal	N/A	Mandatory	Final amount including tax
DiscountAmount	BigDecimal	N/A	Mandatory	The discount amount that was reduced from {@LABEL TotalCalculatedPrice}
Currency	String	N/A	Mandatory	The currency of the {@LABEL TotalCalculatedPrice}

3.1.3.7 TotalRecurringCalculatedPrice - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
OriginalAmount	BigDecimal	N/A	Mandatory	The original amount of the {@LABEL TotalCalculatedPrice} - before any discounts
ProratedAmount	BigDecimal	N/A	Not in use	The amount of the {@LABEL TotalRecurringCalculatedPrice} calculated proportionately to the required period of the first bill.
ProratedDiscountAmoun t	BigDecimal	N/A	Not in use	The discount amount of the {@LABEL TotalRecurringCalculatedPrice} calculated proportionately to the required period.
ProratedTaxAmount	BigDecimal	N/A	Not in use	The tax amount of the {@LABEL TotalRecurringCalculatedPrice} calculated proportionately to the required period of the first bill.
DiscountPercentage	BigDecimal	N/A	Mandatory	The percentage of discount amount that was reduced from {@LABEL TotalCalculatedPrice}. Calculated as {@LABEL TotalCalculatedPrice#discountAmount}/{ @LABEL TotalCalculatedPrice#originalAmount} * 100
FinalAmount	BigDecimal	N/A	Mandatory	The final amount of the {@LABEL TotalCalculatedPrice} after any discounts and override/waive
FinalTaxAmount	BigDecimal	N/A	Mandatory	The final tax amount of the {@LABEL TotalCalculatedPrice} after any discounts
OriginalTaxAmount	BigDecimal	N/A	Mandatory	The original tax amount of the {@LABEL TotalCalculatedPrice} - before any discounts
FinalAmountIncludingT ax	BigDecimal	N/A	Mandatory	Final amount including tax
RecurringChargeFreque ncy	SimpleFrequen cy	N/A	Optional	The frequency of the TotalRecurringCalculatedPrice
DiscountAmount	BigDecimal	N/A	Mandatory	The discount amount that was reduced from {@LABEL TotalCalculatedPrice}.
Currency	String	N/A	Mandatory	The currency of the {@LABEL TotalCalculatedPrice}.

3.1.3.8 SimpleFrequency – not in use

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
frequencyUnit	TimeUnits	N/A	Optional	The frequency unit, for example {@LABEL WEEK} or {@LABEL MONTH}
frequencyFactor	Integer	N/A	Mandatory	The frequency factor, for example for the frequency 6 months the factor would be 6

3.1.3.9 TimeUnits - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	SECOND,MINUTE,HOUR,DAY,WEEK,MONTH,YEAR	Mandatory	Valid Values for time units.

3.1.3.10 ProductDisplay

Field Name	Data Type	Valid Values	Mandato ry /Optiona I	Description
Links	Link[]	N/A	Not in use	Not in use
TotalOneTimeCalculatedPrice	TotalOneTimeCalculatedPric e	N/A	Not in use	Not in use
TotalRecurringCalculatedPrice	TotalRecurringCalculatedPric e	N/A	Not in use	Not in use
<u>impleC</u> alculatedPrices	ImplCalculatedPrices []	N/A	Optional	Total prices for the ProductDisplay as configured and maintained in the CATALOG PRICE table. It will not be from price quoting engine.
displayableItems	ProductDisplay[]	N/A	Optional	Products and CharacteristicValues that are defined as related to this configuration group

Field Name	Data Type	Valid Values	Mandato ry /Optiona	Description
DisplayableSimpleProductRefer ences	1 1 1		Not in use	Represent a Simple Product that can be added to a Product, or that is already part of a Product.
productID	String	N/A	Mandato ry	Product ID
productSpecContainmentID	String	N/A	Mandato ry	The ID of the ProductSpecContainm ent between this ProductDisplay and its parent product.
displayInformation	ProductSpecDisplay	N/A	Mandato ry	how the ProductSpecification should be displayed in a user interface application
productSpecContainment	ProductSpecContainment	N/A	Optional	The details of the ProductSpecContainm ent leading to the parent product.
originalCatalogDisplayInformati on	ProductSpecDisplay	N/A	Mandato ryOption al	The display information defined by in the product catalog
temporaryID	String	N/A	Mandato ry	Temporary ID
$\underline{\mathrm{impld}}\underline{\mathrm{D}}\mathrm{isplayablePricePlan}$	ImplAssignedPricePlanDisplay[]	N/A	Optional	List of child AssignedPricePlan Dis play of this Product
displayableActivityCharges	ActivityChargeDisplay[]	N/A	not in use	List of child ActivityCharges of this Product
displayableCharacteristics	CharacteristicValueDisplay[]	N/A	Optional	Contains Products and Characteristic Values that are defined as related to this configuration group
allowedActions	AllowedAction[]	N/A	Optional	Actions that may be done on the product
totalDeposit	TotalDepositCalculationResu lt	N/A	Optional	The total Deposits of the Product.
selected	Boolean	True/Fal se	Mandato ry	status
businessType	ProductBusinessType	N/A	Optional	The business type of the Product.

Field Name	Data Type	Valid Values	Mandato ry /Optiona I	Description
serviceID	String	N/A	Mandato ry	The service ID of the Product.
name	String	N/A	Mandato ry	Product name
action	ProductConfigurationActionT ype	N/A	Optional	Action that was taken on the Product.
status	ProductActivationStatus	N/A	Optional	The status of the Product. For example ordered, provisioned. Provider write only

3.1.3.11 ProductSpecDisplay

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
enabled	Boolean	True/False	Mandatory	If value is True then the ProductSpecification is editable
dynamicProperties	FlexAttr[]	N/A	Optional	List of additional properties that were assigned to the ProductSpecDisplay
visible	Boolean	True/False	Mandatory	If value is True then the ProductSpecification should be displayed
mandatory	Boolean	True/False	Mandatory	If value is True then the ProductSpecification should be enforced as mandatory
showStructure	Boolean	True/False	Mandatory	If value is True, then consumer is expected to show the structure of the Product, including ProductCharacteristics, contained Products etc If value is false, then consumer is expected to show the Product in abbreviated form, eg just the title

3.1.3.12 ProductSpecContainment

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
dynamicProperties	FlexAttr[]	N/A	Optional	List of additional properties that were assigned to the ProductSpecContainment. Core provider software does not use these properties but specific implementations may add such properties and change behavior accordingly
minimumQuantity	Integer	N/A	Mandatory	The minimum number of copies of ProductSpecification that must be instantiated as Products contained within the parent product.
containedProduct	ProductSpecification	N/A	Optional	Contained product
defaultQuantity	Integer	N/A	Mandatory	The default number of copies of the child product that are created contained within in the parent product. When ProductSpecContainment-containedProducts is an array of different ProductSpecifications then this value has no meaning.
maximumQuantity	Integer	N/A	Mandatory	The maximum number of copies of ProductSpecification that can be instantiated as products contained within the parent product

3.1.3.13 <u>Impl</u>AssignedPricePlanDisplay

Field Name	Data Type	Valid Values	Mandato ry /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
TotalOneTimeCalculatedPrice	TotalOneTimeCalculatedPri ce	N/A	Not in use	Not in use
TotalRecurringCalculatedPrice	TotalRecurringCalculatedPri ce	N/A	Not in use	Not in use
<u>impl</u> eCalculatedPrices	ImplCalculatedPrices []	N/A	Optional	Total prices by type- as configured and maintained in the CATALOG PRICE table. It will not be from price quoting engine.

Field Name	Data Type	Valid Values	Mandato ry /Optional	Description
displayInformation	PriceSchemaDisplay	N/A	Optional	The display information of the AssignedPricePlanDisp lay
allowedActions	AllowedAction[]	N/A	Optional	Actions that may be done on the AssignedPricePlanDisp lay
selected	Boolean	True/Fal se	Mandator y	This indicates whether the AssignedPricePlanDisp lay is part of the Product configuration or not
assignedPricePlanID	String	N/A	Mandator y	A unique IDentifier of the AssignedPricePlanDisp lay
productSpecPricingID	String	N/A	Mandator y	ID of the ProductSpecPricing
RecurringCalculatedPrices	RecurringCalculatedPrice[]	N/A	Not in use	Not in use
crossProductDiscount	Boolean	True/Fal se	Mandator y	Indicates whether this AssignedPricePlanDisp lay was added to the Product as result of cross products discounts
productSpecPricing	ProductSpecPricing	N/A	Optional	The details of the ProductSpecPricing leading to the parent product
oneTimeCalculatedPrices	OneTimeCalculatedPrice[]	N/A	Not in use	Not in use
crossProductDiscountRuleDescription	String	N/A	Mandator y	Contain the description of the cross products discounts rule, that added this AssignedPricePlanDisp lay. If the AssignedPricePlanDisp lay was not added as result of cross products discounts rule - this field will be empty

Field Name	Data Type	Valid Values	Mandato ry /Optional	Description
name	String	N/A	Mandator y	A word, term, or phrase by which the PriceSchema is known and distinguished from other PriceSchemas
action	ProductConfigurationAction Type	N/A	Optional	Actions that may be done on the AssignedPricePlanDisp lay
status	ProductActivationStatus	N/A	Optional	The status of the AssignedPricePlanDisp lay, For example Active, Cease, Suspended. When a Assigned AssignedPricePlanDisp lay is not saved yet (catalog definition) this field will be empty.

3.1.3.14 CharacteristicValueDisplay

Field Name	Data Type	Valid Value s	Mandator y /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
ExternalWidget	ExternalWidget	N/A	not in use	Represents External widget that should capture data used for product configuration
displayInformation	CharacteristicDisplay	N/A	Mandator y	The display information of a Caracteristic defined by in the product catalog
originalCatalogDisplayInformatio n	CharacteristicDisplay	N/A	Mandator yOptional	The display information of a Caracteristic defined by in the product catalog
ActionDisplay	CharacteristicActionDispla y	N/A	Not in use	Not in use
businessType	CharacteristicBusinessTyp	N/A	OptionalN	The business type of the
	e		ot in use	<u>Characteristic</u> Not in use
productSpecCharacteristicID	String	N/A	Optional Mandator	-The ID of the ProductSpecCharacteristi c
productSpecCharacteristic	ProductSpecCharacteristic	N/A	Mandator y	The ProductSpecCharacteristi cs used by a ProductSpecification.

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Field Name	Data Type	Valid Value s	Mandator y /Optional	Description
resourceSpec	ResourceSpec	N/A	not in use	Represents the catalog resource information
value	String	N/A	Optional Mandator y	A value that the Characteristic can take on. In the case of a range value, this represents the lower value of the range. See the class notes for the formatting rules for a value whose type is other than String

3.1.3.15 ResourceSpec - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
categoryDefaultValue	Option	N/A	Optional	Represents the default value of the resource category
categoryValues	Option	N/A	Optional	Category single value
categoryValues	Option[]	N/A	Optional	Represents the list of resource category valid values
type	String	N/A	Optional	Resource Type - derived from the Resource Type dynamic property

3.1.3.16 Option - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
value	String	N/A	Mandatory	Displayable string for the value
code	String	N/A	Mandatory	Code of value

3.1.3.17 CharacteristicBusinessType

Field Name	Data Type	Valid Values	Mandatory /Optional	Descriptio n
value	String	COMMITMENT_DURATIO N,FRIENDS_AND_FAMILY,	Mandatory	List of valid values for business
		 RESOURCE_CATEGORY 		type

3.1.3.18 CharacteristicDisplay

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
enabled	Boolean	True/False	Mandatory	If True, then the Characteristic is editable.
showHelpText	Boolean	True/False	Mandatory	If True, then help text should be displayed with the Characteristic. The description of the Characteristic is typically used as the help text.
dynamicProperties	FlexAttr[]	N/A	Optional	List of additional properties that were assigned to the CharacteristicDisplay.
visible	Boolean	True/False	Mandatory	If True, then the Characteristic should be displayed.
displayFormat	CharacteristicDisplayFormat	N/A	Mandatory	The format for display for the Charactersitic. Typically a user interface type of control such as a button or calendar widget.
numberOfLines	Integer	N/A	Mandatory	The vertical size that best suits the display of the Characteristic
mandatory	Boolean	True/False	Mandatory	If True, then the Characteristic must be assigned a value.

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
name	String	N/A	Mandatory	The name that should be used as a label for Characteristic. It is an alternative to the characteristic name.
mask	String	N/A	Mandatory	The display mask to be used for the Characteristic

3.1.3.19 CharacteristicDisplayFormat

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	 CALENDAR, CALENDAR_AND_TIME, CHECKBOX, DATE_ONLY, DROPDOWN_LISTBOX, LISTBOX, MULTI_LINE_TEXTBOX, RADIO_BUTTON, TEXTBOX 	Mandatory	List of valid values for display format.

3.1.3.20 CharacteristicActionDisplay - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
actionDisplayType	CharacteristicActionDisplay Type	N/A	Optional	The format for display for the CharacteristicActionDisplay. Typically a type of user interface control such as a button or hyperlink.
functionActionTyp e	String	N/A	Optional	Indicates whether the function which is invoked for this Characteristic Action Display sets single value or multiple values.
functionParameters	String	N/A	Optional	The list of parameters that is sent to the function which is invoked for this Characteristic Action Display. Multiple values are separated by a comma.
enabled	Boolean	True/False	Optional	If True, then the CharacteristicActionDisplaye d is enabled.

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Field Name	Data Type	Valid Values	Mandatory /Optional	Description
function	String	N/A	Optional	The name of the function that is invoked for this Characteristic ActionDisplay. The function is assumed to be accessible by the user interface and will be invoked according to the relevant technology of the user interface. For example, in a channel using HTML this might be the name of a JavaScript procedure Name
name	String	N/A	Optional	The name that should be used as a label for this CharacteristicActionDisplay.

3.1.3.21 CharacteristicActionDisplayType – not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	BUTTON	Mandatory	List of valid values for display type.

3.1.3.22 AllowedAction

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
allowed	Boolean	N/A	Mandatory	Indicates whether the action is allowed or not for this Product
type	ProductConfigurationAction	onType N/A	Optional	Indicates the type of the action.

3.1.3.23 TotalDepositCalculationResult

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
actualAmount	BigDecimal	N/A	Mandatory	The total amount to be used to when paying the {@LABEL TotalDepositCalculationResult}. This amount includes any waiving or overrides
overrideAmount	BigDecimal	N/A	Mandatory	The total of all the overrides and waives amount of the {@LABEL DepositCalculatedResult}.
originalAmount	BigDecimal	N/A	Mandatory	The total amount to be paid as a {@LABEL TotalDepositCalculationResult} recommended by the calculation. Provider write only
currency	String	N/A <u>'U</u> SD'	Mandatory	The currency in which the money amounts are applied.

3.1.3.24 ProductBusinessType

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	DEVICE,FRIENDS_AND_FAMILY,TV_CHANNEL,TV_PACKAGE	Mandatory	List of valid values for product business type.

3.1.3.25 ProductConfigurationActionType

Field Name	Data Type	Valid Values	Mandatory /Optional	Description	
value	String	 AD, 	Mandatory	"AD"- Add,	
		 ES, 		"ES" – Reestablish,	
		 RM, 		"RM" – Remove,	
		RS,		"RS" – Resume,	
		• SU,		"SU" – Suspend,	
		UP		"UP"- Change	

3.1.3.26 ProductActivationStatus

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	AC, CE, SU	Mandatory	"AC" – ACTIVE, "CE" – CEASED, "SU" - SUSPENDED

3.1.3.27 CompatibilityStatus

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	BLOCKING, COMPATIBLE, CONFIRMATION, INFORMATION, NOT_CHECKED	Mandatory	BLOCKING – If there is a compatibility error COMPATIBLE – All validations passed. NOT_CHECKED – Compatibility was not performed.

3.1.3.28 SimpleProductReferenceDisplay - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
TotalOneTimeCalculatedPrice	TotalOneTimeCalculatedPric e	N/A	Not in use	Not in use
TotalRecurringCalculatedPrice	TotalRecurringCalculatedPric e	N/A	Not in use	Not in use
impleCalculatedPrices	ImplCalculatedPrices []	N/A	Optional	Total prices by type as configured and maintained in the CATALOG PRICE table. It will not be from price quoting engine.
productID	String	N/A	Mandatory	Product ID
productSpecContainmentID	String	N/A	Mandatory	The ID of the ProductSpecContainme nt between this ProductDisplay and its parent product
displayInformation	ProductSpecDisplay	N/A	Optional	The display information defined by in the product catalog Should be used by the consumer when adding new child productDisplay instance and the parent @LABEL ProductDisplay} can be added in quantity

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
productSpecContainment	ProductSpecContainment	N/A	Optional	The details of the ProductSpecContainme nt, leading to the parent product
originalCatalogDisplayInforma tion	ProductSpecDisplay	N/A	Optional	The display information defined by in the product catalog. Should be used by the consumer when adding new child productDisplay instance and the parent @LABEL ProductDisplay} can be added in quantity.
temporaryID	String	N/A	Mandatory	Temporary ID
impldDisplayablePricePlan	ImplAssignedPricePlanDispla y []	_N/A	Optional	List of childAssignedPricePlanDisp lay of this Product
displayableActivityCharges	ActivityChargeDisplay[]	N/A	Optional	List of child ActivityCharges of this Product
displayableCharacteristics	CharacteristicValueDisplay[]	N/A	Optional	Contains Products and CharacteristicValues that are defined as related to this configuration group
allowedActions	AllowedAction[]	N/A	Optional	Actions that may be done on the product
totalDeposit	TotalDepositCalculationResul t	N/A	Optional	The total deposits of the product
selected	Boolean	True/F alse	Mandatory	status
businessType	ProductBusinessType	N/A	Optional	The business type of the product
simpleProductSpecID	String	N/A	Mandatory	
serviceID	String	N/A	Mandatory	The service ID of the Product
productSpecRelationshipID	String	N/A	Mandatory	The ID that is used to select this mobile device
originalProductSpecification	ProductSpecification	N/A	Optional	
browsingCategory	BrowsingCategory	N/A	Optional	A category of catalog items
name	String	N/A	Mandatory	The name of the Product

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Field Name	Data Type	Valid Values	Mandatory /Optional	Description
default	Boolean	N/A	Mandatory	
action	ProductConfigurationActionT ype	N/A	Optional	Action that was taken on the Product.
status	ProductActivationStatus	N/A	Optional	The status of the product. For example ordered, provisioned. Provider write only.

3.1.3.29 TotalDepositCalculationResult

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
actualAmount	BigDecimal	N/A	Mandatory	The total amount to be used to when paying the {@LABEL TotalDepositCalculationResult}. This amount includes any waiving or overrides
overrideAmount	BigDecimal	N/A	Mandatory	The total of all the overrides and waives amount of the {@LABEL DepositCalculatedResult}.
originalAmount	BigDecimal	N/A	Mandatory	The total amount to be paid as a {@LABEL TotalDepositCalculationResult} recommended by the calculation. Provider write only
currency	String	N/A <u>'U</u> SD'	Mandatory	The currency in which the money amounts are applied.

3.1.3.30 BrowsingCategory – not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
FilterFacets	FilterFacet[]	N/A	Not in use	Not in use
Lob	LineOfBusinessDetails[]	N/A	Not in use	represent LOB details
AdditionalProperties	FlexAttr[]	N/A	Not in use	Not in use
Comparable	Boolean	N/A	Not in use	Not in use
Name	String	N/A	Mandatory	Browsing category name
Туре	BrowsingCategoryType	N/A	Not in use	Not in use
id	String	<u>N/A</u>	_Mandatory	Browsing category ID

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Field Name	Data Type	Valid Values	Mandatory /Optional	Description
code	String	N/A	Mandatory	Browsing
				category
				code

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3.1.3.31 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[]	N/A	Optional	Line Of Business
Lob	String	N/A	Optional	Single value line of business.
ValueRestriction	CharacteristicValueRestrictionType	N/A	Optional	Defines how the possible set of values for the ValueType is 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

3.1.3.32 CharacteristicValueRestrictionType

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
value	String	DI, GE, RA	Mandatory	List of values for characteristic value restriction type"DI" – DISCRETE, "GE" – GENERAL, "RA" - RANGE

3.1.3.33 CharacteristicValueBasicType

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	BL, CH, CX, DB, DT, NU	Mandatory	List of values for characteristic value basic type "BL"-BOOLEAN, "CH" – STRING, "CX"- COMPLEX, "DB" – DOUBLE, "DT" – DATE, "NU" - INTEGER

3.1.3.34 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	Optional	The upper range value that a range-type item property can take on.
Value	String	N/A	Optional	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	Optional	A unique identifier. Provider write only

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3.1.3.35 LineOfBusinessDetails - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
DisplayIdentifier	String	N/A	Optional	Define the identifier for each lob; used for presentation; example for Wireless lob, Service ID (MSISDN) is used in UI, for TV the Address, etc. valid value: SERVICE_ID, ADDRESS
DisplaySPOName	Boolean	True/False	Optional	Define the logic whether to display the SPO name before to the plan name according to the implementation.
PlansCategoryStructureID	String	N/A	Optional	The associated category ID of the plans for the LOB
SmallPicture	String	N/A	Optional	Small Picture URL
BigPicture	String	N/A	Optional	Big Picture URL of the line of business
Name	String	N/A	Optional	line of business name
Code	String	N/A	Optional	line of business Identifier/code

3.1.3.36 BrowsingCategoryType – not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Value	String	LIST,NAVIGATION	Mandatory	List of values for browsing category type.

3.1.3.37 RuleExecutionMessage

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
objectId	String	N/A	Mandatory	Identifies the object that this message pertains to.

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
severity	String	BPT Value S define d by MEC N/AT BD	Mandatory	The message severity
configurationStepSpecID	String	<u>N/A</u>	Mandatorynot in use	not in use
productSpecCharacteristicID	String	N/A	Mandatory	The ProductSpecCharacteristic s used by a ProductSpecification.
messageId	String	N/A	Mandatory	Anidentifier that uniquelyidentifies this message. Used by certain applications in conjunction with RuleExecutionMessage parameters to create a truncated message suitable for some UI devices
ruleLevel	ConfigurationRuleLevel	N/A	Optional	Indicates the configuration level that the rule runs on. Default value will be Product.
objectName	String	N/A	Mandatory	
<u>configurationStepSpecName</u>	String	<u>N/A</u>	Optionalnot in use	The name of the stepnot in use
parameters	FlexAttr[]	N/A	Optional	Named values that were used to build the message text.Used by certain applications in conjunction with Messageld to create a truncated message suitable for some UI devices
text	String	N/A	Mandatory	The message formatted in the client's locale.

3.1.3.38 ConfigurationRuleLevel

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	A,P,S	Mandatory	"A" - ALL_STEPS, "P"- PRODUCT, "S" - STEP

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3.1.3.39 FlexAttr

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

3.1.3.40 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 type

3.1.3.41 FlexAttrValueType

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	BOOLEAN,DATE,DECIMAL,INTEGER,	Mandatory	Valid Values list for flexible attribute value type
		• STRING		

3.1.3.42 ConfigurationStepDisplay – not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
DisplayableItems	ProductDisplay[]	N/A	Optional	Contains Products and CharacteristicValues that are defined as related to this configuration group
ExternalWidget	ExternalWidget	N/A	not in use	Represents External widget that should capture data used for product configuration
CompatibilityStatus	CompatibilityStat us	N/A	Optional	This indicates the compatibility status of the step. It takes into consideration all
				products related to the ConfigurationStepSpecification
PrerequisiteSteps	ConfigurationStep Display[]	N/A	Not in use	Contains products and characteristic values that are defined as related to this configuration group

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
DisplayableSimpleP roductReferences	SimpleProductRef erenceDisplay[]	N/A	Not in use	Represent a simple product that can be added to a product, or that is already part of a Product.
Enabled	Boolean	True/False	Mandatory	An indication of whether the Configuration Step should be enabled or disabled to the user. Default value is True. An example for a case where a step should be disabled is when the Point of No Return related to this Configuration Step had passed.
Name	String	N/A	Mandatory	Configuration step name
Message	String	N/A	Mandatory	A message that is related to the Configuration Step. Example: when there Step is disabled due to Point of No Return passing, then a message can be set on the step to be displayed to the user.
Туре	String	N/A	Optional	Configuration step type
ID	String	N/A	Mandatory	Configuration step ID
Description	String	N/A	Mandatory	Configuration step description

3.1.3.43 ExternalWidget - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
LogicalName	String	N/A	Mandatory	The logical name of the external widget
PhysicalName	String	N/A	Mandatory	The physical name of the external widget
InputParameters	ExternalWidgetParameters[]	N/A	Optional	Represents parameter of external widget that should capture data used for product configuration

3.1.3.44 ExternalWidgetParameters – not in use

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
Name	String	N/A	Mandatory	Parameter name.
Value	String	N/A	Mandatory	parameter value. if type = CONSTANT: it contain the constant value if origin = PRODUCT_CHARACTERISTIC_VALUE : it contain the relation ID of the sub product and the characteristic caption. or only the characteristic caption - if the attribute is under the same component that its attribute caused opening the widget

3.1.3.45 ProductSpecification

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
calculatedPrices	-ImplCalculatedPrices []	N/A	Optional	Charges
RecurringPrice	RecurringCharge	N/A	Not in use	Not in use
OneTimePrice	<u>OnetimeCharge</u>	N/A	Not in use	Not in use
OfferingToProductI d	String	N/A	Not in use	Offering to product relation ID.
Lob	String	N/A	Not in use	line of business code
<u>p</u> Plan	PriceSchema	_N/A	Not in use Mandatory	Not in usepricing object
DetailsGroups	CatalogItemCharacteristicGrou p	N/A	Not in use	Not in use
dynamicProperties	FlexAttr[]	N/A	Optional	List of additional properties that were assigned to the ProductSpecification
MinimumQuantity	Integer	N/A	Not in use	Not in use
MaximumQuantity	Integer	N/A	Not in use	Not in use
LobImage	String	N/A	Not in use	Not in use
attachments	Attachment[]	N/A	Optional	Documents associated to the ProductSpecification
characteristics	ProductSpecCharacteristic[]	N/A	Optional	The ProductSpecCharacteristic s used by a ProductSpecification
SharedProduct	Boolean	True/Fals e	Not in use	The shared product in the family

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Field Name	Data Type	Valid Values	Mandatory /Optional	Description
LobName	String	N/A	Not in use	line of business name according to the language
name	String	N/A	Mandatory	The reference number of the ProductOrderItem
id	String	N/A	Mandatory	The unique primary key of the ProductSpecification, together with the related ProductCatalog Version . A ProductSpecification is always created or changed within a given ProductCatalog Version, it is the combination that uniquely IDentifies the fixed attributes and relations of the ProductSpecification
type	String	N/A	Optional	The type of the ProductSpecification. A means of classification
level	String	BPT Values defined by MECN/A TBD	Optional	Level of the product i.e. whether it is GLP or not
description	String	N/A	Mandatory	The ID of the ProductOrderItem
code	String	N/A	Mandatory	The ID of the Product

3.1.3.46 RecurringCharge - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
Max	BigDecimal	N/A	Mandatory	The maximum price that can be applied.
Min	BigDecimal	N/A	Mandatory	The minimum price that can be applied
ChargeFrequencyFactor	Integer	N/A	Optional	The factor number to be applied.
ChargeFrequencyUnit	TimeUnits	N/A	Optional	The frequency of the charge

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
OriginalAmount	BigDecimal	N/A	Mandatory	Original price before discounted were applied.
Amount	BigDecimal	N/A	Mandatory	Charge amount.
Description	String	N/A	Not in use	Charge description
Currency	String	N/A	Mandatory	The currency of the price.

3.1.3.47 OnetimeCharge - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
Max	BigDecimal	N/A	Mandatory	The maximum price that can be applied.
Min	BigDecimal	N/A	Mandatory	The minimum price that can be applied.
OriginalAmount	BigDecimal	N/A	Mandatory	Original charge amount before discounted were applied
Amount	BigDecimal	N/A	Mandatory	Charge amount.
Currency	String	N/A	Mandatory	The currency of the price.

3.1.3.48 CatalogItemCharacteristic

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
valueRestriction	CharacteristicValueRestrictionType	N/A	Optional	Defines how the possible set of values are restricted.
additionalProperties	FlexAttr[]	N/A	Optional	Additional properties list of the item
valueType	CharacteristicValueBasicType	N/A	Optional	The underlying (basic) type of value that the characteristic

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
name	String	N/A	Mandatory	Free format short textual description.
values	CatalogItemCharacteristicValue[]	N/A	Optional	A number, text, or date that can be assigned to an instance of characteristic

CatalogItemCharacteristicValue

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
valueTo	String	N/A	<u>MandatoryOptional</u>	The upper range value that a range-type characteristic can take on.
value	String	N/A	<u>Optional</u> Mandatory	A value that the characteristic can take on. In the case of a range value, this represents the lower value of the range.

CatalogItemCharacteristicGroup

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
characteristics	CatalogItemCharacteristic[]	N/A	Optional	A Characteristic of an item.
name	String	N/A	Mandatory	Free format short textual description.

3.1.3.51 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/ATB D	Optional	The purpose of the Attachment, valid values from Attachment Purpose. Examples might include: Marketing, Training

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
attachmentLocation	String	N/A	MandatoryO ptional	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/ATB D	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.

3.1.3.52 ProductSpecCharacteristic

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
enabled	Boolean	True/False	Optional	If True, then the Characteristic is editable.
showHelpText	Boolean	True/False	Optional	If True, then help text should be displayed with the Characteristic. The description of the Characteristic is typically used as the help text.
valueBasicType	Characteristi cValueBasic Type	N/A	Mandatory	The underlying (basic) type of value that the CharacteristicValueType represents.
valueRestriction	Characteristi cValueRestr ictionType	N/A	Mandatory	Defines how the possible set of values for the CharacteristicValueType are restricted.
ActionDisplay	Characteristi cActionDisp lay	N/A	Not in use	Not in use
dynamicProperties	FlexAttr[]	N/A	Mandatory	List of additional properties that were assigned to the Characteristic
visible	Boolean	True/False	Optional	If True, then the Characteristic should be displayed.
displayFormat	Characteristi cDisplayFor mat	N/A	Optional	The format for display for the Charactersitic. Typically a user interface type of control such as a button or calendar widget.

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
numberOfLines	Integer	N/A	Optional	The vertical size that best suits the display of the Characteristic.
mandatory	Boolean	True/False	Optional	If True, then the Characteristic should be assigned
name	String	N/A	Mandatory	Free format short textual description.
defaultValue	Characteristi cValue	N/A	Optional	Represents the default value that is placed into the CharacteristicValue when a ConfigurableCharacteristic is instanciated.
length	Integer	N/A	Mandatory	Maximum length of the value
id	String	N/A	Mandatory	A unique IDentifier.
mask	String	N/A	Optional	The display mask to be used for the characteristic
values	Characteristi cValue[]	N/A	Mandatory	Represents the set of valid values of a characteristic which valueType is DISCRETE or the set of valid ranges of a Characteristic} which valueType is RANGE
values	Characteristi cValue	N/A	Mandatory	Represents the default value that is placed into the characteristic value when a Configurable Characteristic is instanciated
description	String	N/A	Mandatory	Characteristic description.
code	String	N/A	Mandatory	A value that the characteristic can take on. In the case of a range value, this represents the lower value of the range. See the class notes for the formatting rules for a value whose type is other than String.

3.1.3.53 CharacteristicValue

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
valueForDisplay	String	N/A	Mandatory	A representation of the value suitable for display to human users. For example in Amdocs Shared Product Information Model, represents the decode (translation into current national language) where the value is a code. For example, a codeAC might be used to represent Active state of a Product the English decode would be Active.
valueTo	String	N/A	Mandatory	The upper range value that a range-type Characteristic can take on. See the class notes for the formatting rules for a value whose type is other than String
value	String	N/A	Mandatory	A value that the Characteristic can take on. In the case of a range value, this represents the lower value of the range. See the class notes for the formatting rules for a value whose type is other than String.

3.1.3.54 ImplCalculatedPrices

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	4

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Field Name	Data Type	Valid Values	Mandatory /Optional	Description
ррТуре	String	RP – retail price (regular price). Each Price Plan is associated to 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
tierFrom	String	N/A	Optional	the discount tier's start (in month), for example 1, meaning from the 1 month, or 13, meaning from the second year
tierTo	String	N/A	Optional	the discount tier's end (in month), for example 12, meaning till the 12-th month (discound is applied for one year only). The value 999 will mean that 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 discount is not limited in 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	BigDecimal Integer	N/A	Mandatory	The value of dollar amount if the retail price, flat discount or dollar off discount, or percentage is a percentage discount

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
quantity	Integer	N/A	Optional	Number of related price plans
provisioningDate	<u>Date</u>	N/A	Optional	Date of the provisioning

3.1.3.55 ActivityChargeDisplay - not in use

Field Name	Data Type	Valid Value s	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
activityCharge	ActivityCharge	N/A	Optional	Link to the ActivityCharge
impleCalculatedPrices	ImplCalculatedPrices []	N/A	Optional	Prices by type <u>as</u> configured and maintained in the CATALOG PRICE table. It will not be from price quoting engine.
activityChargeID	String	N/A	Mandatory	A unique identifier of the {@PATH ActivityCharge}. Provider write only

3.1.3.56 ActivityCharge – not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
dynamicProperties	FlexAttr[]	N/A	Optional	Dynamic properties
name	String	N/A	Mandatory	Activity charge name
id	String	N/A	Mandatory	Activity charge ID
description	String	N/A	Mandatory	Activity charge description
code	String	N/A	Mandatory	Activity charge code

$3.1.3.57 \quad {\sf OneTimeCalculatedPrice-not\ in\ use}$

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
OriginalAmount	BigDecimal	N/A	Mandatory	The original amount of the CalculatedPrice - before any discounts. Provider write only.
DiscountPercentage	BigDecimal	N/A	Mandatory	The percentage of discount amount of the CalculatedPrice}. Calculated as CalculatedPrice.discountAmount/Calcula tedPrice.originalAmount * 100
FinalAmount	BigDecimal	N/A	Mandatory	The final amount of the CalculatedPrice after any discounts and override/waive. Provider write only.
FinalTaxAmount	BigDecimal	N/A	Mandatory	The final tax amount of the CalculatedPrice after any discounts. Provider write only.
OriginalTaxAmount	BigDecimal	N/A	Mandatory	The original tax amount of the CalculatedPrice - before any discounts. Provider write only.
DiscountAmount	BigDecimal	N/A	Mandatory	The discount amount of the CalculatedPrice. Provider write only.
ChargeDescription	String	N/A	Not in use	The description of the actual charge, depending on the reference data model may differ from the description in the catalog definition.
Name	String	N/A	Mandatory	The catalog name of the originating PriceSchema or ActivityCharge. Provider write only.
Description	String	N/A	Mandatory	The catalog description of the originating PriceSchema or ActivityCharge. Provider write only.
Currency	String	N/A	Mandatory	The currency of the CalculatedPrice. Provider write only

3.1.3.58 QuoteStatus - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Value	String	FAILED,NOT_CALLED,SUCCESS	Mandatory	List of valid values for quote status

3.1.3.59 ProductOffering

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
CrossProductDiscount s	CustomerDiscounts[]	N/A	Not in use	Not in use
OneTimePrice	<u>OnetimeCharge</u>	N/A	Not in use	Not in use
impleCalculatedPrices	ImplCalculatedPrices []	N/A	Optional	One time charge of an item as configured and maintained in the CATALOG PRICE table. It will not be from price quoting engine.
products	ProductSpecification[]	N/A	Optional	
detailsGroups	CatalogItemCharacteristicGroup []	N/A	Mandatory	
dynamicProperties	FlexAttr[]	N/A	Optional	List of additional properties that are assigned to the ProductOffering
attachments	Attachment[]	N/A	Optional	Documents that are associated with the ProductOffering
name	String	N/A	Mandatory	The reference number of the ProductOrderItem
id	String	N/A	Mandatory	A unique IDentifier together with the related ProductOffering.version. Since a ProductOffering is always created or changed within a given Catalog Version, it is the combination that uniquely IDentifies the fixed attributes and relations of the ProductOffering
bundle	Boolean	True/Fals e	Mandatory	If value is True then the ProductOffering is a bundle. A bundle is a ProductOffering that is composed of more than one ProductSpecifications, regardless if it is more than one instance of the

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
				same product or instances of different products
description	String	N/A	Mandatory	The ID of the ProductOrderItem
code	String	N/A	Mandatory	The ID of the Product

3.1.3.60 CustomerDiscounts - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
ProductOfferingInstanceID	String	N/A	Optional	
ProductOfferingName	String	N/A	Optional	
SimpleProductOfferingName	String	N/A	Optional	
RecurringPrice	RecurringPriceForOrder	N/A	Optional	The result of a calculation of the money amount required to be paid for a product recurring.
OneTimePrice	OneTimePriceForOrder	N/A	Optional	The result of a calculation of the money amount required to be paid for a product one time.
ProductOrderItemID	String	N/A	Optional	
ProductServiceID	String	N/A	Optional	Service ID of the product for which the discount was given
ProductLineOfBusiness	String	N/A	Optional	Name of the product for which the discount was given
ProductName	String	N/A	Optional	
ProductCatalogID	String	N/A	Optional	Catalog ID of the discount

Field Name	me Data Type Valid Values		Mandatory /Optional	Description
ActionID	String	N/A	Optional	A uniqueidentifi er of the order item
DiscountCatalogID	String	N/A	Optional	The ID of the discount in the catalog
DiscountStatus	String	N/A	Optional	Status of the discount, can be new, removed, no change
RuleDescription	String	N/A	Optional	Description of the rule
Name	String	N/A	Optional	Name of discount
Id	String	N/A	Optional	APID of the product the discount was given
Description	String	N/A	Optional	Description of the discount

3.1.3.61 RecurringPriceForOrder - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
OriginalAmount	BigDecimal	N/A	Optional	The original amount of the price - before any discounts
ProratedAmount	BigDecimal	N/A	Optional	The amount of the quoted recurring price, calculated proportionately to the required period of the first bill.
ProratedDiscountAmount	BigDecimal	N/A	Optional	The discount amount of the quoted recurring price, calculated proportionately to the required period.
ProratedTaxAmount	BigDecimal	N/A	Optional	The tax amount of the quoted recurring price calculated proportionately to the required period of the first bill.
DiscountPercentage	BigDecimal	N/A	Optional	Discount percentage

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Frequency	String	N/A	Optional	The price frequency, for example: monthly, weekly, bi-weekly.
FinalAmount	BigDecimal	N/A	Optional	The final amount of the price after any discounts and override/waive.
FinalAmountWithTax	BigDecimal	N/A	Optional	The finalAmount + finalTaxAmount
FinalTaxAmount	BigDecimal	N/A	Optional	The final tax amount of the price after any discounts
OriginalTaxAmount	BigDecimal	N/A	Optional	The original tax amount of the price - before any discounts.
Currency	String	N/A	Optional	The currency of the price.

3.1.3.62 OneTimePriceForOrder - not in use

Field Name	Data Type	Valid Valu es	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
OriginalAmount	BigDecimal	N/A	Optional	The original amount of the price - before any discounts
DiscountPercentage	BigDecimal	N/A	Optional	Discount percentage
FinalAmount	BigDecimal	N/A	Optional	The final amount of the price after any discounts and override/waive
FinalAmountWithTax	BigDecimal	N/A	Optional	The finalAmount + finalTaxAmount
FinalTaxAmount	BigDecimal	N/A	Optional	The final tax amount of the price after any discounts.
OriginalTaxAmount	BigDecimal	N/A	Optional	The original tax amount of the price - before any discounts.
Description	String	N/A	Optional	One Time Price description such as activation fee, termination fee, installation fee
Currency	String	N/A	Optional	The currency of the price

3.1.3.63 ProductDiscountsDisplay - not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
impleCalculatedPrices	ImplCalculatedPrices []	<u>N/A</u>	Optional	Total prices by type as configured and maintained in the CATALOG PRICE table. It will not be from price quoting engine
productOfferingInstanceID	String	<u>N/A</u>	Mandatory	The ID of the parent productOfferingInstance
productOfferingName	_String	<u>N/A</u>	Mandatory_	The name of the parent productOffering
simpleProductOfferingNam e	String	<u>N/A</u>	Mandatory_	The name of the parent simple ProductOffering
TotalOneTimeCalculatedPri ce	TotalOneTimeCalculate dPrice	N/A	Not in use	Not in use
impleCrossProductDiscount s	ImplAssignedPricePlan Display[]	<u>N/A</u>	Optional	List of child AssignedPricePlanDisplay of this Product.
totalRecurringCalculatedPri ce	TotalRecurringCalculate dPrice	N/A	Not in use	Not in use
productID	String	N/A	Mandatory	The ID of the Product
productServiceID	String	<u>N/A</u>	Mandatory_	The service ID of the Product
productLineOfBusiness	String	<u>N/A</u>	Optional	The LineOfBusiness of the Product
productName	String	N/A	Mandatory	The name of the Product

ImplAssignedPricePlanDisplay

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
TotalOneTimeCalculatedPrice	TotalOneTimeCalculatedPric e	N/A	Not in use	Not in use
TotalRecurringCalculatedPrice	TotalRecurringCalculatedPri ce	N/A	Not in use	Not in use
$\underline{impl} \underbrace{eC} alculated Prices$	ImplCalculatedPrices []	N/A	Optional	Total prices by type as configured and maintained in the CATALOG PRICE table. It will not be from price quoting engine.

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Field Name	Data Type	Valid Values	Mandatory /Optional	Description
displayInformation	PriceSchemaDisplay	N/A	Optional	The display information of the AssignedPricePlan nDisplay
allowedActions	AllowedAction[]	N/A	Optional	Actions that may be done on the AssignedPrice Plan Display
selected	Boolean	True/Fal se	Mandatory	This indicates whether the AssignedPriceAssignedPricePlanDisplay-part of the Product configuration.
assignedPricePlanID	String	N/A	Mandatory	A unique_identifier of the <u>AssignedPriceAssi</u> gnedPricePlanDispl ay
productSpecPricingID	String	N/A	Mandatory	ID of the ProductSpecPricing
recurringCalculatedPrices	RecurringCalculatedPrice[]	N/A	Not in use	Not in use
crossProductDiscount	Boolean	True/Fal se	Mandatory	Indicates whether this AssignedPriceAssi gnedPricePlanDispl ay-was added to the Product as result of cross products discounts.
productSpecPricing	ProductSpecPricing	N/A	Optional	The details of the ProductSpecPricing leading to the parent product.
OneTimeCalculatedPrices	OneTimeCalculatedPrice[]	N/A	Not in use	Not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
crossProductDiscountRuleDescription	String	N/A	Mandatory	Contain the description of the cross products discounts rule, that added this AssignedPriceAssignedPricePlanDisplay. If the AssignedPriceAssignedPricePlanDisplay-was not added as a result of thecross-products discounts rule, this field will be empty.
name	String	N/A	Mandatory	A word, term, or phrase by which the PriceSchema is known and distinguished from other PriceSchemas.
action	ProductConfigurationAction Type	N/A	Optional	Action that was performed on the AssignedPriceAssi gnedPricePlanDispl ay.
status	ProductActivationStatus	N/A	Optional	The status of the AssignedPriceAssignedPricePlanDisplay, For example Active, Cease, Suspended. When a AssignedPriceAssignedPricePlanDisplay_is not saved yet (catalog definition) this field will be empty.

3.1.3.65 PriceSchemaDisplay

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
enabled	Boolean	N/A	Mandatory	If value is True then the PriceSchema is editable
visible	Boolean	N/A	Mandatory	If value is True then the PriceSchema should be displayed

3.1.3.66 RecurringCalculatedPrice – not in use

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
OriginalAmount	BigDecimal	N/A	Mandatory	The original amount of the CalculatedPrice - before any discounts. Provider write only
ProratedAmount	BigDecimal	N/A	Not in use	The amount of the {@LABEL RecurringCalculatedPrice} calculated proportionately to the required period of the first bill. Provider write only
ProratedDiscountAmount	BigDecimal	N/A	Not in use	The discount amount of the {@LABEL RecurringCalculatedPrice} calculated proportionately to the required period. Provider write only
ProratedTaxAmount	BigDecimal	N/A	Not in use	The tax amount of the {@LABEL RecurringCalculatedPrice} calculated proportionately to the required period of the first bill. Provider write only.
DiscountPercentage	BigDecimal	N/A	Mandatory	The percentage of discount amount of the CalculatedPrice}. Calculated as CalculatedPrice.discountAmount/CalculatedPrice.originalAmount * 100
FinalAmount	BigDecimal	N/A	Mandatory	The final amount of the CalculatedPrice after any discounts and override/waive. Provider write only.

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
FinalTaxAmount	BigDecimal	N/A	Mandatory	The final tax amount of the CalculatedPrice after any discounts. Provider write only.
OriginalTaxAmount	BigDecimal	N/A	Mandatory	The original tax amount of the CalculatedPrice - before any discounts. Provider write only
RecurringChargeFrequency	String	N/A	Optional	The currency of the {@LABEL RecurringCalculatedPrice}. Provider write only.
DiscountAmount	BigDecimal	N/A	Mandatory	The discount amount of the CalculatedPrice. Provider write only.
ChargeDescription	String	N/A	Not in use	The description of the actual charge, depending on the reference data model may differ from the description in the catalog definition
Name	String	N/A	Mandatory	The catalog name of the originating PriceSchema or ActivityCharge. Provider write only.
Description	String	N/A	Mandatory	The catalog description of the originating PriceSchema or ActivityCharge. Provider write only.
Currency	String	N/A	Mandatory	The currency of the CalculatedPriceProvider write only.

3.1.3.67 ProductSpecPricing

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
dynamicProperties	FlexAttr[]	N/A	Mandatory	List of additional properties that were assigned to the association.
includeByDefault	_InclusionType	N/A	Optional	If value is True then the pricing is included when the Product is instantiated from the ProductSpecification.
childPricingSchema	PriceSchema	N/A	Optional	The PriceSchema that defines the pricing.
id	String	N/A	Mandatory	A unique identifier.

Field Code Changed

3.1.3.68 priceSchema

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
Links	Link[]	N/A	Not in use	Not in use
CrossProductDiscounts	CustomerDiscounts[]	N/A	Not in use	Not in use
Summary	CatalogItemCharacteristic[]	N/A	Not in use	Not in use
DetailsGroups	CatalogItemCharacteristicGroup[]	N/A	Not in use	Not in use
Overview	CatalogItemCharacteristic[]	N/A	Not in use	Not in use
dynamicProperties	FlexAttr[]	N/A	Optional	List of additional properties that were assigned to the PriceSchema
$\underline{impleC} alculated Prices$	ImplCalculatedPrices []	N/A	Optional	Total Charge of an item as configured and maintained in the CATALOG PRICE table. It will not be from price quoting engine.
PlanType	String	N/A	Not in use	Not in use
ContainingOfferDetailsGroup	CatalogItemCharacteristicGroup[N/A	Not in use	Not in use
ChangeToThisPlanAllowed	Boolean	True/Fals e	Not in use	Not in use
marketingDescription	String	N/A	Optional	URL to the marketing description of the plan
name	String	N/A	Mandatory	A word, term, or phrase by which the PriceSchema is known and distinguished from other PriceSchemas
id	String	N/A	Mandatory	A unique IDentifier.
type	PriceSchemaType	N/A	Optional	The type of the PriceSchema.
displayName	String	N/A	Not in use	Not in use
level	String	N/A	Optional	The level that the PriceSchema can be applied

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
image	String	N/A	Optional	URL to the image of the plan
description	String	N/A	Mandatory	A long textual description of the PriceSchema

3.1.3.69 PriceSchemaType

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	ADDITIONAL,BASIC,DISCOUNT,PRIMARY	Mandatory	List of valid values for price schema type

3.1.3.70 InclusionType

Field Name	Data Type	Valid Values	Mandatory /Optional	Description
value	String	 INCLUDED_BY_DEFAULT, MANDATORY, NOT_INCLUDED_BY_DEFAULT 	Mandatory	INCLUDED BY DEFA ULT- The element is included, but can be removed. MANDATO RY - The element is included and cannot be removed. NOT_INCL UDED_BY DEFAULT - The element is not included and can be added_List of valid values for inclusion type.

3.1.3.71 ImplBaseResponse

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

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

3.1.4 Response Sample

TBD

- 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
- Operation Specific Header Information 3.1.9

3.1.9.1 Request Header

Field Name	Valid Values	Data Type	Туре	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

Field Name	Valid Values	Data Type	Туре	Mandatory /Optional	Description
product-order- id	N/A	String	Path	Mandatory	Product order ID
customer-id	N/A	String	path	Mandatory Optional	The customer IDentificationIdentification , in case of anonymous send '0'

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.
5	PreconditionFailed	412	Re-Authentication Failed
6	NotFound	404	Resource Not Found
7	InternalServerError	500	Server encountered problem
8	MissingMandatoryQueryParameter	400	Mandatory query parameters are missing
9	InvalidUsage	400	Thrown when the API is not used in the defined way
10	PartialContent	206	If the required PP CODE does not exist in the table or no effective record was found, the error message No valid record for the Price Plan <pp code=""> was found.</pp>

3.1.11.1 Error Code Structure

3.1.11.2 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.

3.1.11.3 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
```

3.1.11.4 Possible Error Messages

#	Exception	Scenario	Error Message	
1	BadRequest	Entity locked	orderingLocalizedMessageORDERING_LOC ALIZED_MESSAGE	
2	BadRequest	Entity not found	ProductNotFound	
3	BadRequest	Mandatory parameter is missing	BadRequest	
4	BadRequest	Inconsistent parameters	InvalidUsage	
5	BadRequest	Invalid mask	InvalidFilter	
6	InternalServerError	General exception in the BE system.	InternalServerError	
7	PartialContent	If the required PP CODE does not exist in the table or no effective record was found	No valid record for the Price Plan <pp CODE> was found</pp 	

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
activity For Configuration	ImplValidate And Update Multi Products Configuration Request	3.1.1.2
lineOfBusiness	TopLevelProductConfiguration	3.1.3.5
severity	RuleExecutionMessage	3.1.3.37
level	ProductSpecification	3.1.3.45
purpose	Attachment	3.1.3.51
type	Attachment	3.1.3.51
<u>availablityGroup</u>	<u>ServiceabilityObject</u>	3.1.1.23
dwellType	<u>ServiceabilityObject</u>	3.1.1.23
<u>customerType</u>	<u>ServiceabilityObject</u>	3.1.1.23
<u>orderActionType</u>	<u>ServiceabilityObject</u>	3.1.1.23
userRole	<u>ServiceabilityObject</u>	3.1.1.23
LOBName	LOBServicability	3.1.1.25



Document Release Information

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

Soft ware Vers ion	Editor/Au thor	Applicat ion	Edit Date [Mmm-dd- yyyy]	Section	Changes	Sent to site	A p p r o v i n DC Ver. M a n a g e r	•
00.0	Malki Sabag		Jun-14-2015	Initial Ve	ersion	N	00.00	
	Jonathan Cohen	TechCo mm	Jun-15-2015	Initial TV	W review	N		
	Orit		Jun-15-2015		Finalize	Y	1.0	
	Malki Sabag		<u>Jul-01-2015</u>	3.1.1.9	Updated this fields to 'not in use': - newSimpleProducts - resumedContainedProducts - removedSimpleProducts	<u>NY/N</u>	1.16	
	Malki Sabag		<u>Jul-01-2015</u>	3.1.1.1 1	Updated this fields to 'not in use': -parentTemporaryID productSpecContainmentID -temporaryID parentProductSpecContain mentID	<u>N¥/N</u>	1.16	
	Malki Sabag		<u>Jun-21-2015</u>	3.1.11. <u>4</u>	Updated the error message for: BadRequest	<u>N</u> Y/N	1.17	
	Malki Sabag		Jun-22-2015	3.1.1.1 <u>3</u>	Updated description for this field: - productSpecPricingID - parentProductSpecContain mentID	N	1.17	

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	Malki Sabag		Jun-22-2015	3.1.1.1 <u>7</u>	Updated description for this field: - productID - parentTemporaryID - temporaryID	N		1.17
	Malki Sabag		Jun-22-2015	3.1.3.2 3. 3.1.3.2 9	Added valid value for the field: currency	N		<u>1.17</u>
	Tammy Shalev		Jul-05-2015	3.1.3.5 4	Changed 'amount' field type to be BigDecimal from Integer. - Added 2 new fields (quantity, provisioningDate)	N		1.18
	Tammy Shalev		<u>Jul-05-2015</u>	3.1.1	Added the 'ServiceabilityObject' to the request	N		1.19
	<u>Tammy</u> Shalev		Jul-05-2015	All	<u>Updated section numbers</u>	N		1.20

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	Tammy Shalev		Jul-07-2015	3.1.1.2 3.1.3.5 3.1.3.3 7 3.1.3.4 5 3.1.3.5 1 3.1.1.2 3 3.1.1.2 5	Updated valid values to - BPT Values defined by MEC for this fields: - activityForConfiguration - lineOfBusiness - severity - level - purpose - type - availablityGroup - dwellType - customerType - orderActionType - userRole - LOBName	N		1.21
	Malki Sabag		<u>Jul-13-2015</u>	3.1.3.4 5	Removed implCaluculatedPrices object Marked price schema to be in use	Y		1.22

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