

# **TM Forum Specification**

# **Shopping Cart Conformance Profile**

**TMF663B** 

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## **INTRODUCTION - API DESCRIPTION**

This text is a replacement of the \${conformance.variables.intro} template variable used in the template in this location.

Multiple lines can be added as needed.

See https://yaml-multiline.info/ for details on how to format multi-line text with YAML.



#### **RESOURCE MODEL CONFORMANCE**

#### API MANDATORY RESOURCES

The following table indicates the mandatory resources for this API.

Resource Name	Comment
ShoppingCart	

#### GENERAL NOTES ON RESOURCE ATTRIBUTE CONFORMANCE

There are three situations that could occur for an attribute:

- Mandatory attribute,
- o Mandatory attribute if the optional parent attribute is present,
- Non-mandatory/Optional attribute. Those are all the other attributes not mentioned in the following subsections. Please refer to the corresponding API REST Specification for more details.
- The tables in the subsections below indicate which attributes are mandatory including mandatory when an optional parent is present.
- Where a resource is an input into an API (e.g. POST, PATCH), Mandatory means that the attribute value must be supplied by the API consumer in the input (and must not be blank or null).
- Where a resource is an output from an API (e.g. GET, POST), Mandatory means that the attribute value must be supplied by the API provider in the output (and must not be blank or null).
- For a sub-resource that is not an array, Mandatory (cardinality 1..1) means that the sub-resource must be present, while Optional (cardinality 0..1) means that the sub-resource may be absent. Mandatory and Optional on the sub-resource attributes apply to the sub-resource if present.
- For a sub-resource that is an array, Mandatory (cardinality 1..\*) means that at least one sub-resource must be present in the array, while Optional (cardinality 0..\*) means that the array may be absent. Mandatory and Optional on the sub-resource attributes apply to each of the sub-resources if present.

In this table are listed all mandatory attributes. A mandatory attribute MUST be retrieved in resource representation when no attribute selection is used (e.g. GET /../{id}) without any attribute selection

When an attribute is listed with an indentation (in second column) it means this attribute is mandatory if root (parent) attribute is present.



## SHOPPINGCART RESOURCE MANDATORY ATTRIBUTES

Mandatory attribute when parent is present	Rule
href	M (in response messages) O (otherwise)
id	M (in response messages) O (otherwise)
relatedParty (if present)	Array of RelatedParty
@referredType	M
id	M
cartTotalPrice.productOfferingPrice (if present)	
id	М
cartTotalPrice.priceAlteration (if present)	Array of PriceAlteration
price	М
priceType	М
cartTotalPrice.priceAlteration.productOfferingPrice (if present)	See conditions for ProductOfferingPriceRef at cartTotalPrice.productOffering Price
cartItem.productOffering (if present)	
id	М
cartItem.itemPrice.productOfferingPrice (if present)	See conditions for ProductOfferingPriceRef at cartTotalPrice.productOffering Price
cartItem.itemPrice.priceAlteration (if present)	Array of PriceAlteration
	See conditions for PriceAlteration at cartTotalPrice.priceAlteration
cartItem.itemPrice.priceAlteration.productOfferingPrice (if present)	See conditions for ProductOfferingPriceRef at cartTotalPrice.productOffering Price
cartItem.itemTotalPrice.productOfferingPrice (if present)	See conditions for ProductOfferingPriceRef at



Mandatory attribute when parent is present	Rule
	cartTotalPrice.productOffering Price
cartItem.itemTotalPrice.priceAlteration (if present)	Array of PriceAlteration
	See conditions for PriceAlteration at cartTotalPrice.priceAlteration
cartItem.itemTotalPrice.priceAlteration.productOfferingPrice (if present)	See conditions for ProductOfferingPriceRef at cartTotalPrice.productOffering Price
cartItem.product.agreement (if present)	Array of AgreementItemRef
id	М
cartItem.product.billingAccount (if present)	
id	М
cartItem.product.place (if present)	Array of RelatedPlaceRefOrValue
role	М
cartItem.product.productOffering (if present)	See conditions for ProductOfferingRef at cartItem.productOffering
cartItem.product.realizingResource (if present)	Array of ResourceRef
id	М
cartItem.product.realizingService (if present)	Array of ServiceRef
id	М
cartItem.product.productOrderItem (if present)	Array of RelatedProductOrderItem
orderItemId	М
productOrderId	М
cartItem.product.productRelationship (if present)	Array of ProductRelationship
product	М
relationshipType	M



Mand	atory attribute when parent is present	Rule
cartItem.product.relatedParty (if present)		Array of RelatedParty  See conditions for RelatedParty at relatedParty
cartite	em.product.productCharacteristic (if present)	Array of Characteristic
	@type	M
	name	М
	value	М
cartite	em.product.productSpecification (if present)	
	id	М
cartite	em.product.productSpecification.targetProductSchema (if nt)	
	@schemaLocation	М
	@type	М
cartite	em.product.productPrice (if present)	Array of ProductPrice
	price	М
	priceType	М
cartItem.product.productPrice.billingAccount (if present)		See conditions for BillingAccountRef at cartItem.product.billingAccount
cartItem.product.productPrice.productOfferingPrice (if present)		See conditions for ProductOfferingPriceRef at cartTotalPrice.productOffering Price
cartItem.product.productPrice.productPriceAlteration (if present)		Array of PriceAlteration
		See conditions for PriceAlteration at cartTotalPrice.priceAlteration
cartItem.product.productPrice.productPriceAlteration.productOfferingPrice (if present)		See conditions for ProductOfferingPriceRef at cartTotalPrice.productOffering Price



#### **API OPERATIONS CONFORMANCE**

For every single resource the following tables includes mandatory operations.

#### SHOPPINGCART MANDATORY OPERATIONS

The following table indicates which ones are mandatory for the ShoppingCart resource:

Uniform API Operation	
GET	
POST	



#### **API GET OPERATION CONFORMANCE**

All the GET operations in this API share the same status code pattern.

GET	Mandatory/Optional
Response Status Code 200 if successful	М
Response Status Code 404 if not found	М

#### **DEFINITIONS FOR FILTER**

The following definitions apply to all the GET operations:

- Filtered Search: A filtered search can be applied using query parameters to obtain only the resources that meet the criteria defined by the filtering parameters included in the query request. Several elements can be applied to the filtered search. In that case logic, a logical AND is applied to combine the criteria (e.g.:?severity=<value>&status=<value>).
- Attribute selection (Limiting Response Data): In order to limit which attributes are included in the
  response, the GET request can include the ?fields= query parameter. Only those attributes whose
  names are supplied in this parameter will be returned. Attribute selection capabilities are the same
  for collections retrieval and individual resource queries.
- Level: The filtering and attribute selection can apply to the top level properties (attributes) and subproperties. The tables below show which attributes need to be supported in top-level or contained resources.

#### GET /SHOPPINGCART?FIELDS=...&{FILTERING}

This operation list or find ShoppingCart entities

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

#### GET /SHOPPINGCART/{ID}?FIELDS=...&{FILTERING}

This operation retrieves a ShoppingCart entity. Attribute selection is enabled for all first level attributes.

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels



# **API POST OPERATION CONFORMANCE**

All the POST operations in this API share the same status code pattern.

POST	Mandatory/Optional
Status Code 201 if resource created	М

#### POST /SHOPPINGCART

This operation creates a ShoppingCart entity.

The following table provides the list of mandatory attributes when creating an instance of the ShoppingCart resource, including any possible rule, conditions and applicable default values.

Mandatory Attributes	Rule



# **ACKNOWLEDGEMENTS**

#### **RELEASE HISTORY**

Release Number	Date	Release led by:	Description

#### **VERSION HISTORY**

Version Number	Date	Modified by	Description