



monkey
SOFTWARE

Catalogues API

Technical Specification

v2.0

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Published: 29.09.2022

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CHANGE HISTORY

Potentially breaking changes are highlighted in red.

Date	Version	Changes
29.09.2022	2.0	Update <ul style="list-style-type: none"> - Convert to .NET6 - CataloguesApi-MonkeySoftware superseded by CataloguesApi2-MonkeySoftware to remain for a certain period to cater for all OT versions before v2.3.4 - Remove all resources other than Suppliers. To be accessed through Suppliers navigation properties - When using \$apply array is returned at top level instead of in 'value' element - 'includeVsp' queryString not needed anymore as it was used for old versions of OT
22.12.2021	1.3	New <ul style="list-style-type: none"> - Packages resource - Packages navigation property for Suppliers Update <ul style="list-style-type: none"> - Add includeVsp parameter to Suppliers for GET - Add Frames Packages, MaxPlusPower, MaxMinusPower - Add Spectacle Lenses AccountDescription, CostExcludingTaxAu, CostExcludingTaxNz, CostIncludingTaxAu, CostIncludingTaxNz, ListPriceAu, ListPriceNz, SellIncludingTaxAu, SellIncludingTaxNz, IsInventory, MaxCylinder, DaysAtLab, IsSunglassRx, DescriptionVsp, IsCustomised, NeedHeights, CorridorLength, FocalRange, MinimumHeight, BaseCurveMulti, IsInactive, IsAvailableInGray, IsAvailableInBrown, IsAvailableInG15 - Add Spectacle Lens AddOns AccountDescription, CostExcludingTaxAu, CostExcludingTaxNz, SellIncludingTaxAu, SellIncludingTaxNz, IsMultiCoatNz - Add Spectacle Lens Tints AccountDescription, CostExcludingTaxAu, CostExcludingTaxNz, SellIncludingTaxAu, SellIncludingTaxNz
18.06.2021	1.2	Update <ul style="list-style-type: none"> - Add Spectacle Lens Tints Type
02.06.2021	1.1	New <ul style="list-style-type: none"> - Spectacle Lenses, Spectacle Lens Add-Ons and Spectacle Lens Tints resources - Spectacle Lenses, Spectacle Lens Add-Ons and Spectacle Lens Tints navigation properties for Suppliers
05.03.2020	1.0	Initial Release

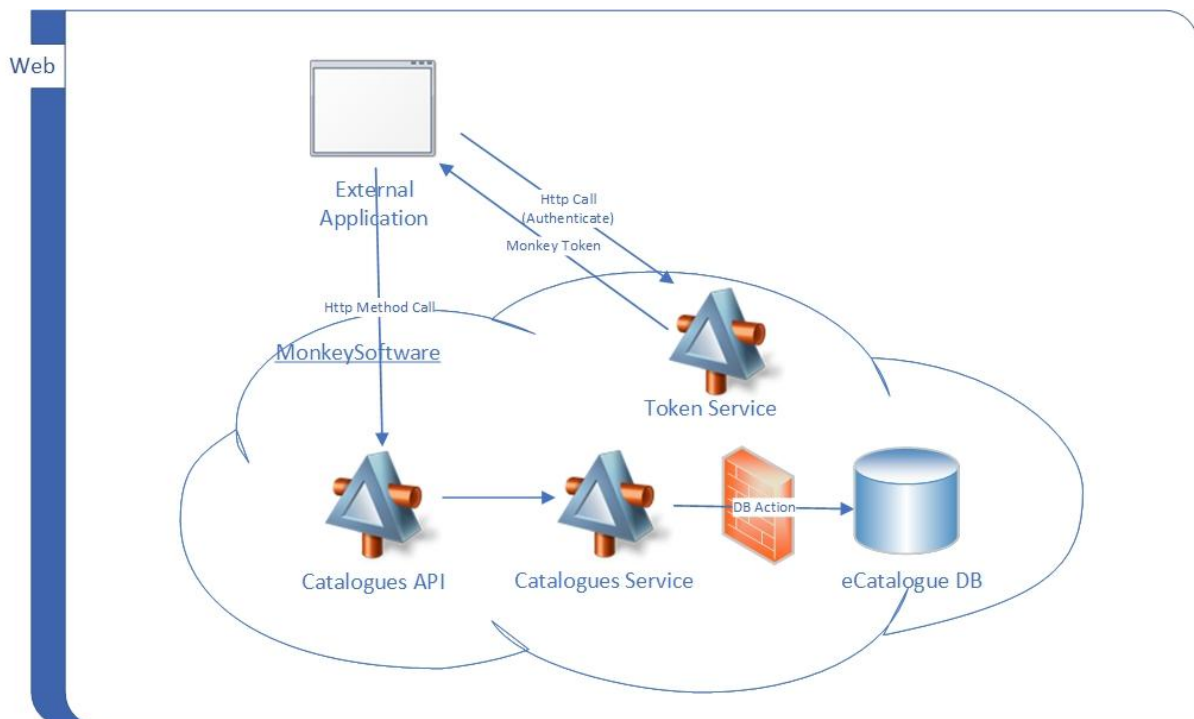
OVERVIEW

The Catalogues API is a RESTful service that is hosted as an AppService in the Microsoft Azure cloud. It supports OData queries and exposes a number of resources used for getting data from the eCatalogue Uploader Database. This document describes these resources in terms of their functionality, URIs and the method calls that can be performed on them. It also describes the format of the request and receive data for each method call and any associated input data validation.



All generated dates are in Utc.

ARCHITECTURE



The Catalogues API is hosted as an AppService in the Microsoft Azure cloud. The API connects to the eCatalogue Uploader database using the Microsoft Entity Framework.

DETAILS

Host Type	Azure AppService
Name	CataloguesApi2-MonkeySoftware
Description	eCatalogue Uploader API AppService in the Microsoft Azure cloud

SECURITY



Every request sent to the API will need to contain an **Authorization** header containing a Monkey Token that can be retrieved from the Monkey Token service.

AUTHENTICATION

In order to use the Catalogues API a user would need to be registered as a Monkey Software client and have a Monkey issued public encryption key. This key can be used to encrypt a Composite Key used in requesting Monkey Tokens.

REQUEST HEADERS

Authorization	Bearer <monkey token>
---------------	-----------------------

CATALOGUES API

DETAILS

Type	RESTful Web Service
Name	Catalogues API
Base URI	Test: https://cataloguesapi-monkeysoftware-test.azurewebsites.net Prod: https://cataloguesapi-monkeysoftware.azurewebsites.net
Message Format	JSON



Property names are CASE SENSITIVE and are in CamelCase. All Dates are in the Coordinated Universal Time.

Sample JSON message

```
{
  "SupplierId": "882c8b7b-c517-4509-bcfa-6d1810a9aabc",
  "Code": "51M",
  "Description": "SunCK SV 1.5 Tinted",
  "Price": 105,
  "FramePrice": 65,
  "LensPrice": 20,
  "LensSupplierStockCode": "SUNSVG1.5THC"
}
```



Any resource property of type record or Collection can be retrieved by using the OData **\$expand** query option. See appendices for examples.

ODATA

The API supports OData queries utilising OData v4. OData (Open Data Protocol) is an ISO/IEC approved, OASIS standard that defines a set of best practices for building and consuming RESTful APIs. Supported OData query options are: \$select, \$expand, \$filter, \$orderby, \$top, \$skip, \$count and \$apply.



The service format description can be viewed using the **\$metadata** option.

See Appendices for examples. For more information please refer to <https://www.odata.org/>.

PRIMITIVE JSON VALUE FORMATS

Null values are represented as the JSON literal null.

Values of type Edm.Boolean are represented as the JSON literals true and false

Values of types Edm.Byte, Edm.SByte, Edm.Int16, Edm.Int32, Edm.Int64, Edm.Decimal, Edm.Single and Edm.Double are represented as JSON numbers.

Values of type Edm.String, Edm.Binary, Edm.DateTimeOffset, Edm.Date, Edm.TimeOfDay and Edm.Guid are represented as JSON strings.

REQUEST

The Catalogues API implements the standard HTTP Request Methods as follows:

HTTP Method	Action
GET <Resource>	Return all records of the requested resource
GET <Resource>/ID	Return a single record matched on the specified ID
POST <Resource>	Create the submitted resource
PUT <Resource>/ID	Update the submitted resource providing all properties
PATCH <Resource>/ID	Update the submitted resource providing only changes



The HTTP methods that are allowed to be performed will vary from resource to resource and these are described in the following sections of the document.

RESPONSE

The Catalogues API returns standard HTTP Responses such as:

HTTP Status Code	Response
200	OK
201	Created
202	Accepted
400	Bad Request
401	Unauthorized
404	Not Found
409	Conflict
500	Internal Server Error

When an error code is returned, an error may also be returned in the output.

Sample OData Error

```
{  
  "Code": 200,  
  "Message": "The supplied request is invalid!"  
}
```

Error Message

Name	Type : Default	Null
Code	Int32	<input checked="" type="checkbox"/>
Message	String (8000)	<input checked="" type="checkbox"/>

Custom Errors

The API will return the following custom errors:

Code	Message
100	Missing Credentials!
101	Invalid Credentials!
103	The supplied User does not have the required permissions for this request!
105	The Business is not authorised to access this service!

RESOURCES

SUPPLIERS

GET Suppliers(Id)

Gets a single Supplier based on the specified ID.

Output

Supplier record.

Name	Type	Null
Id	String (128)	<input checked="" type="checkbox"/>
IsActive	Boolean	<input checked="" type="checkbox"/>
IncludeInDownload	Boolean	<input checked="" type="checkbox"/>
AcceptOrders	Boolean	<input checked="" type="checkbox"/>
Code	String (50)	<input checked="" type="checkbox"/>
Name	String (50)	<input checked="" type="checkbox"/>
InventoryTypes	String (1)	<input checked="" type="checkbox"/>
LastUploadUtc	DateTime <i>yyyy-MM-ddTHH:mm:ss.zzz</i>	<input checked="" type="checkbox"/>

GET Suppliers

Gets all external Suppliers in eCatalogue. Optional parameter includeVsp can be set to true to include VSP suppliers.

Query Parameters

Name	Type : Default	Null
includeVsp	Boolean : false	<input checked="" type="checkbox"/>

Output

Collection of Supplier records.

GET Suppliers(ID)/Frames

Gets all Frames in eCatalogue for the Supplier based on the specified ID.

Output

Collection of Frame records.

Name	Type : Default	Null
SupplierId	String (128)	<input type="checkbox"/>
SupplierStockCode	String (50)	<input type="checkbox"/>
Barcode	String (20)	<input type="checkbox"/>
Model	String (15)	<input type="checkbox"/>
Type	String (2)	<input type="checkbox"/>
Brand	String (15)	<input type="checkbox"/>
UvRating	Byte	<input checked="" type="checkbox"/>
Gender	String (6)	<input checked="" type="checkbox"/>
Bridge	Byte	<input checked="" type="checkbox"/>
EyeSize	Byte	<input checked="" type="checkbox"/>
Depth	Int32	<input checked="" type="checkbox"/>
Diag	Byte	<input checked="" type="checkbox"/>
Temple	Int32	<input checked="" type="checkbox"/>
FrameCurve	Int32	<input checked="" type="checkbox"/>
PantoAngle	Int16	<input checked="" type="checkbox"/>
Construction	String (4)	<input checked="" type="checkbox"/>
Material	String (4)	<input checked="" type="checkbox"/>
ColourCode	String (15)	<input type="checkbox"/>
ColourDescription	String (70)	<input checked="" type="checkbox"/>
Gst	Boolean : True (for non "AU")	<input type="checkbox"/>
Category	String (4)	<input checked="" type="checkbox"/>
ListPriceExAu	Decimal	<input type="checkbox"/>
ListPriceExNz	Decimal	<input type="checkbox"/>
RpIncAu	Decimal	<input checked="" type="checkbox"/>
RpIncNz	Decimal	<input checked="" type="checkbox"/>
Status	String (1)	<input checked="" type="checkbox"/>
Url	String (8000)	<input checked="" type="checkbox"/>
MemberSellPriceIncAu	Decimal	<input checked="" type="checkbox"/>
MemberSellPriceIncNz	Decimal	<input checked="" type="checkbox"/>
OrderCode	String (20)	<input checked="" type="checkbox"/>
Packages	String (100)	<input checked="" type="checkbox"/>
MaxPlusPower	Double	<input checked="" type="checkbox"/>
MaxMinusPower	Double	<input checked="" type="checkbox"/>

GET Suppliers(ID)/Packages

Gets all Packages in eCatalogue for the Supplier based on the specified ID.

Output

Collection of Package records.

Name	Type	Null
SupplierId	String (128)	<input type="checkbox"/>
Code	String (3)	<input type="checkbox"/>
Description	String (100)	<input type="checkbox"/>
Price	Decimal	<input checked="" type="checkbox"/>

FramePrice	Decimal	<input checked="" type="checkbox"/>
LensPrice	Decimal	<input checked="" type="checkbox"/>
LensSupplierStockCode	String (70)	<input checked="" type="checkbox"/>

GET Suppliers(ID)/SpectacleLenses

Gets all Spectacle Lenses in eCatalogue for the Supplier based on the specified supplier ID.

Output

Collection of Spectacle Lens records.

Name	Type : Default	Null
SupplierId	String (128)	<input checked="" type="checkbox"/>
SupplierStockCode	String (50)	<input checked="" type="checkbox"/>
Description	String (75)	<input checked="" type="checkbox"/>
ItemId	String (20)	<input checked="" type="checkbox"/>
Category	String (4)	<input checked="" type="checkbox"/>
Barcode	String (14)	<input checked="" type="checkbox"/>
EyetaikBookCode	String (20)	<input checked="" type="checkbox"/>
SingleHealthFundNumber	String (5)	<input checked="" type="checkbox"/>
MultiHealthFundNumber	String (5)	<input checked="" type="checkbox"/>
AddOnSingleHealthFundNumbers	String (200) <i>csv</i>	<input checked="" type="checkbox"/>
AddOnMultiHealthFundNumbers	String (200) <i>csv</i>	<input checked="" type="checkbox"/>
IsTaxable	Boolean : True (for non "AU")	<input checked="" type="checkbox"/>
AccountDescription	String (100)	<input checked="" type="checkbox"/>
CostExcludingTaxAu	Decimal	<input checked="" type="checkbox"/>
CostExcludingTaxNz	Decimal	<input checked="" type="checkbox"/>
CostIncludingTaxAu	Decimal	<input checked="" type="checkbox"/>
CostIncludingTaxNz	Decimal	<input checked="" type="checkbox"/>
SellIncludingTaxAu	Decimal	<input checked="" type="checkbox"/>
SellIncludingTaxNz	Decimal	<input checked="" type="checkbox"/>
ListPriceAu	Decimal	<input checked="" type="checkbox"/>
ListPriceNz	Decimal	<input checked="" type="checkbox"/>
RrpIncludingTaxAu	Decimal	<input checked="" type="checkbox"/>
RrpIncludingTaxNz	Decimal	<input checked="" type="checkbox"/>
OrderCode	String (20)	<input checked="" type="checkbox"/>
Diameter	Double	<input checked="" type="checkbox"/>
BaseCurve	Double	<input checked="" type="checkbox"/>
SegSize	Double	<input checked="" type="checkbox"/>
HighestSph	Double	<input checked="" type="checkbox"/>
LowestSph	Double	<input checked="" type="checkbox"/>
RefractiveIndex	Double	<input checked="" type="checkbox"/>
StockGrind	String (1)	<input checked="" type="checkbox"/>
Material	String (1)	<input checked="" type="checkbox"/>
IsPolarised	Boolean	<input checked="" type="checkbox"/>
Transitions	Boolean	<input checked="" type="checkbox"/>
Type	String (1)	<input checked="" type="checkbox"/>
Url	String (300)	<input checked="" type="checkbox"/>
IsMultiCoatNz	Boolean	<input checked="" type="checkbox"/>
IsHardCoatNz	Boolean	<input checked="" type="checkbox"/>
IsHighIndexNz	Boolean	<input checked="" type="checkbox"/>

IsPhotoGlassNz	Boolean	<input type="checkbox"/>
IsPhotoResinNz	Boolean	<input type="checkbox"/>
IsInventory	Boolean	<input checked="" type="checkbox"/>
MaxCylinder	Double	<input checked="" type="checkbox"/>
DaysAtLab	Int32	<input checked="" type="checkbox"/>
IsSunRx	Boolean	<input checked="" type="checkbox"/>
IsCustomised	Boolean	<input checked="" type="checkbox"/>
NeedHeights	Boolean	<input checked="" type="checkbox"/>
CorridorLength	String (200)	<input checked="" type="checkbox"/>
FocalRange	String (200)	<input checked="" type="checkbox"/>
MinimumHeight	Int32	<input checked="" type="checkbox"/>
BaseCurveMulti	String (200)	<input checked="" type="checkbox"/>
IsAvailableInGray	Boolean	<input checked="" type="checkbox"/>
IsAvailableInBrown	Boolean	<input checked="" type="checkbox"/>
IsAvailableInG15	Boolean	<input checked="" type="checkbox"/>

GET Suppliers(ID)/SpectacleLensAddOns

Gets all Spectacle Lens Add-Ons in eCatalogue for the Supplier based on the specified supplier ID.

Output

Collection of Spectacle Lens Add-On records.

Name	Type : Default	Null
SupplierId	String (128)	<input type="checkbox"/>
SupplierStockCode	String (50)	<input type="checkbox"/>
Description	String (75)	<input type="checkbox"/>
ItemId	String (20)	<input checked="" type="checkbox"/>
Category	String (4)	<input type="checkbox"/>
Barcode	String (14)	<input checked="" type="checkbox"/>
EyetaikBookCode	String (20)	<input checked="" type="checkbox"/>
SingleHealthFundNumber	String (5)	<input checked="" type="checkbox"/>
MultiHealthFundNumber	String (5)	<input checked="" type="checkbox"/>
IsTaxable	Boolean : True (for non "AU")	<input type="checkbox"/>
AccountDescription	String (100)	<input checked="" type="checkbox"/>
CostExcludingTaxAu	Decimal	<input checked="" type="checkbox"/>
CostExcludingTaxNz	Decimal	<input checked="" type="checkbox"/>
SellIncludingTaxAu	Decimal	<input checked="" type="checkbox"/>
SellIncludingTaxNz	Decimal	<input checked="" type="checkbox"/>
RrpIncludingTaxAu	Decimal	<input type="checkbox"/>
RrpIncludingTaxNz	Decimal	<input type="checkbox"/>
OrderCode	String (20)	<input checked="" type="checkbox"/>
IsMultiCoatNz	Boolean	<input checked="" type="checkbox"/>

GET Suppliers('ID')/SpectacleLensTints

Gets all Spectacle Lens Tints in eCatalogue for the Supplier based on the specified supplier ID.

Output

Collection of Spectacle Lens Tint records.

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Name	Type : Default	Null
SupplierId	String (128)	<input checked="" type="checkbox"/>
SupplierStockCode	String (50)	<input checked="" type="checkbox"/>
Description	String (75)	<input checked="" type="checkbox"/>
ItemId	String (20)	<input checked="" type="checkbox"/>
Category	String (4)	<input checked="" type="checkbox"/>
Barcode	String (14)	<input checked="" type="checkbox"/>
SingleHealthFundNumber	String (5)	<input checked="" type="checkbox"/>
MultiHealthFundNumber	String (5)	<input checked="" type="checkbox"/>
IsTaxable	Boolean : True (for non "AU")	<input checked="" type="checkbox"/>
AccountDescription	String (100)	<input checked="" type="checkbox"/>
CostExcludingTaxAu	Decimal	<input checked="" type="checkbox"/>
CostExcludingTaxNz	Decimal	<input checked="" type="checkbox"/>
SellIncludingTaxAu	Decimal	<input checked="" type="checkbox"/>
SellIncludingTaxNz	Decimal	<input checked="" type="checkbox"/>
RrpIncludingTaxAu	Decimal	<input checked="" type="checkbox"/>
RrpIncludingTaxNz	Decimal	<input checked="" type="checkbox"/>
OrderCode	String (20)	<input checked="" type="checkbox"/>
Type	String (1)	<input checked="" type="checkbox"/>

GET Suppliers('ID')/ContactLenses

Gets all Contact Lenses in eCatalogue for the Supplier based on the specified supplier ID.

Output

Collection of Contact Lens records.

Name	Type : Default	Null
SupplierId	String (128)	<input checked="" type="checkbox"/>
SupplierStockCode	String (50)	<input checked="" type="checkbox"/>
Description	String (75)	<input checked="" type="checkbox"/>
ItemId	String (20)	<input checked="" type="checkbox"/>
Category	String (4)	<input checked="" type="checkbox"/>
Barcode	String (14)	<input checked="" type="checkbox"/>
EyetailkBookCode	String (20)	<input checked="" type="checkbox"/>
SingleHealthFundNumber	String (5)	<input checked="" type="checkbox"/>
MultiHealthFundNumber	String (5)	<input checked="" type="checkbox"/>
IsTaxable	Boolean : True (for non "AU")	<input checked="" type="checkbox"/>
ListPriceAu	Decimal	<input checked="" type="checkbox"/>
ListPriceNz	Decimal	<input checked="" type="checkbox"/>
RrpIncludingTaxAu	Decimal	<input checked="" type="checkbox"/>
RrpIncludingTaxNz	Decimal	<input checked="" type="checkbox"/>
Uri	String (300)	<input checked="" type="checkbox"/>
OrderCode	String (20)	<input checked="" type="checkbox"/>
Brand	String (1)	<input checked="" type="checkbox"/>
BaseCurveMeasures	String (200) <i>csv</i>	<input checked="" type="checkbox"/>
DiameterMeasures	String (200) <i>csv</i>	<input checked="" type="checkbox"/>
HmiMeasures	String (200) <i>csv</i>	<input checked="" type="checkbox"/>
DaysAtLab	Int16	<input checked="" type="checkbox"/>
Features	String (50)	<input checked="" type="checkbox"/>
Axis	String (40)	<input checked="" type="checkbox"/>

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Power	String (40)	<input checked="" type="checkbox"/>
Tint	String (40)	<input checked="" type="checkbox"/>
WaterContent	Double	<input checked="" type="checkbox"/>
Oxygen	String (10)	<input checked="" type="checkbox"/>
IsDisposable	Booelan	<input checked="" type="checkbox"/>
ExtendedWear	Booelan	<input checked="" type="checkbox"/>
DaysUsageInBox	Int32	<input checked="" type="checkbox"/>
Frequency	String (1)	<input checked="" type="checkbox"/>

GET Suppliers('ID')/Solutions

Gets all Solutions in eCatalogue for the Supplier based on the specified supplier ID.

Output

Collection of Solution records.

Name	Type : Default	Null
SupplierId	String (128)	<input checked="" type="checkbox"/>
SupplierStockCode	String (50)	<input checked="" type="checkbox"/>
Description	String (75)	<input checked="" type="checkbox"/>
ItemId	String (20)	<input checked="" type="checkbox"/>
Category	String (4)	<input checked="" type="checkbox"/>
Barcode	String (14)	<input checked="" type="checkbox"/>
EyetailkBookCode	String (20)	<input checked="" type="checkbox"/>
HealthFundNumber	String (5)	<input checked="" type="checkbox"/>
IsTaxable	Boolean : True (for non "AU")	<input checked="" type="checkbox"/>
ListPriceAu	Decimal	<input checked="" type="checkbox"/>
ListPriceNz	Decimal	<input checked="" type="checkbox"/>
RrpIncludingTaxAu	Decimal	<input checked="" type="checkbox"/>
RrpIncludingTaxNz	Decimal	<input checked="" type="checkbox"/>
Url	String (300)	<input checked="" type="checkbox"/>
OrderCode	String (20)	<input checked="" type="checkbox"/>

GET Suppliers('ID')/OtherItems

Gets all Other Items in eCatalogue for the Supplier based on the specified supplier ID.

Output

Collection of Other Item records.

Name	Type : Default	Null
SupplierId	String (128)	<input checked="" type="checkbox"/>
SupplierStockCode	String (50)	<input checked="" type="checkbox"/>
Description	String (75)	<input checked="" type="checkbox"/>
ItemId	String (20)	<input checked="" type="checkbox"/>
Category	String (4)	<input checked="" type="checkbox"/>
Barcode	String (14)	<input checked="" type="checkbox"/>
EyetailkBookCode	String (20)	<input checked="" type="checkbox"/>
HealthFundNumber	String (5)	<input checked="" type="checkbox"/>
IsTaxable	Boolean : True (for non "AU")	<input checked="" type="checkbox"/>

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ListPriceAu	Decimal	<input checked="" type="checkbox"/>
ListPriceNz	Decimal	<input checked="" type="checkbox"/>
RrpIncludingTaxAu	Decimal	<input checked="" type="checkbox"/>
RrpIncludingTaxNz	Decimal	<input checked="" type="checkbox"/>
Url	String (300)	<input checked="" type="checkbox"/>
OrderCode	String (20)	<input checked="" type="checkbox"/>

APPENDICES

APPENDIX A: ODATA QUERY EXAMPLES

The “\$filter” query option would be the most useful query option that allows for selecting of sub-collections of resources based on a set of criteria. A filter predicate can be applied on any of the fields that are returned by the resource request. So a search of active suppliers can be performed by supplying the following \$filter query option:

```
GET /Suppliers?$filter=IsActive eq true
```

Another useful OData query option is “\$select” to select the fields that you would like returned in the request instead of the whole resource model, so adding on the previous example:

```
GET /Suppliers?$filter=IsActive eq true &$select=Name,Code
```

“\$orderby” will order the records by the specified field(s)

```
GET /Suppliers?$filter=IsActive eq true &$select=Name,Code &$orderby=Name
```

A count of resources in the returned results can be achieved by using the “\$count” query option:

```
GET /Suppliers?$filter=IsActive eq true &$select=Name,Code &$count=true
```

‘\$apply” can be used for grouping of results:

```
GET /Suppliers('e24da4af-0048-46a7-b37a-623538221b68')/Frames ?$apply=groupby((Brand),aggregate(Barcode with countdistinct as Total))
```