

LensOnDemand Web Services

Contents

Index of changes.....	2
Service address.....	3
Catalog search	3
Requests	3
Structure of the message:	3
Nodes explanation:.....	4
Available fields.....	5
Search examples	7
Response	9
Structure of the message	9
Nodes explanation:.....	9
Example of successful response	10
Example of response with errors.....	10
Order request	11
Requests	11
Structure of the message:	11
Nodes explanation:.....	20
Response	28
Structure of the message:	28
Nodes explanation:.....	28
Example of successful response	29
Example of response with errors.....	29

Index of changes

Changed by	Date	Summary
J. Marques	01/21/2014	Initial version

Service address

The service is available at:

<https://lensondemand.com/Services/LensOnDemand.Services.LensOnDemand.svc>

Catalog search

Requests

Structure of the message:

Examples of messages are provided after the fields' explanation.

```
<?xml version="1.0" encoding="utf-8"?>
<CatalogSearchRequest Version="1.00">
  <RequestorCredentials>
    <Email>user@email.com</Email>
    <Password>password</Password>
    <ProviderToken>00000000-0000-0000-0000-000000000000</ProviderToken>
  </RequestorCredentials>
  <ResultFields>Field1, Field2</ResultFields>
  <OrderBy>Field3, Field4</OrderBy>
  <Criteria>
    <Group>
      <Criterion>
        <Key>
          ValueForCriterionKey
        </Key>
        <Operator>
          ValueForCriterionOperator
        </Operator>
        <Values>
          <Value>
            Value1ForCriterion
          </Value>
          <Value>
            Value2ForCriterion
          </Value>
        </Values>
      </Criterion>
    </Group>
  </Criteria>
</CatalogSearchRequest>
```

Nodes explanation:

Node	Purpose	Occurrence	Possible values
CatalogSearchRequest	Root of the document	1	-
Version	Version of the interface	1	1.00
RequestorCredentials	Root for the requestor credentials	1	-
Email	Email of the requestor (username)	1	
Password	Password of the requestor	1	
ProviderToken	Token identifying the program used by the client (provided by LensOnDemand)	1	
ResultFields	List of fields to receive in the response (separated by commas)	1	ManufacturerName, SeriesName (To see the entire list go to the section Available fields)
OrderBy	List of fields to order the results.	0..1	ManufacturerName, SeriesName (To see the entire list go to the section Available fields)
Criteria	Root for the criteria structure	0..1	-
Group	Groups several Criterion nodes. An OR logical operation will be performed between groups content.	0..n	-
Criterion	Define a criterion for the search. An AND logical operation will be performed between all Criterion in a group.	0..n	-
Key	Key (name) of the criterion	1 per criterion	ManufacturerName, SeriesName (To see the entire list go to the section Available fields)
Operator	Comparison operator for the search condition. Not all the criterion allows all operators. See the section Available fields .	1 per criterion	Equals, GreaterThan, LessThan, GreaterThanOrEqual, LessThanOrEqual, Between, DifferentThan, Contains
Values	Root node for values	1 per criterion	-
Value	Values to perform the comparison. An OR logical operation will be performed between values.	1..n	COOPER VISION, VISTAKON

Available fields

Available fields for **results**, **order by** and **criteria** keys:

Section	Field	Allowed operators
Manufacturer	ManufacturerId	Equals
	ManufacturerName	Equals, Contains
	SeriesId	Equals
Series	SeriesName	Equals, Contains
	DaysPerLens	Equals, GreaterThan, LessThan, GreaterThanOrEqual, LessThanOrEqual, Between, DifferentThan
	WearFrequency	Equals, Contains
	Style	Equals, Contains
	NewSerie	Equals (True, False)
	H2O	Equals, Contains
	WearType	Equals, Contains
	Replacement	Equals, Contains
	OZ	Equals, Contains
	DK	Equals, Contains
	AddType	Equals, Contains
	ManuProcess	Equals, Contains
	StabMethod	Equals, Contains
	SurfaceType	Equals, Contains
	UVProtect	Equals, Contains
	FDA	Equals, Contains
	Warnings	Equals, Contains
	ToricMark	Equals, Contains
	DisinfectMethod1	Equals, Contains
	DisinfectMethod2	Equals, Contains
	DisinfectMethod3	Equals, Contains
	DisinfectMethod4	Equals, Contains
	Country	Equals, Contains
	Month	Equals, Contains
Year	Equals, Contains	
Series Images and documents	SeriesBlobFileExtension	Equals, Contains
	SeriesBlobDisplayName	Equals, Contains
	SeriesBlobExternal	Equals (True, False)
	SeriesBlobExternalLink	Equals, Contains
Product Family	ProductFamilyId	Equals
	ProductFamilyName	Equals, Contains
	BaseCurve	Equals, Contains
	Diameter	Equals, Contains
	Trial	Equals (True, False)
Unit Availability	Price	Equals, GreaterThan, LessThan, GreaterThanOrEqual, LessThanOrEqual, Between, DifferentThan
	WarrantyPrice	Equals, GreaterThan, LessThan, GreaterThanOrEqual, LessThanOrEqual, Between,

		DifferentThan
Units	UnitId	Equals
	UnitName	Equals, Contains
	LensQuantity	Equals, GreaterThan, LessThan, GreaterThanOrEqual, LessThanOrEqual, Between, DifferentThan
	PackageQuantity	Equals, GreaterThan, LessThan, GreaterThanOrEqual, LessThanOrEqual, Between, DifferentThan
Color	ColorId	Equals
	ColorCode	Equals, Contains
	ColorName	Equals, Contains
	GenericColor	Equals, Contains
Products	ProductId	Equals
	ProductDescription	Equals, Contains
	UPC	Equals, Contains
	Addition	Equals, Contains
	Axis	Equals, Contains
	CheckDigit	Equals, Contains
	Cylinder	Equals, Contains
	Power	Equals, Contains
	NewProduct	Equals (True, False)
	UPC_L	Equals, Contains
	UPC_P	Equals, Contains
	SKU	Equals, Contains
	TintType	Equals, Contains
	CT	Equals, Contains
	PupilSize	Equals, Contains
Multifocal1	Equals, Contains	
Multifocal2	Equals, Contains	
Add Power	AddPowerId	Equals
	AddPowerName	Equals, Contains
	AddPowerFrom	Equals, GreaterThan, LessThan, GreaterThanOrEqual, LessThanOrEqual, Between, DifferentThan
	AddPowerTo	Equals, GreaterThan, LessThan, GreaterThanOrEqual, LessThanOrEqual, Between, DifferentThan

Search examples

Request:

Search for

ManufacturerName, SeriesName, BaseCurve, Diameter

Order by

ManufacturerName

Where

Not Trials

Request document:

```
<?xml version="1.0" encoding="utf-8"? Version="1.00">
<CatalogSearchRequest>
  <RequestorCredentials>
    <Email>user@email.com</Email>
    <Password>password</Password>
    <ProviderToken>00000000-0000-0000-0000-000000000000</ProviderToken>
  </RequestorCredentials>
  <ResultFields>ManufacturerName, SeriesName, BaseCurve, Diameter</ResultFields>
  <OrderBy>ManufacturerName</OrderBy>
  <Criteria>
    <Group>
      <Criterion>
        <Key>
          Trial
        </Key>
        <Operator>
          Equals
        </Operator>
        <Values>
          <Value>
            False
          </Value>
        </Values>
      </Criterion>
    </Group>
  </Criteria>
</CatalogSearchCriteria>
```

Request:

Search for

ManufacturerName, UPC

Order by

ColorName

Where

ColorName is Green or Blue

Request document:

```
<?xml version="1.0" encoding="utf-8"?>
<CatalogSearchRequest Version="1.00">
  <RequestorCredentials>
    <Email>user@email.com</Email>
    <Password>password</Password>
    <ProviderToken>00000000-0000-0000-0000-000000000000</ProviderToken>
  </RequestorCredentials>
  <ResultFields>ManufacturerName, UPC</ResultFields>
  <OrderBy>ColorName</OrderBy>
  <Criteria>
    <Group>
      <Criterion>
        <Key>
          ColorName
        </Key>
        <Operator>
          Equals
        </Operator>
        <Values>
          <Value>
            Green
          </Value>
          <Value>
            Blue
          </Value>
        </Values>
      </Criterion>
    </Group>
  </Criteria>
</CatalogSearchRequest>
```


Response

Structure of the message

```
<?xml version="1.0" encoding="utf-16"?>
<CatalogSearchResponse Version="1.00">
  <RequestError>true/false</RequestError>
  <ErrorMessages>
    <ErrorMessage>
      Error message
    </ErrorMessage>
  </ErrorMessages>
  <Results>
    <ResultRow>
      <ResultField>
        <Name>Field 1 Name</Name>
        <Value>Field 1 Value</Value>
      </ResultField>
      <ResultField>
        <Name>Field 2 Name</Name>
        <Value>Field 2 Value</Value>
      </ResultField>
    </ResultRow>
    <ResultRow>
      <ResultField>
        <Name>Field 1 Name</Name>
        <Value>Field 1 Value</Value>
      </ResultField>
      <ResultField>
        <Name>Field 2 Name</Name>
        <Value>Field 2 Value</Value>
      </ResultField>
    </ResultRow>
  </Results>
</CatalogSearchResponse>
```

Nodes explanation:

Node	Purpose	Occurrence	Possible values
CatalogSearchResponse	Root of the document	1	-
Version	Version of the interface	1	1.00
RequestError	Indicates if the request had errors	0..1	true or false
ErrorMessages	Root for the error list	0..1	-
ErrorMessage	One of these nodes will be created per each error found in the request.	0..n	Invalid field name SerieNme in section ResultFields.
Results	Root of the result list	0..1	-
ResultRow	Contains the list of fields and its values in the response. The list of fields is the same in the node ResultFields in the request message.	0..n	-

Name	Contains the name of one requested field. Each row will have one name and value pair for each of the fields requested. The value of this node is one of the fields in the node ResultFields in the request message.	1..n	Name of a requested field.
Value	Contains the value of one requested field.	1..n	Data from the catalogue from the requested field.

Example of successful response

```
<?xml version="1.0" encoding="utf-16"?>
<CatalogSearchResponse Version="1.00">
  <RequestError>false</RequestError>
  <ErrorMessages/>
  <Results>
    <ResultRow>
      <ResultField>
        <Name>ManufacturerName</Name>
        <Value>CIBA VISION CORPORATION</Value>
      </ResultField>
    </ResultRow>
    <ResultRow>
      <ResultField>
        <Name>ManufacturerName</Name>
        <Value>COOPER VISION</Value>
      </ResultField>
    </ResultRow>
  </Results>
</CatalogSearchResponse>
```

Example of response with errors

Error messages can be received when a service operation was not executed successfully. Examples are trying to invoke a service method without correct login information, request a field with a wrong name, etc. In these cases an error message will be receive. The error messages will be inside the same structure

```
<?xml version="1.0" encoding="utf-16"?>
<CatalogSearchResponse Version="1.00">
  <RequestError>true</RequestError>
  <ErrorMessages>
    <ErrorMessage>
      Invalid field name SerieNme in section ResultFields.
    </ErrorMessage>
  </ErrorMessages>
</CatalogSearchResponse>
```

Order request

Requests

Structure of the message:

Examples of messages are provided after the fields' explanation.

```
<?xml version="1.0" encoding="utf-16"?>
<OrderRequest Version="1.00">
  <RequestorCredentials>
    <Email>
      user@email.com
    </Email>
    <Password>
      password
    </Password>
    <ProviderToken>
      00000000-0000-0000-0000-000000000000
    </ProviderToken>
  </RequestorCredentials>
  <PurchaseOrder>
    <Number>
      PO number (optional)
    </Number>
    <SupplierId>
      00000000-0000-0000-0000-000000000000
    </SupplierId>
    <PatientOrders>
      <PatientOrder>
        <OrderId>
          Order number
        </OrderId>
        <LocationId>
          Location id
        </LocationId>
        <Patient>
          <PatientId>
            Patient id
          </PatientId>
          <FirstName>
            Patient first name
          </FirstName>
          <MiddleName>
            Patient middle name
          </MiddleName>
          <LastName>
            Patient last name
          </LastName>
          <BirthdateYear>
            Patient birthday year (yyyy)
          </BirthdateYear>
          <BirthdateMonth>
```

```

        Patient birthday month (MM)
    </BirthdateMonth>
    <BirthdateDay>
        Patient birthday day (dd)
    </BirthdateDay>
    <Address>
        <AddressLine1>
            Patient address line 1
        </AddressLine1>
        <AddressLine2>
            Patient address line 1
        </AddressLine2>
        <City>
            Patient city
        </City>
        <State>
            Patient state
        </State>
        <Zip>
            Patient ZIP
        </Zip>
        <Telephone>
            Patient telephone
        </Telephone>
        <Country>
            Patient country (optional)
        </Country>
    </Address>
    <EmailAddress>
        Patient email
    </EmailAddress>
    <Gender>
        Patient gender (male / female)
    </Gender>
    <LastExamDateYear>
        Patient last exam year (yyyy)
    </LastExamDateYear>
    <LastExamDateMonth>
        Patient last exam month (MM)
    </LastExamDateMonth>
    <LastExamDateDay>
        Patient last exam day (dd)
    </LastExamDateDay>
    <NextRecallDateYear>
        Patient next recall year (yyyy)
    </NextRecallDateYear>
    <NextRecallDateMonth>
        Patient next recall month (MM)
    </NextRecallDateMonth>
    <NextRecallDateDay>
        Patient next recall day (dd)
    </NextRecallDateDay>
    <NextAppointmentDateYear>
        Patient next appointment year (yyyy)
    </NextAppointmentDateYear>

```

```

</NextAppointmentDateYear>
<NextAppointmentDateMonth>
    Patient next appointment month (MM)
</NextAppointmentDateMonth>
<NextAppointmentDateDay>
    Patient next appointment day (dd)
</NextAppointmentDateDay>
<MarketingAuthorizationFlag>
    MarketingAuthorizationFlag
</MarketingAuthorizationFlag>
<MarketingAuthorizationDateYear>
    Marketing authorization year (yyyy)
</MarketingAuthorizationDateYear>
<MarketingAuthorizationDateMonth>
    Marketing authorization month (MM)
</MarketingAuthorizationDateMonth>
<MarketingAuthorizationDateDay>
    Marketing authorization day (dd)
</MarketingAuthorizationDateDay>
<DiagnosisCode1>
    DiagnosisCode1
</DiagnosisCode1>
<DiagnosisCode2>
    DiagnosisCode2
</DiagnosisCode2>
<InsurancePrimary>
    Patient primary insurance
</InsurancePrimary>
</Patient>
<Prescription>
    <PrescriptionId>
        Prescription id
    </PrescriptionId>
    <PrescriptionDateYear>
        Prescription date year (yyyy)
    </PrescriptionDateYear>
    <PrescriptionDateMonth>
        Prescription date month (MM)
    </PrescriptionDateMonth>
    <PrescriptionDateDay>
        Prescription date day (dd)
    </PrescriptionDateDay>
    <ExpirationDateYear>
        Prescription expiration date year (yyyy)
    </ExpirationDateYear>
    <ExpirationDateMonth>
        Prescription expiration date month (MM)
    </ExpirationDateMonth>
    <ExpirationDateDay>
        Prescription expiration date day (dd)
    </ExpirationDateDay>
    <ReleaseDateYear>
        Prescription release date year (yyyy)
    </ReleaseDateYear>

```

```

<ReleaseDateMonth>
    Prescription release date month (MM)
</ReleaseDateMonth>
<ReleaseDateDay>
    Prescription release date day (dd)
</ReleaseDateDay>
<DiscontinuedDateYear>
    Prescription discontinued
    date year (yyyy)
</DiscontinuedDateYear>
<DiscontinuedDateMonth>
    Prescription discontinued date month (MM)
</DiscontinuedDateMonth>
<DiscontinuedDateDay>
    Prescription discontinued date day (dd)
</DiscontinuedDateDay>
<Type>
    Prescription type
</Type>
<Final>
    Prescription final
</Final>
<Usage>
    Prescription usage
</Usage>
<DominantEye>
    Prescription dominant eye
</DominantEye>
<ReplacementSchedule>
    Replacement schedule
</ReplacementSchedule>
<ContactLensCare>
    Contact lens care
</ContactLensCare>
<Notes>
    Prescription notes
</Notes>
<OdSeriesId>
    Series id OD
</OdSeriesId>
<OdProductId>
    Product id OD
</OdProductId>
<OdSphere>
    Sphere OD
</OdSphere>
<OdCylinder>
    Cylinder OD
</OdCylinder>
<OdAxis>
    Axis OD
</OdAxis>
<OdBaseCurve>
    Base curve OD

```

```

</OdBaseCurve>
<OdDiameter>
    Diameter OD
</OdDiameter>
<OdAddPowerName>
    Add power OD
</OdAddPowerName>
<OdColor>
    Color OD
</OdColor>
<OdMultifocal>
    Multifocal OD
</OdMultifocal>
<OsSeriesId>
    Series id OS
</OsSeriesId>
<OsProductId>
    Product id OS
</OsProductId>
<OsSphere>
    Sphere OS
</OsSphere>
<OsCylinder>
    Cylinder OS
</OsCylinder>
<OsAxis>
    Axis OS
</OsAxis>
<OsBaseCurve>
    Base curve OS
</OsBaseCurve>
<OsDiameter>
    Diameter OS
</OsDiameter>
<OsAddPowerName>
    Add power OS
</OsAddPowerName>
<OsColor>
    Color OS
</OsColor>
<OsMultifocal>
    Multifocal OS
</OsMultifocal>
</Prescription>
<Doctor>
    <Npi>
        National provider identifier
    </Npi>
    <EmailAddress>
        Doctor email address
    </EmailAddress>
    <FirstName>
        Doctor first name
    </FirstName>

```

```

<MiddleName>
    Doctor middle name
</MiddleName>
<LastName>
    Doctor last name
</LastName>
<Address>
    <AddressLine1>
        Doctor address line 1
    </AddressLine1>
    <AddressLine2>
        Doctor address line 2
    </AddressLine2>
    <City>
        Doctor city
    </City>
    <State>
        Doctor state
    </State>
    <Zip>
        Doctor ZIP
    </Zip>
    <Telephone>
        Doctor telephone
    </Telephone>
    <Country>
        Doctor's country
    </Country>
</Address>
<Notes>
    Notes for Doctor
</Notes>
</Doctor>
<LineItems>
    <LineItem>
        <LineItemId>
            Line item id
        </LineItemId>
        <CustomerPartId>
            Customer part id
        </CustomerPartId>
        <Eye>
            Eye (OD/OS)
        </Eye>
        <Quantity>
            Quantity
        </Quantity>
        <Comments>
            Comments
        </Comments>
        <SeriesName>
            Series name
        </SeriesName>
        <BaseCurve>
    
```



```

        Base curve
    </BaseCurve>
    <Diameter>
        Diameter
    </Diameter>
    <AddPowerName>
        Add Power
    </AddPowerName>
    <Addition>
        Addition
    </Addition>
    <Axis>
        Axis
    </Axis>
    <Cylinder>
        Cylinder
    </Cylinder>
    <Multifocal>
        Multifocal
    </Multifocal>
    <Color>
        Color
    </Color>
    <Sphere>
        Sphere
    </Sphere>
</LineItem>
</LineItems>
<Shipping>
    <ShipToPatient>
        Ship to patient
    </ShipToPatient>
    <AddresseeLastName>
        Addressee last name
    </AddresseeLastName>
    <AddresseeFirstName>
        Addressee first name
    </AddresseeFirstName>
    <MethodId>
        Shipping method id
    </MethodId>
    <Address>
        <AddressLine1>
            Shipping address line 1
        </AddressLine1>
        <AddressLine2>
            Shipping address line 2
        </AddressLine2>
        <City>
            Shipping city
        </City>
        <State>
            Shipping state
        </State>
    </Address>
</Shipping>

```

```

        <Zip>
            Shipping ZIP
        </Zip>
        <Telephone>
            Shipping telephone
        </Telephone>
        <Country>
            Shipping country
        </Country>
    </Address>
    <Telephone>
        Shipping telephone
    </Telephone>
    <Rate>
        Shipping rate
    </Rate>
    <TaxRate>
        Shipping tax rate
    </TaxRate>
</Shipping>
<PromotionalCodes>
    Promotional codes
</PromotionalCodes>
</PatientOrder>
</PatientOrders>
<StockOrders>
    <StockOrder>
        <StockOrderId>
            Stock order id
        </StockOrderId>
        <LocationId>
            Location id
        </LocationId>
        <Shipping>
            <ShipToPatient>
                false
            </ShipToPatient>
            <AddresseeLastName>
                Addressee last name
            </AddresseeLastName>
            <AddresseeFirstName>
                Addressee first name
            </AddresseeFirstName>
            <MethodId />
            <Address>
                <AddressLine1>
                    Shipping address line 1
                </AddressLine1>
                <AddressLine2>
                    Shipping address line 2
                </AddressLine2>
                <City>
                    Shipping address city
                </City>
            </Address>
        </Shipping>
    </StockOrder>
</StockOrders>

```

```

        <State>
            Shipping address state
        </State>
        <Zip>
            Shipping address ZIP
        </Zip>
        <Telephone>
            Shipping address telephone
        </Telephone>
        <Country>
            Shipping address
        </Country>
    </Address>
    <Rate>
        Shipping rate
    </Rate>
    <TaxRate>
        Shipping tax rate
    </TaxRate>
</Shipping>
<CustomerPartId>
    Customerpart id
</CustomerPartId>
<Eye>
    Eye (OD/OS)
</Eye>
<Quantity>
    Quantity
</Quantity>
<Comments>
    Comments
</Comments>
<SeriesName>
    Series name
</SeriesName>
<BaseCurve>
    Base curve
</BaseCurve>
<Diameter>
    Diameter
</Diameter>
<AddPowerName>
    Add Power
</AddPowerName>
<Addition>
    Addition
</Addition>
<Axis>
    Axis
</Axis>
<Cylinder>
    Cylinder
</Cylinder>
<Multifocal>

```

```

        Multifocal
    </Multifocal>
    <Color>
        Color
    </Color>
    <Sphere>
        Sphere
    </Sphere>
    </StockOrder>
</StockOrders>
</PurchaseOrder>
<Queue>
    Queue purchase order
</Queue>
<Pending>
    Save as pending
</Pending>
</OrderRequest>

```

Nodes explanation:

No.	Node	Level	Purpose	Occurrence	Possible values
1	OrderRequest	1	Root element	1	-
1.1	Version	1	Version of the interface	1	1.00
2	RequestorCredentials	2	Root for the requestor credentials	1	-
3	Email	3	Email of the requestor (username)	1	Valid email address registered in LOD
4	Password	3	Password of the requestor	1	
5	ProviderToken	3	Token identifying the program used by the client (provided by LensOnDemand)	1	
6	PurchaseOrder	2	Root of the purchase order	1	-
7	Number	3	Purchase order number	0..1	Alphanumeric
8	SupplierId	3	Id of the supplier to which the PO will be sent.	1	Guid supplied by LOD
9	PatientOrders	3	Root of the patient orders	0..1	-
10	PatientOrder	4	Root of a patient order	0..n	-
11	OrderId	5	Id of the patient order	1	Alphanumeric
12	LocationId	5	Id of the location in which the order was created	1	This value has to match the field Client Id in the location definition in LensOnDemand.com

13	Patient	5	Root of patient information	0..1	-
14	PatientId	6	Id of the patient	1	Alphanumeric
15	FirstName	6	First name of the patient	1	
16	MiddleName	6	Middle name of the patient	0..1	
17	LastName	6	Last name of the patient	1	
18	BirthdateYear	6	Year of the patient birth date	1	Numeric, four digit year
19	BirthdateMonth	6	Month of the patient birth date	1	1 to 12
20	BirthdateDay	6	Day of the patient birth date	1	1 to 31
21	Address	6	Root of patient's address	0..1	-
22	AddressLine1	7	Patient' address, line 1	1	
23	AddressLine2	7	Patient' address, line 2	0..1	
24	City	7	Patient' address, city	1	
25	State	7	Patient' address, state	1	
26	Zip	7	Patient' address, ZIP	1	
27	Telephone	7	Patient' address, telephone	1	
28	Country	7	Patient' address, country	0..1	
29	EmailAddress	6	Patient's email address	0..1	
30	Gender	6	Patient's gender	0..1	0 = Unspecified 1 = Male 2 = Female
31	LastExamDateYear	6	Patient's last exam date (year)	0..1	Numeric, four digit year
32	LastExamDateMonth	6	Patient's last exam date (month)	0..1	1 to 12
33	LastExamDateDay	6	Patient's last exam date (day)	0..1	1 to 31
34	NextRecallDateYear	6	Patient's next recall date (year)	0..1	Numeric, four digit year
35	NextRecallDateMonth	6	Patient's next recall date (month)	0..1	1 to 12
36	NextRecallDateDay	6	Patient's next recall date (day)	0..1	1 to 31

37	NextAppointmentDateYear	6	Patient's next appointment date (year)	0..1	Numeric, four digit year
38	NextAppointmentDateMonth	6	Patient's next appointment date (month)	0..1	1 to 12
39	NextAppointmentDateDay	6	Patient's next appointment date (day)	0..1	1 to 31
40	MarketingAuthorizationFlag	6	If patient authorized marketing contact.	0..1	0 or "false" = No 1 or "true" = Yes Empty = Undecided
41	MarketingAuthorizationDateYear	6	Marketing authorization (year)	0..1	Numeric, four digit year
42	MarketingAuthorizationDateMonth	6	Marketing authorization (month)	0..1	1 to 12
43	MarketingAuthorizationDateDay	6	Marketing authorization (day)	0..1	1 to 31
44	DiagnosisCode1	6	Diagnosis code 1	0..1	Alphanumeric
45	DiagnosisCode2	6	Diagnosis code 2	0..1	Alphanumeric
46	InsurancePrimary	6	Patient primary insurance	0..1	Alphanumeric
47	Prescription	5	Root of prescription element	0..1	-
48	PrescriptionId	6	Id of the prescription	1	Alphanumeric
49	PrescriptionDateYear		Prescription date (year)	1	Numeric, four digit year
50	PrescriptionDateMonth		Prescription date (month)	1	1 to 12
51	PrescriptionDateDay		Prescription date (day)	1	1 to 31
52	ExpirationDateYear		Prescription expiration date (year)	0..1	Numeric, four digit year
53	ExpirationDateMonth		Prescription expiration date (month)	0..1	1 to 12
54	ExpirationDateDay		Prescription expiration date (day)	0..1	1 to 31
55	ReleaseDateYear		Prescription release date (year)	0..1	Numeric, four digit year
56	ReleaseDateMonth		Prescription release date (month)	0..1	1 to 12
57	ReleaseDateDay		Prescription release date (day)	0..1	1 to 31
58	DiscontinuedDateYear	6	Prescription discontinued date (year)	0..1	Numeric, four digit year

59	DiscontinuedDate Month	6	Prescription discontinued date (month)	0..1	1 to 12
60	DiscontinuedDate Day	6	Prescription discontinued date (day)	0..1	1 to 31
61	Type	6	Prescription type	0..1	Alphanumeric
62	Final	6	Indicates if the prescription is final or a trial	0..1	0 or "false" = No 1 or "true" = Yes
63	Usage	6	Prescription usage	0..1	Alphanumeric
64	DominantEye	6	Dominant eye	0..1	0 or "od" = OD 1 or "os" = OS 2 or "none" = none
65	ReplacementSchedule	6	Lenses replacement schedule	0..1	Alphanumeric
66	ContactLensCare	6	Lenses care instructions	0..1	Alphanumeric
67	Notes	6	Prescription's notes	0..1	Alphanumeric
68	OdSeriesId	6	Series Id for OD	0..1	Existent Guid in LOD
69	OdProductId	6	Product Id for OD	0..1	Existent Guid in LOD
70	OdSphere	6	OD Sphere/power	0..1	Numeric
71	OdCylinder	6	OD Cylinder	0..1	Numeric
72	OdAxis	6	OD Axis	0..1	Numeric
73	OdBaseCurve	6	OD Base curve	0..1	Numeric
74	OdDiameter	6	OD Diameter	0..1	Numeric
75	OdAddPowerName	6	OD Add power	0..1	High, Medium, Low
76	OdColor	6	OD Color	0..1	
77	OdMultifocal	6	OD Multifocal	0..1	Near, Distance
78	OsSeriesId	6	Series Id for OS	0..1	Existent Guid in LOD
79	OsProductId	6	Product Id for OS	0..1	Existent Guid in LOD
80	OsSphere	6	OS Sphere/power	0..1	Numeric
81	OsCylinder	6	OS Cylinder	0..1	Numeric
82	OsAxis	6	OS Axis	0..1	Numeric
83	OsBaseCurve	6	OS Base curve	0..1	Numeric
84	OsDiameter	6	OS Diameter	0..1	Numeric
85	OsAddPowerName	6	OS Add power	0..1	High, Medium, Low

86	OsColor	6	OS Color	0..1	
87	OsMultifocal	6	OS Multifocal	0..1	Near, Distance
88	Doctor	5	Root of doctor information	0..1	-
89	Npi	6	National Provider Identifier	1	
90	EmailAddress	6	Doctor's email address	0..1	
91	FirstName	6	Doctor's first name	1	
92	MiddleName	6	Doctor's middle name	0..1	
93	LastName	6	Doctor's last name	1	
94	Address	6	Root of doctor address	0..1	-
95	AddressLine1	7	Doctor's address line 1	1	
96	AddressLine2	7	Doctor's address line 2	0..1	
97	City	7	Doctor's address city	1	
98	State	7	Doctor's address state	1	
99	Zip	7	Doctor's address ZIP	1	
100	Telephone	7	Doctor's telephone	0..1	
101	Country	7	Doctor's address country	0..1	
102	Notes	6	Doctor's notes	0..1	
103	LineItems	5	Root of order's line items	1	-
104	LineItem	6	Root of order line item	1..n	-
105	LineItemId	7	Line item id	1	Alphanumeric
106	CustomerPartId	7	Customer part id	0..1	Alphanumeric
107	Eye	7	Eye	1	0 or "od" = OD 1 or "os" = OS
108	Quantity	7	Quantity	1	Numeric
109	Comments	7	Comments	0..1	
110	SeriesName	7	Series name existent in LOD catalog	1	
111	BaseCurve	7	Base curve	1	Numeric
112	Diameter	7	Diameter	1	Numeric
113	AddPowerName	7	Add power	0..1	High, Medium, Low
114	Addition	7	Addition	0..1	Numeric
115	Axis	7	Axis	0..1	Numeric
116	Cylinder	7	Cylinder	0..1	Numeric

117	Multifocal		Multifocal	0..1	Distance, near
118	Color	7	Color	1	
119	Sphere	7	Sphere / power	1	Numeric
120	Shipping	5	Root of shipping section	1	-
121	ShipToPatient	6	If order should be shipped to patient, otherwise it will be shipped to the office.	1	True or False
122	AddresseeLastName	6	Addressee last name	1	
123	AddresseeFirstName	6	Addressee first name	1	
124	MethodId	6	Shipping method id	0..1	Guid existent in LOD. Can be empty if a default shipping method was selected in the location in LOD web site.
125	Address	6	Root for shipping address	1	-
126	AddressLine1	7	Shipping address line 1	1	
127	AddressLine2	7	Shipping address line 2	0..1	
128	City	7	Shipping address city	1	
129	State	7	Shipping address state	1	
130	Zip	7	Shipping address ZIP	1	
131	Country	7	Shipping address country	0..1	
132	Telephone	6	Shipping address phone	0..1	
133	Rate	6	Shipping rate	0..1	
134	TaxRate	6	Shipping tax rate	0..1	
135	PromotionalCodes	6	Promotional codes	0..1	
136	StockOrders	3	Root for stock orders	0..1	-
137	StockOrder	4	Root for stock order	1..n	-
138	StockOrderId	5	Stock order id	1	Alphanumeric
139	LocationId	5	Location id	1	Alphanumeric, must match an id of an existent location in LOD
140	Shipping	5	Root for shipping section	1	-
141	AddresseeLastName	6	Addressee last name	1	
142	AddresseeFirstName	6	Addressee first name	1	

143	MethodId	6	Shipping method id	0..1	Guid existent in LOD. Can be empty if a default shipping method was selected in the location in LOD web site.
144	Address	6	Root for shipping address	1	-
145	AddressLine1	7	Shipping address line 1	1	
146	AddressLine2	7	Shipping address line 2	0..1	
147	City	7	Shipping address city	1	
148	State	7	Shipping address state	1	
149	Zip	7	Shipping address ZIP	1	
150	Telephone	7	Shipping address phone	0..1	
151	Country	7	Shipping address country	0..1	
152	Rate	6	Shipping rate	0..1	
153	TaxRate	6	Shipping tax rate	0..1	
154	CustomerPartId	5	Customer part id	0..1	Alphanumeric
155	Eye	5	Eye	1	0 or "od" = OD 1 or "os" = OS
156	Quantity	5	Quantity	1	Numeric
157	Comments	5	Comments	0..1	
158	SeriesName	5	Series name existent in LOD catalog	1	
159	BaseCurve	5	Base curve	1	Numeric
160	Diameter	5	Diameter	1	Numeric
161	AddPowerName	5	Add power	0..1	High, Medium, Low
162	Addition	5	Addition	0..1	Numeric
163	Axis	5	Axis	0..1	Numeric
164	Cylinder	5	Cylinder	0..1	Numeric

165	Multifocal	5	Multifocal	0..1	Near, distance
166	Color	5	Color	1	
167	Sphere	5	Sphere / power	1	Numeric
168	Queue	2	Indicates if the PO should be queued. Queued POs will be submitted as configured in the LOD web site.	1	True or False
169	Pending	2	Save the order as pending to be modified later. Pending orders are not send to suppliers	1	True or False

Response

Structure of the message:

```
<?xml version="1.0" encoding="utf-16"?>
<OrderResponse Version="1.00">
  <GeneralError>true or false</GeneralError>
  <ErrorMessages>
    Error messages
  </ErrorMessages>
  <LodOrders>
    <LodOrderResponse>
      <LodOrderNumber>LOD order number</LodOrderNumber>
      <MergedPatientOrders>
        <MergedPatientOrder>
          Patient order number
        </MergedPatientOrder>
      </MergedPatientOrders>
      <MergedStockOrders>
        <MergedStockOrder>
          Stock order number
        </MergedStockOrder>
      </MergedStockOrders>
    </LodOrderResponse>
  </LodOrders>
</OrderResponse>
```

Nodes explanation:

No.	Node	Level	Purpose	Occurrence	Possible values
1	OrderResponse	1	Root element	1	-
1.1	Version	1	Version of the interface	1	1.00
2	GeneralError	2	Indicates if errors occurred	1	true or false
3	ErrorMessages	2	Root for error messages	1	-
	ErrorMessage	3	Description of the error	0..n	
4	LodOrders	2	Root for orders created from the received PO	1	-
5	LodOrderResponse	3	Root for data about the LOD order	1	-
6	LodOrderNumber	4	The LOD order number created from the received PO	1	Numeric
7	MergedPatientOrders	4	Root for patient orders merged in this LOD order	0..1	-
8	MergedPatientOrder	5	Patient order number	0..n	Alphanumeric
9	MergedStockOrders	4	Root for stock orders merged in this LOD order	0..1	-
10	MergedStockOrder	5	Stock order number	0..n	alphanumeric

Example of successful response

```
<?xml version="1.0" encoding="utf-16"?>
<OrderResponse Version="1.00">
  <GeneralError>false</GeneralError>
  <ErrorMessages />
  <LodOrders>
    <LodOrderResponse>
      <LodOrderNumber>5242</LodOrderNumber>
      <MergedPatientOrders>
        <MergedPatientOrder>20131210_2</MergedPatientOrder>
      </MergedPatientOrders>
      <MergedStockOrders />
    </LodOrderResponse>
  </LodOrders>
</OrderResponse>
```

Example of response with errors

Errors may occur for multiple reasons. These reasons will be described in the ErrorMessage node. Below is a short list of causes for an error:

- Credentials not authorized
- Missing a required value
- Invalid values submitted
- No product found in the product catalog

```
<?xml version="1.0" encoding="utf-16"?>
<OrderResponse Version="1.00">
  <GeneralError>true</GeneralError>
  <ErrorMessages>
    <ErrorMessage>
      Order 20131210_1, line item #1 - There is no product in the catalog
      with the supplied prescription data. Supplier: Supplier Name,
      Series name: Air Optix Aqua Multifocal 6pk, base curve: 8.60,
      diameter: 14.20, add power name: High, addition: 0.00, axis: 0,
      cylinder: 0.00, multifocal: , color: , sphere: 0.25.
    </ErrorMessage>
  </ErrorMessages>
  <LodOrders />
</OrderResponse>
```