

# Supplier Integration – Rest API version 1

## Document version 0.2 (draft)

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The logo for Order Logistics, featuring the words "order logistics" in a dark blue, lowercase, sans-serif font. A small red square is positioned above the dot of the letter 'i' in "order".

order logistics

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# Overview

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## 1. Introduction

The Order Logistics Rest API enable third parties such as suppliers to interface with the Order Logistics platform. This enables inter-system communication with seamless handshaking of user transactions.

Some of the key features include the ability for suppliers to receive orders from customers, to confirm and supply results to these orders.

The key focus at this point is to provide fast turn-around times on orders, in order to improve the experience to customers placing order. The API will evolve later to also include invoices and other usage scenarios.

This document is of a technical nature and the target audience is developers and system integrators that will be familiar with the technical terms.

## 2. General

The interface provided is built on existing mature technologies. The API is a REST “web service” that is an architectural style making use of the HTTP protocol. A multitude of resource exist on the Internet regarding this technology.

One of the main drivers regarding the choice of technology was to ensure that it will be available to most platforms. Nearly all modern day environments have methods to implement the HTTP protocol and therefore this can be utilised. We do also provide libraries for some of the popular environments. Kindly contact Order Logistics to determine if there is an existing library for your development language / environment, should you have the need.

The actual communication uses the Internet as the back bone and the data will be encrypted during transmission by making use of SSL (https). The data is transmitted in JSON notation. The JSON format was selected as it is generally substantially smaller than the XML representation and therefore reduces the bandwidth needs.

Two end-points exist for the API, a development and a production end-point. Order Logistics will load a user profile on the development platform initially during the development phase, and later enable it for production once testing have been completed. It is crucial to make use of the correct end-point consuming the API. These end-points are as follows.

**Development:** <https://test.orderlogistics.co.za/rest/v1/>

**Production:** <https://www.orderlogistics.co.za/rest/v1/>

# Authentication

## 1. User Authentication

### 1.1. POST /auth

#### Description

Allows a user to authenticate its identity. A user token will be returned should the authentication succeed. A user will be loaded for a party that will interface to Order Logistics. It will be preconfigured by the Order Logistics customer support department. The token returned should be provided in future requests by setting the “Auth-Token” header value of HTTP requests. This will be required for all request that requires an authenticated user. The token needs to be acquired with every session as the token is only valid for a limited period of time. It should therefore not be stored for use between sessions.

#### Resource URL

<https://www.orderlogistics.co.za/rest/v1/auth>

#### Parameters (Body)

<b>UserName</b> string / required	The user name of the user to be authenticated.  Example: example@email.com
<b>PassHash</b> string / required	Password hash is a one-way hash utilized to prevent transmission of the password across the communication channel. It consist of a hash generated from the user name and password.  Step 1: Combine the user name (lowercase) and password with a dash as the separator.  Example: example@email.com-myPassword37^  Step 2: Calculate the MD5 hash of the string constructed in step 1 (UTF8).  Example: e7d8a7c4637ef5d9fa0b983b7d028a50
<b>ApplicationName</b> string / required	Identifies the application interfacing with the API.  Example: My Application
<b>CompanyName</b> string / required	Identifies the company interfacing with the API.  Example: My Company

### Example request

POST https://www.orderlogistics.co.za/rest/v1/auth HTTP/1.1  
Content-Type: application/json; charset=utf-8

```
{
  "UserName": "example@email.com",
  "PassHash": "e7d8a7c4637ef5d9fa0b983b7d028a50",
  "ApplicationName": "My Application",
  "CompanyName": "My Company"
}
```

### Example result

"ZGXzKfH4rkEHVuVawfsDyaUdsANp3N0 . . . . . yLCWqZf2rZJNQn1cyaSraMbMwNeEHbs="

## 2. Supplier Authentication

### 2.1. POST /siteauth

#### Description

A user interacting with the API can interact on behalf of a supplier. A supplier needs to be authenticated to ensure that the user can act on behalf of the specified supplier. Site authentication needs to be called after user authentication with the user token present in the request.

A site token will be returned should the authentication succeed. The token returned should be provided in future requests by setting the "Site-Token" header value of HTTP requests. This will be required for all request that relates to a supplier. A site token is only valid for a limited time and needs to be acquired at the start of every session.

#### Resource URL

https://www.orderlogistics.co.za/rest/v1/siteauth

#### Parameters (Body)

<b>SiteNo</b> string / required	The site number of the supplier site to be authenticated.  Example: EXSUPP01
<b>PassHash</b> string / required	Password hash is a one-way hash utilized to prevent transmission of the password across the communication channel. It consist of a hash generated from the site number and password.  Step 1: Combine the site number (lowercase) and password with a dash as the separator.  Example: exsupp01-0123456789abc  Step 2: Calculate the MD5 hash of the string constructed in step 1 (UTF8).  Example: b41a4c2b4fb71561ab765806fa596bbe

### Example request

```
POST https://www.orderlogistics.co.za/rest/v1/siteauth HTTP/1.1
Auth-Token: abc...xyz
Content-Type: application/json; charset=utf-8
```

```
{
  "SiteNo": "EXSUPP01",
  "PassHash": "b41a4c2b4fb71561ab765806fa596bbe"
}
```

### Example result

```
"YFq4Uz7qDaEzJ8nkvpKG70aGwkz6CI . . . . . ZP4AVLopL6S4PdJFGU94Am"
```

## 2.2. GET /suppliers

### Description

The current supplier based on the authenticated supplier can be retrieved from the API. It will return a supplier instance.

### Resource URL

<https://www.orderlogistics.co.za/rest/v1/suppliers>

### Parameters

None

### Example request

```
GET https://www.orderlogistics.co.za/rest/v1/suppliers HTTP/1.1
Auth-Token: abc...xyz
Site-Token: 123...xyz
```

### Example result

```
[{
  "code": "EXSUPP01",
  "name": "EXAMPLE SUPPLIER",
  "id": 12060,
  "url": "https://www.orderlogistics.co.za/rest/v1/suppliers/12060"
}]
```

## 2.3. GET /suppliers/{supplier-id}

### Description

A supplier resource will be returned based on the {supplier-id} of the request. Permissions will be validated to allow access to the supplier resource.

### Resource URL

<https://www.orderlogistics.co.za/rest/v1/suppliers/{supplier-id}>

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### *Parameters*

None

### *Example request*

```
GET https://www.orderlogistics.co.za/rest/v1/suppliers/12060 HTTP/1.1
Auth-Token: abc...xyz
Site-Token: 123...xyz
```

### *Example result*

```
{
  "code": "EXSUPP01",
  "name": "EXAMPLE SUPPLIER",
  "id": 12060,
  "url": "https://www.orderlogistics.co.za/rest/v1/suppliers/12060"
}
```

# Orders API

## 1. Overview

Figure 1 illustrates the complete order process. It outlines the sequence of the API calls to interact with the API. The first few calls handle the authentication aspect which is discussed in the section dealing with authentication.

The pending orders can be retrieved once the authorizations steps have been completed. Orders need to be confirmed once received. Orders are then processed by the supplier and order results submitted to Order Logistics.

The supplier can utilize the API to register for new order notifications which will notify the supplier when new orders arrive at Order Logistics. This removes the need to poll and greatly improve response times to orders since the delay are substantially reduced.

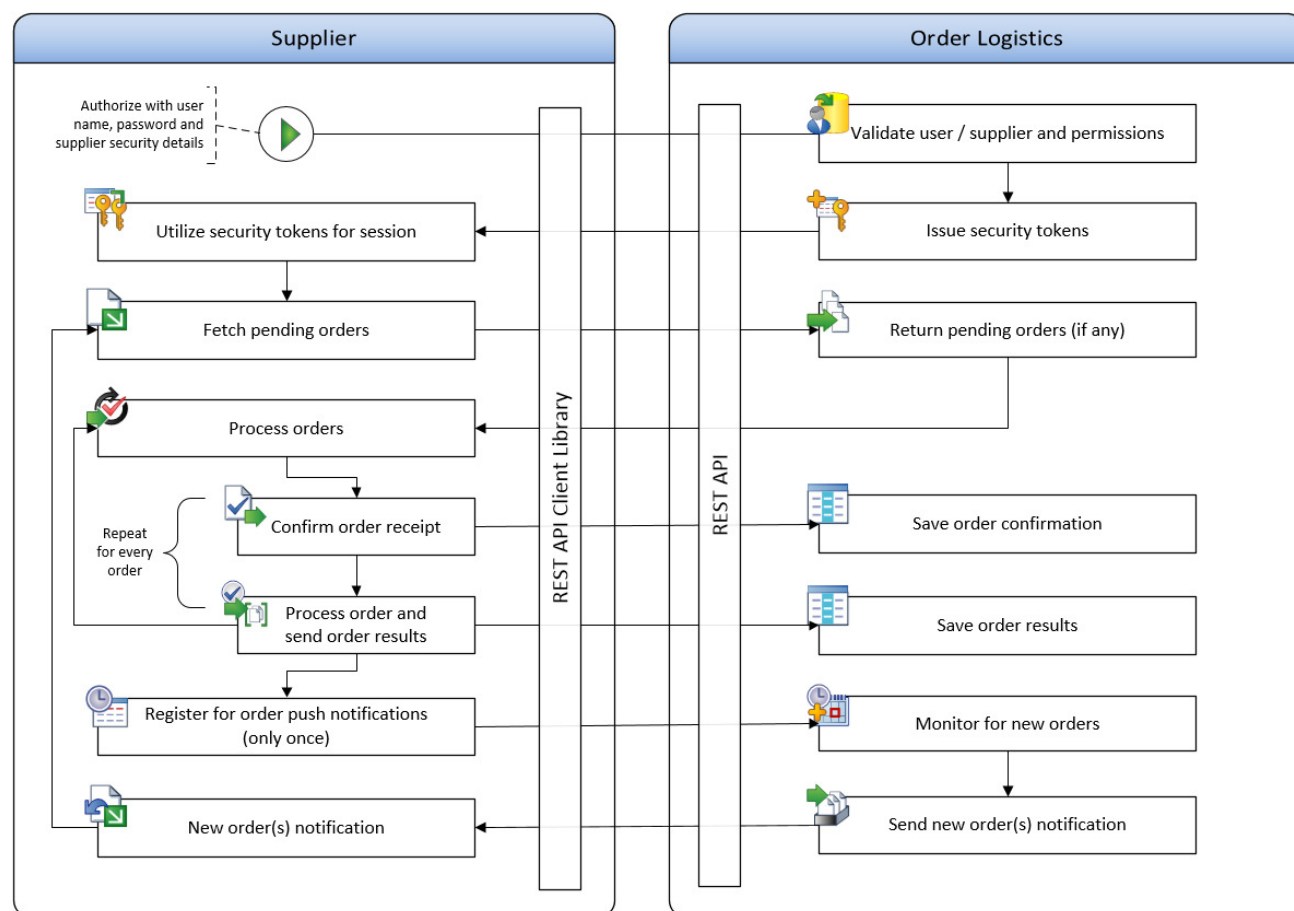


Figure 1: Orders API overview



## 2. Retrieving Orders

### 2.1. GET /suppliers/{supplier-id}/orders

#### Description

Orders will be returned for the supplier indicated by the {supplier-id} indicated. The request will be validated against the authenticated supplier. The maximum number of orders and other parameters can be configured with the request for ease of use. Only open and recent orders will be returned.

#### Resource URL

<https://www.orderlogistics.co.za/rest/v1/suppliers/{supplier-id}/orders>

#### Parameters (Query string)

<b>maxOrders</b> integer / default = 100	Limits the number of orders returned.  Example: 50
<b>notConfirmed</b> boolean / default = true	Sets whether unconfirmed orders will be included in the result set.  Example: true
<b>noResults</b> boolean / default = false	Sets whether orders with outstanding results will be included in the result set.  Example: false
<b>incOrderwise</b> boolean / default = true	Indicates if Orderwise orders should be included in the result set.  Example: true
<b>incRepwise</b> boolean / default = true	Indicates whether Repwise orders should be included in the result set.  Example: true

#### Example request

```
GET https://www.orderlogistics.co.za/rest/v1/suppliers/12060/orders?maxOrders=100&
notConfirmed=True&noResults=False&incOrderwise=True&incRepwise=True HTTP/1.1
Auth-Token: abc...xyz
Site-Token: 123...xyz
```

### Example result

```
[{
  "orderTimestamp": "2014-09-17T13:41:33",
  "orderNo": 10001,
  "customerRef": "0:XYZ",
  "accountNo": "12345",
  "customerName": "MY TEST PHARMACY",
  "note": "",
  "supplier": {
    "code": "EXSUPP01",
    "name": "EXAMPLE SUPPLIER",
    "id": 12060,
    "url": "https://www.orderlogistics.co.za/rest/v1/suppliers/12060"
  },
  "supplierBranch": {
    "code": "01",
    "name": "JOHANNESBURG",
    "systemCode": ""
  },
  "location": null,
  "source": {
    "code": 0,
    "name": "Orderwise"
  },
  "rep": null,
  "items": [{
    "productCode": "6973231",
    "productName": "A.VOGEL ECHINAFORCE 30ML",
    "orderQty": 5,
    "bonusQty": 0,
    "unitPrice": 43.9,
    "requestedDeliveryDate": null,
    "itemType": {
      "code": 0,
      "name": "Normal"
    },
    "consignment": null,
    "patientInfo": null
  },
  {
    "productCode": "6973215",
    "productName": "A-L DICLOFENAC 25MG TABS 500",
    "orderQty": 10,
    "bonusQty": 0,
    "unitPrice": 63.09,
    "requestedDeliveryDate": null,
    "itemType": {
      "code": 0,
      "name": "Normal"
    },
    "consignment": null,
    "patientInfo": null
  }
],
  "confirmation": null,
  "results": null,
}
```

```

      "id": "40660722",
      "url": "https://www.orderlogistics.co.za/rest/v1/orders/40660722"
    }
  ]
}
```

## 2.2. GET /orders/{order-id}

### Description

An order will be returned based on the {order-id} of the request. Permissions will be verified for the supplier / user to allow access to the order. Only open and recent orders are available, older orders will not be found.

### Resource URL

<https://www.orderlogistics.co.za/rest/v1/orders/{order-id}>

### Parameters

None

### Example request

```
GET https://www.orderlogistics.co.za/rest/v1/orders/40660722 HTTP/1.1
Auth-Token: abc...xyz
Site-Token: 123...xyz
```

### Example result

```
{
  "orderTimestamp": "2014-09-17T13:41:33",
  "orderNo": 10001,
  "customerRef": "0:XYZ",
  "accountNo": "12345",
  "customerName": "MY TEST PHARMACY",
  "note": "",
  "supplier": {
    "code": "EXSUPP01",
    "name": "EXAMPLE SUPPLIER",
    "id": 12060,
    "url": "https://www.orderlogistics.co.za/rest/v1/suppliers/12060"
  },
  "supplierBranch": {
    "code": "01",
    "name": "JOHANNESBURG",
    "systemCode": ""
  },
  "location": null,
  "source": {
    "code": 0,
    "name": "Orderwise"
  },
  "rep": null,
  "items": [{
    "productCode": "6973231",
    "productName": "A.VOGEL ECHINAFORCE 30ML",
    "orderQty": 5,
    "bonusQty": 0,
    "unitPrice": 43.9,
```

```

        "requestedDeliveryDate": null,
        "itemType": {
            "code": 0,
            "name": "Normal"
        },
        "consignment": null,
        "patientInfo": null
    },
    {
        "productCode": "6973215",
        "productName": "A-L DICLOFENAC 25MG TABS 500",
        "orderQty": 10,
        "bonusQty": 0,
        "unitPrice": 63.09,
        "requestedDeliveryDate": null,
        "itemType": {
            "code": 0,
            "name": "Normal"
        },
        "consignment": null,
        "patientInfo": null
    }
],
"confirmation": null,
"results": null,
"id": "40660722",
"url": "https://www.orderlogistics.co.za/rest/v1/orders/40660722"
}

```

### 3. Confirm Orders

#### 3.1. POST /orders/{order-id}/confirm

##### Description

An order should be confirmed once received by a supplier. Use this API call to confirm receipt of an order. The supplier order number should also be provided to improve tracking between systems. An order confirmation record is return once the call succeeds.

##### Resource URL

<https://www.orderlogistics.co.za/rest/v1/orders/{order-id}/confirm>

##### Parameters (Body)

<b>SupplierRef</b> string / optional	Supplier's reference number for this order.  Example: 1000000123
---	--

##### Example request

```

POST https://www.orderlogistics.co.za/rest/v1/orders/40660722/confirm HTTP/1.1
Auth-Token: abc...xyz
Site-Token: 123...xyz
Content-Type: application/json; charset=utf-8

```

```
{
  "SupplierRef": "1000000123"
}
```

### Example result

```
{
  "timestamp": "2014-09-17T16:02:39.27625",
  "supplierRef": "1000000123",
  "id": "40660722",
  "url": "https://www.orderlogistics.co.za/rest/v1/orders/40660722/confirm"
}
```

## 3.2. GET /orders/{order-id}/confirm

### Description

An order confirmation record will be returned for the order as per {order-id} if the order has been confirmed.

### Resource URL

<https://www.orderlogistics.co.za/rest/v1/orders/{order-id}/confirm>

### Parameters

None

### Example request

```
GET https://www.orderlogistics.co.za/rest/v1/orders/40660722/confirm HTTP/1.1
Auth-Token: abc...xyz
Site-Token: 123...xyz
```

### Example result

```
{
  "timestamp": "2014-09-17T16:02:39.277",
  "supplierRef": "1000000123",
  "id": "40660722",
  "url": "https://www.orderlogistics.co.za/rest/v1/orders/40660722/confirm"
}
```

## 4. Submit Order Results

### 4.1. POST /orders/{order-id}/results

#### Description

The results of an order needs to be submitted once processed by the supplier. The supplier order number can be supplied at this stage if it was not available in the confirmation step. An order results record is return once the call succeeds.

### Resource URL

<https://www.orderlogistics.co.za/rest/v1/orders/{order-id}/results>

**Parameters (Body)**

<b>SupplierRef</b> string / optional	Supplier's reference number for this order.  Example: 1000000123
<b>Items</b> array / required	Collection of order items
<b>ProductCode</b> (item) string / required	Supplier product code of the item. It should match the product code as supplied on the order.  Example: 6973231
<b>DeliveryQty</b> (item) integer / required	The quantity that will be delivered of this item. It can't exceed the ordered quantity. It should include the back-order quantity if applicable, however the back-order information needs to be present on an order item that is on back-order.  Example: 5
<b>ExpectedDeliveryDate</b> (item) datetime / optional	Expected date to deliver goods.  Example: 2014-09-22T00:00:00
<b>AlternateDeliveryBranchCode</b> (item) string / optional	The branch code should be indicated if the stock will be delivered from a different branch than which was requested at time of order.  Example: 123
<b>InvoiceNo</b> (item) string / optional	Invoice number for this item. It is only utilized for reference. The first invoice number can be used if multiple invoice numbers are applicable to this order item.  Example: INV12345
<b>SupplyReasonCode</b> (item) string / required	A reason needs to be supplied for the delivery success or failure. The available supply reasons are discussed in a following section.  Example: OK
<b>BackOrder</b> (item) object / optional	The back-order section needs to be completed if an item is placed on back-order.
<b>BackOrderQty</b> (back-order) integer / required	The quantity placed on back-order.  Example: 2
<b>ExpectedDeliveryDate</b> (back-order)	Expected delivery date of items placed on back-order.

datetime / required

Example: 2014-09-29T00:00:00

### Example request

POST https://www.orderlogistics.co.za/rest/v1/orders/40660722/results HTTP/1.1

Auth-Token: abc...xyz

Site-Token: 123...xyz

Content-Type: application/json; charset=utf-8

```
{
  "SupplierRef": "1000000123",
  "Items": [{
    "ProductCode": "6973231",
    "DeliverQty": 5,
    "ExpectedDeliveryDate": "2014-09-22T00:00:00",
    "AlternateDeliveryBranchCode": "",
    "InvoiceNo": "INV12345",
    "SupplyReasonCode": "OK$",
    "BackOrder": {
      "BackOrderQty": 2,
      "ExpectedDeliveryDate": "2014-09-29T00:00:00"
    }
  },
  {
    "ProductCode": "6973215",
    "DeliverQty": 10,
    "ExpectedDeliveryDate": "2014-09-22T00:00:00",
    "AlternateDeliveryBranchCode": "",
    "InvoiceNo": "INV12345",
    "SupplyReasonCode": "OK",
    "BackOrder": null
  }
]
```

### Example result

```
{
  "timestamp": "2014-09-17T16:39:02.22",
  "supplierRef": "1000000123",
  "items": [{
    "productCode": "6973231",
    "deliverQty": 5,
    "expectedDeliveryDate": "2014-09-22T00:00:00",
    "invoiceNo": "INV12345",
    "supplyReason": {
      "code": "OK$",
      "name": "SUPPLIED/BACKORDER",
      "id": 47,
      "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/47"
    },
    "backOrder": {
      "backOrderQty": 2,
      "expectedDeliveryDate": "2014-09-29T00:00:00"
    }
  },
  {
    "productCode": "6973215",
    "deliverQty": 10,
    "expectedDeliveryDate": "2014-09-22T00:00:00",
    "invoiceNo": "INV12345",
    "supplyReason": {
      "code": "OK",
      "name": "SUPPLIED",
      "id": 48,
      "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/48"
    },
    "backOrder": null
  }
]
```

```
        "alternateDeliveryBranch": null
    },
    {
        "productCode": "6973215",
        "deliverQty": 10,
        "expectedDeliveryDate": "2014-09-22T00:00:00",
        "invoiceNo": "INV12345",
        "supplyReason": {
            "code": "OK",
            "name": "OK",
            "id": 16,
            "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/16"
        },
        "backOrder": null,
        "alternateDeliveryBranch": null
    }
],
"id": "40660722",
"url": "https://www.orderlogistics.co.za/rest/v1/orders/40660722/results"
}
```

### 4.2. GET /orders/{order-id}/results

#### Description

An order results record will be returned for the order as per {order-id} if the order has results.

#### Resource URL

<https://www.orderlogistics.co.za/rest/v1/orders/{order-id}/results>

#### Parameters

None

#### Example request

```
GET https://www.orderlogistics.co.za/rest/v1/orders/40660722/results HTTP/1.1
Auth-Token: abc...xyz
Site-Token: 123...xyz
```

#### Example result

```
{
    "timestamp": "2014-09-17T16:39:02.22",
    "supplierRef": "1000000123",
    "items": [{
        "productCode": "6973231",
        "deliverQty": 5,
        "expectedDeliveryDate": "2014-09-22T00:00:00",
        "invoiceNo": "INV12345",
        "supplyReason": {
            "code": "OK$",
            "name": "SUPPLIED/BACKORDER",
            "id": 47,
            "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/47"
        },
        "backOrder": {
            "backOrderQty": 2,

```



```
        "expectedDeliveryDate": "2014-09-29T00:00:00"
      },
      "alternateDeliveryBranch": null
    },
    {
      "productCode": "6973215",
      "deliverQty": 10,
      "expectedDeliveryDate": "2014-09-22T00:00:00",
      "invoiceNo": "INV12345",
      "supplyReason": {
        "code": "OK",
        "name": "OK",
        "id": 16,
        "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/16"
      },
      "backOrder": null,
      "alternateDeliveryBranch": null
    }
  ],
  "id": "40660722",
  "url": "https://www.orderlogistics.co.za/rest/v1/orders/40660722/results"
}
```

### 4.3. GET /supplyreasons

#### Description

A list of available supply reasons will be returned. These supply reasons can be utilized when submitting order results.

#### Resource URL

<https://www.orderlogistics.co.za/rest/v1/supplyreasons>

#### Parameters

None

#### Example request

```
GET https://www.orderlogistics.co.za/rest/v1/supplyreasons HTTP/1.1
Auth-Token: abc...xyz
Site-Token: 123...xyz
```

#### Example result

```
[{
  "code": "T",
  "name": "TEMPORARY OUT OF STOCK",
  "id": 1,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/1"
},
{
  "code": "D",
  "name": "DUPLICATE PRODUCT",
  "id": 4,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/4"
}]
```

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```
{
  "code": "R",
  "name": "REGULATIONS RESTRICT SALE",
  "id": 5,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/5"
},
{
  "code": "X",
  "name": "ACCOUNT PROBLEM",
  "id": 6,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/6"
},
{
  "code": "J",
  "name": "CANCELLED ON REQUEST",
  "id": 9,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/9"
},
{
  "code": "B",
  "name": "DISCONTINUED BY MANUFACTURER",
  "id": 10,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/10"
},
{
  "code": "I",
  "name": "INVALID PRODUCT CODE",
  "id": 12,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/12"
},
{
  "code": "OK",
  "name": "OK",
  "id": 16,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/16"
},
{
  "code": "OK*",
  "name": "DIVERTED TO ALTERNATIVE BRANCH",
  "id": 22,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/22"
},
{
  "code": "L",
  "name": "PARTIAL DELIVERY",
  "id": 27,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/27"
},
{
  "code": "OK#",
  "name": "BACK ORDER",
  "id": 34,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/34"
},
{
  "code": "MV",
```

```
    "name": "MIN. DELIVERY VALUE NOT REACHED",
    "id": 44,
    "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/44"
  },
  {
    "code": "OK$",
    "name": "SUPPLIED/BACKORDER",
    "id": 47,
    "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/47"
  },
  {
    "code": "OK%",
    "name": "DELAYED DELIVERY",
    "id": 48,
    "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/48"
  },
  {
    "code": "M0",
    "name": "MINIMUM ORDER VALUE NOT REACHED",
    "id": 51,
    "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/51"
  },
  {
    "code": "BC",
    "name": "BROKEN CASE NOT ALLOWED",
    "id": 55,
    "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/55"
  }
]
```

### 4.4. GET /supplyreasons/{supplyreason-id}

#### Description

A supply reason will be returned based on the {supplyreason-id} value.

#### Resource URL

<https://www.orderlogistics.co.za/rest/v1/supplyreasons/{supplyreason-id}>

#### Parameters

None

#### Example request

```
GET https://www.orderlogistics.co.za/rest/v1/supplyreasons/1 HTTP/1.1
Auth-Token: abc...xyz
Site-Token: 123...xyz
```

#### Example result

```
{
  "code": "T",
  "name": "TEMPORARY OUT OF STOCK",
  "id": 1,
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/1"
}
```

## 5. Register for Order Notifications

[To be finalized]

# API Objects

## 1. Suppliers

### 1.1. Supplier

#### Description

Supplier objects describe a supplier that interfaces and process orders via the API.

#### Properties

<b>id</b> integer / required	Unique identifier for the supplier.  Example: 12060
<b>url</b> string / required	Uniform resource locator to this supplier.  Example: <a href="https://www.orderlogistics.co.za/rest/v1/suppliers/12060">https://www.orderlogistics.co.za/rest/v1/suppliers/12060</a>
<b>code</b> string / required	Unique supplier code assigned by Order Logistics.  Example: EXSUPP01
<b>name</b> string / required	Name of supplier as per Order Logistics.  Example: EXAMPLE SUPPLIER

#### Example

```
{
  "code": "EXSUPP01",
  "name": "EXAMPLE SUPPLIER",
  "id": 12060,
  "url": "https://www.orderlogistics.co.za/rest/v1/suppliers/12060"
}
```

### 1.2. Supplier Branch

#### Description

A supplier branch object represent a branch that can receive orders at a supplier.

#### Properties

<b>code</b> string / required	Unique supplier branch code assigned by Order Logistics.  Example: 01
<b>name</b> string / required	Name of supplier branch as per Order Logistics.

	Example: JOHANNESBURG
<b>systemCode</b> string / optional	Optional system code value that can be allocated to the supplier branch. Typically this value will match the supplier's code for the branch, it could assist with mapping of codes between the integration parties.  Example: 123

### Example

```
{
  "code": "01",
  "name": "JOHANNESBURG",
  "systemCode": ""
}
```

## 2. Orders

### 2.1. Order

#### Description

Order object describe the order placed to a supplier from a customer.

#### Properties

<b>id</b> integer / required	Unique identifier for the order.  Example: 40660722
<b>url</b> string / required	Uniform resource locator to this order.  Example: <a href="https://www.orderlogistics.co.za/rest/v1/orders/40660722">https://www.orderlogistics.co.za/rest/v1/orders/40660722</a>
<b>orderTimestamp</b> datetime / required	Timestamp when order was created.  Example: 2014-09-17T13:41:33
<b>orderNo</b> integer / required	Order number according to procurement system used.  Example: 10001
<b>customerRef</b> string / optional	Customer internal order number if available.  Example: 0:XYZ
<b>accountNo</b> string / required	Account number of customer at supplier.  Example: 12345

<b>note</b> string / optional	Order note if supplied.  Example: As per quote 12345
<b>supplier</b> object / required	Supplier object of this order.
<b>supplierBranch</b> object / required	Supplier branch object for this order.
<b>location</b> object / optional	Location information if applicable.
<b>source</b> object / required	Indicates the source of the order.
<b>rep</b> object / optional	Rep information if applicable.
<b>items</b> array / required	Array of items on this order.
<b>confirmation</b> object / optional	Order confirmation information if available.
<b>results</b> object / optional	Order results id available.

### Example

```
{
  "orderTimestamp": "2014-09-17T13:41:33",
  "orderNo": 10001,
  "customerRef": "0:XYZ",
  "accountNo": "12345",
  "customerName": "MY TEST PHARMACY",
  "note": "",
  "supplier": {
    "code": "EXSUPP01",
    "name": "EXAMPLE SUPPLIER",
    "id": 12060,
    "url": "https://www.orderlogistics.co.za/rest/v1/suppliers/12060"
  },
  "supplierBranch": {
    "code": "01",
    "name": "JOHANNESBURG",
    "systemCode": ""
  },
  "location": null,
  "source": {
    "code": 0,
    "name": "Orderwise"
  },
  "rep": null,
  "items": [{
    "productCode": "6973231",
```

```

        "productName": "A.VOGEL ECHINAFORCE 30ML",
        "orderQty": 5,
        "bonusQty": 0,
        "unitPrice": 43.9,
        "requestedDeliveryDate": null,
        "itemType": {
            "code": 0,
            "name": "Normal"
        },
        "consignment": null,
        "patientInfo": null
    },
    {
        "productCode": "6973215",
        "productName": "A-L DICLOFENAC 25MG TABS 500",
        "orderQty": 10,
        "bonusQty": 0,
        "unitPrice": 63.09,
        "requestedDeliveryDate": null,
        "itemType": {
            "code": 0,
            "name": "Normal"
        },
        "consignment": null,
        "patientInfo": null
    }
],
"confirmation": null,
"results": null,
"id": "40660722",
"url": "https://www.orderlogistics.co.za/rest/v1/orders/40660722"
}

```

## 2.2. Order Item

### Description

An order item exists for each item on an order that was placed. It represents a product with its order related information.

### Properties

<b>productCode</b> string / required	Product code at supplier.  Example: 6973231
<b>productName</b> string / required	Product name or description.  Example: A.VOGEL ECHINAFORCE 30ML
<b>orderQty</b> integer / required	Number of units ordered as per product code supplied.  Example: 5



<b>bonusQty</b> integer / required	Number of free goods.  Example: 0
<b>unitPrice</b> float / required	Unit price VAT exclusive.  Example: 43.91
<b>requestedDeliveryDate</b> datetime / optional	Optional requested delivery date from customer.  Example: 2014-09-29T00:00:00
<b>itemType</b> object / required	Indicates the type of order item.
<b>consignment</b> object / optional	Consignment information if available.
<b>patientInfo</b> object / optional	Patient information if applicable.

### Example

```
{
  "productCode": "6973231",
  "productName": "A.VOGEL ECHINAFORCE 30ML",
  "orderQty": 5,
  "bonusQty": 0,
  "unitPrice": 43.91,
  "requestedDeliveryDate": null,
  "itemType": {
    "code": 0,
    "name": "Normal"
  },
  "consignment": null,
  "patientInfo": null
}
```

## 2.3. Order Source

### Description

An indicator is available to indicate the source of the order. Currently two possible values exist. Orderwise (0) and Repwise (1).

### Properties

<b>code</b> integer / required	Code of order source.  Example: 0
<b>name</b> string / required	Name of order source.

Example: Orderwise
--------------------

**Example**

```
{
  "code": 0,
  "name": "Orderwise"
}
```

## 2.4. Location

**Description**

Some suppliers make use of unique account numbers per delivery location while others do not. The location information is optional and are provided as an indication for the location of the delivery. In most cases the unique account number will suffice and the location is simply provided as additional information (when available).

**Properties**

<b>code</b> string / required	Code allocated to the location. This code usually represent the customer's code for the location.  Example: TH01
<b>name</b> string / required	Name of delivery location as per Order Logistics.  Example: THEATRE 1

**Example**

```
{
  "code": "TH01",
  "name": "THEATRE 1"
}
```

## 2.5. Order Item Type

**Description**

An indicator is available on order items to indicate the type. Currently three possible values exist. Normal (0), Consignment (1) and Loan Stock (2).

**Properties**

<b>code</b> integer / required	Code to indicate order item type.  Example: 0
<b>name</b> string / required	Name of order item type.  Example: Normal

### Example

```
{
  "code": 0,
  "name": "Normal"
}
```

## 2.6. Rep

### Description

Rep objects provides rep information for rep orders.

### Properties

<b>code</b> string / required	Code for rep as per Repwise.  Example: ABC0001
<b>name</b> string / required	Name of rep as per Repwise.  Example: JOHN DOE

### Example

```
{
  "code": "ABC0001",
  "name": "JOHN DOE"
}
```

## 2.7. Order Item Back Order

### Description

Order item back order object defines the back order information for an order item with a back-order component.

### Properties

<b>backOrderQty</b> integer / required	Number of units placed on back-order.  Example: 2
<b>expectedDeliveryDate</b> string / required	Expected delivery date for items on back-order.  Example: 2014-09-29T00:00:00

### Example

```
{
  "backOrderQty": 2,
  "expectedDeliveryDate": "2014-09-29T00:00:00"
}
```

## 2.8. Order Item Consignment

### Description

Order item consignment object provides consignment information for consignment order items.

### Properties

<b>lotNo</b> string / optional	Lot number of the consignment goods.  Example: 1234567890-XYZ
<b>deliveryNoteNo</b> string / optional	Document number or delivery note number when consignment goods were delivered.  Example: 100123

### Example

```
{
  "lotNo": "1234567890-XYZ",
  "deliveryNoteNo": "100123"
}
```

## 2.9. Order Item Patient Info

### Description

Order item patient information provides patient related information for patient specific orders.

### Properties

<b>patientNo</b> string / optional	Patient number if applicable.  Example: 1234567890
<b>patient</b> string / optional	Patient name if applicable.  Example: JOHN DOE
<b>medicalAid</b> string / optional	Medical aid of patient if applicable.  Example: MY MEDICAL SCHEME
<b>physician</b> string / optional	Physician name of procedure if applicable.  Example: DR JOHN DOE
<b>medicalProcedure</b> string / optional	Medical procedure if applicable.  Example: TONSILLECTOMY

<b>procedureDate</b> datetime / optional	Date of procedure if applicable.  Example: 2014-09-29T00:00:00
---	--

#### Example

```
{
  "patientNo": "1234567890",
  "patient": "JOHN DOE",
  "medicalAid": "MY MEDICAL SCHEME",
  "physician": "DR JOHN DOE",
  "medicalProcedure": "TONSILLECTOMY",
  "procedureDate": "2014-09-29T00:00:00"
}
```

## 2.10. Order Confirmation

### Description

Order confirmation object provides information on the supplier's confirmation on receiving the order.

### Properties

<b>id</b> integer / required	Unique identifier for the order.  Example: 40660722
<b>url</b> string / required	Uniform resource locator to this order confirmation.  Example: <a href="https://www.orderlogistics.co.za/rest/v1/orders/40660722/confirm">https://www.orderlogistics.co.za/rest/v1/orders/40660722/confirm</a>
<b>timestamp</b> datetime / required	Timestamp when the order was confirmed.  Example: 2014-09-17T16:02:39.277
<b>supplierRef</b> string / optional	Internal order number at supplier if provided.  Example: 1000000123

#### Example

```
{
  "timestamp": "2014-09-17T16:02:39.277",
  "supplierRef": "1000000123",
  "id": "40660722",
  "url": "https://www.orderlogistics.co.za/rest/v1/orders/40660722/confirm"
}
```

## 2.11. Order Results

### Description

Order results describe the response from the supplier for an order. It contains the delivery information for each item.

### Properties

<b>id</b> integer / required	Unique identifier for the order.  Example: 40660722
<b>url</b> string / required	Uniform resource locator to this order results.  Example: <a href="https://www.orderlogistics.co.za/rest/v1/orders/40660722/results">https://www.orderlogistics.co.za/rest/v1/orders/40660722/results</a>
<b>timestamp</b> datetime / required	Timestamp when the order results were submitted.  Example: 2014-09-17T16:39:02.22
<b>supplierRef</b> string / optional	Internal order number at supplier if provided.  Example: 1000000123
<b>items</b> array / required	Collection of order result items objects.

### Example

```
{
  "timestamp": "2014-09-17T16:39:02.22",
  "supplierRef": "1000000123",
  "items": [{
    "productCode": "6973231",
    "deliverQty": 5,
    "expectedDeliveryDate": "2014-09-22T00:00:00",
    "invoiceNo": "INV12345",
    "supplyReason": {
      "code": "OK$",
      "name": "SUPPLIED/BACKORDER",
      "id": 47,
      "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/47"
    },
    "backOrder": {
      "backOrderQty": 2,
      "expectedDeliveryDate": "2014-09-29T00:00:00"
    },
    "alternateDeliveryBranch": null
  }],
  {
    "productCode": "6973215",
    "deliverQty": 10,
```

```

    "expectedDeliveryDate": "2014-09-22T00:00:00",
    "invoiceNo": "INV12345",
    "supplyReason": {
      "code": "OK",
      "name": "OK",
      "id": 16,
      "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/16"
    },
    "backOrder": null,
    "alternateDeliveryBranch": null
  }],
  "id": "40660722",
  "url": "https://www.orderlogistics.co.za/rest/v1/orders/40660722/results"
}

```

## 2.12. Order Result Item

### Description

The items on an order result object are provided as a collection of order result items. Each record provides the information related to the delivery of the specific item.

### Properties

<b>productCode</b> string / required	Supplier product code of the item.  Example: 6973231
<b>deliveryQty</b> integer / required	The quantity that will be delivered of this item. It includes the back-order quantity if applicable, however the back-order property will provide information on the back-order.  Example: 5
<b>expectedDeliveryDate</b> datetime / optional	Expected delivery date of goods.  Example: 2014-09-22T00:00:00
<b>invoiceNo</b> string / optional	Invoice number for this item if available. An item may be delivered across multiple invoices, this reference might only refer to the first invoice number.  Example: INV12345
<b>supplyReason</b> object / required	A supply reason object that express the reason for the delivery success or failure.
<b>backOrder</b> object / optional	The back-order object that contains back-order information if an item is placed on back-order.
<b>alternateDeliveryBranch</b> object / optional	A supplier branch object will be provided if the delivery was

	redirected to an alternate supplier branch.
--	---

### Example

```
{
  "productCode": "6973231",
  "deliverQty": 5,
  "expectedDeliveryDate": "2014-09-22T00:00:00",
  "invoiceNo": "INV12345",
  "supplyReason": {
    "code": "OK$",
    "name": "SUPPLIED/BACKORDER",
    "id": 47,
    "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/47"
  },
  "backOrder": {
    "backOrderQty": 2,
    "expectedDeliveryDate": "2014-09-29T00:00:00"
  },
  "alternateDeliveryBranch": null
}
```

## 2.13. Supply Reason

### Description

A supply reason provides information on the success or failure reason for an order item.

### Properties

<b>id</b> integer / required	Unique identifier for the supply reason.  Example: 1
<b>url</b> string / required	Uniform resource locator to this supplier.  Example: https://www.orderlogistics.co.za/rest/v1/supplyreasons/1
<b>code</b> string / required	Code assigned to this supply reason by Order Logistics.  Example: T
<b>name</b> string / required	Name of the supply reason as per Order Logistics.  Example: TEMPORARY OUT OF STOCK



### *Example*

```
{  
  "code": "T",  
  "name": "TEMPORARY OUT OF STOCK",  
  "id": 1,  
  "url": "https://www.orderlogistics.co.za/rest/v1/supplyreasons/1"  
}
```