2025/08/12 22:31 1/9 19.09. mSupply REST API

# 19.09. mSupply REST API

#### What is it?

mSupply has a REST API that enables certain actions to be carried out externally, by external applications for example. This API allows you to:

- Send an order (response requisition) to mSupply
- Retrieve customer invoices that have been confirmed but not shipped
- Mark a customer invoice as shipped so that it doesn't come in the guery for shipped orders

Response requisitions will be processed in mSupply as normal in the supplying store, and can be fulfilled by generating and processing one or more customer invoices, depending on stock availability.

### **Basic usage**

- Communication is over the HTTP protocol. HTTPS is supported and you should use it to keep your passwords and other information secure. If you want to restrict to only HTTPS, then block the HTTP port mSupply is using on your router.
- All data is submitted and returned as ISON.
- You must always login first. This will return a JWT token that you use in further requests to authenticate each request.

The details of the requests you can make and what information you need to send with each request are in the section below.

### **Authentication**

Logins (user name and password) are set up per store as contacts of store names. This uses exactly the same mechanism as customer web ordering. See the 19.03. mSupply customer web interface page for details.

#### **API** definition

See the Examples section below for payload details for each request.

All below URLs should be prefixed with `api/v4`:

URL	HTTP Verb	Description
-----	--------------	-------------

URL	HTTP Verb	Description
/login	POST	Login with username and password setup in mSupply. Returns a JWT cookie to be used in following requests. Include the loginType = "invoice" element in the request body.
/stock	GET	Returns an array of stock details for all items in the customer's master list(s).  * Quantities are specified in number of packs and pack size.  * Separate lines for each different batch, expiry date or pack size.
/stock?code=xxx&name=yyy	GET	Returns an array of stock details for all visible items, optionally restricted to those starting with the specified code/name.  * Quantities are specified in number of packs and pack size.  * Separate lines for each different batch, expiry date or pack size.
/customerOrder	POST	Create a new customer order with the supplied array of order lines. Returns the ID of the order created.  * The customer and supplier's details are derived from the log-in details i.e. the customer will be the store the logged in user is a contact of and the supplier will be the supplying store of that store.  * An order (serial) number will be automatically assigned by mSupply (unique per store).  * Item codes must match the codes (the mSupply item code or the catalogue code) of items already existing in mSupply.  * Quantities are specified in number of packs and pack size.  * Customer orders are created as response (customer) requisitions in mSupply. These are then processed manually in the supplying store to generate one or more customer invoices to fulfil the order (see the 8.07. Stock control methods for your customers (requisitions) page for details).  * Customer invoice numbers will also be automatically assigned by mSupply (unique per store).  * Generated customer invoices will be linked back to the original customer order via the order number.  * Customer invoices are confirmed when the
		stock has been picked and packed for shipment.  * Comments can be entered for the order and also for individual lines.

https://docs.msupply.org.nz/

2025/08/12 22:31 3/9 19.09. mSupply REST API

URL	HTTP Verb	Description
/customerInvoice	GET	Returns an array of customer invoices which have been confirmed but not yet received or cancelled.  * Invoices are linked to the original order via the order number.  * Quantities are specified in number of packs and pack size.  * Prices are per-pack and a line total, with an invoice total which includes any extras (e.g. shipping).
/customerInvoice/{invoice number}	GET	Returns a particular customer invoice.  * Invoices are linked to the original order via the order number.  * Quantities are specified in number of packs and pack size.  * Prices are per-pack and a line total, with an invoice total which includes any extras (e.g. shipping).
/customerInvoiceReceived/{invoice number}	PATCH	Set the specificed customer invoice's received date to the date specified (in ISO format).

## **Examples**

```
HTTP
URL
                                               Response
                                       Verb
                                               Request:
                                                    "username": "Admin",
                                                    "password": "Admin",
"loginType": "invoice"
                                               // success (HTTP status 200)
                                                    "status": "success",
                                                    "authenticated": true,
                                                    "username": "Admin",
                                                    "userFirstName": "Minnie",
"userLastName": "Streator",
"userJobTitle": "Boss",
                                       POST
api/v4/login
                                                    "userType": "contact",
"service": "invoice",
                                                    "storeName": "General Warehouse"
                                               // failure (HTTP status 400)
                                                    "status": "error",
                                                    "error": "Username/password/login type missing"
                                                // failure (HTTP status 401)
                                                    "status": "error",
                                                    "error": "Failed to authenticate/No store found for
                                               user"
```

URL	HTTP Verb	Response
api/v4/stock	GET	Response: // success (HTTP status 200) [

https://docs.msupply.org.nz/
Printed on 2025/08/12 22:31

2025/08/12 22:31 5/9 19.09. mSupply REST API

```
HTTP
URL
                                           Response
                                    Verb
                                           Request:
                                           {
                                               "orderReference": "VS2345",
                                               "comment": "Test order",
                                               "lines":[
                                                    {
                                                        "itemCode": "ABC012",
                                                        "itemName": "Amoxycillin 250mg tab",
                                                        "packSize": 100,
"quantity": 3, // in packs
"comment": "something about this line"
                                                    },
                                                        "itemCode": "CYZ456",
                                                        "itemName": "Paracetamol 500mg tab",
                                                        "packSize": 100,
                                                        "quantity": 5, // in packs
"comment": ""
                                                   },
                                               1
                                           Response:
                                           // success (HTTP status 200)
                                               "status": "success",
                                               "numberOfRecordsUpdated": 1,
                                               "orderNumber": 23425
                                           // failure (HTTP status 404)
                                               "status": "error",
                                               "error": "Item code not found"
api/v4/customerOrder
                                   POST
                                           // failure (HTTP status 409)
                                           {
                                               "status": "error",
                                               "error": "Duplicate line for item"
                                           // failure (HTTP status 403)
                                               "status": "error",
                                               "error": "Order already exists"
                                           // failure (HTTP status 403)
                                               "status": "error",
                                               "error": "Item is not available to order"
                                           // failure (HTTP status 403)
                                               "status": "error",
                                               "error": "Invalid pack size/quantity"
                                           // failure (HTTP status 400)
                                               "status": "error",
                                               "error": "Order reference/order lines/item
                                           code/item name/quantity missing"
                                           // failure (HTTP status 401)
                                               "status": "error",
                                               "error": "JWT token/user ID/store ID not found"
                                           The customer order (response requisition) will be created in the logged
                                           in customer's supplying store, set to confirmed with the current date,
                                           and the new (automatically assigned) customer order number returned
```

URL	HTTP Verb	Response
api/v4/customerOrder/23425	GET	Response: // success (HTTP status 200) {     "ID": "UID23425",     "confirmedDate": "2020-12-27T17:51:00.000Z",     "orderNumber": 23425,     "orderReference": "VS2345",     "comment": "Test order",     "storeName": "General Warehouse",     "lines":[

https://docs.msupply.org.nz/
Printed on 2025/08/12 22:31

2025/08/12 22:31 7/9 19.09. mSupply REST API

URL	HTTP Verb	Response
api/v4/customerInvoice	GET	Response:  // success (HTTP status 200) [  {         "ID": "UID8567546AS",         "invoiceNumber": 8567546,         "confirmedDate": "2020-12-29T12:45:00.0002",         "receivedDate": "",         "cancelledDate": "", // blank unless the invoice has been manually cancelled after it has been confirmed         "invoiceReference": "REF222",         "comment": "From order reference V52345",         "orderNumber": 23425, // original order number (can have multiple invoices from a single order)         "storeName": "General Warehouse",         "invoiceTotal": 135.55, // sum of all lines plus any extras e.g. shipping         "lines": [

```
HTTP
URL
                                        Response
                                  Verb
                                        Request:
                                         {
                                             "receivedDate": "2020-12-31T09:23:00.000Z"
                                        Response:
                                        // success (HTTP status 200)
                                             "status": "success",
                                             "numberOfRecordsUpdated": 1
                                         // failure (HTTP status 404)
                                             "status": "error",
                                             "error": "Invoice not found"
                                        // failure (HTTP status 409)
                                             "status": "error",
                                             "error": "More than one invoice found"
                                         // failure (HTTP status 503)
                                             "status": "error",
                                             "error": "Unable to update invoice"
                                         // failure (HTTP status 503)
api/v4/customerInvoiceReceived/8567546 PATCH
                                             "status": "error",
                                             "error": "receivedDate is invalid"
                                         // failure (HTTP status 403)
                                             "status": "error",
                                             "error": "Invoice is not yet ready for dispatch"
                                         // failure (HTTP status 403)
                                             "status": "error",
                                             "error": "Invoice has been already been
                                         received/cancelled"
                                        // failure (HTTP status 400)
                                             "status": "error",
                                             "error": "Invoice number/received date missing"
                                         // failure (HTTP status 401)
                                         {
                                             "status": "error",
                                             "error": "JWT token/user ID/store ID not found"
                                        Updates the received date for the specified customer invoice → it will no
                                        longer appear in the GET response above
```

https://docs.msupply.org.nz/ Printed on 2025/08/12 22:31

2025/08/12 22:31 9/9 19.09. mSupply REST API

URL	HTTP Verb	Response
api/v4/customerInvoice/8567546	GET	Response: // success (HTTP status 200) {     "ID": "UID8567546AS",     "invoiceNumber": 8567546,     "confirmedDate": "2020-12-29T12:45:00.000Z",     "receivedDate": "2020-12-31T09:23:00.000Z",     "cancelledDate": "", // blank unless the invoice has been manually cancelled after it has been confirmed

Previous: 19.08. Stock web app | Next: 19.10. mSupply legacy REST APIs

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