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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 JSON.
- 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.



All requests relate to transactions, stock and orders **only** in the store that the user used to authenticate with is a contact of

API definition

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

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

	2024/02/12 11 07	
Last undate:	2024/02/13 11:07	

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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

URL	HTTP Verb	Response
api/v4/login	POST	Request: { "username": "Admin", "password": "Admin", "loginType": "invoice" } Response: // success (HTTP status 200) { "status": "success", "authenticated": true, "username": "Admin", "userFirstName": "Minnie", "userLastName": "Streator", "userJobTitle": "Boss", "userJype": "contact", "sservice": "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) [

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```
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":[

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

```
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
```

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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

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