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 query 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.

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
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/login POST mŠupply. Return following requess "invoice" elen Returns an array the customer's n * Quantities are : pack size. /stock GET Returns an array the customer's n * Quantities are : pack size. /stock?code=xxx&name=yyy GET Returns an array items, optionally the specified coc * Quantities are : pack size. /stock?code=xxx&name=yyy GET Returns an array items, optionally the specified coc * Quantities are : pack size. /stock?code=xxx&name=yyy GET Create a new cus array of order linc created. /stock?code=xxx&name=yyy GET * Create a new cus array of order linc created. /stock?code=xxx&name=yyy GET * Create a new cus array of order linc created. /stock?code=xxx&name=yyy GET * Create a new cus array of order linc created. /stock?code=xxx&name=yyy GET * Create a new cus array of order linc created. /stock?code=xxx&name=yyy F * The customer a from the log-ind the store the log the supplier will store. /customerOrder POST * Customer order (seria assigned by mSL * Item codes mu item code or the already existing * Quantities are : pack size. /customerOrder POST * Customer order (seria assigned by mSL * Customer invoi automatically as store). /customerInvoi automatically as store). * Generated custi back to the origin nu	
/stock /stock /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy GET * Quantities are spack size. * Separate lines date or pack size. * Create a new cus array of order lines reated. * The customer a from the log-in d the store the log the supplier will store. * An order (seria assigned by mSL * ltem codes mu item code or the already existing * Quantities are spack size. * Customer order (customer) requi then processed r to generate one fulfil the order (s methods for you for details). * Customer invoi automatically as store). * Generated cust back to the origin number.	name and password setup in ns a JWT cookie to be used in sts. Include the loginType = ment in the request body.
/stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xxx&name=yyy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yy /stock?code=xx&name=yx /stock?code=xx&name=yx /stock?code=xx&name=yy /stock?code=xx&name=yx /stock?code=xx&name=yx /stock?code=xx&name=yx /stock?code=xx&name=yx /stock?code=xx&name=yx /stock?code=xx&name=yx /stock?code=xx&name=yx /stock?code=xx&name=yx /stock?code=xx&name=yx /stock?code=xx&name=yx&name=yx /stock?code=xx&name=yx /stock?code=xx&name=yx&name /stock?code=xx&name=yx&name=yx&name /stock?code=xx&name=yx&name=yx&name /stock?code=xx&name=yx&name /stock?code=xx&name=yx&name /stock?code=xx&name=yx&name /stock?code=xx&name=yx&name /stock?code=xx&name=yx&name /stock?code=xx&name /stock?code=xx&name=yx&name /stock?code=xx&name /stock?code=xx&name /stock?code=xx&name /stock?code=xx&name /stock?code=xx&name /stock?code=xx&name	specified in number of packs and for each different batch, expiry
AcustomerOrder POST array of order lincreated. * The customer a from the log-in d the store the log the supplier will store. * An order (seria assigned by mSu * Item codes mu item code or the already existing * Quantities are a pack size. * Customer orde (customer) requi then processed r to generate one fulfil the order (s methods for you for details). * Customer invoi automatically as store). * Generated cust back to the origin number.	specified in number of packs and for each different batch, expiry
* Comments can also for individua	especified in number of packs and ers are created as response uisitions in mSupply. These are manually in the supplying store e or more customer invoices to see the 8.07. Stock control ur customers (requisitions) page bice numbers will also be ssigned by mSupply (unique per stomer invoices will be linked inal customer order via the order bices are confirmed when the picked and packed for shipment. n be entered for the order and

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	<pre>Request: { "username": "Admin", "password": "Admin", "loginType": "invoice" } Response: // success (HTTP status 200) { "status": "success", "authenticated": true, "username": "Admin", "userFirstName": "Minnie", "userLastName": "Streator", "userJobTitle": "Boss", "userJobTitle": "Boss", "userType": "contact", "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" }</pre>

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

URL	HTTP Verb	Response
api/v4/customerOrder	POST	<pre>Request: { "orderReference": "VS2345", "'comment": "Test order", "lines":[{ "itemCode": "ABC012", "packSize": 100, "quantity": 3, // in packs "comment": "something about this line" }, { "itemCode": "CY2456", "itemMame": "Paracetamol 500mg tab", "packSize": 100, "guantity": 5, // in packs "comment": "" }, "uantity": 5, // in packs "comment": "" }, "guantity": 5, // in packs "comment": "" }, "uantity": 5, // in packs "comment": "" }, "uantity": 5, // in packs "comment": "" }, "guantity": 5, // in packs "comment": "" }, "guantity": 5, // in packs "comment": "" }, "guantity": 5, // in packs "comment": "" }, "status": "success", "numberOfRecordSubdated": 1, "orderNumber": 23425 } // failure (HTTP status 400) { "status": "error", "error": "Uuplicate line for item" }, fatuse: "error", "error": "Ouplicate line for item" }, // failure (HTTP status 409) { "status": "error", "error": "Order already exists" } // failure (HTTP status 403) { "status": "error", "error": "Invalid pack size/quantity" } // failure (HTTP status 403) { "status": "error", "error": "Invalid pack size/quantity" } // failure (HTTP status 400) { "status": "error", "error": "Invalid pack size/quantity" } // 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 order (response requisition) will be created in the current date, and the new (automatically assigned) customer order number retured.</pre>

mSupply documentation wiki - https://docs.msupply.org.nz/

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

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

URL	HTTP Verb	Response
api/v4/customerInvoiceReceived/8567546	PATCH	<pre>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) { "status": "error", "error": "Invoice is not yet ready for dispatch" } // 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" } </pre>

URL	HTTP Verb	Response
api/v4/customerInvoice/8567546	GET	<pre>Response: // success (HTTP status 200) { "ID": "UID8567546AS", "invoiceNumber": 8567546, "confirmedDate": "2020-12-29T12:45:00.0002", "cancelledDate": "2020-12-31T09:23:00.0002", "cancelledDate": "2020-12-31T09:23:00.0002", "cancelledDate": "2020-12-31T09:23:00.0002", "cancelledDate": "2020-12-3T109:23:00.0002", "comment": "From order reference V52345", "orderNumber": 23425, // original order number "storeName": "General Warehouse", "invoiceTotal": 135.55, // sum of all lines plus any extras e.g. shipping "lines": [</pre>

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

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