

Infusion Public API Version 1

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Accessing the Public API

The Infusion Public API is a REST API that gives external applications access to data in Infusion Online.

API endpoints will vary on the supported parameters, required parameters, HTTP method required, whether a request body is expected, what content is expected and what the response can be expected. See the sections below for details.

API location (URL)

The URL for all the endpoints is:

```
https://<hostname>/api/ext/v1/<endpoint>?[<query parameters>&]  
licenseeUuid=<licenseeUuid>&sessionUuid=<sessionUuid>
```

For Production users, the hostname is:

```
app.infusionbusinesssoftware.com
```

Authentication and Authorisation

Only External API Users have access to the API, and only with active session credentials. You can create different API users with different levels of access depending on the needs of your integration.

Creating an External API User

- Go to Settings -> Users in the Infusion Web Application
- Click “Add”.
- Select “External API User” for the User Type.
- Provide a user name.
- Grant Roles for the application features this user should have access to.
- Click “Save”

Creating a Session for an External API User:

- Go to Settings -> Users in the Infusion Web Application
- Select the External API User
- Select, in the “...” menu, “Create external API session”

Creating an API session will cancel the previously active session for this user, if there was one. This can be useful to revoke access from someone with whom you’ve shared access credentials.

Creating an API session will display the two credential components that must be supplied with all API requests – the Licensee UUID and Session UUID.

1. Click “Copy to clipboard” will copy the two credential values needed for all API requests.
2. Do not share these credentials with anyone unless they require access as this External API User.

These credentials will not be redisplayed. If they are lost, create a new session.

Example credentials:

- `licenseeUuid=64a6ed10-a942-4f8c-2450-1d885aec611c`
- `sessionUuid=8f5221a5-085d-4f7e-b0f3-53ce4486b5ed`

The **licenseeUuid** and **sessionUuid** should always be provided as URL ‘query parameters’.

Example query:

```
https://infusion/api/ext/v1/products/search?licenseeUuid=923f8fe0-4ce4-49d8-9403-d39f8eac005d&sessionUuid=8f5221a5-085d-4f7e-b0f3-53ce4486b5ed
```

CORS restrictions:

API Requests should not contain Origin or Referrer headers. Requests that include these headers are subject to Cross-Origin Resource-Sharing policies not intended for external parties.

Making API requests from JavaScript within a web-browser is not supported (since the browser will always inject origin information). Pages making these requests would have to expose the licensee/session credentials to clients.

OpenAPI Online Documentation:

The Infusion Server provides a simple client inspect the Public API endpoints:

```
https://app.infusionbusinesssoftware.com/api/swagger-ui/index.html
```

Note: This client is a general tool that also lists internal APIs for use by the Infusion application. **Use of internal APIs is unsupported** and are subject to incompatible change without notice. If the Public API does not provide a feature you require, please place a request with your Infusion Partner or with Infusion Support.

API Patterns and Concepts

Unique Identifiers

Most API requests require specifying the identity of one or more entities.

1. These are globally unique – no two entities, even of different types, will have the same identity.
2. These cannot change for the life-time of the entity.

The Licensee UUID used to access the API is an example of one of these ids.

E.G.

`923f8fe0-4ce4-49d8-9403-d39f8eac005d`

Because these identities never change, it is safe to copy them and reuse them in future requests – however keep in mind that some entities can be deleted.

Entities and References

An ‘entity’ is a detailed record such Customer (see Customer Details). A ‘reference’ is a smaller record containing only the identifying and descriptive fields, such as Customer Reference.

References are used inside entities. Eg A Customer Invoice (entity) will contain a Customer Reference, providing limited details about the Customer to whom the invoice belongs.

To get more details use the appropriate ‘get’ endpoint with the identity (UUID) contained in the reference. That is, to get all of the details for a Customer, use the ‘Get Customer’ endpoint with the UUID in the Customer Reference.

Searching

Several endpoints provide the ability to execute a search.

Each of these endpoints:

- Returns a ‘page’ of matching results for the type of data specific to that endpoint.
- Take parameters for page-size and offset into the results for paging.
- Take parameters to control the search order.
- Take a ‘q’ parameter which will perform a text-match against all searchable fields of that data-type.
- Can have complex matching rules by specifying the exact value to match in a given field.

The following query parameters are available on all searches:

Parameter	Details
desc	To order in descending order. Default false Example: desc=true

limit	The maximum number of results. Default 100 Example: limit=50
offset	The starting offset in the result set. Can be used for pagination. Default 0 Example: offset=50
order	The field to order by Example: order=productCode
q	A search string which will search for matches in any of the searchable fields. Example: q=Bedroom%20Furniture
where	Additional conditions. You can include multiple where parameters in the format: <field>%3D<value>. Example: where=activationStatus%3DACTIVE

All search endpoints return a Page of results where each search result holds a single element of the entity being searched.

Validation rules when submitting new or updated data

The Public API uses the same contracts for adding new data (via a POST) and updating data (via a PUT) as it does when retrieving data (via a GET). However adding data and updating data can have differing validation rules for which fields are required and what the valid values are.

The details for a data-type will specify which fields are required or optional.

Rule	Description
Required	This property must be provided for the given action
Optional	The value in this property will be used if provided but isn't required.
Ignored	The value in this property will be ignored because the service looks it up or calculates it.
Not permitted	The API will reject the request if these properties are provided. For example, the identity (a UUID) <i>must</i> be provided for a PUT but <i>must not</i> be provided for a POST because the API will generate a new one and return it in the response body. The createdTimestamp and modifiedTimestamp are always generated and should not be provided.

Customers

Endpoint - Find a Customer:

GET	customers/search
Body	<i>Not Allowed</i>
Response	Page of Search Results containing Customers

Returns a page of Customer records matching the search terms. All standard search parameters are supported.

Endpoint - Get a Customer:

GET	customers/{customerUuid}
Body	<i>Not Allowed</i>
Response	Customer

Customers are retrieved using the unique identifier of the customer, not the customer account# or customer name.

Customer Invoices

Endpoint - Get a Customer Invoice:

GET	customers/{customerUuid}/invoices/{customerInvoiceUuid}
Body	<i>Not Allowed</i>
Response	Customer Invoice

Retrieving a Customer Invoice requires knowing the Customer and Customer Invoice identities.

Endpoint - Add a Customer Invoice:

POST	customers/{customerUuid}/invoices
Body	Customer Invoice (required, without a UUID)
Response	Customer Invoice (contains the UUID of the new invoice)

Adding a Customer Invoice requires knowing the Customer identity and supplying Customer Invoice details for the new invoice. This creates an 'Unposted' Customer Invoice.

Endpoint - Update a Customer Invoice:

PUT	customers/{customerUuid}/invoices/{customerInvoiceUuid}
Body	Customer Invoice (required, containing the same invoice UUID)
Response	<i>Empty</i>

Updating a Customer Invoice requires knowing the Customer and Customer Invoice identities. Only an 'Unposted' Customer Invoice can be updated.

Customer Invoices and Invoice Line Adding/Updating Policies

Some fields have constraints on whether or not a field can have a value supplied, and whether or not a supplied value will be honoured, when Adding or Updating a Customer Invoice. Fields with unspecified policies or other requirements are optional.

Customer Invoice Field-Policies:

Field	Adding	Updating	Other
<i>Uuid</i>	<i>Not Permitted</i>	<i>Required</i>	
<i>createdTimestamp</i>	<i>Ignored</i>	<i>Ignored</i>	
<i>modifiedTimestamp</i>	<i>Ignored</i>	<i>Ignored</i>	
<i>deletedTimestamp</i>	<i>Ignored</i>	<i>Ignored</i>	
number	Optional	Optional	Auto-generated if omitted
date	Required	Required	
title	Ignored	Ignored	
customer	Required	Required	UUID required. Other values are ignored

customerContact	Optional	Optional	UUID required. Other values are ignored
chargedCustomer	Optional	Optional	UUID required. Other values are ignored
deliveryMethod	Optional	Optional	UUID required. Other values are ignored
deliveryInstructions	Optional	Optional	
deliveryStatus	Optional	Optional	UUID required. Other values are ignored
location	Required	Required	UUID required. Other values are ignored
soldByStaff	Required	Required	UUID required. Other values are ignored
dueDate	Optional	Optional	Must be on or after Invoice Date
gstAmount	Ignored	Ignored	
gstExclusiveAmount	Ignored	Ignored	
gstExclusiveAmount	Ignored	Ignored	
totalAmount	Ignored	Ignored	
status	Ignored	Ignored	Will be stored as UNPOSTED
holdStatus	Ignored	Ignored	Will be stored as NOT_ON_HOLD

Customer Invoice Line Field-Policies:

Field	Adding	Updating	Other
Uuid	Not Permitted	Required	
createdTimestamp	Ignored	Ignored	
modifiedTimestamp	Ignored	Ignored	
deletedTimestamp	Ignored	Ignored	
lineType	Required	Required	
glAccount	*	*	* Required for Line Type GL_ACCOUNT * Optional for Line Type PRODUCT * Not Permitted for other Line Types UUID required. Other values are ignored
product	*	*	* Required for Line Type PRODUCT * Not Permitted for other Line Types UUID required. Other values are ignored
description	*	*	* Not Permitted for Line Type Separator * Optional for other Line Types
gstRate	*	*	* Option for Line Types PRODUCT or GL_ACCOUNT * Not Permitted for other Line Types UUID required. Other values are ignored
unitRateGstInclusiveAmount	Optional	Optional	Cannot be less than zero
unitRateGstExclusiveAmount	Optional	Optional	Cannot be less than zero
discountPercent	*	*	* Optional for Line Types PRODUCT GL_ACCOUNT 'Allow Discounts' setting must be enabled Maximum 100.0
quantity	*	*	* Required for Line Types PRODUCT or GL_ACCOUNT Cannot be zero for GL_ACCOUNT
totalAmount	Ignored	Ignored	

gstAmount	Ignored	Ignored	
gstExclusiveAmount	Ignored	Ignored	
productSerialNumbers	Ignored	Ignored	Not filled via the API in this version

Endpoint – Check Customer Invoice Approval:

POST	customers/{customerUuid}/invoices/{customerInvoiceUuid}/checkApproval
Body	<i>Not Allowed</i>
Response	List of Approval Rejections

Check if a Customer Invoice is ready to be ‘posted’.

A list of reasons why the invoice is *unready* is returned. If this list is empty then it is expected that a request to post the invoice will succeed.

Note: If the system state changes in a way meaningful to this invoice, an invoice that had previously reported as ready-to-post can become unready. This endpoint should be used as a precursor to attempting to post.

Eg In an online-sales scenario

1. The external site’s user adds items to a shopping cart and selects Checkout
2. The external system creates an unposted invoice, via the Infusion API, matching the cart.
3. The external system checks if the invoice is ready to post.
4. If it is not ready the external system can attempt to make it ready (depending on the reason it is unready) or delete the invoice and stop the sale.
5. If the invoice was ready to post then the sale proceeds
6. The external system presents payment options to the user and accepts payment (if the user cancels or fails payment the external system can abort the invoicing, deleting the invoice).
7. The external system requests that the invoice be posted.
If the time between steps (4) and (6), checking readiness and posting, results in the invoice no longer being postable, an resolution process will need to begin for reversing payment on a sale that cannot be serviced (by Infusion).

Endpoint – Post Customer Invoice:

POST	customers/{customerUuid}/invoices/{customerInvoiceUuid}/post
Body	Not Allowed
Response	Customer Invoice.

If Checking Approval would have reported reasons why the invoice is unready to post then this endpoint will fail, reporting the same reasons.

After this point the invoice is posted. To cancel an invoice a credit-note must be created in Infusion and used to ‘pay’ the invoice. This is done via the Infusion client, not the Public API.

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Financials

Endpoint - Find a GL Account:

GET	glAccounts/search
Body	<i>Not Allowed</i>
Response	Page of Search Results containing GL Accounts

Returns a page of GL Account records matching the search terms. All standard search parameters are supported.

Endpoint - List GST Rates:

GET	financials/gstRates
Body	<i>Not Allowed</i>
Response	List of GST Rates

Returns a complete list of GST Rate records.

Products

Endpoint: Find a Product:

GET	products/search
Body	<i>Not Allowed</i>
Response	Page of Search Results containing Products

Returns a page of Product records matching the search terms. All standard search parameters are supported.

Endpoint - Get a Product:

GET	products/{productUuid}
Body	<i>Not Allowed</i>
Response	Product

Products are retrieved using the unique identifier of the customer, not the Product Code or Product Description.

Endpoint: Make a Product Price Request:

POST	products/{productUuid}/priceRequest
Body	<i>Not Allowed</i>
Response	Product Price Response

Make a Product Price Request for the given Product and Customer. If specified, Quantity may be used to provide volume pricing. Returns a Product Price Response contract.

Endpoint: List Product Locations:

GET	products/locations?includeInactive={boolean}
Body	<i>Not Allowed</i>
Response	List of Product Locations

Retrieve a list of Product Locations, optionally including INACTIVE locations.

Offline Synchronisation

Changes to data can be retrieved to keep a copy of this data externally.\

The types that can be synchronised in this fashion are:

- Products
- Customers
- Customer Invoices

Data retrieved for these types is delivered in the same form as if their usual 'GET' API endpoint were used.

When a page of changes is retrieved, the 'cursor' in the changes list moved forward automatically, with subsequent requests for changes returning a new page each time. To be notified when there are changes to retrieve, register a Webhook for that type.

Retrieving Changes

Get new changes for Customers (since Sync Cursor position):

POST	customers/sync?limit={page-size}
Body	<i>Not Allowed</i>
Response	Page of Customers

Get a Page of Customers changed since the current Customer Sync Cursor. This will automatically advance the cursor.

Get new changes for Customer Invoices (since Sync Cursor position):

POST	customers/invoices/sync?limit={page-size}
Body	<i>Not Allowed</i>
Response	Page of Customer Invoices

Get a Page of Customer Invoices changed since the current Customer Invoice Sync Cursor. This will automatically advance the cursor.

Get new changes for Products (since Sync Cursor position):

POST	products/sync?limit={page-size}
Body	<i>Not Allowed</i>
Response	Page of Products

Get a Page of Products changed since the current Product Sync Cursor. This will automatically advance the cursor.

Moving or examining the Sync Cursor

Get Sync Cursor:

GET	{syncNoun}/sync/cursor
Body	<i>Not Allowed</i>
Response	Sync Cursor

Get the current Sync Cursor for the given Synchronisable Noun.

Update Sync Cursor:

POST	{syncNoun}/sync/cursor?timestamp={timestamp}
Body	<i>Not Allowed</i>
Response	Sync Cursor

Set the current Sync Cursor for the given Synchronisable Noun, to the specified timestamp. If the specified timestamp is too far into the past, the resulting Sync Cursor contract will indicate the new cursor position.

Registering for Change Notification (Webhooks)

Get a Webhook:

GET	{syncNoun}/webhook
Body	<i>Not Allowed</i>
Response	Webhook

Retrieve the Webhook for this Synchronisable Noun.

Add a Webhook:

POST	{syncNoun}/webhook
Body	Webhook (required, without a UUID)
Response	Webhook (contains the UUID of the new Webhook)

Add a Webhook for this Synchronisable Noun.

Update a Webhook:

PUT	{syncNoun}/webhook
Body	Webhook (required, containing the same Webhook UUID)
Response	Webhook

Update the Webhook for this Synchronisable Noun. If the URL is changed, the Webhook statistics will be cleared.

Delete a Webhook:

DELETE	{syncNoun}/webhook
Body	<i>Not Allowed</i>
Response	<i>Empty</i>

Delete the Webhook for this Synchronisable Noun.

Test a Webhook:

POST	{syncNoun}/webhook/test
Body	<i>Not Allowed</i>
Response	Webhook

Test the Webhook for this Synchronisable Noun. The webhook is fired as if it were 'triggered' by changes. The returned Webhook contract contains statistics which indicate success or failure.

Appendix 1: General Contracts

Common Entity Fields

Many have the following common fields:

Parameter	Details
Uuid	The unique and unchanging identity of <i>this</i> entity. Required: When updating the entity. Rejected: If supplied when adding an entity.
createdTimestamp	When this entity was created. Rejected: If supplied when updating or adding an entity.
modifiedTimestamp	When this entity was last modified. Rejected: If supplied when updating or adding an entity.
deletedTimestamp	When this entity was deleted. Empty unless deleted. Rejected: If supplied when updating or adding an entity. <i>Note: You'll usually only see a response with this field set, via the synchronisation endpoints.</i>

Contracts

Contract: Address

Field	Type	Details
line1	Text	
line2	Text	
line3	Text	
cityTown	Text	
postcode	Text	
countryCode	CountryCode	A text value from a controlled list. e.g. AU, NZ, US
countryName	Text	Ignored when creating an address, this is filled in automatically

Contract: Customer

Field	Type	Details
<i>uuid</i>	<i>UUID</i>	<i>Identity (unique, see Common Entity Fields)</i>
<i>createdTimestamp</i>	<i>Timestamp</i>	<i>Creation Timestamp (see Common Entity Fields)</i>
<i>modifiedTimestamp</i>	<i>Timestamp</i>	<i>Last Modified Timestamp (see Common Entity Fields)</i>
<i>deletedTimestamp</i>	<i>Timestamp</i>	<i>Deleted Timestamp (see Common Entity Fields)</i>
activationStatus	Enum	Text. Whether the Customer is ACTIVE or INACTIVE
accountNumber	Integer	Unique account Number
organisation	Boolean	Individual (false) or an Organisation (true)
Title	UuidName	Title (eg Mr, Ms, Mrs, Dr)
givenName	Text	Part of an individual Customer name

lastName	Text	Part of an individual Customer name
organisationName	Text	Part of an organisation Customer
tradingAs	Text	Part of a Customer name
deliveryMethod	UuidName	Preferred Delivery Method
email	Text	
website	Text	
phone	Text	
altPhone	Text	
mobile	Text	
fax	Text	
voip	Text	
gstNumber	Text	
marketingType	UuidName	
customerType	UuidName	
industryType	UuidName	
customerGroup	UuidName	
salesRep	UuidName	
manager	UuidName	
customerRegion	UuidName	
notes	Text	
postalAddress	Address	
deliveryAddress	Address	
defaultLocation	UuidName	
creditStatus	Enum	Text. Either CREDIT_STOPPED or null
balanceAmount	Currency	Text. A fixed-precision number
unallocatedAmount	Currency	Text. A fixed-precision number
customFields	Object	A JSON object. See Custom Fields Appendix for details

Contract: Customer Reference

Parameter	Type	Details
uuid	UUID	Customer Identity (unique)
accountNumber	int	Customer Account Number (unique)
name	Text	Display name for the Customer

Contract : Customer Invoice

Field	Type	Details
uuid	UUID	Identity (unique, see Common Entity Fields)
createdTimestamp	Timestamp	Creation Timestamp (see Common Entity Fields)

<i>modifiedTimestamp</i>	<i>Timestamp</i>	<i>Last Modified Timestamp (see Common Entity Fields)</i>
<i>deletedTimestamp</i>	<i>Timestamp</i>	<i>Deleted Timestamp (see Common Entity Fields)</i>
number	Text	Invoice Number
date	Date	
title	Text	
customer	Customer Reference	
invoicedName	Text	
customerContact	UuidName	
email	Text	
phone	Text	
mobile	Text	
fax	Text	
chargedCustomer	Customer Reference	
billingAddress	Address	
deliveryName	Text	
deliveryAddress	Address	
deliveryMethod	UuidName	
deliveryDateTime	DateTime	
deliveryInstructions	Text	
deliveryStatus	UuidName	
orderNumber	Text	
reference	Text	
location	UuidName	
soldByStaff	UuidName	
dueDate	Date	
freightGstInclusiveAmount	Currency	Text. A fixed-precision number
freightGstExclusiveAmount	Currency	Text. A fixed-precision number
roundingAmount	Currency	Text. A fixed-precision number
gstAmount	Currency	Text. A fixed-precision number
gstExclusiveAmount	Currency	Text. A fixed-precision number
gstExclusiveAmount	Currency	Text. A fixed-precision number
totalAmount	Currency	Text. A fixed-precision number
status	Enum	Text. Whether the invoice is POSTED or UNPOSTED
holdStatus	Enum	Text. Whether the invoice is ON_HOLD or NOT_ON_HOLD
lines	Customer Invoice Line	A list of zero or more invoice lines.

Contract : Customer Invoice Line

Field	Type	Details
<i>uuid</i>	<i>UUID</i>	<i>Identity (unique, see Common Entity Fields)</i>

<i>createdTimestamp</i>	<i>Timestamp</i>	<i>Creation Timestamp (see Common Entity Fields)</i>
<i>modifiedTimestamp</i>	<i>Timestamp</i>	<i>Last Modified Timestamp (see Common Entity Fields)</i>
<i>deletedTimestamp</i>	<i>Timestamp</i>	<i>Deleted Timestamp (see Common Entity Fields)</i>
<i>lineType</i>	Enum	Text. One of TITLE, NOTE, SEPARATOR, GL_ACCOUNT or PRODUCT
<i>glAccount</i>	GL Account Reference	
<i>product</i>	Product Reference	
<i>description</i>	Text	
<i>gstRate</i>	UuidName	
<i>unitRateGstInclusiveAmount</i>	Currency	Text. A fixed-precision number
<i>unitRateGstExclusiveAmount</i>	Currency	Text. A fixed-precision number
<i>discountPercentage</i>	Decimal	Text. A fixed-precision number. 100 mean 100%, 0.5 means 0.5%
<i>quantity</i>	Decimal	Text. A fixed-precision number
<i>totalAmount</i>	Currency	Text. A fixed-precision number
<i>gstAmount</i>	Currency	Text. A fixed-precision number
<i>gstExclusiveAmount</i>	Currency	Text. A fixed-precision number
<i>productSerialNumbers</i>	Serial Number Reference	A list of zero or more serial numbers.

Contract: GL Account

Field	Type	Details
<i>uuid</i>	<i>UUID</i>	<i>Identity (unique, see Common Entity Fields)</i>
<i>createdTimestamp</i>	<i>Timestamp</i>	<i>Creation Timestamp (see Common Entity Fields)</i>
<i>modifiedTimestamp</i>	<i>Timestamp</i>	<i>Last Modified Timestamp (see Common Entity Fields)</i>
<i>deletedTimestamp</i>	<i>Timestamp</i>	<i>Deleted Timestamp (see Common Entity Fields)</i>
<i>code</i>	Text	GL Account Code (unique)
<i>name</i>	Text	GL Account Name (unique)

function	Enum	Text. One of: - CURRENT_ASSET_TRANSACTION - CURRENT_ASSET_YEAR_END - CURRENT_LIABILITY_TRANSACTION - CURRENT_LIABILITY_YEAR_END - EQUITY_CURRENT_EARNINGS - EQUITY_RETAINED_EARNINGS - EQUITY_TRANSACTION - EQUITY_YEAR_END - EXPENSE_OPENING_INVENTORY - EXPENSE_TRANSACTION - FIXED_ASSET_TRANSACTION - FIXED_ASSET_YEAR_END - INCOME_CLOSING_INVENTORY - INCOME_TRANSACTION - INTANGIBLE_ASSET_TRANSACTION - INTANGIBLE_ASSET_YEAR_END - TERM_LIABILITY_TRANSACTION - TERM_LIABILITY_YEAR_END
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Contract: GL Account Reference

Parameter	Type	Details
uuid	UUID	GL Account Identity (unique)
code	Text	GL Account Code (unique)
name	Text	Display name for the GL Account

Contract: GST Rate

Parameter	Type	Details
uuid	UUID	GST Rate Identity (unique)
Name	Text	Display name for the GST Rate
type	Enum	Text. Available values vary by Country. - STANDARD (NZ, AU) - EXEMPT (NZ, AU) - ZERO_RATED (NZ, AU) - CUSTOMS (NZ, AU) - INPUT_TAXED (AU) - CAPITAL (AU) - EXEMPT_NON_PRINTING (AU) - ALTERNATE (all countries)
percentage	Decimal	The GST rate. Text. A fixed-precision number. 100 mean 100%, 0.5 means 0.5%
inclusiveSelectable	Boolean	False for types in which the user should be forced to enter an inclusive or exclusive value due to the percentage being 0% or 100%

Contract: Product

Parameter	Type	Details
uuid	UUID	Identity (unique, see Common Entity Fields)
createdTimestamp	Timestamp	Creation Timestamp (see Common Entity Fields)
modifiedTimestamp	Timestamp	Last Modified Timestamp (see Common Entity Fields)
deletedTimestamp	Timestamp	Deleted Timestamp (see Common Entity Fields)

productCode	Text	
description	Text	
primaryBarcode	Text	
productType	UuidName	
productGroup	UuidName	
productSubGroup	UuidName	
supercededByProductUuid	UUID	
salesUnit	Text	
length	Decimal	Text. A fixed-precision number
width	Decimal	Text. A fixed-precision number
height	Decimal	Text. A fixed-precision number
volume	Decimal	Text. A fixed-precision number
weight	Decimal	Text. A fixed-precision number
activationStatus	Enum	Text. ACTIVE or INACTIVE
stopAllSales	Boolean	When true, the product cannot be invoiced
productCategory	Enum	Text. PRODUCT, KITSET or VARIABLE_PRODUCT
serialNumberTracking	Enum	Text. NONE, SALES_ONLY or SALES_AND_PURCHASES
allowMultipleQuantities	Boolean	Ignore unless Serial Number Tracking is not NONE
showExpiryDate	Boolean	Ignore unless Serial Number Tracking is not NONE
salesGstRate	GST Rate	
productPriceLevels	Product Price Level	List of Product Price Levels
defaultImageUrlTemplate	Text	
customFields	Object	A JSON object. See Custom Fields Appendix for details
websiteFields	Object	A JSON object. See Custom Fields Appendix for details
stockQuantities	Product Location Quantities	List of Product Location Quantities

Contract: Product Location

Parameter	Type	Details
<i>uuid</i>	<i>UUID</i>	<i>Identity (unique, see Common Entity Fields)</i>
<i>createdTimestamp</i>	<i>Timestamp</i>	<i>Creation Timestamp (see Common Entity Fields)</i>
<i>modifiedTimestamp</i>	<i>Timestamp</i>	<i>Last Modified Timestamp (see Common Entity Fields)</i>
<i>deletedTimestamp</i>	<i>Timestamp</i>	<i>Deleted Timestamp (see Common Entity Fields)</i>
name	Text	Product Location Name (unique)

address	Address	
activationStatus	Enum	Text. ACTIVE or INACTIVE

Contract: Product Location Quantities

Parameter	Type	Details
location	UuidName	
quantityOnHand	Decimal	Text. A fixed-precision number
quantityOnOrder	Decimal	Text. A fixed-precision number
quantityAllocated	Decimal	Text. A fixed-precision number

Contract: Product Price Level

Parameter	Type	Details
productPriceLevel	UuidName	
gstExclusiveAmount	Decimal	Text. A fixed-precision number
gstInclusiveAmount	Decimal	Text. A fixed-precision number
activationStatus	Enum	Text. ACTIVE or INACTIVE
quantityBreakActivationStatus	Enum	Text. ACTIVE or INACTIVE

Contract: Product Price Response

Parameter	Type	Details
productUuid	UUID	
customerUuid	UUID	
unitRateGstInclusive	Decimal	Text. A fixed-precision number
unitRateGstExclusive	Decimal	Text. A fixed-precision number
discountPercentage	Decimal	Text. A fixed-precision number. 100 mean 100%, 0.5 means 0.5%

Contract: Product Reference

Parameter	Type	Details
uuid	UUID	Product Identity (unique)
code	Text	Product Code (unique)
description	Text	Display name for the Product

Contract: UuidName

Parameter	Type	Details
uuid	UUID	Identity (unique)
name	Text	Display name

Appendix 2: Search Contracts

A search returns a Page and, depending on the search endpoint, a page contains an array of entities, or an array of SearchResults (which themselves each contain an entity and HTML information about how the entity matched).

Contract – Page (of SearchResult):

Parameter	Type	Details
limit	Integer	The limit that was used for this search
offset	Integer	The offset that was used for this search
values	SearchResult	A list of search results for the search
more	Boolean	'true' if there were more results to return. A subsequent search could retrieve a page with an offset, or a bigger page.

Contract - SearchResult:

Parameter	Type	Details
value	Entity	The entity for this search result. The type of the entity depends on what is being searched for.
html	Object	An object whose fields contain HTML describing how that field matched the search terms.

Appendix 3: Synchronisation Contracts

Contract – Sync Cursor:

Parameter	Type	Details
timestamp	Timestamp	The most recently synced timestamps. Modifications newer than this timestamp have not yet been retrieved. Null if no synchronisation has ever been performed for this data-type.

Contract – Page (of Sync Data):

Parameter	Type	Details
limit	Integer	The limit that was used for this sync
offset	Integer	The offset that was used for this sync
values	SearchResult	A list of search results for the synch. The type is specific to the data-type being synced.
more	Boolean	'true' if there were more results to return. A subsequent sync will return the next page of changes.

Contract – Webhook:

Parameter	Type	Details
uuid	UUID	Identity (unique, see Common Entity Fields)
createdTimestamp	Timestamp	Creation Timestamp (see Common Entity Fields)
modifiedTimestamp	Timestamp	Last Modified Timestamp (see Common Entity Fields)
deletedTimestamp	Timestamp	Deleted Timestamp (see Common Entity Fields)
userUuid	UUID	
httpMethod	Enum	Text. GET, POST or PUT
uri	Text	
authorizationHeader	Text	
activationStatus	Enum	Text. ACTIVE or INACTIVE
noun	Enum	Text. PRODUCT, CUSTOMER, CUSTOMER_INVOICE
statistics	Webhook Statistics	

Contract – Webhook Statistics:

Parameter	Type	Details
lastSuccessTimestamp	Timestamp	
lastFailureTimestamp	Timestamp	
wasLastCallSuccess	Boolean	
successOrFailureRunCount	Integer	
totalSuccessesCount	Integer	
totalFailuresCount	Integer	
lastFailureStatusCode	Integer	
lastFailureBody	Text	

Appendix 4: Custom/Web Fields

Records which have values for custom-fields or website-fields return these as an object whose field-name is the custom-field code and the value depends on the type of the field.

The representation of each type of field is indicated below.

Custom Field Type	Value Type	Source
TEXT	Text	A single line of text
TEXT_AREA	Text	Text that is expected to allow line-breaks (using LF as the line-break)
LOCAL_DATE	Date	Date-Format : {year}-{mon}-{day}. e.g. 2022-07-18 (18th July 2022)
LOCAL_TIME	Time	Time-Format: {hour}:{minute}:{second} in 24-hour form e.g. 23:33:14 (14 seconds past 11:33pm)
INTEGER	Integer	
DECIMAL	Decimal	
EMAIL	Text	
PHONE	Text	
BOOLEAN	Boolean	
URL	Text	
OPTIONS	Text	The 'code' of the selected option is returned