



# **Retail API Release Reference Guide**

## 1 REVISION HISTORY

Ver#	Reason for change	Job# / Version	Author	Date
1 - 91	Archived details		Emma Girschik	07/05/24
91 - 120	Archived details		Jhona Hidalgo	23/09/24
121	Add in GET Products new request parameter for image URLs	116467 v2021	Thida Zaw	16/12/20
122	Add a new endpoint for getting valid freight options from Web Freight Options GIT	116508 v2021	Thida Zaw	16/12/20
123	Add in GET Orders new request parameter updatedAfter to only show orders with recent changes	116468 v2021	Thida Zaw	16/12/20
124	Products – Colours – add in clarity about Colour Type set up		Emma Girschik	12/05/21
125	New Voucher end point error added (error code 5219) for enquiry or validation of voucher that has a different currency to the web store currency	v2021.2	Emma Girschik	17/05/21
126	New error code for Order posting when have variable base currencies, nominating despatch warehouse and not using “omni channel” feature	116664 v2021.2	Emma Girschik	21/06/21
127	Add a new endpoint for getting future prices of products	116740 v2021.2	Thida Zaw	20/07/21
128	Add a new endpoint to return free stock (SOH) of all available styles filtered through the product export of the web store	116791 v2021.2	Thida Zaw	20/07/21
129	Allow posting of a "non returnable" status on new order items - show status in Web sales monitor screens and GET orders	116830 v2021.2	Thida Zaw	20/07/21
130	Allow passing a Partner Order Id via order POST and retrieve id via GET orders end points	v2021.3	Nilusha Fernando	10/09/21
131	Add endpoints for redeeming and unreserving Coupons	115907 v2021.3	Nilusha Fernando	06/10/21
132	Edit to add in explanation about using Home phone instead of Mobile for contact so it shows up at POS		Emma Girschik	09/11/21
133	Add Post Orders Need review flag / review notes for flagging orders for manual review before automated processes apply	117219 v2022.1	Emma Girschik	06/12/21
134	Add endpoints for retrieving person records updated after a specific timestamp	117291 v2022.1	San Mathew	16/12/21
135	Added two new fields <ThirdPartyCouponCode> and <ThirdPartyCouponSource> to Create New Order payload	116837 v2022.2	San Mathew	18/03/22
136	Clarity on email voucher subject field being mandatory when buying vouchers that will be emailed but not needed otherwise		Emma Girschik	31/03/22
137	Add in extra gift voucher field for setting future date to send	117077 v2022.3	Emma Girschik	19/04/22
138	Add <SpendAmount> to RewardRedemption to validate minimum spend threshold			
139	Add details of new endpoint for orders to get only orders that have changed since a specified date / time – no need to specify person in request		Emma Girschik	07/10/22
140	Remove “sandbox” details as this doesn’t work – add in Postman Collection details instead		Emma Girschik	16/01/23
141	Fix up Openpay information that was missed		Emma Girschik	18/01/23
142	Added new Get request to coupon endpoint to retrieve all coupons		Amala Mary Chacko	21/02/23

143	Posting orders – company name updated to indicate it CAN be posted – fix document error Added in Product SKU cost element that can optionally be looked up if retail API is configured to expose this (application setting in <i>Deployment Console</i> )		Emma Girschik	29/03/23
144	Updated products table to include product measures at SKU level Updated the Example Response at product endpoint to include product measures		Amala Mary Chacko	14/04/23
145	Updated Post orders endpoint to include new element- customisation Updated the error messages under orders endpoint		Amala Mary Chacko	16/05/23
146	Included details on new endpoints RewardsSimple	118240 v2023.3	Julie Foster	20/06/23
147	Included details on new endpoints VouchersSimple	118241 v2023.3	Julie Foster	20/06/23
148	Update 'Retrieve Shipment Details' call to include Carton details and tracking number	118339 v2023.4	Julie Foster	18/08/23
149	Update 'Orders Updated Since' call to include despatch location at detail level	118493 v2023.4a	Julie Foster	11/09/23
150	Update link to Postman collection after SharePoint move		Emma Girschik	16/10/23
151	Add clarity to GET Products using UpdatedAfter filter – explain that this will retrieve products that have NOT been modified but where their price markdown causes a change		Emma Girschik	12/4/24
152	Add new endpoint details for Advanced Returns (Refundid)	118637 v2024.2	Julie Foster	07/05/24
153	Update products table and returns table to clarify mandatory fields		Jhona Hidalgo	23/09/24
154	Include new 'ExpiredRewardsSimple' endpoint	119327 V2025.1	Julie Foster	29/01/25
155	Include details on order IDX fields		Julie Foster	25/02/25

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### 3 INTRODUCTION

The Apparel<sup>21</sup> Retail Application Programming Interface (API) is an interface which provides interaction with the Apparel<sup>21</sup> system for the purpose of online shopping and enquiries. It is used by website developers implementing E-tailing applications which interact with Apparel<sup>21</sup> resources.

Use of this API requires the purchase of an Apparel<sup>21</sup> Retail API license by the retailer. See [Further Assistance for contacting Apparel<sup>21</sup>](#).

#### 1.1 AUDIENCE

This guide is intended for developers who are building web-enabled applications that retrieve information from and update details to Apparel<sup>21</sup>.

This guide will also be used by the retailer who is expected to be the first point of contact for enquiries from developers. Many of the data fields and values used in relation to the API will be dependent upon configurations specific to that retailer.

#### 1.2 REQUIRED KNOWLEDGE AND SKILLS

Use of this guide assumes

- Familiarity with XML
- Basic understanding of web services
- Knowledge of a programming language for developing a web service
- An understanding of retail commerce systems and payment gateways
- Familiarity with the apparel industry.

#### 1.3 ARCHITECTURE

The API is a web service using the REST (Representational State Transfer) architectural style. The following verbs are used

- GET
- PUT
- POST
- DELETE

The payload for all requests and responses is in XML.

#### 1.4 API VERSIONS AND UPDATES

From time-to-time new versions of the API will be released to provide new or modified functionality. In the 'details' section for each resource, the "HTTP header Accept:Version\_" column shows when an element was introduced to the payload. If a version other than 1 is required, it must be requested in the accept header of the call.

To check the Retail API version and payload version supported by an installed API, access the root page of the endpoint.

## Retail API

You are connected to the Apparel21 Retail API (C) 2018

Retail API Release **2018**.

Database Connection Details

Apparel21 Database Name **INTL**

Apparel21 Database Schema **DOC**

Database connection is available, and the database is version **2018**

Apparel21 client DLL version is **2**

Supported payload versions:

1.0

2.0

3.0

Minor version changes will be released for non-breaking changes such as introducing new elements or attributes. Developers should ignore new elements in the payload (if they are not required) and be aware that elements may not remain in a particular order although they will remain at the same level in the XML hierarchy.

Major version changes can also be applied to changed behaviour like the automatic removal of data if not supplied. i.e. In one version it may not be removed when not supplied but in another version it may be removed.

Major version changes have the potential to introduce changes which break the client's software. For example, if a new element (or attribute for an existing element) is required on submit payloads, like a PUT call, this would be a breaking change. All changes are documented in the *Retail API Change Log*.

Before installing a new version of the API, the business must be aware of the possible impact and discuss it with the website developer.

### 1.5 ASSUMPTIONS / CONSTRAINTS

- “Click and collect” and “Ship from store” – these features are NOT standard in Apparel21 – if you want to use these, there is additional configuration with associated fees. Contact Sales and CRM team to discuss further.
- A single currency applies to all transactions for a single “web store”
- In-store generated Credit Notes cannot be redeemed via *Retail API*
- If orders are posted with ‘pre-authorised’ payment details, it is not possible to update the payment details with the final payment transaction Id. Refunds for these transactions will not be able to be processed through Apparel<sup>21</sup> *Mail Order* or in store using “authorisation” number.
- Each order can only be delivered to one person / location
- Shipping confirmation emails can be supplied by Apparel<sup>21</sup> using Mailer module (optional)

- Apparel<sup>21</sup> does supply gift voucher email. Gift voucher purchase email from web site NOT supported.
- Apparel<sup>21</sup> generates customer email or SMS for pick up in store 'ready to collect' confirmation. Web site email NOT supported for this task.
- All elements posted must start with a capital letter. E.g. <Name> is valid but <name> is NOT valid
- Website can supply own order reference, but it MUST be unique for each new order.
- Email address must be unique within a brand or division. Person is identified in the Retail API via email address, brand/division combination.
- Click and collect (buy online pick up in store) and despatch from store orders must be FULLY paid at time of order and NOT at time of pick up.
- Orders containing gift vouchers MUST be fulfilled by the warehouse. They cannot be submitted as 'Click and Collect' or 'Despatch from store' orders.
- Online returns are supported if returned to warehouse – does not cater for "pick up in store" or "Despatch from store" returns. These returns should be done in store rather than online.

## 1.6 DEFINITION OF TERMS

Acronym or Term	Description
API	Application Programming Interface A set of routines, protocols, and tools for building software applications.
Customer	Same as online shopper. A consumer who directly buys goods from a seller in real-time. "Person" in Apparel <sup>21</sup> Retail API.
Generic Interface Translation	This is a function provided in Apparel <sup>21</sup> to enhance the configuration options, allowing businesses to customise their system.
GIT	See Generic Interface Translation
Id	Id refers to a system generated unique number for an object.
Online shopper	A consumer who directly buys goods from a seller in real-time.
Person	A term used within Apparel <sup>21</sup> to store details for an online shopper.
Product	A garment (piece of clothing), or accessory (bag, shoe, etc).  A product can have more than one colour and/or size but is still considered a single product record in Apparel <sup>21</sup> .

Reference Code	Reference Codes are assigned to a Reference Group. These are customisable by client. E.g. Pants, Jackets, Skirts
Reference Group	Reference Groups in Apparel <sup>21</sup> are various attributes used to describe products and other business entities at a higher level. E.g. Product Type
Reference Type	See Reference Group. E.g. Product Type
Retailer	A business utilising the Apparel <sup>21</sup> application for its retail operations.
Shopping Cart	A virtual shopping basket where items are 'stored' while browsing an online catalogue.
SKU	Stock Keeping Unit. The lowest level of representation of a product to size and colour detail if applicable.
Style	See Product.

## 1.7 FURTHER ASSISTANCE

If further information is required contact the Apparel<sup>21</sup> Support Centre

Phone +613 8415 9393

Email [Helpdesk@Apparel21.com](mailto:Helpdesk@Apparel21.com)

Website [www.Apparel21.com](http://www.Apparel21.com)



## 4 MINIMUM REQUIREMENTS

### 1.8 SYSTEMS

- 32- or 64-bit operating system
- Windows IIS v7 – configured to host MVC
- .Net 3.5 minimum - If installing .Net4 make sure .Net3.5 has been installed first
- Oracle client connectivity must be available to both the TEST and LIVE schemas

### 1.9 SERVICES

The Apparel<sup>21</sup> *Retail API* must be installed and configured. Refer to separate documentation for the installation and configuration of the API.

Apparel<sup>21</sup> consultants will liaise with their customers to establish the configurations for Apparel<sup>21</sup>. They will set up and configure 'test' and 'live' systems for use with the API and provide the information required for the API configuration settings.

## 5 POSTMAN COLLECTION

A Postman Collection is available for the Retail API.

Link to latest collection file here:

[Apparel21 Retail API.postman\\_collection.json](#)

This can be imported into Postman to create a collection.

## 6 OVERVIEW

The Apparel<sup>21</sup> *Retail API* provides resources to support online shopping and enquiries.

The API caters for a single currency but allows 'pricing customers' to be set up to cater for shoppers that are not required to pay tax on goods purchased.

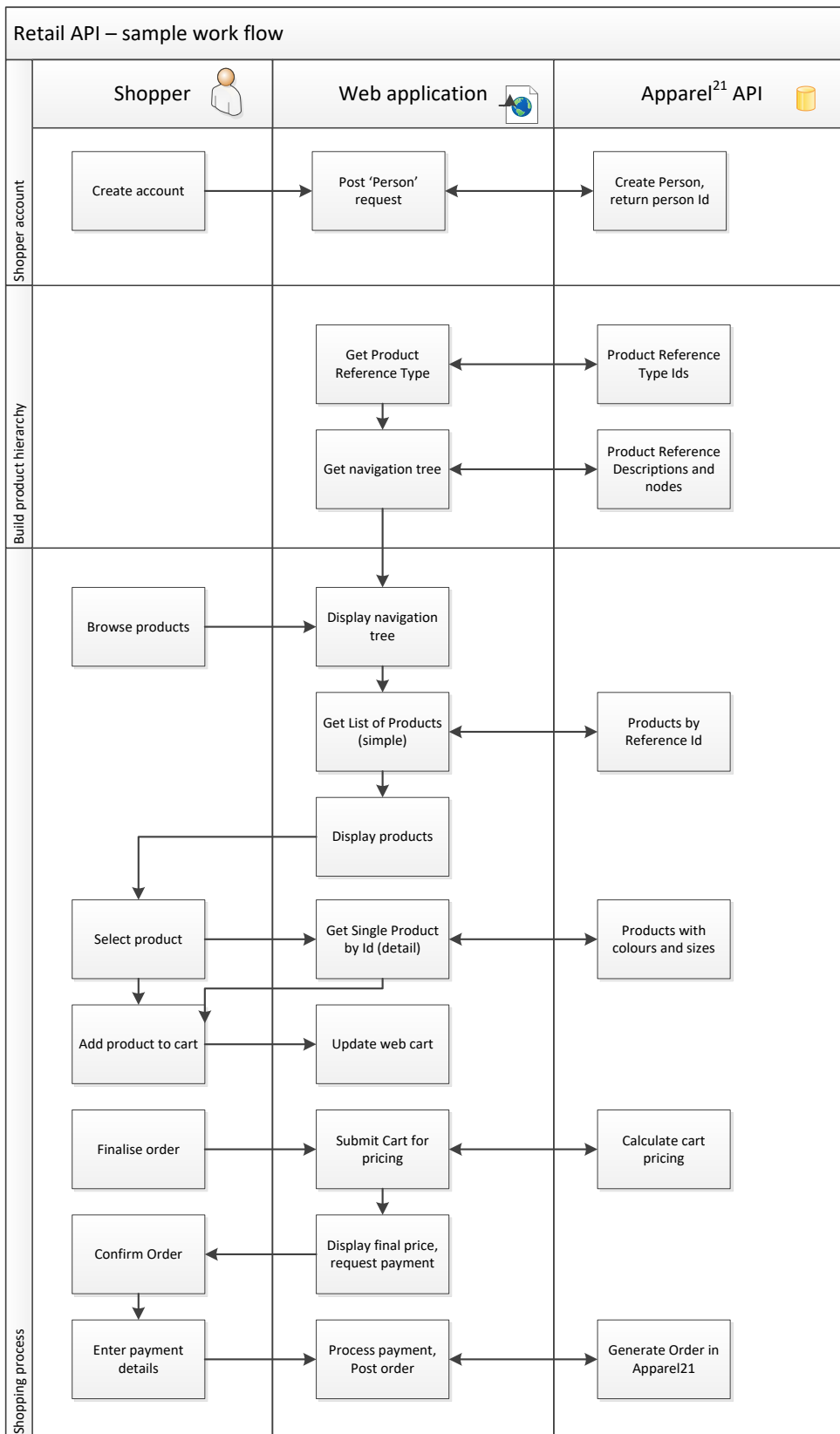
The included resources are:

- look up existing **shopper** details, including **loyalties**
- create new **shopper**
- navigation tree hierarchy - **product references** to display a navigation tree
- **product** information - **colour and size** information
- **stock** information by store
- **store** information. E.g. address details
- **shopping cart** to get latest prices, promotions and freight as defined in the Apparel<sup>21</sup> system
- create new **orders** – shopper, products, payment details, despatch from warehouse, despatch from store or pick up in store
- create new **returns / exchange orders**
- **gift voucher** selling
- **gift voucher** redemption
- look up **sales history for shopper, including all store transactions as well as web sales**

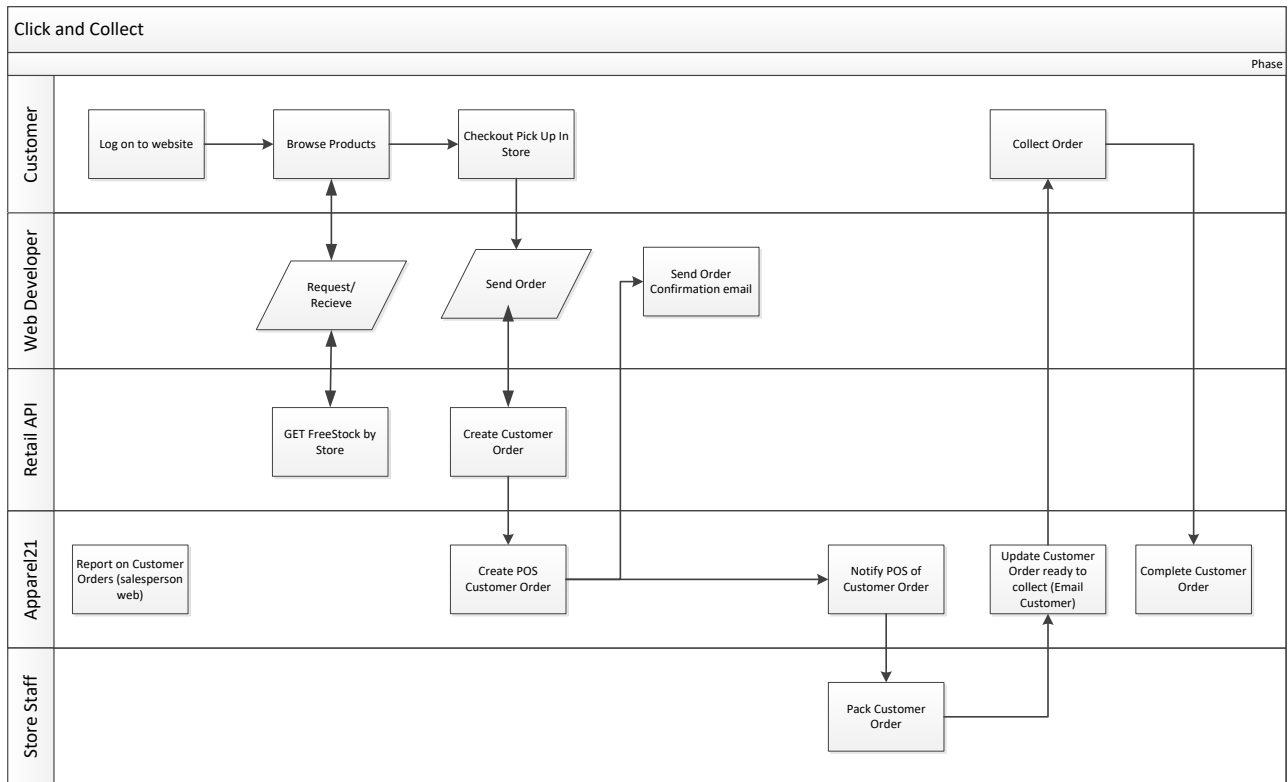
As Apparel<sup>21</sup> is extensively customisable and configurable, terminology and descriptions will change depending on how clients have implemented Apparel<sup>21</sup>.

## SAMPLE WORK FLOW

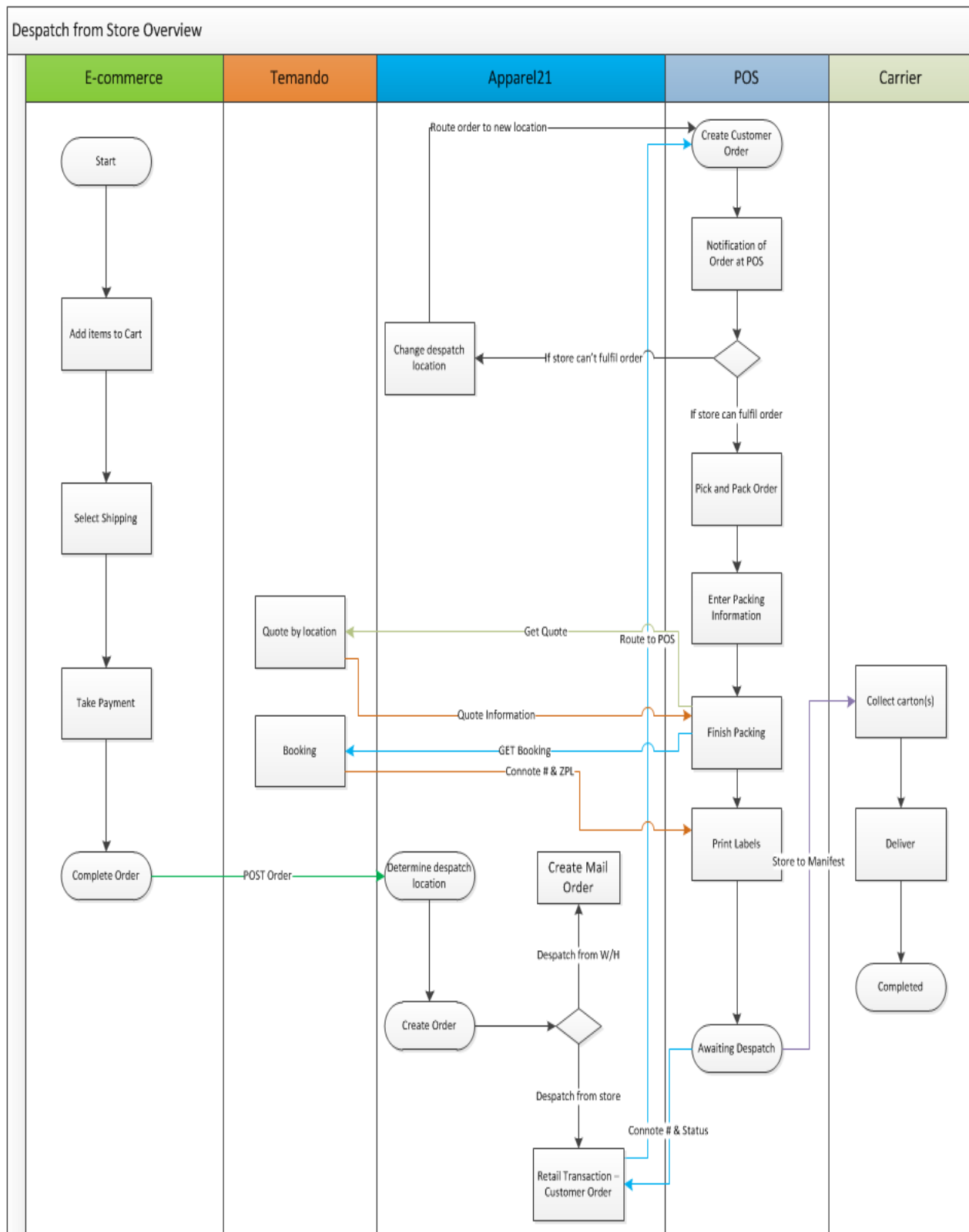
### 1.9.1 BUY ONLINE AND DESPATCH FROM WAREHOUSE



## 1.9.2 BUY ONLINE AND PICK UP IN STORE (CLICK AND COLLECT)



### 1.9.3 BUY ONLINE AND DESPATCH FROM STORE



## 1.10 USE OF IDS

Apparel<sup>21</sup> product codes and other business elements can be modified. Therefore rather than using “product code” or “return reason code” as a method of communicating between the web and Apparel<sup>21</sup> databases, it is preferable to communicate data using unchanging Ids.

Some items, such as products will have a Code AND an Id.

- Code - user friendly product code used by the business to represent the item. Used for verbal communications.
- Id – system generated unchanging unique number. Not user friendly.

Where the document refers to Id, it is referring to the number.

e.g Product id 12345 code DRES0001 and description STRIPED MAXI DRESS

## 1.11 API CALLS

A standard API call is formed by three parts

Request part	Notes
1. URL with parameters	Country code is mandatory parameter for all calls to the API. Country code controls pricing and tax rates. Country code maps to a setting in Apparel <sup>21</sup> back office.
2. HTTP headers <ul style="list-style-type: none"><li>• “Content-type:text/xml” for GET, POST and PUT</li><li>• “Accept:version_x”</li></ul>	The payload version required should be included in the request header (Accept:version_2.0). If not supplied, only version 1 elements apply.
3. XML payload body (for PUT and POST, not for GET)	

*Examples for Create a person*

### 1 HTTP POST Request

http://retailapi.apparel21.com/RetailAPI/Persons/?countryCode=AU

### 2 HTTP POST Request HTTP header

3 Content-type: text/xml

4 Accept:version\_2.0

## 5 HTTP POST Request XML payload body

```
<Person>
  <Title>Mr</Title>
  <Firstname>John</Firstname>
  <Surname>Hill</Surname>
  <Sex>M</Sex>
  <References>
    <Reference>
      <ReferenceTypeId>373</ReferenceTypeId>
      <Id />
    </Reference>
    <Reference>
      <ReferenceTypeId>1781</ReferenceTypeId>
      <Id />
    </Reference>
    <Reference>
      <ReferenceTypeId>1782</ReferenceTypeId>
      <Id />
    </Reference>
    <Reference>
      <ReferenceTypeId>1801</ReferenceTypeId>
      <Id />
    </Reference>
    <Reference>
      <ReferenceTypeId>1501</ReferenceTypeId>
      <Id />
    </Reference>
    <Reference>
      <ReferenceTypeId>27</ReferenceTypeId>
      <Id />
    </Reference>
  </References>
  <Addresses>
    <Billing>
      <ContactName />
      <AddressLine1>101 Cremorne St</AddressLine1>
      <AddressLine2 />
      <City>CREMORNE</City>
      <State>VIC</State>
      <Postcode>3121</Postcode>
      <Country>AUSTRALIA</Country>
    </Billing>
  </Addresses>
</Person>
```

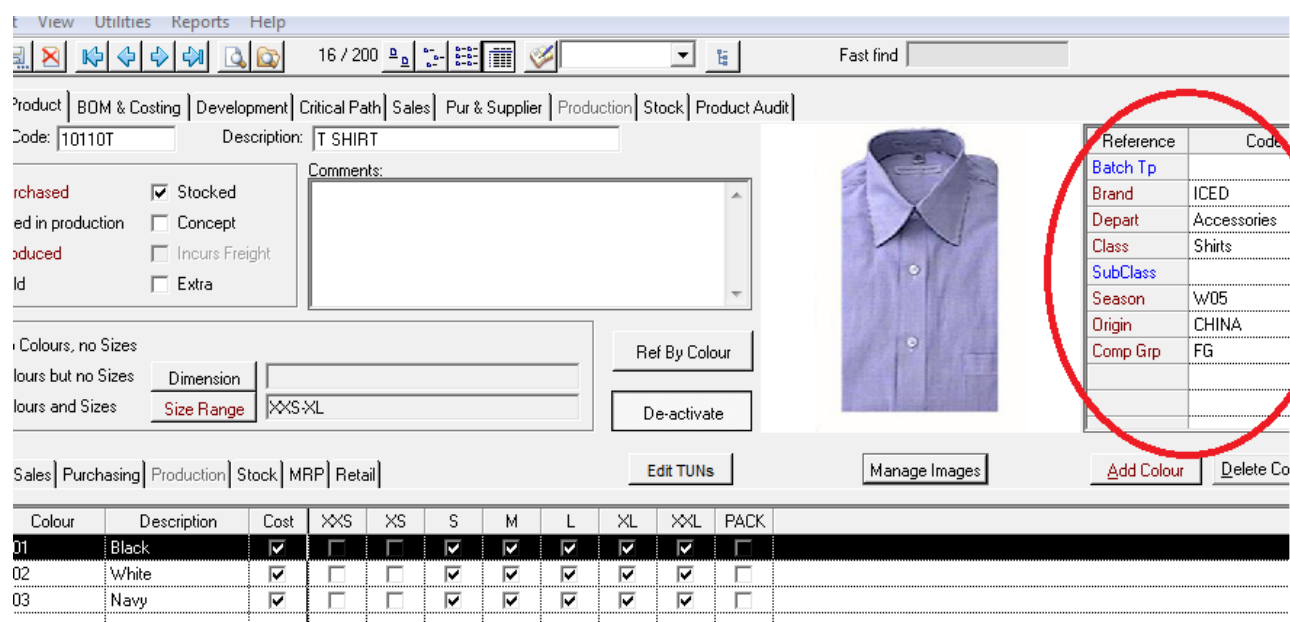


## 7 REFERENCES

Reference Groups in Apparel<sup>21</sup> are various attributes used to describe products and other business entities at a higher level.

*Product* Reference Groups are used to enable the grouping of products into similar categories and are able to be queried by the API. Product Reference details can be retrieved by the API to determine the order or hierarchy in which the products are displayed or grouped.

These are customisable by client. Examples of some product references are shown below.



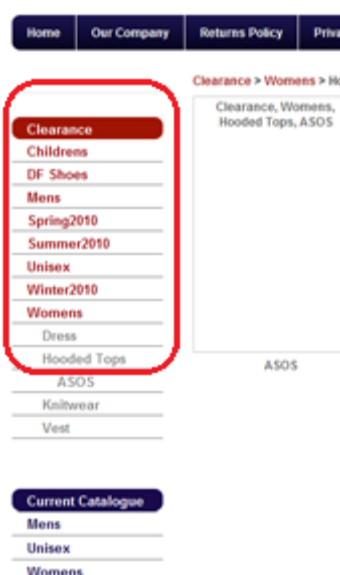
The screenshot shows the Apparel21 software interface. The top menu bar includes View, Utilities, Reports, and Help. The main window displays product details for a 'T SHIRT' with code '10110T'. A red circle highlights the 'Reference' table on the right, which lists attributes and their corresponding codes:

Reference	Code
Batch Tp	
Brand	ICED
Depart	Accessories
Class	Shirts
SubClass	
Season	W05
Origin	CHINA
Comp Grip	FG

As depicted above, *Brand*, *Department*, *Class*, etc. are setup as **reference groups**. They are referred to in the API as **reference types**.

The corresponding codes *ICED*, *Accessories*, *Shirts* are **reference codes**.

For a client site, these reference groups can be selected to control navigation as shown in the section [Navigation Tree](#).



Reference Groups are also used for other fields in Apparel<sup>21</sup>.

- Return reasons

The API has several resources to obtain Reference details depending on the information required.

<b>Reference Types</b>	<p>This resource will list all Reference Types in Apparel<sup>21</sup>. The payload can be used to obtain the Id of a Reference Type to enable the values for that reference Type to be listed.</p> <p>E.g. Product Department</p>
<b>References</b>	<p>This resource requires a Reference Type Id and optionally a Reference Code to be entered. The payload will list all valid Reference Types that are children of the Reference Type.</p> <p>E.g. Shoes, Jackets, Pants are References within “Product Department” reference type.</p>
<b>Product Reference Types</b>	<p>Lists the Reference Types specific to ‘Products’.</p> <p>E.g. “Product Department”, “Season”</p>
<b>Product Colour Reference Codes</b>	<p>Lists Product Colour Reference Codes. These are the references that exist at the product / colour level. These references are NOT available as part of the navigation tree or standard product extract due to payload size considerations.</p> <p>This extract is suited to those businesses that extract all information on a daily / weekly basis and organise the navigation with the web application.</p>

## 1.12 REFERENCE DETAILS

### 1.12.1 REFERENCE TYPES

Field	Format	Max Length	Comment	Example	GET response		HTTP Header Accept: Version
					Reference Types	References	
<b>ReferenceTypes</b>							
<b>ReferenceType</b>			<b>ReferenceType is a sub-element of ReferenceTypes</b>				
Id	Integer	22	This is the unique identifier of the reference type	1221	Yes		1.0
Code	Alpha	8	Code for this reference type	Season	Yes		1.0
Name	Alpha	40	Extended description of reference type	Season	Yes		1.0
<b>References</b>							
<b>ReferencesByType</b>			<b>ReferencesByType is a sub-element of References</b>				
ReferenceTypeId	Integer	22	The Id entered in the request parameter	1221		Yes	1.0
ReferenceTypeCode	Alpha	8	Code for this reference type	Season		Yes	1.0
ReferenceTypeName	Alpha	40	Extended description of reference type	Season		Yes	1.0
<b>Reference</b>			<b>Reference is a sub-element of References</b>				
ReferenceTypeId	Integer	22	The Id entered in the request parameter	1221		Yes	1.0
Id	Integer	22	The Id entered in the request parameter	4884		Yes	1.0
Code	Alpha	8	Code for this reference type	Autumn		Yes	1.0
Name	Alpha	40	Extended description of reference type	Autumn		Yes	1.0

### 1.12.2 PRODUCT REFERENCE TYPES

Field	Format	Max Length	Comment	Example	GET Response	HTTP Header Accept:Version_
Id	Integer	22	This Id describes which object the list of reference groups refers to. For products the value is 1.	1	Yes	1.0
Name	Alpha	30	Name of object	Style	Yes	1.0
<b>ReferenceTypes</b>			<b>Reference Types is a sub-element of ProductReferenceTypes</b>			
Sequence	Integer	22	Sequence of the reference type within the hierarchy	1	Yes	1.0
ReferenceTypeId	Integer	22	Unique Id for this reference type	257	Yes	1.0
Code	Alpha	8	Code for this reference type	Brand	Yes	1.0
Name	Alpha	40	Extended description of reference type	Product Brand	Yes	1.0

### 1.12.3 PRODUCT COLOURS REFERENCES

Field	Format	Max Length	Comment	Example	GET response	HTTP Header Accept:Version_
<b>ProductColoursReferences</b>						
<b>ProductColourReference</b>			<b>ProductColourReference is a sub-element of ProductColoursReferences</b>			
ClrId	Integer	22	The Id of a colour that relates to a particular style	1451	Yes	2.0
RowNumber	Integer	22	Consecutive number of the row returned in the response	28	Yes	2.0
<b>References</b>						
<b>Reference</b>			<b>Reference is a sub-element of References</b>			
ReferenceTypeId	Integer	22	Unique Id for the reference type set against the product colour	1221	Yes	2.0
Id	Alpha	8	The id assigned to the product colour reference type	4885	Yes	2.0