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**API Definition (IFS) FOR:**

**ecommerce.occ.product**

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| --- |
| **Purpose** |
| **The purpose of this document is to provide the functional design requirements for an interface. The scope of this document includes the requirements for the API definition, along with field-level mapping requirements. It also includes non-functional requirements such as performance, reconciliation and monitoring/reporting.  The document will serve as input for the development and testing teams in order for them to deliver and test the interface build; therefore all the relevant sections of this document should be completed.** |

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| **Document Information** | |
| This document | <https://vsopweb.sap.shoprite.co.za:44345/sap/bc/webdynpro/sap/smud_frame?SAP-CLIENT=001&SAP-EP-TSTAMP=20230516102619&SAP-EP-VERSION=7&SAP-IE=edge&SAP-LANGUAGE=EN&SAP-NWBC-CONTEXT=03HA333035D633D33336000128D3C800C2350EF60F00310D0D0C00&SAP-SHELL=FLP1.71.48-NWBC&SAP-TARGET-NAVMODE=explace&SAP-THEME=sap_belize&SAP-TOUCH=0&SAP-WD-TSTAMP=20230516102619&UI_BUILD_OPTIONS=ROOT_OCC%3d%3d%3d051Maomn7kUxZ8%257BiQ9VQ8G%26%26%26VIEW_ID%3d%3d%3d051Maomn7kUxZ7nYK2bPsW%26%26%26&UI_BUILD_VIEW=COLUMN_BROWSER&OCC_ID=051Maomn7kgKunF6KfDF1m&LAYOUT_ID=ABIFNEZMGEPOVAOCW4T4SLJ2OI&SAVED_SEARCH_ID=&REPORT_ID=&DIAGRAM_NODE=&SITE=&ROLE=1&LANG=E&SCOPE_ID=SAP_DEFAULT_SCOPE> |

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| **Business Requirement Specification(BRS) reference** | <https://docs.google.com/document/d/1insyFsvQREceDn9fs0Q1J_lgwnLAnVO4BUT7Ex547U8/edit?usp=sharing> |
| **IFS document naming standard** | https://docs.google.com/document/d/1insyFsvQREceDn9fs0Q1J\_lgwnLAnVO4BUT7Ex547U8/edit?usp=sharing |

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| **Version Management** | | | | |
| **Date** | **Version** | **Description** | **Changes Made** | **Author** |
| 15/5/2023 | V1.0 | Initial Version |  | ARIS Script |
| 15/05/2023 | V2.0 | Initial Completion | New IFS template applied to OLD IFS | Arron Higgins |
| 12/12/2023 | V2.1 | Update | Add PDF links to the response payload | Arron Higgins |
| 06/09/2024 | V2.2 | Update | Add Targeted offer type to BB response | Arron Higgins |
| 30/09/2024 | V2.3 | Update | Add Targeted offer type to BB response for OFY Endpoint | Arron Higgins |
| 2025/02/05 | V2.4 | Update | Add new service for the Attribute lists in commerce to be exposed | Arron Higgins |
| 2025/03/11 | V2.5 | Update | Add of new service for Product Search | Arron Higgins |
| 2025/03/25 | V2.6 | Update | Add Store parameter for V2 search | Arron Higgins |
| 2025/07/07 | V2.7 | Update | Add 1 New fields, end point will pass back unenriched products when barcode or product code is used. | Arron Higgins |

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| **Stakeholder Sign-Off** | | |
| I have read and agreed on the content of this document. The document is complete and meets all the necessary requirements. Any amendments to this document will be handled through the agreed SDLC procedure. | | |
| **Name and Surname** | **Position** | **Signature** |
| Suresh Kumar | Integration Architect |  |

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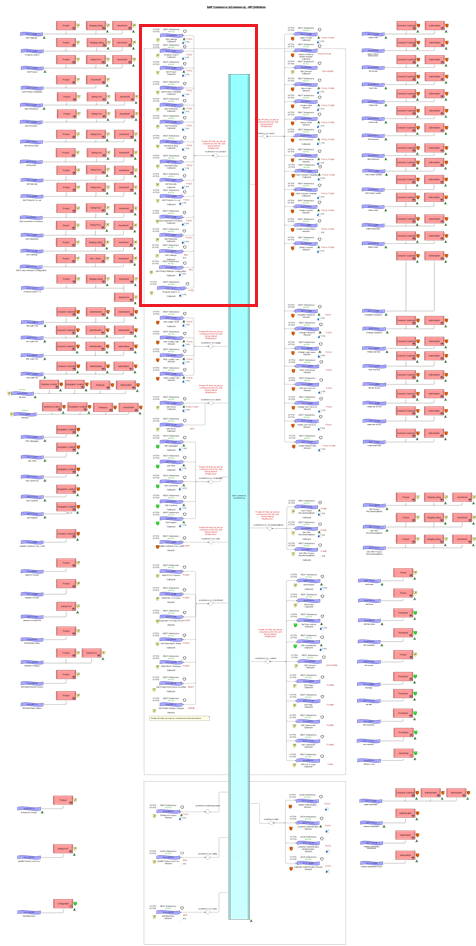
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# Terms and Abbreviations

|  |  |
| --- | --- |
| **Abbreviation** | **Description** |
| **API** | Application Programming Interface |
| **Auditing** | …verify that systems and applications are appropriate, are efficient, and are adequately controlled to ensure valid, reliable, timely, and secure input, processing, and output at all levels of a system's activity. (https://en.wikipedia.org/wiki/Information\_technology\_audit) |
| **DMZ** | Demilitarised Zone  A physical or logical subnetwork that contains and exposes an organization's external-facing services to a larger and untrusted network, usually the Internet. (https://en.wikipedia.org/wiki/DMZ\_%28computing%29) |
| **FTP** | File Transfer Protocol |
| **SFTP** | Secure File Transfer Protocol |
| **HTTP** | Hypertext Transfer Protocol |
| **HTTPS** | Secure Hypertext Transfer Protocol |
| **Message Queue** | Message queues provide an asynchronous communications protocol. (https://en.wikipedia.org/wiki/Message\_queue) |
| **PCI** | Purchase Card Industry. The payment card industry consists of all the organizations which store, process and transmit cardholder data, most notably for debit cards and credit cards. (https://en.wikipedia.org/wiki/Payment\_card\_industry) |
| **PoPI** | Protection of Personal Information (Act) (http://www.justice.gov.za/legislation/acts/2013-004.pdf) |
| **REST** | Representational State Transfer. Also known as RESTful API or RESTful web services. (https://en.wikipedia.org/wiki/Overview\_of\_RESTful\_API\_Description\_Languages) |
| **SOA** | Service Oriented Architecture |
| **SOAP** | Simple Object Access Protocol |
| **SSL** | Secure Sockets Layer (an outdated cryptographic protocol superseded by TLS) |
| **TLS** | Transport Layer Security (preceded by SSL) |

# System Overview



ARIS API Definition Diagram

|  |  |
| --- | --- |
| **Provider System** | |
| **Name** | SAP Commerce (eCommerce) |
| **Solution's License Model** | Licensed by Revenue |
| **License implications of consuming this API** | N/A |

# Interface Summary

## SCHY00067

|  |  |
| --- | --- |
| **Summary** | |
| **Project/Change cross reference number** | FX2222 |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00067 - Get Pamphlets |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00064

|  |  |
| --- | --- |
| **Summary** | |
| **Project/Change cross reference number** | FX022 |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00064 - Get Household Promotions |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00072

|  |  |
| --- | --- |
| **Summary** | |
| **Project/Change cross reference number** | FX014 |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00072 - Get Product Availability |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00060

|  |  |
| --- | --- |
| **Summary** | |
| **Project/Change cross reference number** | FX021 |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00060 - Get Bonus Buy |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00058

|  |  |
| --- | --- |
| **Summary** | |
| **Project/Change cross reference number** | FX022 |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00058 - Get Promotion |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00059

|  |  |
| --- | --- |
| **Summary** | |
| **Project/Change cross reference number** | FX021 |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00059 - Get Bonus Buys |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00050

|  |  |
| --- | --- |
| **Summary** | |
| **Project/Change cross reference number** | FX021 |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00050 - Get Catalogs |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00061

|  |  |
| --- | --- |
| **Summary** | |
| **Project/Change cross reference number** | FX362 |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00061 - Get Specials |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00051

|  |  |
| --- | --- |
| **Summary** | |
| **Project/Change cross reference number** | FX362 |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00051 - Products Search |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00057

|  |  |
| --- | --- |
| **Summary** | |
| **Project/Change cross reference number** | FX022 |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00057 - Get Promotions |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00052

|  |  |
| --- | --- |
| **Summary** | |
| **Project/Change cross reference number** | FX362 |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00052 - Get Product |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00098

|  |  |
| --- | --- |
| **Summary** | |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00098 - Get Products For List |
| **Interface Purpose** | Get Products For List |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | No |
| **Security mechanism to apply in transit** | HTTPS |

## SCHY00111

|  |  |
| --- | --- |
| **Summary** | |
| **Integration Type** | REST Webservice |
| **Interface Name** | SCHY00111 - Products Search V2 |
| **Interface Purpose** | Search for Products |
| **Webhook Name** | N/A |
| **Webhook Reference** | N/A |
| **Synchronisation** | Synchronous |
| **API flow direction** | Outbound |

|  |  |
| --- | --- |
| **Security and Authorisation** | |
| **Is the data sensitive and must it be protected?** | Yes |
| **Security Classification** | Private |
| **PoPI related?** | No |
| **PCI related?** | No |
| **Finance or Pricing related?** | YES – Pricing |
| **Security mechanism to apply in transit** | HTTPS  If any of the above is true, refer to the Shoprite security policy. http://pulse.shoprite.co.za/Dept/IT/ITGov/Policies/default.aspx |

# Interface Details

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| **Interface Description** |
| SCHY00067 - Get Pamphlets  Get Pamphlets for a supplied store   SCHY00064 - Get Household Promotions Get a members personalised promotions for their default store with the product details and pricing  SCHY00072 - Get Product Availability This endpoint shows availability for the closest store to the customers store  SCHY00060 - Get Bonus Buy Get Bonus Buy  SCHY00058 - Get Promotion Get promotion  SCHY00059 - Get Bonus Buys Get Bonus Buys  SCHY00050 - Get Catalogs Get a list of catalogs and categories  SCHY00103 - Get Catalogs Get a list of catalogs and categories  SCHY00061 - Get Specials  Get Specials   SCHY00051 - Products Search Search for Products  SCHY00057 - Get Promotions Get collection of promotions  SCHY00052 - Get Product Products published for customer access  SCHY00109 - Get Product Attribute Configuration Get Product Attribute Configuration  SCHY00098 - Get Products For List  Get Products For List  SCHY00111 - Products Search V2 Search for Products  This interface is being enhanced to send back products that are un-enriched ONLY when the barcode or the product code is used. This is so the products that are unenriched do not get returned when a customer is using the search capability of the product (text based) but when a customer scans the product or the trolley team uses the product code for the search commerce will return a product that does not meet the definition of enriched.  Along with the above-mentioned change there will be a new field added that will communicate the vitality status of the product, the reason for this being added is the existing vitality indicator is linked to a product having a display category set.  In the response IF a product is unenriched, we should read the sourceName filed instead so that we can provided a name to the customer when they are transacting on the trolley, this reduces the complexity on the trolley team when reading the product data. |

|  |  |
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| **Data Volumes and Performance** | |
| **Average size of each message/file** | 2KB |
| **Average throughput per period** | 10 TPS |
| **Maximum throughput / period** | 130 TPS |
| **Peak periods** | AD HOC |
| **Availability requirements, SLAs to be met, etc.** | Highly available |

|  |  |
| --- | --- |
| **Monitoring** | Internal monitoring of Failed API calls, Normal L7 monitoring |
| **Error retry policy** | None |
| **Error notification requirements** | ([itdigital@shoprite.co.za](mailto:itdigital@shoprite.co.za)) – Commerce support |
| **Logging and Auditing requirements** | |
| Where applicable:   1. Standard AWS API Gateway logging. 2. Logging should be done via L7 AWS gateway and logged on commerce import. | |

# Additional Interface Information

# Appendix A – New Web Services

|  |  |
| --- | --- |
| **Web Service Summary** | |
| **End-point URL** | QA: <https://rewardsapi.qa.shopritelabs.co.za/>  Prep:  <https://rewardsapi.prep.shopritelabs.co.za/>  Prod:  <https://api.checkers.co.za/> |
| **Web Service Type** | □ REST |
| **Implementation Name** | ecommerce.occ.product |
| **Service owner and contact details** | Hannes Koster (hkoster@shoprite.co.za) |
| **Anticipated consumers** | Cor3 (SAP ERP), L7, DSL |
| **API Gateway logging requirements** | All errors should be logged and persisted by the gateway. |
| **Internally/Externally Exposed** | □ Internal and external |
| **API Gateway mediation required (Y/N)** | Only 1 of the many end points is to be exposed via L7  Sellprice – is the only SOAP call that will be exposed via L7  All other endpoints are exposed via DSL |
| **API Gateway Technology** | AWS API Gateway(DLS) |
| **Which L7 Gateway instance will be used? Remove the ones that are not applicable** | AWS |

|  |
| --- |
| **Service Behaviour** |
| ***For DSL:*** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Operations(Provide a list of operations of this service. Refer to the Service Naming Policy for operations naming standards.)** | | | |
| Get Pamphlets |  |  |  |
| Get Household Promotions |  |  |  |
| Get Product Availability |  |  |  |
| Get Bonus Buy |  |  |  |
| Get Promotion |  |  |  |
| Get Bonus Buys |  |  |  |
| Get Catalogs |  |  |  |
| Get Catalogs |  |  |  |
| Get Specials |  |  |  |
| Products Search |  |  |  |
| Get Promotions |  |  |  |
| Get Product |  |  |  |
| Get Product Attribute Configuration |  |  |  |

|  |
| --- |
| **Operation Details** |

## SCHY00050 Get Catalogs

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET /{baseSiteId}/catalogs | | | | | |
| **Description** | | Returns a list of catalogs and categories available for all catalogs and catalog versions. Please ensure to use the correct catalog and ”Online” version | | | | | |
| **Request format** | | ***JSON*** | | | **Response format** | ***JSON*** | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | ***Path*** | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| x-api-key (in header) | Y | | API Key per API Client is required for the consumption of the Digital Services API’s. API key is Dynamically issued to the API client via AWS secrets manaer as part of the Digital Access and Security (DSL) solution. | | | | apiKey |
| baseSiteId | Y | | Base site identifier | | | | String |
| fields | N | | Response configuration. This is the list of fields that should be returned in the response body. | | | | string |
| showErpCategories | N | | Return the ERP categories tree if true or the commerce tree if false | | | | Boolean |
| ShowAllCategories | N | | return All categories in the commerce tree if true | | | | Boolean |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
|  | | | | | | | |

|  |
| --- |
| **Data Schemas** |
|  |

|  |
| --- |
| **Sample data** |
|  |

## SCHY00067 - Get Pamphlets

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET /{baseSiteId}/pamphlets/{storeId} | | | | | |
| **Description** | | Get a list of pamphlets | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | Path | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| baseSiteId | Y | | Indication of Checkers or Shoprite Data needed | | | | String |
| Fields | N | | Allows the response to be shortend or returned in full | | | | String |
| storeId | N | | The store code for the customers preferred store used to get the region for the pamphlets that get returned | | | | String |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
| pamphlets | Object | | | | | | Object |
| brand | Brand for the pamphlets | | | | | | String |
| endDate | End date for the Pamphlet validity | | | | | | String |
| erpDevisions | Erp Divisions where the pamphlets is available | | | | | | List of Strings |
| pdfUrl | URL link to a downloadable PDF (Non-sanitized) | | | | | | String |
| metaPdfUrl | URL Link to a downloadable PDF (Sanitized) | | | | | | String |
| imageUrl | Cover image for the Pamphlet | | | | | | String |
| name | Name of the Pamphlet | | | | | | String |
| pages | Array of pages data | | | | | | Array |
| +imageUrl | Image URL for Page in PDF | | | | | | String |
| +name | Name of image URL | | | | | | String |
| +page | Page number | | | | | | Integer |
| sections | Array | | | | | | Array |
| +endPage | End Page for section | | | | | | Integer |
| +name | Name of Page | | | | | | String |
| +startPage | Starting Page for Section | | | | | | Integer |
| startDate | Start Date for Validatiy of the Pamphlet | | | | | | String |
| stores | List of store codes | | | | | | List of Strings |
| url | HTML render of PDF document | | | | | | String |

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| **Data Schemas** |
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| **Sample data** |
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## SCHY00051 Product Search

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET /{baseSiteId}/products/search/ | | | | | |
| **Description** | | Allow for the searching of products in the online catalog using the customers preferred store | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | Path | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| x-api-key (in header) | Y | | API Key per API Client is required for the consumption of the Digital Services API’s. API key is Dynamically issued to the API client via AWS secrets manaer as part of the Digital Access and Security (DSL) solution. | | | | apiKey |
| baseSiteId | Y | | Base site identifier | | | | String (Path) |
| userId | Y | | The userId | | | | String (Path) |
| currentPage | N | | The current result page requested | | | | Integer(int32) |
| fields | N | | The context to be used in the search query. | | | | String |
| pageSize | N | | The number of results returned per page. | | | | Integer(int32) |
| Query | N | | Serialized query, free text search, facets. | | | | String |
| searchQueryContext | N | | searchQueryContext | | | | String |
| sort | N | | Response configuration. | | | | Enum |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
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| **Data Schemas** |
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| **Sample data** |
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## SCHY00052 GET Product

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET /{baseSiteId}/products/{productCode} | | | | | |
| **Description** | | Returns information about a specific product. | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | Path | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| x-api-key (in header) | Y | | API Key per API Client is required for the consumption of the Digital Services API’s. API key is Dynamically issued to the API client via AWS secrets manaer as part of the Digital Access and Security (DSL) solution. | | | | apiKey |
| baseSiteId | Y | | Base site identifier | | | | String |
| fields | N | | Response configuration. This is the list of fields that should be returned in the response body. | | | | String |
| posName | Y | | POS name used in the search | | | | String |
| productCode | Y | | Product identifier | | | | String |
| userId | Y | | User identifier | | | | String |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
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| **Data Schemas** |
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| **Sample data** |
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## SCHY00072 Get Product Availability

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET /{baseSiteId}/products/{productCode}/availability | | | | | |
| **Description** | | Returns availability information about a product relative to the customers store. This service will leverage the customers preferred store as the customers location and will display stores that are close to that store. | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | PATH | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| x-api-key (in header) | Y | | API Key per API Client is required for the consumption of the Digital Services API’s. API key is Dynamically issued to the API client via AWS secrets manaer as part of the Digital Access and Security (DSL) solution. | | | | apiKey |
| baseSiteId | Y | | Base site identifier | | | | String |
| userId | Y | | The user Id | | | | Int |
| productCode | Y | | The specific product code | | | | String |
| posName | N | | The point of service code for th customer. If this is not passed the customers selected store or the default store will be used | | | | String |
| Fields | N | | The detail of data you required | | | | String |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
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| **Data Schemas** |
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| **Sample data** |
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## SCHY00057 GET Promotions (Bonus Buy)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET /{baseSiteId}/products/promotions/{userId} | | | | | |
| **Description** | | Returns a list of promotions for a user | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | Path | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| x-api-key (in header) | Y | | API Key per API Client is required for the consumption of the Digital Services API’s. API key is Dynamically issued to the API client via AWS secrets manaer as part of the Digital Access and Security (DSL) solution. | | | | apiKey |
| baseSiteId | Y | | Base site identifier | | | | String |
| userId | Y | | Category identifier | | | | String |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
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| **Data Schemas** |
| ***Provide schemas when applicable*** |

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| **Sample data** |
| ***Provide sample data where applicable*** |

## SCHY00058 Get Promotion (Bonus Buy)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET /{baseSiteId}/products/promotions/{promotionid} (Depricated) | | | | | |
| **Description** | | Returns a specific promotion code | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | ***In the header, URI, body, etc.*** | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| x-api-key (in header) | Y | | API Key per API Client is required for the consumption of the Digital Services API’s. API key is Dynamically issued to the API client via AWS secrets manaer as part of the Digital Access and Security (DSL) solution. | | | | apiKey |
| baseSiteId | Y | | Base site identifier | | | | String |
| promotioncode | Y | | Category identifier | | | | String |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
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| **Data Schemas** |
| ***Provide schemas when applicable*** |

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| **Sample data** |
| ***Provide sample data where applicable*** |

## SCHY00059 Get Bonus Buy (Bonus Buy)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET /{baseSiteId}/products/bonusbuy | | | | | |
| **Description** | | Returns a list of bonus buys by UserID or allowed members | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | Path | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| x-api-key (in header) | Y | | API Key per API Client is required for the consumption of the Digital Services API’s. API key is Dynamically issued to the API client via AWS secrets manaer as part of the Digital Access and Security (DSL) solution. | | | | apiKey |
| UserId | Y | | User ID | | | | String |
| BaseSiteID | Y | | Base site identifier | | | | String |
| AllowedMembers | Y | | Allowed Members | | | | String |
| posName | N | | Store for the customer | | | | String |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
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| **Data Schemas** |
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| **Sample data** |
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SCHY00060 Get Bonus Buy (Bonus Buy)

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | /GET /{baseSiteId}/products/bonusbuy/{bonusbuycode} | | | | | |
| **Description** | | Returns a bonus buy detail by code. Code specifies which bonus buy detail to return. | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | Path | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| x-api-key (in header) | Y | | API Key per API Client is required for the consumption of the Digital Services API’s. API key is Dynamically issued to the API client via AWS secrets manaer as part of the Digital Access and Security (DSL) solution. | | | | apiKey |
| baseSiteId | Y | | Base site identifier | | | | String |
| bonusbuycode | Y | | Code identifier | | | | String |
| posName | N | | Store code | | | | String |
| userId | N | | Customer ID | | | | String |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
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| **Data Schemas** |
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| **Sample data** |
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## SCHY00061 Product Specials

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET /{baseSiteId}/products/specials | | | | | |
| **Description** | | Returns a list of special products and additional data, such as available facets, available sorting and pagination options.It can also include spelling suggestions. | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | Path | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| x-api-key (in header) | Y | | API Key per API Client is required for the consumption of the Digital Services API’s. API key is Dynamically issued to the API client via AWS secrets manaer as part of the Digital Access and Security (DSL) solution. | | | | apiKey |
| baseSiteId | Y | | Base site identifier | | | | String |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
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| **Data Schemas** |
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| **Sample data** |
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## SCHY00064 Get Household Promotions

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET [/{baseSiteId}/users/{userId}/offers](https://rewardsapi.qa.shopritelabs.co.za/shopritewebservices/v2/swagger-ui.html#/operations/Users/getPersonalisedProductOffers) | | | | | |
| **Description** | | Get a member’s personalized promotions for their default store with the product details and pricing.  When a customer dose not have a preferred store set against their profile, the SAP Commerce system will default to the “Mall of the North” for all customers. The parameter will still b available should DLS have the customers preferred store they should pass it. | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | PATH | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| x-api-key (in header) | Y | | API Key per API Client is required for the consumption of the Digital Services API’s. API key is Dynamically issued to the API client via AWS secrets manaer as part of the Digital Access and Security (DSL) solution. | | | | apiKey |
| userId | Y | | Unique identifier for a Customer | | | | String |
| baseSiteId | Y | | Base site Identifier | | | | String |
| posName | N | | Unique identifier of the preferred store | | | | String |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
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| **Data Schemas** |
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| **Sample data** |
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## SCHY00098 Get Product For List

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET/{baseSiteId}/products/offers | | | | | |
| **Description** | | Accepts either a list of products, or a list of Bonus Buys, and returns enriched data for the given input. | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | Path | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| baseSiteId | Y | | Base site identifier | | | | String |
| productCodes | Y | | String containing the product codes | | | | String |
| bonusBuyCodes | Y | | String containing the bonus buy codes | | | | String |
| fields | Y | | This parameter will determine the list of attributes that should be returned in the response body. | | | | String |
| posName | N | | Used for price calculations (Optional) | | | | String |
| userId | N | | Used to retrieve personalized information (Optional) | | | | String |
|  |  | | **Note** - *productCodes* and *bonusBuyCodes* can't be used at the same time. At least one of them should be present in the request. | | | |  |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
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| **Data Schemas** |
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| **Sample data** |
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## SCHY00111 - Products Search V2

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| **Operation Details: SCHY00111 - Products Search V2** |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Operation Name** | | GET /{baseSiteId}/products/search/v2 | | | | | |
| **Request format** | | JSON | | | **Response format** | JSON | |
| **Input parameters** | | | | | | | |
| **How must the input parameter be passed?** | | | | Header | | | |
| **Name** | **Mandatory(Y/N)** | | **Description** | | | | **Data Type** |
| baseSiteId | Y | | Base site for the request (CheckersZA or ShopriteZA) | | | | String |
| posName | One Is mandatory | | Store number | | | | String |
| posAlpha | Store number (New Alpha code) | | | | String |
| productCode | Only One Is Mandatory based on the scenario is called for | | Product Code In commerce | | | | String |
| barcode | Bar code for the product | | | | String |
| query | This is a query parameter can be used for free text and facet based searches | | | | String |
| currentPage | N | | Indicates the page number you want the response for to be used for Query parameter as multiple products will be returned | | | | INT |
| **Output parameters** | | | | | | | |
| **Name** | **Description** | | | | | | **Data Type** |
| products | Object | | | | | | Object |
| productId | Product code | | | | | | String |
| articleId | Article code from ERP | | | | | | String |
| uom | Unit of measure | | | | | | String |
| name | Product Name | | | | | | String |
| description | Description of the product | | | | | | String |
| summary | Summary for the product | | | | | | String |
| productType | Product type code | | | | | | String |
| keywords | Key words configured for the product | | | | | | String |
| tags | Lists the tags applied to the product | | | | | | String |
| brand | List the brand configured for the product (product Brand Koo) | | | | | | String |
| classifications | Lists all the classification and attributes applied to the product | | | | | | Array |
| + name | Name of the Attribute | | | | | | String |
| + value | Value for the attribute | | | | | | String |
| + classificationClass | Class for the attribute | | | | | | String |
| enhancementAttributes | Attributes for enhancement | | | | | | String |
| weight | Product weight | | | | | | Int |
| weightRanges | Weight ranges for weighted iteams | | | | | | String |
| maxOrderQuantity | Max number of products per order | | | | | | Int |
| packagingHeight | Packaging height | | | | | | Int |
| packagingWidth | Packaging Width | | | | | | Int |
| packagingLength | Packaging length | | | | | | Int |
| productRelations | Array | | | | | | Array |
| + type | Product type of relation | | | | | | String |
| + product | Product code that is related | | | | | | String |
| modelNumber | Model number for the product | | | | | | String |
| manufacturerUrl | Link to the manufacturer URL (Site) | | | | | | String |
| boxContent | Whats in the box | | | | | | String |
| customerReviews | Customer reviews of the product if captured | | | | | | String |
| itemStatus | Arry | | | | | | Array |
| + enhancementStatus | Ehancment statu for the product | | | | | | String |
| + approvalStatus | Approval status for the product | | | | | | String |
| + fullyCovered | Indicates if its full enriched | | | | | | Boolean |
| + coreCovered | Indicates if the base information is captured | | | | | | Boolean |
| + erpProductType | Product type from ERP | | | | | | String |
| + archived | Indicates if the product is archived or not | | | | | | Boolean |
| + archivedDate | Gives the date that the product was archived | | | | | | String |
| + restoreDate | Indicates the date the product was restored | | | | | | String |
| barcode | Main barcode of the product | | | | | | String |
| secondaryBarcode | Lists the secondary barcodes comma separated | | | | | | String |
| includedInSPA | Array | | | | | | Array |
| + jobNumber | SPA number the product is included in | | | | | | String |
| + opPromoNumber | Operation number for the promo the product is included in | | | | | | String |
| + startDate | Start Date for the SPA | | | | | | String |
| + endDate | End Date for the SPA | | | | | | String |
| baseProduct | Gives the base product code if the product sent is a variant | | | | | | String |
| variantType | Gives the variant type for the product | | | | | | String |
| embedLink | Give the link to any document that is saved on the product | | | | | | String |
| media | Object | | | | | | Object |
| + images | Array | | | | | | Array |
| ++ url | URL for the image (dynamic) | | | | | | String |
| ++ webpUrl | URL for the image in Web P format (Dynamic) | | | | | | String |
| ++ staticUrl | URL for the Image in png but as a static link | | | | | | String |
| ++ altText | Text for the Image | | | | | | String |
| ++ mimeTyp | File type for the Image | | | | | | String |
| ++ fileName | Name of the image | | | | | | String |
| + primaryClassificationImage | Array Gives the primary classification image for the product | | | | | | Array |
| ++ url | URL for the Primary image (Dynamic) | | | | | | String |
| ++ webpUrl | URL for the image in Web P format (Dynamic) | | | | | | String |
| ++ staticUrl | URL for the Image in png but as a static link | | | | | | String |
| ++ altText | Text for the Image | | | | | | String |
| ++ mimeTyp | File type | | | | | | String |
| ++ fileName | File name | | | | | | String |
| + pickerClassificationImage | Array Gives the picker classification image for the product | | | | | | Array |
| ++ url | URL for the picker image (Dynamic) | | | | | | String |
| ++ webpUrl | URL for the image in Web P format (Dynamic) | | | | | | String |
| ++ staticUrl | URL for the Image in png but as a static link | | | | | | String |
| ++ altText | Text for the Image | | | | | | String |
| ++ mimeTyp | File type | | | | | | String |
| ++ fileName | File name | | | | | | String |
| + brandLogo | Array For the brand logo image | | | | | | Array |
| ++ url | URL for the brand logo image (Dynamic) | | | | | | String |
| ++ webpUrl | URL for the image in Web P format (Dynamic) | | | | | | String |
| ++ staticUrl | URL for the Image in png but as a static link | | | | | | String |
| ++ altText | Text for the Image | | | | | | String |
| ++ mimeTyp | File type | | | | | | String |
| ++ fileName | File name | | | | | | String |
| + inBoxImage | Array For the in box image | | | | | | Array |
| ++ url | URL for the brand logo image (Dynamic) | | | | | | String |
| ++ webpUrl | URL for the image in Web P format (Dynamic) | | | | | | String |
| ++ staticUrl | URL for the Image in png but as a static link | | | | | | String |
| ++ altText | Text for the Image | | | | | | String |
| ++ mimeTyp | File type | | | | | | String |
| ++ fileName | File name | | | | | | String |
| + additionalImage | Array For the additional image | | | | | | Array |
| ++ url | URL for the brand logo image (Dynamic) | | | | | | String |
| ++ webpUrl | URL for the image in Web P format (Dynamic) | | | | | | String |
| ++ staticUrl | URL for the Image in png but as a static link | | | | | | String |
| ++ altText | Text for the Image | | | | | | String |
| ++ mimeTyp | File type | | | | | | String |
| ++ fileName | File name | | | | | | String |
| + additionalImageB | Array For the additional B image | | | | | | Array |
| ++ url | URL for the brand logo image (Dynamic) | | | | | | String |
| ++ webpUrl | URL for the image in Web P format (Dynamic) | | | | | | String |
| ++ staticUrl | URL for the Image in png but as a static link | | | | | | String |
| ++ altText | Text for the Image | | | | | | String |
| ++ mimeTyp | File type | | | | | | String |
| ++ fileName | File name | | | | | | String |
| + videoUrl | URL For Imbedded video | | | | | | String |
| + documentUrl | URL for Document links | | | | | | String |
| + outOfBoxImage | Array For the out of box image | | | | | | Array |
| ++ url | URL for the brand logo image (Dynamic) | | | | | | String |
| ++ webpUrl | URL for the image in Web P format (Dynamic) | | | | | | String |
| ++ staticUrl | URL for the Image in png but as a static link | | | | | | String |
| ++ altText | Text for the Image | | | | | | String |
| ++ mimeTyp | File type | | | | | | String |
| ++ filename | File name | | | | | | String |
| categories | Array For Categories | | | | | | Array |
| + commerceCategories | Commerce Display Category list | | | | | | Array |
| ++ id | ID for the category | | | | | | String |
| ++ name | Name of the category | | | | | | String |
| ++ mainCategory | Is the main category | | | | | | String |
| ++ superCategories | Array for the supercategories | | | | | | String |
| + erpCategories | Indicates if this is an ERP category | | | | | | Boolean |
| ++ id | ID for the category | | | | | | String |
| ++ name | Name of the category | | | | | | String |
| ++ mainCategory | Is the main category | | | | | | String |
| ++ superCategories | Array for the supercategories | | | | | | String |
| grossWeight | Gives the gross weight for the product | | | | | | INT |
| productAvailability | Array for product availability | | | | | | Array |
| + brands | Lsits the store brands where the product is ranged | | | | | | String |
| externalProductDisplayCategory | This is the external discply category for the product (Coming from Sixt60) | | | | | | String |
| bonusBuys | Object | | | | | | Object |
| code | Bonus buy Code | | | | | | String |
| promotionId | Promo ID for the BB (Lpro Code) | | | | | | String |
| name | Description of the bb | | | | | | String |
| detail | Long Text of the BB | | | | | | String |
| allowedMembers | Gives the allowed members of the BB | | | | | | String |
| targetedOfferType | Gives the Targeted offer type for the BB | | | | | | String |
| discountType | Gives the discount type for the BB | | | | | | String |
| discountValue | Gives the discount value for the BB | | | | | | String |
| dateStart | Start date for the BB | | | | | | String |
| dateEnd | End date for the BB | | | | | | String |
| image | BB specific image to be used if set | | | | | | String |
| productImage | Gives the product image if there is no BB sepsfic image | | | | | | String |
| stores | Store List of Strings (Old) | | | | | | String |
| alphaSite | Store List of strings (New Alpha) | | | | | | String |
| sourceHeader | ERP Header text | | | | | | String |
| sourceLongText | ERP Long Text | | | | | | String |
| redemptionLimitMaximum | Limit on the redemption of the bb | | | | | | String |
| redemptionLimitScope | Limit on the redemption scope (Apply once, apply once for every 2) | | | | | | String |
| active | Indicates if active | | | | | | Boolean |
| products | Lists the products included in the BB | | | | | | String |
| rewardProducts | Lists the reward products included in the BB | | | | | |  |
| channelSpecificPromotions | Array | | | | | | Array |
| + All | Indicates if the BB is for all | | | | | | String |
| + InStore | Indicates if the BB is for Only instore | | | | | | String |
| + sixty60 | Indicates if the BB is for Only for Sixty60 | | | | | | String |
| + checkersFoodServices | Indicates if the BB is for Checkers foods | | | | | | String |
| +liquorShop | Indicates if the BB is for Liquorshop only | | | | | | String |
| +petShopScience | Indicates if the BB is for Petshopr only | | | | | | String |
| bonusBuyAvailability | Array | | | | | | Array |
| + baseStores | List of strings containing the base stores that are set on the bb | | | | | | String |
| + brands | List of strings containing the brands of the stores that are assigned to the bb | | | | | | String |
| + erpDivisions | List of strings Containing the ERP Devision codes from the stores that are assigned to the bb | | | | | | String |
| priceData | Object | | | | | | Object |
| + currencyIso | Currecy code for the Price | | | | | | String |
| + value | Value for the Price | | | | | | INT |
| + formattedValue | Formatted price with “R” | | | | | | String |
| + startDate | Start Date for the Price | | | | | | String |
| + endDate | End Date for the Price | | | | | | String |
| + isPromoPrice | Indicates if the price is promotional | | | | | | Boolean |
| sourceData | Array | | | | | | Array |
| +sourceVitality | Source Vitality Indicator | | | | | | Boolean |

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| **Data Schemas** |
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| **Sample data** |
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| **NOTE** |
| The following will be required at runtime:  a) Channel encryption is required (https), payload encryption is preferred. b) Provide the following in the https header:  \* ContractID=Layer7 API Gateway Contract ID c) Also provide the AD service account details (of the consuming application) in the authorization request-header field:  \* AD Username  \* AD Password d) For Confidential and Critical services Layer7 API Gateway will ensure that the service account belongs to the AD group above before access is granted to these services. |

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| **AWS API Gateway Runtime Governance** | | |
| **Item** | **Y/N** | **Description / Comment** |
| **Deployment** | | |
| **Is this a public or private facing API?** | Public | Public |
| **Is this a Regional API?** | Yes | Could be hosted in different region from the accessing call |
| **Is this an Edge-Optimised API?** | No |  |
| **Authentication and Authorisation** | | |
| **Does the API require an API key?** | Yes |  |
| **Is the API key statically issued, or accessed via AWS Secret Manager + IAM role?** | Yes | API Key is statically issued. Note: such keys are only issued to solutions which are hosted in Shoprite AWS accounts. |
| **Does the API use Resource Policies?** | Yes | Private APIs require resource policies. The resource policy must include, at minimum:   1. AWS Account 2. Source VPC   VPC endpoints |
| **Does the API use Standard AWS IAM roles and policies?** | Yes | TBD – roles and policies must be defined the context of the API consumer. |
| **How must API Gateway API authorise the end-user of the calling application?** | N/A | N/A |
| **Does the API use Lambda authorizers?** | No | N/A |
| **Does the API use Amazon Cognito user pools?** | No | N/A |
| **Does the API require a client-side SSL certificate to authenticate against a back-end service?** | No |  |
| **Data Volumes, Performance and Availability** | | |
| **Are usage plans (e.g. throttling and request quota limits) set per API key?** | Yes | Based per consumer of the API Key- API usage plans are defined against the api key of the api client. |
| **What is the expected throughput rate?** | 135 Tps | 135 Tps |
| **What is the expected burst rate?** | 1000 Tps | 1000 Tps |
| **When is the expected burst rate expected to be incurred?** |  | High load events Ie: Black friday |
| **Limit the service availability to a time or day period?** | No | Restrict service availability by Time of Day or Day of Week or both |
| **Caching required?** | No | Store response values in cache for faster access of static data? |
| **Logging and auditing** | | |
| **Is logging and/or auditing required for the API?** | Yes | API Gateway logging will result in AWS CloudWatch logs |
| **Are alerts required for the API?** | Yes | CloudWatch Alarms monitor API Gateway and StepFunctions for Code 500 errors and sends an email to  the digital@shoprite.co.za group when errors occur. |
| **How will sensitive data be protected on logs and audit events?** | Yes | In relation to the POPI agreement. |
| **Runtime Security** | | |
| **Require SSL or TLS Transport with Client Authentication?(HTTP/HTTPS)** | Yes | Note: HTTPS is enabled by default on AWS API Gateway |
| **Restrict Access to the following IP address range** | Yes | As per the resource policy for the private API. |
| **Apply threat protection on service request/response?** | No | Straight pass through |
|  | No | Signature Version 4 Signing of API requests |
|  | No | JSON document structure threats |
|  | No | JSON schema validation |
|  | Yes/No | Message replay attacks and ensuring that RESTful HTTP methods of GET, PUT, DELETE, HEAD, OPTIONS and TRACE are independant. Throttling will be based on API gateway. |
|  | No | Validation of Identity or Access token(s) Signed element Timestamp elements (generated, expiry) Issued by element (IdP) Validate directly against IdP |
|  | Yes | Is Cross-origin resource sharing (CORS) enabled for the API? |

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| **Note: Considerations for Controlling Access to an API in AWS API Gateway:** |
| \* Control Access to an API with Amazon API Gateway Resource Policies  https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-resource-policies.html  \* Control Access to an API with IAM Permissions  https://docs.aws.amazon.com/apigateway/latest/developerguide/permissions.html  \* Enable CORS for an API Gateway Resource  https://docs.aws.amazon.com/apigateway/latest/developerguide/how-to-cors.html  \* Use API Gateway Lambda Authorizers  https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-use-lambda-authorizer.html  \* Use Amazon Cognito User Pools  https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-integrate-with-cognito.html  \* Use Client-Side SSL Certificates for Authentication by the Backend  https://docs.aws.amazon.com/apigateway/latest/developerguide/getting-started-client-side-ssl-authentication.html  \* Create and Use Usage Plans with API Keys  https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-api-usage-plans.html |

# Appendix B – Security Classification

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| **Classification** | **Description** | **Examples** |
| **Public** | Non-sensitive information available for external release, including: \* data, which is considered to have value but which possess no risk of unauthorised disclosure; \* data, which is not critical to operations; and \* Information that would not provide a business or competitive advantage and is routinely made available to interested members of the general public. | \* marketing brochures; \* the public web site; \* advertising media; \* annual reports; and \* Product and services brochures |
| **Private** | **Information that is only sensitive outside Shoprite Checkers. This information is generally available to all employees and approved non-employees for business purposes only** | \* the Intranet; \* business plans; \* organisational charts; \* internal telephone listings; and \* Shoprite Checkers’ policies, standards and procedures. |
| **Confidential** | **Information within Shoprite Checkers that is sensitive to internal and external exposure and is intended for business use only by specific groups and users..** | \* customer information; \* supplier information; \* technology strategies; and \* Security, personnel, payroll data and accounting information. |
| **Critical** | **Information that is extremely sensitive, of the highest value to Shoprite Checkers and intended for use by named individual(s) only. This data is considered imperative to the ongoing operations of Shoprite Checkers. Strict rules must be adhered to in the usage of this data** | \* secret contracts; \* pre-announced merger & acquisition information; \* legal data; \* Strategic direction and initiatives. \* PCI specific data |

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| **NOTE** |
| Requirement for all Confidential, Private or Critical services Refer to the Shoprite Authentication Standards for guidelines:  http://pulse.shoprite.co.za/Dept/IT/EA/EA%20Governance/EA%20Standards%20and%20Guidelines/Integration/Shoprite%20authentication%20standards%20v1.1.docx  The following will be required at runtime: a) Data in transit must be secured according to Shoprite approved security standards. E.g. HTTPS, TLS. b) Payload encryption is preferred for data in transit. E.g. PGP, AES. |

# Appendix C – Real-time vs Batch

*(Delete this section when decision has been made)*

The following explanation is useful to determine requirements for this interface. Extracted from   
http://stackoverflow.com/questions/5267231/what-is-the-definition-of-realtime-near-realtime-and-batch-give-examples-of-ea

## Real-Time

Real-time means that the time of an activity's completion is part of its functional correctness. For example, the sqrt() function's correctness is something like

The sqrt() function is implemented correctly if, for all x >=0, sqrt(x) = y implies y^2 == x.

In this setting, the time it takes to execute the sqrt() procedure is not part of its functional correctness. A faster algorithm may be better in some qualitative sense, but no more or less correct.

Suppose we have a mythical function called sqrtrt(), a real-time version of square root. Imagine, for instance, we need to compute the square root of velocity in order to properly execute the next brake application in an anti-lock braking system. In this setting, we might say instead:

The sqrtrt() function is implemented correctly if  
1. for all x >=0, sqrtrt(x) = y implies y^2 == x and  
2. sqrtrt() returns a result in <= 275 microseconds.

In this case, the time constraint is not merely a performance parameter. If sqrtrt() fails to complete in 275 microseconds, you may be late applying the brakes, triggering either a skid or reduced braking efficiency, possibly resulting in an accident. The time constraint is part of the functional correctness of the routine. Lift this up a few layers and you get a real-time system as one (at least partially) composed of activities that have timeliness as part of their functional correctness conditions.

## Near Real-Time

A near real-time system is one in which activities completion times, responsiveness, or perceived latency when measured against wall clock time are important aspects of system quality. The canonical example of this is a stock ticker system -- you want to get quotes reasonably quickly after the price changes. For most of us non-high-speed-traders, what this means is that the perceived delay between data being available and our seeing it is negligible.

The difference between 'real-time' and 'near real-time' is both a difference in precision and magnitude. Real-time systems have time constraints that range from microseconds to hours, but those time constraints tend to be fairly precise. Near-real-time usually implies a narrower range of magnitudes -- within human perception tolerances -- but typically isn’t articulated precisely.

I would claim that near-real-time systems could be called real-time systems, but that their time constraints are merely probabilistic:

The stock price will be displayed to the user within 500ms of its change at the exchange, with probability p > 0.75.

## Batch

Batch operations are those which are perceived to be large blocks of computing tasks with only macroscopic, human- or process-induced deadlines. The specific context of computation is typically not important, and a batch computation is usually a self-contained computational task. Real-time and near-real-time tasks are often strongly coupled to the physical world, and their time constraints emerge from demands from physical/real-world interactions. Batch operations, by contrast, could be computed at any time and at any place; their outputs are solely defined by the inputs provided when the batch is defined.

## Original Post

I would say that real-time means that the time (rather than merely the correct output) to complete an operation is part of its correctness.

Near real-time is weasel words for wanting the same thing as real-time but not wanting to go to the discipline/effort/cost to guarantee it.

Batch is 'near real-time' where you are even more tolerant of long response times.

Often these terms are used (badly, IMHO) to distinguish among human perceptions of latency/performance. People think real-time is real-fast, e.g., milliseconds or something. Near real-time is often seconds or milliseconds. Batch is a latency of seconds, minutes, hours, or even days. But I think those aren't particularly useful distinctions. If you care about timeliness, there are disciplines to help you get that.

# Appendix D – Security Descriptions

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| **Runtime Security** | **Description** |
| Code Injection | Provides basic threat protection against attacks on web applications by blocking malicious code injection |
| Cross-Site request forgery | The Protect Against Cross-Site Request Forgery Assertion helps detect and prevent CSRF (Cross-Site Request Forgery) attacks |
| JSON Document Structure Threats | Enable protection against JSON document structure threats such as oversized arrays and overdeep nesting. |
| Message replay | Protect against replay of messages. By default the message must contain a WSS signed timestamp; if a signed wsa:MessageID is also present the MessageID value will be asserted unique; otherwise the timestamp's Created date is used. If custom protection is used then a context variable will be asserted unique within a specified scope. |
| SQL Attacks | Helps prevent malicious code injection and common SQL injection attacks by blocking common SQL exploits from reaching protected web services. |
| XML Documents Structure Threats | Enable protection against oversized nodes, overdeep nesting, and trailers. |
| **Validate:** | |
| JSON Schema | Validate structure, properties and values of JSON data against a JSON Schema |
| OData Request | Validate OData request against Service Metadata Document |
| XML Schema | Schema Validation can be used to protect against the following threats: (1)XML Parameter Tampering - Validates all XML parameters in the request to ensure conformance to the Schema (2)XDoS Attacks - Ensures that the message structure and content are correct |
| **XML Security:** | |
| Check results from XML verification(Non-SOAP) | Check the results of verifying a non-SOAP XML signature to see if expected elements were signed. This does not require a SOAP Envelope. This requires context variables from a Non-SOAP XML Verify assertion (but does not examine or produce WS-Security processor results). The XPath should match the elements which are expected to have been signed. |
| Decrypt XML Element(Non-SOAP) | Immediately decrypt one or more elements of the message. This does not require a SOAP Envelope and does not examine or produce WS-Security processor results. Instead, this assertion changes the target message immediately. The XPath should match the EncryptedData elements which are to be decrypted. |
| Encrypt XML Element(Non-SOAP) | Immediately encrypt one or more elements of the message. This does not require a SOAP Envelope and does not accumulate WS-Security decoration requirements. Instead, this assertion changes the target message immediately. |