DG CONNECT

AIAV

Technical Specifications

March 2016

Contents

DG CONNECT Technical Specifications

Overview

This document aims to provide technical background for Clients of Digital Glue whose development teams will be integrating an existing Web Application with Digital Glue via DG CONNECT.

DG CONNECT is to be used as an avenue for a Client Web Application to retrieve a list of Product Offerings to be exposed on the Client Web Application, from which the Client User will make a selection to pass back an Order from this list, to Digital Glue. Other services offered include, checking the status of an Order and Cancelling an Order.

DG CONNECT Web API JSON web services adheres to the RESTful API standards. The following sections in this document describe the HTTP service areas exposed.

Process Flow
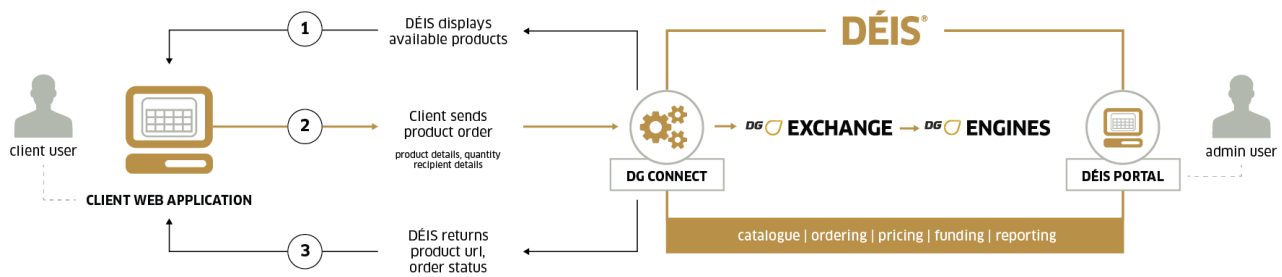
At a high level, a Client Web Application will use DG CONNECT to:

- Firstly retrieve a Catalogue of available Products to display to a user of the Web Application.
  - https://<domain>/api/v1/catalogue
- Response(s) will contain details of the Supplier and Products. Further details are found in:
  - https://<domain>/api/v1/supplier
  - https://<domain>/api/v1/supplier?code={code}
- Selecting Product(s) will trigger the creation of an Order to Digital Glue via DG CONNECT.
  - https://<domain>/api/v1/Order
- Digital Glue will the respond with the Product details
- The Client Web Application can check the status of the Order once an Order is created.
  - https://<domain>/api/v1/order?orderReferenceNumber={orderReferenceNumber}
- The Client Web Application can cancel the Order once an Order is created, but before it has been processed.
  - https://<domain>/api/v1/CancelOrder

1 Catalogue

Service area for retrieving API connector's product catalogue.

This service is to be used to display the available products to the Web Application. For a more detailed response, please use the Supplier Services.

Resource: https://<domain>/api/v1/catalogue

Method: GET

Request/Response Format: application/json, text/json

Service Authentication: HTTP basic auth over HTTPS (username, password)

1.1 Get all Product Catalogue

1.1.1 Request Contract

<none>

1.2.1 Response Contract : ServiceResponse

Field Name	Data Type	Comment
Result	String	See ResponseResult for possible return values
Response	CatalogueResponse	See CatalogueResponse type
Errors	Array of strings	Errors will exist if service result is anything but successful.

1.2.1.1 Result : ResponseResult

Response result containing API service call status

Value	Name	Description
0	Success	API service call successful
1	Failed	API service call failed, see Errors property in ServiceResponse for error details
2	InvalidRequest	Invalid service request argument error, see Errors property in ServiceResponse for error details

1.2.1.2 Response : CatalogueResponse

Actual service response data containing the array of the CatalogueResponse complex data

Field Name	Data Type	Comment
DigitalVouchers	Array of DigitalVoucherResponse	See DigitalVoucherResponse complex type
DigitalStoreCards	Array of DigitalStoreCardResponse	See DigitalStoreCardResponse complex type
Physicals	Array of PhysicalResponse	See PhysicalResponse complex type

Payments	Array of PaymentResponse	See PaymentResponse complex type

1.2.1.2.1 DigitalVoucherProductResponse – complex type
Complex object detailing the digital voucher catalogue response details

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	Unique product SKU number
AvailableQuantity	Int		Available stock quantity
PurchasedQuantity	Int		Total ordered stock quantity
ProductName	String	100 max	Short description of product
ProductDescription	String	800 max	Long description of product
ProductValue	Double	(18, 2)	Face value amount of product, only applicable if IsFixedValue is true
SupplierCode	String	10 max	Unique Supplier code
ValidityPeriod	String	300 max	Description of general validity period
IsFixedValue	Boolean		Indicates if product has an associated fixed face value amount
TermsAndConditions	String		Product terms and conditions
IsActive	Boolean		Flag indicating whether product is still active
IsPresetExpiry	Boolean		Flag indicating whether product has a pre-existing expiry date
ProductThumbnailUrl	String	300 max	Url link of product thumbnail image
VariableMinValue	Int		For variable products only, minimum value of the product
VariableMaxValue	Int		For variable products only, maximum value of the product
Categories	Array		List of custom categories set for the product
Identifier	int		Unique Product Identifier
Language	string	100 max	Product Language

1.2.1.2.2 DigitalStoreCardProductResponse – complex type
Complex object detailing the digital store card catalogue response details

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	Unique product SKU number
AvailableFund	Decimal	(18, 2)	Available fund amount
PurchasedFund	Decimal	(18, 2)	Total ordered stock fund amount
ProductName	String	100 max	Short description of product
ProductDescription	String	800 max	Long description of product
IsFixedValue	Boolean		Indicates if product has an associated fixed face value amount

ProductValue	Double	(18, 2)	Face value amount of product, only applicable if IsFixedValue is true
SupplierCode	String	10 max	Unique Supplier code
TermsAndConditions	String		Product terms and conditions
ProductThumbnailUrl	String	300 max	Url link of product thumbnail image
IsPresetExpiry	Boolean		Flag indicating whether product has a pre-existing expiry date
IsActive	Boolean		Flag indicating whether product is still active
ValidityPeriod	String	300 max	Description of general validity period
VariableMinValue	Int		For variable products only, minimum value of the product
VariableMaxValue	Int		For variable products only, maximum value of the product
Categories	Array		List of custom categories set for the product
Identifier	int		Unique Product Identifier
Language	string	100 max	Product Language

1.2.1.2.3 PhysicalProductResponse – complex type
Complex object detailing the Physical catalogue response details

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	Unique product SKU number
AvailableQuantity	Int		Available stock quantity
PurchasedQuantity	Int		Total ordered stock quantity
ProductName	String	100 max	Short description of product
ProductDescription	String	800 max	Long description of product
IsFixedValue	Boolean		Indicates if product has an associated fixed face value amount
ProductValue	Double	(18, 2)	Face value amount of product, only applicable if IsFixedValue is true
SupplierCode	String	10 max	Unique Supplier code
TermsAndConditions	String		Product terms and conditions
ProductThumbnailUrl	String	300 max	Url link of product thumbnail image
IsPresetExpiry	Boolean		Flag indicating whether product has a pre-existing expiry date
IsActive	Boolean		Flag indicating whether product is still active
ValidityPeriod	String	300 max	Description of general validity period
VariableMinValue	Int		For variable products only, minimum value of the product
VariableMaxValue	Int		For variable products only, maximum value of the product
Categories	Array		List of custom categories set for the product

Identifier	int		Unique Product Identifier
Language	string	100 max	Product Language

1.2.1.2.4 PaymentProductResponse – complex type

Complex object detailing the Payment catalogue response details

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	Unique product SKU number
AvailableFund	Decimal	(18, 2)	Available fund amount
PurchasedFund	Decimal	(18, 2)	Total ordered stock fund amount
ProductName	String	100 max	Short description of product
ProductDescription	String	800 max	Long description of product
SupplierCode	String	10 max	Unique Supplier code
IsFixedValue	Boolean		Indicates if product has an associated fixed face value amount
ProductValue	Decimal		Face value amount of product, only applicable if IsFixedValue is true
RequiredDetails	Array of PaymentRequiredData objects		Payment product type requires payment details when submitting payment order item. The collection of the PaymentRequiredData will detail the required PaymentData data contract when defining the payment order item request. See PaymentRequiredData complex data type
TermsAndConditions	String		Product terms and conditions
ProductThumbnailUrl	String	300 max	Url link of product thumbnail image
IsPresetExpiry	Boolean		Flag indicating whether product has a pre-existing expiry date
IsActive	Boolean		Flag indicating whether product is still active
ValidityPeriod	String	300 max	Description of general validity period
VariableMinValue	Int		For variable products only, minimum value of the product
VariableMaxValue	Int		For variable products only, maximum value of the product
Categories	Array		List of custom categories set for the product
Identifier	int		Unique Product Identifier
Language	string	100 max	Product Language

1.2.1.2.4.1 PaymentRequiredData – complex type

Payment product meta data that are required when submitting a payment order item for associated payment product SKU.

Field Name	Data Type	Data Length	Comment
Key	String	50 max	Meta data Key
ValueType	String		Meta data value type, possible value:

			• Int – integer type • Decimal – decimal value type • String – string value type
ValueMaxLength	Int		Meta data value maximum length
DataDescription	String	100 max	Description of the meta data

2 Supplier

Service area for retrieving product supplier details

This service will provide a more detailed response of Product details

2.1 Get ALL

Resource:	https://<domain>/api/v1/supplier
Method:	GET
Request/Response Format:	application/json, text/json
Service Authentication:	HTTP basic auth over HTTPS (username, password)

2.1.1 Request Contract
<None>

2.1.2 Response Contract : ServiceResponse

Field Name	Data Type	Comment
Result	String	See ResponseResult for possible return values
Response	Suppliers	Array of SupplierResponse complex data type
Errors	Array of strings	Errors will exist if service result is anything but successful.

2.1.2.1 Result : ResponseResult
Response result contain API service call status

Value	Name	Description
0	Success	API service call successful
1	Failed	API service call failed, see Errors property in ServiceResponse for error details
2	InvalidRequest	Invalid service request argument error, see Errors property in ServiceResponse for error details

2.1.2.2 SupplierResponse – complex type
Actual service response data containing the array of the Supplier complex data

Field Name	Data Type	Data Length	Comment
Code	String	10 max	Supplier unique code
Name	String	100 max	Supplier common name
Description	String	800 max	Description of supplier
ShortTermsAndConditionsUrl	String	300 max	Url link of short terms and conditions
LongTermsAndConditions	String		Long description of the Terms and Conditions
ThumbnailUrl	String	300 max	Url link of the supplier thumbnail image

Categories	Array of strings		DG supplier category classification(s)

2.2 Get by Supplier code

Resource:	https://<domain>/api/v1/supplier?code={code}
Method:	GET
Request/Response Format:	application/json, text/json
Service Authentication:	HTTP basic auth over HTTPS (username, password)

2.2.1 Request Contract

Single query parameter of Supplier Code. This code can be found as part of the 'Catalogue' service response:

> code={code}

2.2.2 Response Contract : ServiceResponse

Field Name	Data Type	Comment
Result	String	See ResponseResult for possible return values
Response	Suppliers	Array of SupplierResponse complex data type
Errors	Array of strings	Errors will exist if service result is anything but successful.

2.2.2.1 Result : ResponseResult

Response result contain API service call status

Value	Name	Description
0	Success	API service call successful
1	Failed	API service call failed, see Errors property in ServiceResponse for error details
2	InvalidRequest	Invalid service request argument error, see Errors property in ServiceResponse for error details

2.1.2.2 Supplier – complex type

Actual service response data containing the array of the Supplier complex data

Same as section 2.1.2.2 SupplierResponse – complex type

3 Order

Service area that covers submitting orders and retrieve orders.

This service will create an Order of product(s) for a recipient.

Please note: An order can only contain a maximum of 100 order items, i.e. total order items within DigitalVoucherOrder, DigitalStoreCardOrder, PhysicalOrder and PaymentOrder cannot exceed 100 items.

3.1 Submit Order

Resource: https://<domain>/api/v1/Order

Method: POST

Request/Response Format: application/json, text/json

Service Authentication: HTTP basic auth over HTTPS (username, password)

3.1.1 Request Contract : OrderRequest

Field Name	Data Type	Data Length	Comment
OrderReferenceNumber	String	10 max	Caller unique order reference number
Recipient	Object		RecipientRequest, see complex data type
DigitalVoucherOrder	Object		DigitalVoucherOrderRequest, see complex data type
DigitalStoreCardOrder	Object		DigitalStoreCardOrderRequest, see complex data type
PhysicalOrder	Object		PhysicalOrderRequest, see complex data type
PaymentOrder	Object		PaymentOrderRequest, see complex data type

3.1.1.1 RecipientRequest – complex type

Field Name	Data Type	Data Length	Comment
Email	String	200 max	Recipient Email Address
FirstName	String	50 max	Recipient First Name
LastName	String	50 max	Recipient Last Name
MobileNumber	String	50 max	Recipient Mobile Number
PhoneNumber	String	50 max	Recipient Phone Number

3.1.1.2 DigitalVoucherOrderRequest – complex type
Digital voucher order request object that will contain all required voucher order items and any personalization details that will be applied to all ordered items.

Field Name	Data Type	Data Length	Comment
PersonalisationInfo	Object		GiftVoucherPersonalisationRequest, see complex data type
OrderItems	Array of VoucherItemRequest objects		Array of VoucherItemRequest, see complex data type

3.1.1.2.1 PersonalisationInfo : GiftVoucherPersonalisationRequest

Please be advised that not all products will have the ability to include Personalisation information.

Field Name	Data Type	Data Length	Comment
To	String	50 max	Usually used for intended Recipient Name
Message	String	100 max	Usually used for a personalization message for the recipient
From	String	50 max	Usually used as final distributing entity before it is received by the customer

3.1.1.2.2 OrderItem : VoucherItemRequest

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	Voucher type product SKU as provided from the Catalogue service call
Quantity	Int		Number of units required
Amount	Decimal	(18,2)	Face value of voucher
ReferenceNumber	String	50 max	Caller order item reference number, field is mandatory and will be returned as part of response to allow caller to cross reference within their system

3.1.1.3 DigitalStoreCardOrderRequest – complex type

Digital store card order request object that will contain all required store card order items and any personalization details that will be applied to all ordered items.

Field Name	Data Type	Data Length	Comment
PersonalisationInfo	Object		GiftVoucherPersonalisationRequest, see complex data type
OrderItems	Array of StoreCardItemRequest objects		Array of StoreCardItemRequest, see complex data type

3.1.1.3.1 PersonalisationInfo : GiftVoucherPersonalisationRequest

Please be advised that not all products will have the ability to include Personalisation information.

Field Name	Data Type	Data Length	Comment
To	String	50 max	Usually used for intended Recipient Name

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Field Name	Data Type	Data Length	Comment
Message	String	100 max	Usually used for a personalization message for the recipient
From	String	50 max	Usually used as final distributing entity before it is received by the customer

3.1.1.3.2 OrderItem : StoreCardItemRequest

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	DigitalStoreCard type product SKU as provided from the Catalogue service call
Amount	Decimal	(18,2)	Face value of store card
Quantity	Int		Number of units required
ReferenceNumber	String	50 max	Caller order item reference number, field is mandatory and will be returned as part of response to allow caller to cross reference within their system

3.1.1.4 PhysicalOrderRequest – complex type

Physical product order request object that will contain all required physical order items.

Field Name	Data Type	Data Length	Comment
ShipTo	AddressRequest object		Shipment address details, see AddressRequest complex data type
OrderItems	Array of PhysicalItemRequest objects		Array of PhysicalItemRequest, see complex data type

3.1.1.4.1 ShipTo : AddressRequest

Field Name	Data Type	Data Length	Comment
AddressLine1	String	50 max	Primary address field
AddressLine2	String (Optional)	50 max	Addition address details
Suburb	String	50 max	Suburb field
State	String	50 max	State field, e.g. NSW
Postcode	String	10 max	Postcode field, e.g. 2000
Country	String	50 max	Country field, e.g. Australia

3.1.1.4.2 OrderItem : PhysicalItemRequest

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	Physical product SKU as provided from the Catalogue service call

Quantity	Int		Number of units required
Amount	Decimal	(18,2)	Face value of physical item
ReferenceNumber	String	50 max	Caller order item reference number, field is mandatory and will be returned as part of response to allow caller to cross reference within their system

3.1.1.5 PaymentOrderRequest – complex type

Payment product order request object that will contain all required payment order items.

Field Name	Data Type	Data Length	Comment
OrderItems	Array of PhysicalItemRequest objects		Array of PhysicalItemRequest, see complex data type

3.1.1.5.1 OrderItem : PaymentItemRequest

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	Physical product SKU as provided from the Catalogue service call
Amount	Decimal	(18,2)	Face value of payment
ReferenceNumber	String	50 max	Caller order item reference number, field is mandatory and will be returned as part of response to allow caller to cross reference within their system
RequiredDetails	Array of PaymentItemDataRequest objects		Array of PaymentItemDataRequest required for the product SKU. Note, all required details are detailed in the response object returned as part of the get Catalogue service request.

3.1.1.5.1.1 PaymentItemDataRequest – complex type

Required request data when requesting for the payment order item. Please note that different payment product SKU requires different PaymentItemRequest data which can be found as part of the 'RequireData' in the Catalogue service call.

Field Name	Data Type	Data Length	Comment
Key	String	50 max	Specific payment SKU key indicator – as that returned from Catalogue service call.
Value	String	Please see comments.	Value of required payment SKU key. For max data length please refer to ValueMaxLength in section '1.2.1.2.4.1 PaymentRequiredData'

3.1.2 Response Contract : ServiceResponse

Field Name	Data Type	Comment
Result	String	See ResponseResult for possible return values
Response	OrderResponse object	OrderResponse object, see complex data type
Errors	Array of strings	Errors will exist if service result is anything but successful.

3.1.2.1 Result : ResponseResult

Response result contain API service call status

Value	Name	Description
0	Success	API service call successful
1	Failed	API service call failed, see Errors property in ServiceResponse for error details
2	InvalidRequest	Invalid service request argument error, see Errors property in ServiceResponse for error details

3.1.2.2 OrderResponse – complex type

Actual service response data containing OrderResponse complex data

Field Name	Data Type	Data Length	Comment
OrderReferenceNumber	String	10 max	Caller original order reference number as sent in order request
ReceivedOn	Datetime		Date time of when service had registered order. Date field will be returned as JSON datetime format
DigitalVoucherOrder	VoucherOrderResponse object		Array of all received voucher order items for original order. Data will not exist if no digital voucher order was originally submitted.
DigitalStoreCardOrder	Array of DigitalStoreCardOrderResponse objects		Array of all received store card order items for original order. Data will not exist if no digital store card order was originally submitted.
PhysicalOrder	Array of PhsycialOrderResponse objects		Array of all received physical order items for original order. Data will not exist if no Physical order was originally submitted.
PaymentOrder	Array of PaymentOrderResponse objects		Array of all received payment order items for original order. Data will not exist if no Payment order was originally submitted.
StatusCode	String		Returned order status: 000 – successful

			001 – pending
			002 - cancelled

3.1.2.2.1 VoucherOrderResponse – complex type

Complex data type containing array of acknowledged voucher ordered items.

Field Name	Data Type	Data Length	Comment
OrderItems	Array of VoucherItemResponse objects		Array of all received digital voucher order items for original order.

3.1.2.2.1.1 VoucherItemResponse – complex type

Voucher Item response details

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	Order item SKU number
Amount	Decimal	(18,2)	Original requested voucher face value
Quantity	Int		Original requested voucher quantity
StatusCode	String		Order status of voucher: 000 – successful 001 – pending 002 - cancelled
StatusMessage	String		Description of the order status if not successful
VoucherUrls	Array of string		Array of returned voucher URLs. No URL will be returned if StatusCode is not '000'
ReferenceNumber	String	50 max	Original caller order item reference number
ReceiptNumber	String	30 max	DG returned order item receipt number. This number should be noted for future order item enquires with DG
Metadata	Array of Metadata objects		Array of barcode, Pin, expirydate for product, if campaign is setup to view metadata
CostPerUnit	decimal	(18, 2)	Item discounted Cost per unit
RRPPerUnit	decimal	(18, 2)	Item RRP Cost per unit
IncludesGST	boolean		Product cost includes GST or not

3.1.2.2.1.1.1 VoucherBarcodeResponse – complex type

Field Name	Data Type	Data Length	Comment
Barcode	String	30	Barcode for Product
Pin	String	30	Pin for Product

ExpiryDate	DateTime		Expiry date of Product
BarcodeType	string	100	Barcode type of Product
Balance	decimal	(18, 2)	Balance of Product
LastBalanceCheckedDate	datetime		Last balance check date of Product
Status	string	100 max	Status of Product Barcode like Allocated PartiallyRedeemed Redeemed
LastStatusChangedDate	DateTime		Last status changed date of product

3.1.2.2.2 StoreCardOrderResponse – complex type
Complex data type containing array of acknowledged store card ordered items.

Field Name	Data Type	Data Length	Comment
OrderItems	Array of StoreCardItemResponse objects		Array of all received digital store card order items for original order.

3.1.2.2.2.1 StoreCardItemResponse – complex type

Store card Item response details

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	Ordered item SKU number
Amount	Decimal	(18,2)	Original requested store card face value
Quantity	Int		Original requested store card quantity
StatusCode	String		Order status of store card: 000 – successful 001 – pending 002 - cancelled
StatusMessage	String		Description of the order status if not successful
StoreCardUrls	Array of string		Array of returned store card URLs. No URL will be returned if StatusCode is not '000'
ReferenceNumber	String	50 max	Original caller order item reference number
ReceiptNumber	String	30 max	DG returned order item receipt number. This number should be noted for future order item enquires with DG
Metadata	Array of Metadata objects		Array of barcode, Pin, expirydate for product, if campaign is setup to view metadata
CostPerUnit	decimal	(18, 2)	Item discounted Cost per unit

| RRPPerUnit | decimal | (18, 2) | Item RRP Cost per unit |
| IncludesGST | boolean | | Product cost includes GST or not |

3.1.2.2.1.2.1 StoreCardBarcodeResponse – complex type

Field Name	Data Type	Data Length	Comment
Barcode	String	30	Barcode for Product
Pin	String	30	Pin for Product
ExpiryDate	Date		Expiry date of Product
BarcodeType	string	100	Barcode type of Product
Balance	decimal	(18, 2)	Balance of Product
LastBalanceCheckedDate	datetime		Last balance check date of Product
Status	string	100 max	Status of Product Barcode like Allocated PartiallyRedeemed Redeemed
LastStatusChangedDate	DateTime		Last status changed date of product

3.1.2.2.3 PhysicalOrderResponse – complex type
Complex data type containing array of acknowledged physical ordered items.

Field Name	Data Type	Data Length	Comment
OrderItems	Array of PhysicalItemResponse objects		Array of all received physical order items for original order.

3.1.2.2.3.1 PhysicalItemResponse – complex type

Physical Item response details

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	Ordered item SKU number
Amount	Decimal	(18,2)	Original requested face value
Quantity	Int		Original requested quantity
StatusCode	String		Order status: 000 – successful 001 – inprocess 002 – cancelled 003 - returned
StatusMessage	String		Description of the order status if not successful

ReferenceNumber	String	50 max	Original caller order item reference number
ReceiptNumber	String	30 max	DG returned order item receipt number. This number should be noted for future order item enquires with DG
TrackingUrl	String	250 max	Currier Tacking URL if supported and made available
TrackingNumber	String	100 max	Currier Tacking Number if supported and made available
SerialNumbers	String	300 max	Goods serial numbers if supported and made available. If goods comprised of multiple sub goods, multiple serial numbers will be provided separated by ','
CostPerUnit	decimal	(18, 2)	Item discounted Cost per unit
RRPPerUnit	decimal	(18, 2)	Item RRP Cost per unit
IncludesGST	boolean		Product cost includes GST or not

3.1.2.2.4 PaymentOrderResponse – complex type

Complex data type containing array of acknowledged payment ordered items.

Field Name	Data Type	Data Length	Comment
OrderItems	Array of PaymentItemResponse objects		Array of all received payment order items for original order.

3.1.2.2.4.1 PaymentItemResponse – complex type

Payment Item response details

Field Name	Data Type	Data Length	Comment
SKU	String	12 max	Ordered item SKU number
Amount	Decimal	(18,2)	Original payment face value
StatusCode	String		Order status: 000 – successful 001 – inprocess 002 - cancelled 003 - returned
StatusMessage	String		Description of the order status if not successful
ReferenceNumber	String	50 max	Original caller order item reference number
ReceiptNumber	String	30 max	DG returned order item receipt number. This number should be noted for future order item enquires with DG
CostPerUnit	decimal	(18, 2)	Item discounted Cost per unit

RRPPerUnit	decimal	(18, 2)	Item RRP Cost per unit
IncludesGST	boolean		Product cost includes GST or not

3.2 Get Order by Order Reference Number

This is an extension of the Order service, which will return the status of the Order

Resource: https://<domain>/api/v1/order?orderReferenceNumber={orderReferenceNumber}

Method: GET

Request/Response Format: application/json, text/json

Service Authentication: HTTP basic auth over HTTPS (username, password)

3.2.1 Request Contract
Single query parameter of caller Order Reference Number :

> orderReferenceNumber={orderReferenceNumber}

3.2.2 Response Contract : ServiceResponse
Same as that defined in section 3.1.2

4 CancelOrder

Service area that enables order and order item cancellation.

Please note, orders and order items can only be cancelled if orders have not yet been submitted to the Supplier, ie remain in 'Pending' status.

4.1 Cancel Order

Resource: https://<domain>/api/v1/CancelOrder

Method: POST

Request/Response Format: application/json, text/json

Service Authentication: HTTP basic auth over HTTPS (username, password)

4.1.1 Request Contract : CancelOrderRequest

Field Name	Data Type	Data Length	Comment
OrderReferenceNumber	String	10 max	Caller unique order reference number
ReceiptNumbers	Array of string		Array of order item 'ReceiptNumber's for cancellation. Each receipt number can only be maximum of 30 characters.

4.1.2 Response Contract : ServiceResponse

Field Name	Data Type	Comment
Result	String	See ResponseResult for possible return values
Response	CancelOrderResponse object	CancelOrderResponse object, see complex data type
Errors	Array of strings	Errors will exist if service result is anything but successful.

4.1.2.1 Result : ResponseResult

Response result contain API service call status

Value	Name	Description
0	Success	API service call successful
1	Failed	API service call failed, see Errors property in ServiceResponse for error details
2	InvalidRequest	Invalid service request argument error, see Errors property in ServiceResponse for error details

4.1.2.2 CancelOrderResponse – complex type

Actual service response data containing CancelOrderResponse complex data

Field Name	Data Type	Data Length	Comment
OrderReferenceNumber	String		Caller original order reference number as sent in order request
RequestedOrderedItemsResults	Array of CancelOrderItemResponse object		For each requested cancelled order item, result is detailed in the CancelOrderItemResponse complex type

4.1.2.2.1 CancelOrderItemResponse – complex type

Field Name	Data Type	Data Length	Comment
ReceiptNumber	String	30 max	Requesting order item Receipt Number
SKU	String	12 max	Product SKU number
StatusCode	String		000 – Success 001 – Failed 002 – Already Cancelled
StatusMessage	String		Description of Status message

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5 Order Status Change Notification Callback

DG CONNECT has the facility whereby a callback notification can be pushed back to the client program if any change in order status occurs. This will be useful for connected client program to be able to receive order status updates as and when it happens. For example, if an order was submitted and for some reason DG CONNECT was unable to fulfil some of the order items, these order items will be in a 'Pending' status and instead of getting the connected client program to periodically call DG CONNECT to retrieve order to see if 'Pending' order items have changed, DG CONNECT can simply push this notification back to the client program as and when the order item status has changed.

5.1 Order HTTP-POST Endpoint Notification Service – How it works

This callback notification service is simply a HTTP(S) request to a URL provided and implemented by the connected client program. DG CONNECT order data is relayed within the HTTP request body in JSON format and for security purposes client program is advised to enforce standard Basic Authentication check.

- **Notification Endpoint URL**: client program to provide and implement
- **Service Type**: HTTP POST
- **Request body**: JSON format – please refer to *section 3.1.2.2 (Order Response – complex type)* for message contract
- **Response body**: JSON format – should contain 'IsAcknowledged' flag, please refer to *section 5.1.2 (Order Endpoint Notification Response Contract)* for message contract

5.1.1 How to Receive Notification

For client programs to participate in this notification service, they must action the following:

1. Client must subscribe for the DG CONNECT Order HTTP Endpoint Notification Service in DG's DEIS client portal - DG project manager will be able to direct and assist with subscription set up. During the subscription, client will need to provide:
    a. HTTP(S)-POST endpoint URL
    b. Basic Authentication credentials: Username & Password
2. Client program must implement HTTP-POST endpoint preferably with Basic Authentication check accepting JSON request body.
    a. The JSON request body will contain DG CONNECT order details defined in *section 3.1.2.2 (Order Response – complex type)*. Client program can use these updated order item statuses within their program where they see fit.
3. Client program endpoint must respond with a successful HTTP Response Code (2xx) including a JSON message body acknowledging receipt of notification. Should no acknowledgement be returned, DG CONNECT will continue to send notifications.
    a. JSON response body that contain 'IsAcknowledged' flag should be set to 'true', please refer to *section 5.1.2 (Order Endpoint Notification Response Contract)* below.

5.1.2 Order Endpoint Notification Response Contract

Field Name	Data Type	Data Length	Comment
IsAcknowledged	Boolean		True indicates a successful acknowledgement

Sample: {IsAcknowledged="true"}

5.2 When will Notifications be Raised

Order notification will be raised to the subscriber endpoint for any of the following order item status changes:

- 'Pending' to 'Sent' – pending order item is successfully processed
- 'Sent' to 'Returned' – sent order item is returned (applicable for physical & payment order item types)
- 'Pending' to 'Cancelled' – pending order item is successfully cancelled

Exception Handling

Standard HTTP Web API response codes will be issued: http://www.w3.org/Protocols/rfc2616/rfc2616-sec10.html

Timeouts

If a timeout is encountered, please resubmit the GET or POST request until a successful response is received

Pending Order

If pending order/orderitem status response is received, please use the GET Order service to constantly check if Order has been fulfilled.

Authentication Issue

If Unauthorized HTTP 401 response is received, please ensure the API Credentials are active and valid.

Failed or Invalid Request

If a Failed or Invalid Request response is received, please ensure the request message content is valid as per the specifications outlined in this document. The result will tell you whether the service request has completed, failed or contains invalid data. Please refer to the Errors section of the response for further error description.

/// end of document