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Version Control

Date	Ver.	Change Description	Name
12/04/19	0.1	Document Creation	Hiran
16/04/19	0.2	Authoring	Simon
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18/07/19	1.1	Updating	Viraj & Prabhath

Authentication

The Cypad API is only available over Hyper Text Transfer Protocol Secure (HTTPS). The supplier will have their Client application polling and is expected to poll data at regular intervals (10 to 12 minutes) to receive the latest order information. (The supplier's Client application is hereon referred to as The Client.)

The API uses Token-based authentication. Cypad will provide the supplier with a Key and Secret both of which are required to generate a Token.

If it is suspected that the secret has been compromised, a new secret must be requested immediately from Cypad support.

IMPORTANT: The Token will expire 20 minutes after being generated.

Each buying group is identified using a 13 digit GLN which is generated by Cypad on behalf of the Local Authority/Caterer via GS1. The GLN needs to be shared with the supplier along with the Key and Secret during the set-up process. The gln is expected in the header of all calls except for the token generation.

Generating the token

The Client application sends a GET request to:

<https://api.cypad.net/ordering/api/token>

Content-type: application/x-www-form-urlencoded

The Request needs to include parameters in the format:

grant_type=password&username=[key]&password=[secret]

Once the token has been retrieved, all API data calls should present the token in line with the bearer token authentication scheme.

Life-cycle of an Order

1. Once the Client application is authenticated, the [GET] command is used to retrieve the order requests in JSON (JavaScript Object Notation) format via <https://api.cypad.net/ordering/api/orders/>.
2. The Client will then need to confirm receipt of each individual order within the retrieved information using the [PUT] command.
3. The Supplier loads their Order Responses and Delivery Notes to the API using the [POST] command.
4. Once the order has been marked off as delivered by the Cypad user a GRN (Goods Received Note) is generated for collection via the [GET] command at <https://api.cypad.net/ordering/api/grns>.
5. The Client confirms receipt of the GRN via the [PUT] command and order ID.

API routes

Orders

Operations related to orders

[GET]

<https://api.cypad.net/ordering/api/orders>

Returns all orders ready for collection in an array

Example

```
{
  "header": [
    {
      "testStatus": true,
      "supplierIdentifier": "TVS",
      "purchaseOrderReference": "0001-1507190",
      "internalOrderReference": "E97FA907-DEA6-E911-80E9-00059A3C7A00",
      "purchaseOrderDate": "2019-07-15",
      "requestedDeliveryDate": "2019-07-25",
      "deliverySlotStartTime": null,
      "deliverySlotEndTime": null,
      "deliveryLocationContact": null,
      "deliveryAddress1": "Tvs site",
      "deliveryAddress2": "",
      "deliveryAddress3": "",
      "deliveryAddress4": null,
      "deliveryAddress5": null,
      "deliveryAddressPostCode": "",
      "numberOfOrderItems": 2,
      "orderTotalValue": 95.5,
      "locationIdentifier": "0001",
      "locationIdentifier2": null,
      "costCenterIdentifier": "",
      "locationAccountCode": "",
      "locationAccountCode2": "",
      "globalLocationNumber": "5060397700131",
      "orderingOrganisationName": ""
    }
  ]
}
```

```

    "supplierCode": "TVS"
  },
  ],
  "orderItems": [
    {
      "itemName": "C1s Cleaner Sanitiser 2 x 2 Litre",
      "itemCode": "212736",
      "itemNote": "",
      "itemQuantityPerUnit": "2 x 2 litre",
      "itemQuantity": 1,
      "itemUnitPrice": 47.75,
      "itemLineTotalPrice": 47.75,
      "externalIdentifier": ""
    },
    {
      "itemName": "C3s All Purpose Cleaner Degreaser 2 x 2 Litre",
      "itemCode": "212737",
      "itemNote": "",
      "itemQuantityPerUnit": "2 x 2 litre",
      "itemQuantity": 1,
      "itemUnitPrice": 47.75,
      "itemLineTotalPrice": 47.75,
      "externalIdentifier": ""
    }
  ]
}

```

Responses

Code	Description	
200	Ok	The request has succeeded.
400	Bad Request	The request could not be understood by the server due to malformed syntax.
401	Unauthorized	The request requires user authentication.
404	Not Found	Unable to find any return value.
500	Internal Server Error	Temporarily out of service

[GET]

<https://api.cypad.net/ordering/api/orders/{ID}>

Returns details of the order specified by the ID ('ID' here is a 32 digit GUID and refers to internalOrderReference as opposed to purchaseOrderReference.)

Example

```
{
  "header": [
    {
      "testStatus": true,
      "supplierIdentifier": "TVS",
      "purchaseOrderReference": "0001-1507190",
      "internalOrderReference": "E97FA907-DEA6-E911-80E9-00059A3C7A00",
      "purchaseOrderDate": "2019-07-15",
      "requestedDeliveryDate": "2019-07-25",
      "deliverySlotStartTime": null,
      "deliverySlotEndTime": null,
      "deliveryLocationContact": null,
      "deliveryAddress1": "Tvs site",
      "deliveryAddress2": "",
      "deliveryAddress3": "",
      "deliveryAddress4": null,
      "deliveryAddress5": null,
      "deliveryAddressPostCode": "",
      "numberOfOrderItems": 2,
      "orderTotalValue": 95.5,
      "locationIdentifier": "0001",
      "locationIdentifier2": null,
      "costCenterIdentifier": "",
      "locationAccountCode": "",
      "locationAccountCode2": "",
      "globalLocationNumber": "5060397700131",
      "orderingOrganisationName": "",
      "supplierCode": "TVS"
    }
  ],
  "orderItems": [
    {
      "itemName": "C1s Cleaner Sanitiser 2 x 2 Litre",

```

```

    "itemCode": "212736",
    "itemNote": "",
    "itemQuantityPerUnit": "2 x 2 litre",
    "itemQuantity": 1,
    "itemUnitPrice": 47.75,
    "itemLineTotalPrice": 47.75,
    "externalIdentifier": ""
  },
  {
    "itemName": "C3s All Purpose Cleaner Degreaser 2 x 2 Litre",
    "itemCode": "212737",
    "itemNote": "",
    "itemQuantityPerUnit": "2 x 2 litre",
    "itemQuantity": 1,
    "itemUnitPrice": 47.75,
    "itemLineTotalPrice": 47.75,
    "externalIdentifier": ""
  }
]
}

```

Responses

Code	Description	
200	Ok	The request has succeeded.
400	Bad Request	The request could not be understood by the server due to malformed syntax.
401	Unauthorized	The request requires user authentication.
404	Not Found	Unable to find any return value.
500	Internal Server Error	Temporarily out of service

[PUT]

<https://api.cypad.net/ordering/api/orders/{ID}>

Acknowledge receipt of the order specified by the ID (internalOrderReference).

Responses

Code	Description	
200	Ok	The request has succeeded.
400	Bad Request	The request could not be understood by the server due to malformed syntax.
401	Unauthorized	The request requires user authentication.
404	Not Found	Unable to find any return value.
500	Internal Server Error	Temporarily out of service

Header Section

testStatus	During the testing phase, the value is set to true. Once the live data processing begins, the value is set to false
supplierIdentifier	Supplier specific identifier
purchaseOrderReference	Purchase order identifier for the given order
internalOrderReference	The Cypad reference number for the given order
purchaseOrderDate	The date the order was generated
RequestedDeliveryDate	Required delivery date
deliverySlotStartTime	Currently not in use
deliverySlotEndTime	Currently not in use
deliveryLocationContact	Currently not in use
deliveryAddress1 - 5	Requested delivery address
deliveryAddressPostCode	Requested delivery address' postcode
numberOfOrderItems	Total number of items contained in the order

orderTotalValue	Total value of the order
locationIdentifier	Identifier of the site the order is generated for
costCenterIdentifier	Optional identifier of the site
locationAccountCode	Supplier assigned code for the location
globalLocationNumber	Cypad assigned number for the organisation
orderingOrganisationName	Optional supplier assigned name for the organisation
supplierCode	Optional supplier identifier
locationAccountCode2	Optional supplier assigned secondary code for the location

Items Section

itemName	Order item description
itemCode	Order item identifier
itemNote	Additional information
itemQuantityPerUnit	Quantity of items within a unit
itemQuantity	Required quantity
itemUnitPrice	Price of single unit
itemLineTotalPrice	Total value of the items
externalIdentifier	Optional additional item identifier

Confirmations

[POST]

<https://api.cypad.net/ordering/api/confirmations>

Posts a single order confirmation at a time

Sample confirmation

```
{
  "header": [
    {
      "purchaseOrderReference": "0001-1507190",
      "purchaseOrderDate": "2019-07-15",
      "orderStatus": "MODIFIED",
      "orderStatusReason": "Items out of stock",
      "confirmedDeliveryDate": "2019-07-25"
    }
  ],
  "orderItems": [
    {
      "itemCode": "212736",
      "itemQuantity": 1,
      "itemUnitPrice": 47.75,
      "itemStatus": "C",
      "itemReasonForChange": "Out of stock",
      "substituteItemCode": "009"
    }
  ]
}
```

Header Section

purchaseOrderReference	The Cypad reference number as per order request
purchaseOrderDate	The date the order was generated as per order request
orderStatus	If the order can be fulfilled the status must be set to ACCEPTED. If a change has been made, such as offering an alternative for a product, the status must be set to MODIFIED. If the order cannot be fulfilled the status must be set to REJECTED
orderStatusReason	Description of the order status. Only required in MODIFIED and REJECTED instances

confirmedDeliveryDate	Delivery date confirmed by the supplier
-----------------------	---

Items Section

This section is only needed for a modified order. ACCEPTED and REJECTED orders only contain the header section.

All tags except for itemSubstitute and itemReasonForChange are compulsory. When an ordered item has been altered, itemReasonForChange tag must be included. When an alternative product is offered, itemSubstitute tag must be included.

itemCode	Order item identifier as per the order request
itemQuantity	Confirmed quantity of items
itemUnitPrice	Confirmed price of the item
itemStatus	This should be set to A for Accepted items, R for Rejected and C for Changed if an amendment has been made such as an alternative product being offered
itemReasonForChange	Description of the nature of the change
substituteItemCode	If an alternative product is offered, the product identifier should be inserted.

Responses

Code	Description	
200	Ok	The request has succeeded.
400	Bad Request	The request could not be understood by the server due to malformed syntax.
401	Unauthorized	The request requires user authentication.
404	Not Found	Unable to find any return value.
409	Conflict	The request could not be completed due to a conflict with the current state of the order
500	Internal Server Error	Temporarily out of service

Delivery notes

[POST]

<https://api.cypad.net/ordering/api/deliverynotes>

Posts a single delivery note at a time

Sample delivery note

```
{
  "header": [
    {
      "purchaseOrderReference": "0001-1507190",
      "purchaseOrderDate": "2019-07-15",
      "orderStatus": "MODIFIED",
      "orderStatusReason": "Items out of stock",
      "confirmedDeliveryDate": "2019-07-25"
    }
  ],
  "orderItems": [
    {
      "itemCode": "212736",
      "itemQuantity": 1,
      "itemUnitPrice": 47.75,
      "itemStatus": "C",
      "itemReasonForChange": "Out of stock",
      "substituteItemCode": "009"
    }
  ]
}
```

Header Section

purchaseOrderReference	The Cypad reference number as per order request
purchaseOrderDate	The date the order was generated as per order request
orderStatus	If the order can be fulfilled the status must be set to ACCEPTED. If a change has been made, such as offering an alternative for a product, the status must be set to MODIFIED. If the order cannot be fulfilled the status must be set to REJECTED

orderStatusReason	Description of the order status. Only required in MODIFIED and REJECTED instances
confirmedDeliveryDate	Delivery date confirmed by the supplier

Items Section

This section is only needed for a modified order. ACCEPTED and REJECTED orders only contain the header section.

All tags except for itemSubstitute and itemReasonForChange are compulsory. When an ordered item has been altered, itemReasonForChange tag must be included. When an alternative product is offered, itemSubstitute tag must be included.

itemCode	Order item identifier as per the order request
itemQuantity	Confirmed quantity of items
itemUnitPrice	Confirmed price of the item
itemStatus	This should be set to A for Accepted items, R for Rejected and C for Changed if an amendment has been made such as an alternative product being offered
itemReasonForChange	Description of the nature of the change
substituteItemCode	If an alternative product is offered, the product identifier should be inserted.

Responses

Code	Description	
200	Ok	The request has succeeded.
400	Bad Request	The request could not be understood by the server due to malformed syntax.
401	Unauthorized	The request requires user authentication.
404	Not Found	Unable to find any return value.
409	Conflict	The request could not be completed due to a conflict with the current state of the order
500	Internal Server Error	Temporarily out of service

GRNs

[GET]

<https://api.cypad.net/ordering/api/grns>

Returns all GRNs ready for collection

Example

```
[
  {
    "header": [
      {
        "testStatus": true,
        "supplierIdentifier": "TVS",
        "purchaseOrderReference": "0001-1507190",
        "internalOrderReference": "E97FA907-DEA6-E911-80E9-00059A3C7A00",
        "purchaseOrderDate": "2019-07-15",
        "requestedDeliveryDate": "2019-07-25",
        "deliverySlotStartTime": null,
        "deliverySlotEndTime": null,
        "deliveryLocationContact": null,
        "deliveryAddress1": "Tvs site",
        "deliveryAddress2": "",
        "deliveryAddress3": "",
        "deliveryAddress4": null,
        "deliveryAddress5": null,
        "deliveryAddressPostCode": "",
        "numberOfOrderItems": 2,
        "orderTotalValue": 95.5,
        "locationIdentifier": "0001",
        "locationIdentifier2": null,
        "costCenterIdentifier": "",
        "locationAccountCode": "",
        "locationAccountCode2": "",
        "globalLocationNumber": "5060397700131",
        "orderingOrganisationName": "",
        "supplierCode": "TVS"
      }
    ],
    "orderItems": [
      {
```

```
"itemName": "C1s Cleaner Sanitiser 2 x 2 Litre",
"itemCode": "212736",
"itemNote": "",
"itemQuantityPerUnit": "2 x 2 litre",
"itemQuantity": 1,
"itemUnitPrice": 47.75,
"itemLineTotalPrice": 47.75,
"externalIdentifier": ""
},
{
  "itemName": "C3s All Purpose Cleaner Degreaser 2 x 2 Litre",
  "itemCode": "212737",
  "itemNote": "",
  "itemQuantityPerUnit": "2 x 2 litre",
  "itemQuantity": 1,
  "itemUnitPrice": 47.75,
  "itemLineTotalPrice": 47.75,
  "externalIdentifier": ""
}
],
{
  "header": null,
  "orderItems": [
    {
      "itemName": "Stock Item 2 (NA)",
      "itemCode": "N2",
      "itemNote": null,
      "itemQuantityPerUnit": "",
      "itemQuantity": 5,
      "itemUnitPrice": 1.25,
      "itemLineTotalPrice": 6.25,
      "externalIdentifier": ""
    },
    {
      "itemName": "Stock Item 3 (NA)",
      "itemCode": "N3",
      "itemNote": null,
      "itemQuantityPerUnit": "",
      "itemQuantity": 2,
```

```
        "itemUnitPrice": 1,
        "itemLineTotalPrice": 2,
        "externalIdentifier": ""
    }
]
},
{
    "header": null,
    "orderItems": [
        {
            "itemName": "Stock Item 1 (NA)",
            "itemCode": "N1",
            "itemNote": null,
            "itemQuantityPerUnit": "",
            "itemQuantity": 1,
            "itemUnitPrice": 10,
            "itemLineTotalPrice": 10,
            "externalIdentifier": ""
        },
        {
            "itemName": "Stock Item 2 (NA)",
            "itemCode": "N2",
            "itemNote": null,
            "itemQuantityPerUnit": "",
            "itemQuantity": 0.5,
            "itemUnitPrice": 1.25,
            "itemLineTotalPrice": 0.625,
            "externalIdentifier": ""
        },
        {
            "itemName": "Stock Item 3 (NA)",
            "itemCode": "N3",
            "itemNote": null,
            "itemQuantityPerUnit": "",
            "itemQuantity": 1,
            "itemUnitPrice": 1,
            "itemLineTotalPrice": 1,
            "externalIdentifier": ""
        }
    ]
}
```



```

    },
    {
      "header": null,
      "orderItems": [
        {
          "itemName": "Bread",
          "itemCode": "X123",
          "itemNote": "",
          "itemQuantityPerUnit": "",
          "itemQuantity": 10,
          "itemUnitPrice": 1.5,
          "itemLineTotalPrice": 15,
          "externalIdentifier": ""
        }
      ]
    }
  ]
}

```

Responses

Code	Description	
200	Ok	The request has succeeded.
400	Bad Request	The request could not be understood by the server due to malformed syntax.
401	Unauthorized	The request requires user authentication.
500	Internal Server Error	Temporarily out of service

[GET]

<https://api.cypad.net/ordering/api/grns/{ID}>

Returns details of the GRN specified by the ID (internalOrderReference).

Example

```

{
  "header": [
    {
      "testStatus": true,
      "supplierIdentifier": "TVS",

```

```

    "purchaseOrderReference": "0001-1507190",
    "internalOrderReference": "E97FA907-DEA6-E911-80E9-00059A3C7A00",
    "purchaseOrderDate": "2019-07-15",
    "requestedDeliveryDate": "2019-07-25",
    "deliverySlotStartTime": null,
    "deliverySlotEndTime": null,
    "deliveryLocationContact": null,
    "deliveryAddress1": "Tvs site",
    "deliveryAddress2": "",
    "deliveryAddress3": "",
    "deliveryAddress4": null,
    "deliveryAddress5": null,
    "deliveryAddressPostCode": "",
    "numberOfOrderItems": 2,
    "orderTotalValue": 95.5,
    "locationIdentifier": "0001",
    "locationIdentifier2": null,
    "costCenterIdentifier": "",
    "locationAccountCode": "",
    "locationAccountCode2": "",
    "globalLocationNumber": "5060397700131",
    "orderingOrganisationName": "",
    "supplierCode": "TVS"
  }
],
"orderItems": [
  {
    "itemName": "C1s Cleaner Sanitiser 2 x 2 Litre",
    "itemCode": "212736",
    "itemNote": "",
    "itemQuantityPerUnit": "2 x 2 litre",
    "itemQuantity": 1,
    "itemUnitPrice": 47.75,
    "itemLineTotalPrice": 47.75,
    "externalIdentifier": ""
  },
  {
    "itemName": "C3s All Purpose Cleaner Degreaser 2 x 2 Litre",
    "itemCode": "212737",
    "itemNote": "",

```

```

        "itemQuantityPerUnit": "2 x 2 litre",
        "itemQuantity": 1,
        "itemUnitPrice": 47.75,
        "itemLineTotalPrice": 47.75,
        "externalIdentifier": ""
    }
}

```

Responses

Code	Description	
200	Ok	The request has succeeded.
400	Bad Request	The request could not be understood by the server due to malformed syntax.
401	Unauthorized	The request requires user authentication.
500	Internal Server Error	Temporarily out of service

[PUT]

<https://api.cypad.net/ordering/api/grns/{ID}>

Acknowledge receipt of the GRN specified by the ID (internalOrderReference).

Sample GRN

```

{
    "header": [
        {
            "testStatus": true,
            "supplierIdentifier": "TVS",

```

```

    "purchaseOrderReference": "0001-1507190",
    "internalOrderReference": "E97FA907-DEA6-E911-80E9-00059A3C7A00",
    "purchaseOrderDate": "2019-07-15",
    "requestedDeliveryDate": "2019-07-25",
    "deliverySlotStartTime": null,
    "deliverySlotEndTime": null,
    "deliveryLocationContact": null,
    "deliveryAddress1": "Tvs site",
    "deliveryAddress2": "",
    "deliveryAddress3": "",
    "deliveryAddress4": null,
    "deliveryAddress5": null,
    "deliveryAddressPostCode": "",
    "numberOfOrderItems": 2,
    "orderTotalValue": 95.5,
    "locationIdentifier": "0001",
    "locationAccountCode": "",
    "locationAccountCode2": "",
    "globalLocationNumber": "5060397700131",
    "orderingOrganisationName": "",
    "supplierCode": "TVS"
  }
],
"orderItems": [
  {
    "itemName": "C1s Cleaner Sanitiser 2 x 2 Litre",
    "itemCode": "212736",
    "itemNote": "",
    "itemQuantityPerUnit": "2 x 2 litre",
    "itemQuantity": 1,
    "itemUnitPrice": 47.75,
    "itemLineTotalPrice": 47.75,
    "externalIdentifier": ""
  },
  {

```

```

    "itemName": "C3s All Purpose Cleaner Degreaser 2 x 2 Litre",
    "itemCode": "212737",
    "itemNote": "",
    "itemQuantityPerUnit": "2 x 2 litre",
    "itemQuantity": 1,
    "itemUnitPrice": 47.75,
    "itemLineTotalPrice": 47.75,
    "externalIdentifier": ""
  }
]
}

```

Responses

Code	Description	
200	Ok	The request has succeeded.
400	Bad Request	The request could not be understood by the server due to malformed syntax.
401	Unauthorized	The request requires user authentication.
404	Not Found	Unable to find any return value.
500	Internal Server Error	Temporarily out of service

Header Section

testStatus	During the testing phase, the value should be set to Y. Once the live data processing begins, the value should be set to N
supplierIdentifier	Supplier specific identifier
purchaseOrderReference	Purchase order identifier for the given order
internalOrderReference	The Cypad reference number for the given order
purchaseOrderDate	The date the order was generated
requestedDeliveryDate	Required delivery date

deliverySlotStartTime	Currently not in use
deliverySlotEndTime	Currently not in use
deliveryLocationContact	Currently not in use
deliveryAddress1/ deliveryAddress2/ deliveryAddress3/ deliveryAddress4/ deliveryAddress5	Requested delivery address
deliveryAddressPostCode	Requested delivery address postcode
numberOfOrderItems	Total number of items contained in the order
orderTotalValue	Total value of the order
locationIdentifier	Identifier of the site the order is generated for
locationAccountCode	Supplier assigned code for the location
locationAccountCode2	Optional supplier assigned secondary code for the location
globalLocationNumber	Cypad assigned number for the organisation
orderingOrganisationName	Optional supplier assigned name for the organisation
supplierCode	Optional supplier identifier

Items Section

itemName	Order item name
itemCode	Order item identifier as per the order request
itemNote	Additional information
itemQuantityPerUnit	Quantity of items within a unit
itemQuantity	Confirmed quantity of items
itemUnitPrice	Confirmed price of the item.
itemLineTotalPrice	Total value of the items
externalIdentifier	Optional additional item identifier

Accounts

[GET]

<https://api.cypad.net/ordering/api/accounts>

Returns account IDs and delivery availability by day of week corresponding to the contract specified by GLN.

Accounts Sample

```
[
  {
    "identifier": "0001",
    "address1": "Tvs site",
    "postcode": "BS1 4EX",
    "accountNumber": "",
    "accountNumber2": "",
    "monday": true,
    "tuesday": true,
    "wednesday": true,
    "thursday": true,
    "friday": true,
    "saturday": false,
    "sunday": false
  }
]
```

identifier	Site identifier
address1	Site name
accountNumber/accountNumber2	Account numbers corresponding to site
monday/tuesday/wednesday/thursday/ friday/saturday/sunday	Days available for delivery

Responses

Code	Description	
200	Ok	The request has succeeded.
400	Bad Request	The request could not be understood by the server due to malformed syntax.
401	Unauthorized	The request requires user authentication.
500	Internal Server Error	Temporarily out of service

Testing

Following table illustrates the testing scenarios that should be demonstrated by the supplier's application.

Test Case ID	Test Case	Pre-Conditions	Steps	Expected Result	Test Status (Pass/Fail)
1	Fully confirmed order	1. All the products are correct 2. All products are in stock 3. Correct account code 4. Correct delivery date	1. Send an order where account code and delivery date are correct	1. Receive an order confirmation indicating all the ordered products are in stock and can be delivered for the given date	
2	Partially correct order - Account code is incorrect	1. All the products are correct 2. All products are in stock 3. Incorrect account code 4. Correct delivery date	1. Send an order where account code is wrong and delivery date is correct	1. Receive order rejection notice indicating order has been rejected due to wrong account code	
3	Partially correct order - Delivery date is incorrect	1. All the products are correct 2. All products are in stock 3. Correct account code 4. Incorrect delivery date	1. Send an order where delivery date is wrong and account code is correct	1. Receive order rejection notice indicating order has been rejected due to wrong delivery date	

4	Incorrect order - Delivery date and account code are incorrect	<ol style="list-style-type: none"> 1. All the products are correct 2. All products are in stock 3. Incorrect account code 4. Incorrect delivery date 	<ol style="list-style-type: none"> 1. Send an order where delivery date is wrong and account code is correct. 	<ol style="list-style-type: none"> 1. Receive order rejection notice indicating order has been rejected due to wrong delivery date and wrong account code 	
5	Verify out of stock status for a single item order	<ol style="list-style-type: none"> 1. Product is correct 2. Requested order product is not in stock 3. Correct account code 4. Correct delivery date 	<ol style="list-style-type: none"> 1. Send and order with one item which is out of stock 	<ol style="list-style-type: none"> 1. Receive order rejection notice indicating order has been rejected due to insufficient stock 	
6	Verify out of stock status for multiple line order - Substitute products are available	<ol style="list-style-type: none"> 1. Order should contain multiple products 2. Order consists of a combination of in-stock and out of stock products 3. Correct account code 4. Correct delivery date 	<ol style="list-style-type: none"> 1. Send an order with a combination of in-stock and out of stock products 	<ol style="list-style-type: none"> 1. Process the order with available items 2. Receive order confirmation by indicating certain products are unavailable and substitutes will be delivered 	
7	Verify discontinued items in an order - Substitute products are available	<ol style="list-style-type: none"> 1. Order should contain multiple products 2. One or several products should be discontinued 3. Substitute products for discontinued products are available 	<ol style="list-style-type: none"> 1. Send an order with a combination of discontinued and live products 	<ol style="list-style-type: none"> 1. Receive an order confirmation with discontinued products being replaced by substitute products 	
8	Verify the validity of the product codes for multiple products order	<ol style="list-style-type: none"> 1. Order should contain multiple products with invalid product codes 	<ol style="list-style-type: none"> 1. Send an order with both valid product codes and invalid product codes 	<ol style="list-style-type: none"> 1. Receive an order confirmation with valid items and indicate invalid product codes exist 	
9	Verify the order process for the ordered products that are below the ordered quantity	<ol style="list-style-type: none"> 1. Ordered products are in stock 2. Available quantity is less than ordered quantity 	<ol style="list-style-type: none"> 1. Send the order 	<ol style="list-style-type: none"> 1. Receive order confirmation by indicating product quantities are below the available quantity and the available quantity will be delivered 	