

Cypad 





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### Version Control

Date	Version	Description	Who
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## Overview

This document is to assist suppliers of food and other goods to organisations using Cypad Kitchen Manager TM to integrate with it, enabling orders to be placed using a tablet within Kitchen Manager and sent to the supplier.

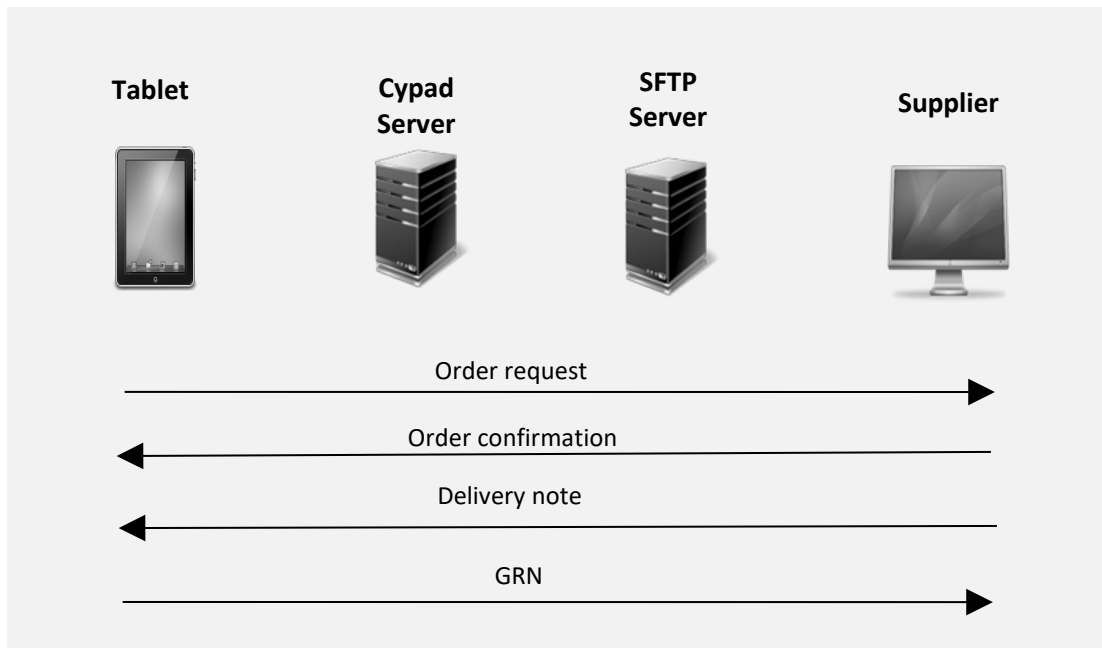
When the order is received by the supplier an Order Confirmation is sent back to the tablet. When the delivery is to be made a delivery Note is sent out. When the recipient has checked the goods have been received a Goods Received Note (GRN) is sent from the tablet back to the supplier. Not all steps may be used.

The preferred method of document transfer is SFTP and the preferred document layout is XML.

## The Ordering Process

An order is initially placed on a tablet. Once the tablet is synced, the order is transmitted over 3G/4G or Wi-Fi and received into the Cypad database. This is then sent to the supplier via an XML order request document. Depending on the arrangements agreed with the supplier, several communications will occur regarding the order. These are as follows:

- Initial order request
- Order confirmation
- Delivery note
- Goods received note



The preferred method of sending and receiving these documents is through the SSH File Transfer Protocol (SFTP). Generally, it is the supplier's responsibility to maintain the SFTP server.

## Order Document Construction

All order documents should be constructed in XML. Cypad uses its own XML schema. The XSD representations can be requested.

## Setting Up the Server

Three separate folders should be created in the root of the SFTP server for order documents to be uploaded and downloaded. Name these as Upload, Download and Archive. Within the Download folder create two folders and name them Confirmation and Delivery. Within the Upload folder create two folders and name them Order and GRN. Cypad will place order documents in the Upload folder and the supplier should place order documents in the Download folder. The structure looks as follows:



## Upload

Order

GRN

## Download

Confirmation

Delivery

## Archive

## File Naming

Order request documents are named as follows:

ORD--Cypad order reference number--Date of the document.xml

An example is shown below. The file name contains a GUID:

ORD--00000000-0000-0000-0000-000000000000--01-09-2014.xml

Similarly, a goods received note will begin with the letters GRN:

GRN--00000000-0000-0000-0000-000000000000--01-09-2014.xml

An order confirmation document name should start with CON and a delivery note with DEL. For the above order document the remaining files will be named as follows:

CON--00000000-0000-0000-0000-000000000000--01-09-2014.xml

DEL--00000000-0000-0000-0000-000000000000--01-09-2014.xml

## File Uploading

Cypad will upload the order request document to the Order folder. And the goods receive notes will be uploaded to the GRN folder. While the document is being uploaded, the file name will begin with UPL (e.g. UPL<restofthefilename>.xml). Once the file is fully uploaded the file will be renamed and the UPL will be removed. Make sure files with names beginning with UPL do not get processed as this will result in failures.

## Removal of Processed Files

Once an order request has been read and processed the relevant file should be removed from its folder and moved to the Archive folder. This will be retained for future reference.

## File Downloading

Once an order has been confirmed or rejected, this should be indicated by uploading an order confirmation document into the Confirmation folder within the Download folder.

Similarly a deliver note document should be uploaded to the Delivery folder within the Download folder.

During the uploading process, the file name should start with UPL. Once the file uploading is completed the file should be renamed and UPL removed to indicate that it is ready for processing.



## Order Request Document

The schema for the order document is as follows. The XSD version is available at <https://app.cypad.net/schemas/order.xsd>

```
<order>
  <header>
    <testStatus>Y</testStatus>
    <supplierIdentifier>007</supplierIdentifier>
    <purchaseOrderReference>SiteID-101</purchaseOrderReference>
    <internalOrderReference>00000000-0000-0000-0000-000000000000</internalOrderReference>
    <purchaseOrderDate>20140901</purchaseOrderDate>
    <requestedDeliveryDate>20140930</requestedDeliveryDate>
    <deliverySlotStartTime></deliverySlotStartTime>
    <deliverySlotEndTime></deliverySlotEndTime>
    <deliveryLocationContact></deliveryLocationContact>
    <deliveryAddress1>1 Test Drive</deliveryAddress1>
    <deliveryAddress2>City</deliveryAddress2>
    <deliveryAddress3></deliveryAddress3>
    <deliveryAddress4></deliveryAddress4>
    <deliveryAddress5></deliveryAddress5>
    <deliveryAddressPostCode>BS1 1SB</deliveryAddressPostCode>
    <numberOfOrderItems>1</numberOfOrderItems>
    <orderTotalValue>10.00</orderTotalValue>
    <locationIdentifier>SiteID</locationIdentifier>
    <locationAccountCode>1010</locationAccountCode>
    <globalLocationNumber>5060397700018</globalLocationNumber>
    <orderingOrganisationName></orderingOrganisationName>
    <supplierCode></supplierCode>
    <locationAccountCode2>1012</locationAccountCode2>
  </header>
  <orderItems>
    <item>
      <itemName>A Product</itemName>
      <itemCode>700</itemCode>
      <itemNote></itemNote>
```



```
<itemQuantityPerUnit>5</itemQuantityPerUnit>  
<itemQuantity>1</itemQuantity>  
<itemUnitPrice>10.00</itemUnitPrice>  
<itemLineTotalPrice>10.00</itemLineTotalPrice>  
<externalIdentifier></externalIdentifier>  
  
</item>  
  
</orderItems>  
  
</order>
```

#### Header Section

<b>testStatus</b>	During the testing phase, the value should be set to Y. Once the live data processing begins, the value should be set to N
<b>supplierIdentifier</b>	Supplier specific identifier
<b>purchaseOrderReference</b>	Purchase order identifier for the given order
<b>internalOrderReference</b>	The Cypad reference number for the given order
<b>purchaseOrderDate</b>	The date the order was generated
<b>requestedDeliveryDate</b>	Required delivery date
<b>deliverySlotStartTime</b>	Currently not in use
<b>deliverySlotEndTime</b>	Currently not in use
<b>deliveryLocationContact</b>	Currently not in use
<b>deliveryAddress1 - 5</b>	Requested delivery address
<b>deliveryAddressPostCode</b>	Requested delivery address' postcode
<b>numberOfOrderItems</b>	Total number of items contained in the order
<b>orderTotalValue</b>	Total value of the order
<b>locationIdentifier</b>	Identifier of the site the order is generated for
<b>locationAccountCode</b>	Supplier assigned code for the location
<b>globalLocationNumber</b>	Cypad assigned number for the organisation
<b>orderingOrganisationName</b>	Optional supplier assigned name for the organisation
<b>supplierCode</b>	Optional supplier identifier
<b>locationAccountCode2</b>	Optional supplier assigned secondary code for the location

#### Items Section

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



## Order Confirmation Document

The schema for the order document is as follows. The XSD version is available at <https://app.cypad.net/schemas/confirmation.xsd>

```
<orderConfirmation>
  <header>
    <testStatus>Y</testStatus>
    <purchaseOrderReference> SiteID-101</purchaseOrderReference>
    <purchaseOrderDate>20140901</purchaseOrderDate>
    <orderStatus>MODIFIED</orderStatus>
    <orderStatusReason>Item out of stock</orderStatusReason>
    <confirmedDeliveryDate>20140930</confirmedDeliveryDate>
    <globalLocationNumber>5060397700018</globalLocationNumber>
  </header>
  <orderItems>
    <item>
      <itemCode>700</itemCode>
      <itemQuantity>1</itemQuantity>
      <itemPrice>10.00</itemPrice>
      <itemStatus>C</itemStatus>
      <itemReasonForChange>Out of stock</itemReasonForChange>
      <itemSubstitute>701</itemSubstitute>
    </item>
  </orderItems>
</orderConfirmation>
```

### Header Section

<b>testStatus</b>	During the testing phase, the value should be set to Y. Once the live data processing begins, the value should be set to N
<b>purchaseOrderReference</b>	The Cypad reference number as per order request
<b>purchaseOrderDate</b>	The date the order was generated as per order request
<b>orderStatus</b>	If the order can be fulfilled in its entirety the status should be set to ACCEPTED. If a change has been made, such as offering an alternative for a product, the status should be set to MODIFIED. If the order cannot be fulfilled the status should be set to REJECTED
<b>orderStatusReason</b>	Description of the order status. Only required in MODIFIED and REJECTED instances
<b>confirmedDeliveryDate</b>	Delivery date confirmed by the supplier
<b>globalLocationNumber</b>	Cypad assigned number for the organisation



## Items Section

This section is only needed for a modified order. ACCEPTED and REJECTED orders should 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	<b>Order item identifier as per the order request</b>
itemQuantity	Confirmed quantity of items
itemPrice	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
itemSubstitute	If an alternative product is offered, the product identifier should be inserted.

## Delivery Note

The schema for the order document is as follows. The XSD version is available at <https://app.cypad.net/schemas/delivery.xsd>. Note that prior to sending a delivery note, a confirmation must have been sent.

```
<orderDeliveryNote>
  <header>
    <testStatus>Y</testStatus>
    <purchaseOrderReference> SiteID-101</purchaseOrderReference>
    <purchaseOrderDate>20140901</purchaseOrderDate>
    <confirmedDeliveryDate>20140930</confirmedDeliveryDate>
    <globalLocationNumber>5060397700018</globalLocationNumber>
  </header>
  <orderItems>
    <item>
      <itemCode>700</itemCode>
      <itemQuantity>1</itemQuantity>
      <itemPrice>10.00</itemPrice>
      <itemSubstitute>701</itemSubstitute>
      <itemReasonForChange>Out of stock</itemReasonForChange>
    </item>
  </orderItems>
</orderDeliveryNote>
```





## Header Section

<b>testStatus</b>	During the testing phase, the value should be set to Y. Once the live data processing begins, the value should be set to N
<b>purchaseOrderReference</b>	The Cypad reference number as per the order request
<b>purchaseOrderDate</b>	The date the order was generated as per the order request
<b>confirmedDeliveryDate</b>	Delivery date confirmed by the supplier
<b>globalLocationNumber</b>	Cypad assigned number for the organisation

## Items 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.

<b>itemCode</b>	Order item identifier as per the order request
<b>itemQuantity</b>	Confirmed quantity of item
<b>itemPrice</b>	Confirmed price of the item
<b>itemSubstitute</b>	If an alternative product is offered, the product identifier should be inserted
<b>itemReasonForChange</b>	If an alternative product is offered, description of the nature of the change

## Goods Received Note

The schema for the order document is as follows. The XSD version is available at <https://app.cypad.net/schemas/grn.xsd>

```

<orderGRN>
  <header>
    <testStatus>Y</testStatus>
    <supplierIdentifier>007</supplierIdentifier>
    <purchaseOrderReference>SiteID-101</purchaseOrderReference>
    <internalOrderReference>00000000-0000-0000-0000-000000000000</internalOrderReference>
    <purchaseOrderDate>20140901</purchaseOrderDate>
    <requestedDeliveryDate>20140930</requestedDeliveryDate>
    <actualDeliveryDate>20140930</actualDeliveryDate>
    <deliverySlotStartTime></deliverySlotStartTime>
    <deliverySlotEndTime></deliverySlotEndTime>
    <deliveryLocationContact></deliveryLocationContact>
    <deliveryAddress1>1 Test Drive</deliveryAddress1>
    <deliveryAddress2>City</deliveryAddress2>
    <deliveryAddress3></deliveryAddress3>
    <deliveryAddress4></deliveryAddress4>
    <deliveryAddress5></deliveryAddress5>
    <deliveryAddressPostCode>BS1 1SB</deliveryAddressPostCode>
    <numberOfOrderItems>1</numberOfOrderItems>
    <orderTotalValue>10.00</orderTotalValue>
  
```



```
<locationIdentifier>SiteID</locationIdentifier>
<locationAccountCode>1010</locationAccountCode>
<globalLocationNumber>5060397700018</globalLocationNumber>
<orderingOrganisationName></orderingOrganisationName>
<supplierCode></supplierCode>
<locationAccountCode2>1012</locationAccountCode2>
</header>
<orderItems>
  <item>
    <itemName>A Product</itemName>
    <itemCode>700</itemCode>
    <itemNote></itemNote>
    <itemQuantityPerUnit>5</itemQuantityPerUnit>
    <itemQuantity>1</itemQuantity>
    <itemUnitPrice>10.00</itemUnitPrice>
    <itemLineTotalPrice>10.00</itemLineTotalPrice>
    <externalIdentifier></externalIdentifier>
  </item>
</orderItems>
</orderGRN>
```



## Header Section

<b>testStatus</b>	During the testing phase, the value should be set to Y. Once the live data processing begins, the value should be set to N
<b>supplierIdentifier</b>	Supplier specific identifier
<b>purchaseOrderReference</b>	Purchase order identifier for the given order
<b>internalOrderReference</b>	The Cypad reference number for the given order
<b>purchaseOrderDate</b>	The date the order was generated
<b>requestedDeliveryDate</b>	Required delivery date
<b>actualDeliveryDate</b>	Actual delivery date
<b>deliverySlotStartTime</b>	Currently not in use
<b>deliverySlotEndTime</b>	Currently not in use
<b>deliveryLocationContact</b>	Currently not in use
<b>deliveryAddress1 - 5</b>	Requested delivery address
<b>deliveryAddressPostCode</b>	Requested delivery address postcode
<b>numberOfOrderItems</b>	Total number of items contained in the order
<b>orderTotalValue</b>	Total value of the order
<b>locationIdentifier</b>	Identifier of the site the order is generated for
<b>locationAccountCode</b>	Supplier assigned code for the location
<b>globalLocationNumber</b>	Cypad assigned number for the organisation
<b>orderingOrganisationName</b>	Optional supplier assigned name for the organisation
<b>supplierCode</b>	Optional supplier identifier
<b>locationAccountCode2</b>	Optional supplier assigned secondary code for the location

## Items Section

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

## Testing

Following table illustrates the testing scenarios that should be demonstrated by the application, supplier develops.

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