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# HOUSE OF FRASER

## CSV/XML ASN MESSAGE FORMAT

A TECHNICAL GUIDE FOR SUPPLIERS

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## 1. CONTACTS

Please refer to Web Site for House of Fraser contact details:

<http://www.hofsuppliers.co.uk/info/contacts.html>

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## 2. Message Formats

### 2.1. XML Format

An XML Schema is needed to create an ASN message in XML format

#### 2.1.1. Required Data

For each ASN:

**At Header level** – Always one header per ASN

ASN ID

Supplier Number

Location

Purchase Order Quantity

Container Quantity

Product Quantity

DAN (if invoicing at delivery level)

**At Line item level** – Multiple Order Lines for each ASN Header

Supplier Number

DAN (if invoicing at store level)

Location

PO Number

Container

Product Code

Product Quantity

Barcode

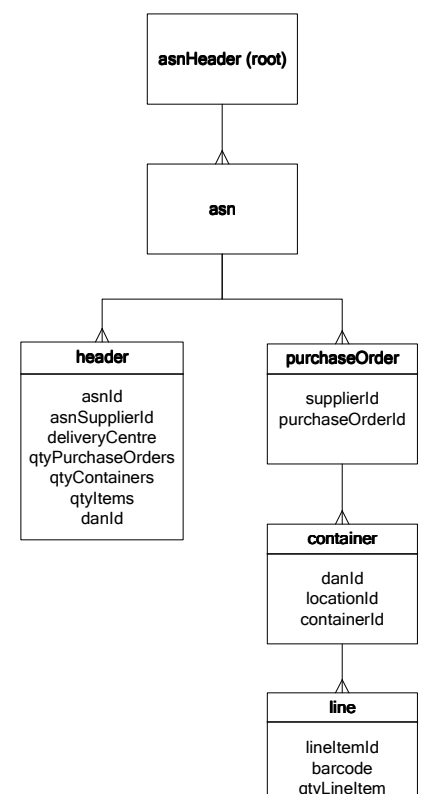
#### 2.1.2. XML Document Structure

The structure of the XML schema is different to that of the CSV file. Extra levels of hierarchy have been added to the XML schema to make XML files more efficient with high numbers of order line items.

This has been achieved by separating out information at container and purchase order level, so that having many line items does not require purchase order and container information to be repeated.

This format caters for both Cross Dock and Non Cross Dock ASNs. This is demonstrated by the two fragments of XML code that can be found in sections 3.1.1 & 3.2.1.

The XML structure that follows conforms to the HOF standard to use camel casing for element names.



### 2.1.3. Properties of Elements

The XML schema should enforce typing for all of the elements. Restrictions on the properties of the elements and the number of occurrences are shown below.

Data types marked with a “-” indicate that no data should be present, and regular expressions are given for those elements that do have values. The number of occurrences defined takes into account the hierarchical nature of the file – e.g. the number of occurrences of <asnId> *within a <header>* must be exactly equal to 1.

If you are invoicing at store level the DAN needs to be at pack level (2<sup>nd</sup> occurrence of danId in the table below). If you are invoicing at delivery level the DAN needs to be at header level (1<sup>st</sup> occurrence of danId in the table below).

| Element              | Data types          | Pattern        | Occurrences |
|----------------------|---------------------|----------------|-------------|
| <b>asnHeader</b>     | -                   |                | = 1         |
| <b>asn</b>           | -                   |                | >= 1        |
| <b>header</b>        | -                   |                | = 1         |
| asnId                | <= 13 alphanumerics | [A-Z0-9]{1,13} | = 1         |
| asnSupplierId        | = 7 alphanumerics   | [a-zA-Z0-9]{7} | = 1         |
| deliveryCentre       | = 4 integers        | [0-9]{4}       | = 1         |
| qtyPurchaseOrders    | <= 6 integers       | [0-9]{1,6}     | = 1         |
| qtyContainers        | <= 6 integers       | [0-9]{1,6}     | 0 or 1      |
| qtyItems             | <= 8 integers       | [0-9]{1,8}     | = 1         |
| danId                | =20 alphanumerics   | -              | 0 or 1      |
| <b>purchaseOrder</b> | -                   |                | >= 1        |
| purchaseOrderId      | = 6 alphanumerics   | [0-9]{6}       | = 1         |
| supplierId           | = 7 alphanumerics   | [a-zA-Z0-9]{7} | 0 or 1      |
| <b>container</b>     |                     |                | >= 1        |
| danId                | =20 alphanumerics   | -              | 0 or 1      |
| locationId           | = 4 integers        | [0-9]{4}       | 0 or 1      |
| containerId          | <= 20 alphanumerics | [A-Z0-9]{1,20} | 0 or 1      |
| <b>line</b>          |                     |                | >= 1        |
| lineItemId           | = 9 integers        | [0-9]{9}       | 0 or 1      |
| barcode              | >=8 <=13 integers   | [0-9]{8,13}    | 0 or 1      |
| qtyLineItem          | <= 5 integers       | [0-9]{1,5}     | = 1         |

### 2.1.4. Namespace

The namespace must be declared at the top of every XML document. The namespace for ASN XML documents is: <http://www.hof.co.uk/schemas/internalschemas/asnxml>

The examples in sections 5.1.1 & 5.2.1 show how this should be inserted.

## 2.2. CSV Format

The data that will be held in the CSV file is equivalent to that held in the XML file.

A CSV ASN message will consist of a header record followed by a number of line item records. More than one ASN can be communicated in the same file, requiring a header record to be put at the start of the file, to tell the receiving system how many ASNs are contained within the file.

If you are invoicing at store level the DAN needs to be at pack level (2<sup>nd</sup> occurrence in the table below). If you are invoicing at delivery level the DAN needs to be at header level (1<sup>st</sup> occurrence in the table below).

| Reference Name           | Description   | Pattern        | Occurrences |
|--------------------------|---|----------------|-------------|
| <b>Record Type</b>       | Default value "00"                                    |                | = 1         |
| ASN Quantity             |   |                | = 1         |
| <b>Record Type</b>       | Default value "01"                                    |                | >= 1        |
| ASN ID                   |   | [A-Z0-9]{1,13} | = 1         |
| Supplier Number          |   | [a-zA-Z0-9]{7} | = 1         |
| Total Purchase Order Qty |   | [0-9]{1,6}     | = 1         |
| Total Product Qty        |   | [0-9]{1,8}     | = 1         |
| Location (DC)            | Default value "1600"<br>Delivery centre code (NDC)    | [0-9]{4}       | = 1         |
| Total Container Qty      |   | [0-9]{1,6}     | 0 or 1      |
| DAN                      | Use if invoicing at delivery level                    |                | 0 or 1      |
| <b>Record Type</b>       | Default value "02"                                    |                | >= 1        |
| ASN ID                   |   | [A-Z0-9]{1,13} | = 1         |
| Supplier Number          |   | [a-zA-Z0-9]{7} | = 1         |
| DAN                      | Use if invoicing at store level                       |                | 0 or 1      |
| PO Number                |   | [0-9]{6}       | = 1         |
| Product Code             | Either Product Code or Barcode field must be present. | [0-9]{9}       | 0 or 1      |
| Product Quantity         |   | [0-9]{1,5}     | = 1         |
| Location (store)         |   | [0-9]{4}       | 0 or 1      |
| Container                |   | [A-Z0-9]{1,20} | 0 or 1      |
| Barcode                  | Either Product Code or Barcode field must be present. | [0-9]{8,13}    | 0 or 1      |

The CSV layout can cater for both Cross Dock and Non Cross Dock ASNs, as shown by the examples in sections 5.1.2 & 5.1.3.

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### 3. Message Examples

#### 3.1. Examples of a Cross Dock ASNs

##### 3.1.1. XML format

Note that the container information is present. Also, the purchase order quantity field in the header record is absent, because each Cross Dock ASN can only have one purchase order.

```
<ns0:asnHeader xmlns:ns0="http://www.hof.co.uk/schemas/internalschemas/asnxml">
  <asn>
    <header>
      <asnId>10014</asnId>
      <asnSupplierId>1234567</asnSupplierId>
      <deliveryCentre>1600</deliveryCentre>
      <qtyPurchaseOrders>1</qtyPurchaseOrders>
      <qtyContainers>2</qtyContainers>
      <qtyItems>192</qtyUnits>
    </header>
    <purchaseOrder>
      <purchaseOrderId>978965</purchaseOrderId>
      <supplierId>1234567</supplierId>
      <container>
        <danId>SOR331800</danId>
        <locationId>0806</locationId>
        <containerId>0000000100212</containerId>
        <line>
          <lineItemId>879014977</lineItemId>
          <barcode>1234567890101</barcode>
          <qtyLineItem>39</qtyLineItem>
        </line>
        <line>
          <lineItemId>879026380</lineItemId>
          <barcode>1234567890102</barcode>
          <qtyLineItem>33</qtyLineItem>
        </line>
      </container>
      <container>
        <danId>SOR331801</danId>
        <locationId>0826</locationId>
        <containerId>0000000100229</containerId>
        <line>
          <lineItemId>879014977</lineItemId>
          <barcode>1234567890103</barcode>
          <qtyLineItem>75</qtyLineItem>
        </line>
        <line>
          <lineItemId>879026380</lineItemId>
          <barcode>1234567890104</barcode>
          <qtyLineItem>45</qtyLineItem>
        </line>
      </container>
    </purchaseOrder>
  </asn>
```

---

</ns0:asnHeader>

### 3.1.2. CSV format

The following ASN is for a *X-dock* order, with the same items as above being delivered to stores 0806 and 0826. This ASN is also given above in XML format.

```
00,1
01,10014,1234567,1,192,1600,2
02,10014,1234567,SOR331800,978965,879014977,39,0806,0000000100212,1234567890101
02,10014,1234567,SOR331800,978965,879026380,33,0806,0000000100212,1234567890102
02,10014,1234567,SOR331801,978965,879014977,75,0826,0000000100229,1234567890103
02,10014,1234567,SOR331801,978965,879026380,45,0826,0000000100229,1234567890104
```

ASN id    Supplier id    DAN \*\*    Purchase order id    Line item id \*\*    Qty    Destination store \*\*    Container id \*\*    EAN13 code \*\*

## 3.2. Example of a Non Cross Dock ASN

### 3.2.1. XML Format

Note that the container information and location identifiers are absent as this is a Non Cross Dock ASN.

```
<ns0:asnHeader xmlns:ns0="http://www.hof.co.uk/schemas/internalschemas/asnxml">
<asn>
<header>
<asnId>10014</asnId>
<asnSupplierId>1234567</asnSupplierId>
<deliveryCentre>1600</deliveryCentre>
<qtyPurchaseOrders>1</qtyPurchaseOrders>
<qtyItems>192</qtyUnits>
</header>
<purchaseOrder>
<purchaseOrderId>978965</purchaseOrderId>
<supplierId>1234567</supplierId>
<container>
<danId>SOR331800</danId>
<line>
<lineItemId>879014977</lineItemId>
<barcode>1234567890101</barcode>
<qtyLineItem>114</qtyLineItem>
</line>
<line>
<lineItemId>879026380</lineItemId>
<barcode>1234567890102</barcode>
<qtyLineItem>78</qtyLineItem>
</line>
</container>
```

---

```
</purchaseOrder>
</asn>
</ns0:asnHeader>
```

### 3.2.2. CSV Format

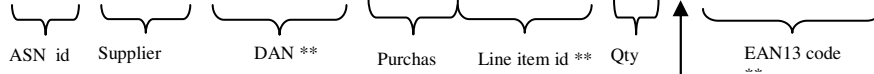
The following ASN is for a Non Cross Dock order, with all items being delivered to the NDC (1600). This ASN is also given above in XML format.

00,1

01,10014,1234567,1,192,1600,

02,10014,1234567,SOR331800,978965,879014977,114,,,1234567890101

02,10014,1234567,SOR331800,978965,879026380,78,,,1234567890102



Destination store \*\* & Container id \*\* fields are blank as they are optional and not required on a non-cross dock