



# IM-XML

Technical Documentation

Ingram Micro eSolutions Group - Europe

UK Version 2.0  
Last updated 04/11/2010

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# Overview

## What is IM-XML?

**IM-XML is Ingram Micro's XML ecommerce solution that uses cutting edge technology allowing business process and system integration with our trading partners. It is a solution designed to meet and exceed our Trading Partners requirements.**

Put simply, IM-XML will deliver *cost reduction* and *process improvement* of day-to-day business activity with our Trading Partners

IM-XML is *easier, quicker* and *cheaper* to implement than other integrated solutions such as EDI. This will cut down the development time and will allow Ingram Micro and its Trading Partners to integrate their systems more quickly. Integrated systems bring obvious benefits such as less phone calls for price and availability checks and order placement. It allows the Trading Partner to manage their own business activity with less reliance on Ingram Micro sales representatives to manage their account.

IM-XML allows *seamless integration* of the order process from the Trading Partner to Ingram Micro. Trading partners can empower their purchasing team to have instant access to Ingram Micro's inventory and can also be used to provide a similar 'virtual warehouse' scenario to an end-user website. Data and process flows can be incorporated into a Trading Partners financial and ordering system, desktop applications and more.

IM-XML provides functionality that is divided into distinctive transactions that have been designed to allow business process flexibility, optimum performance and to limit the amount of redundant data. Each transaction can be uniquely applied to certain key areas of the order management process and can be combined to provide a wealth of information.

IM-XML is a *real-time system*, which means that transactions are processed within seconds and provide accurate data directly from Ingram Micro's IMpulse system. Trading Partners can use the power of IM-XML to deliver fast and accurate data internally to their purchasing team and to their customers. High quality, high accuracy and high speed data allows business decisions to be made with confidence.

The transactions are:

**Price & Availability (P&A)** – Up to 50 Ingram Micro SKUs can be queried in a single IM-XML transaction

**Order Entry** – Standard products can be ordered

**Order Entry (Licences)** – Licence products can be ordered

**Order Change** – Allows all details (such as quantity, SKU, ship to address) to be changed by the Trading Partner before the order is released

**Order Status** – Includes fundamental order status information such as Ingram Micro sales order number, customer purchase order number, order entry date, order suffix, total sales amount, status (such as shipped, billed, back-ordered), invoice date, ship date, credit memo)

**Order Detail** – Highly detailed containing a large amount of data such as weight, order entry date, sales total, freight total, tax total, grand total, ship to attention, ship to address, bill to address, order status, carrier, ship date, SKU, manufacturers SKU, order quantity, back order quantity, unit price, SKU description, IM line number, customer line number, serial numbers, comments

**Order Tracking** – Includes focussed tracking data such as Ingram Micro sales order number, weight, carton count, order suffix, carrier, package ID, ship date, box number, tracking URL, Ingram Micro SKU

**Despatch Advice** – Provides shipping information for each order that is shipped from Ingram Micro

**Invoice** – Provides invoice information for each order that is shipped from Ingram Micro

## What is new for Version 2.0?

Version 2.0 of IM-XML provides the customer with the option to significantly increase the amount of information on the response documents as well as offering two new transactions (Invoice and Despatch Advice).

### ***Increased Detail Responses***

The extra information is controlled by the customer through the use of the element <ShowDetail>. Due to the amount of extra data that can be returned, not all of it will be applicable to all countries or all customers. Elements that are empty or that contain information that is not used by the customer will still need to be accounted for. Some of the elements will not contain information unless very specific conditions occur for the country, customer and transaction.

**Important Note:** All of the elements in the transaction documentation that are highlighted in yellow are the extra fields returned when the customer chooses to return the increased detail.

### ***Invoice***

The IM-XML Version 2.0 Invoice is not approved by any governing body as a legal electronic copy of an invoice. It is based on the Ingram Micro EDIFACT EDI format of a standard invoice. It is recommended that the paper invoice is still retained for legal purposes. One XML invoice will be sent for each order invoice.

### ***Despatch Advice***

The IM-XML Version 2.0 Despatch Advice provides the customer with a pro-active status message when their order is shipped from the Ingram Micro warehouse. Important pieces of information such as serial and tracking numbers are contained within this transaction. It is based on the Ingram Micro EDIFACT EDI format of a standard despatch advice. One XML despatch advice will be sent for each order invoice.

Invoice and Despatch Advice are different to all other IM-XML transactions because they are sent to the customer when a certain event occurs on IMpulse. This means that once configured, the customer does not need to request an invoice or despatch advice because they will be sent automatically. The XML Invoices are sent during batch processing whereas the despatch advice is sent throughout the day as and when shipping occurs.

## What is happening with Version 1.0?

IM-XML version 1.0 will be available to all customers for the foreseeable future. A large amount of customers across Europe use version 1.0 in production every single day and there are no current plans to decommission the use of it. It is expected that quite a high proportion of customers will upgrade to version 2.0 as the benefits outweigh the work effort.

This document now offers a technical guide for IM-XML version 2.0. The documentation for IM-XML version 1.0 is still available.

## Useful Information

### IP Addresses and URLs

IM-XML Administration website – <http://coronado.ingrammicro.com/imxml/login.jsp>

IM-XML load balanced URL to post documents to – <https://newport.ingrammicro.com/MUSTANG>

Source IP for Invoice, Despatch Advice, Asynchronous Order Response and Asynchronous Order Status - 64.40.232.254

### IMpulse Availability in Europe (weekdays)

Mainframe availability time hours:

Country	Available from	To
Belgium	05:00	24:00
Germany, Austria + Switzerland	05:00	23:00
Spain + Portugal	06:00	01:00
France	05:00	24:00
Italy	05:00	24:00
Netherlands	05:00	23:00
Sweden, Denmark, Norway + Finland	05:00	23:00
UK	06:00	00:30

### Data Formats

The *currency* format used within IM-XML will depend on the trading partner setup and can be one of three alternatives:

European 99,99

UK/American 99.99

Asia/Pacific 99.9999

The *date* format used within IM-XML is:

YYYY-MM-DD

## UK Carrier Codes

UK and Irish Republic partners should choose the appropriate carrier code when submitting an OrderRequest or OrderChangeRequest transactions

**Orders for delivery outside of the UK and Republic of Ireland are not permitted**

Carrier Code	Carrier	Carrier Service	Destination
C9	CityLink	Next day - pre- 9.30	GB (Scotland, England, Wales. May not be available in outlying areas. Check with your account manager)
CT	CityLink	Next day - pre-10:30	GB (Scotland, England, Wales. May not be available in outlying areas. Check with your account manager)
C2	CityLink	Next day - pre-noon	GB (Scotland, England, Wales. May not be available in outlying areas. Check with your account manager)
CN	CityLink	Next day	GB (Scotland, England, Wales. Outlying areas may be 48 hours)
CE	CityLink	Isle of Man	Isle of Man - post code prefix IM
CS	CityLink	Saturday Delivery	GB (Scotland, England, Wales)
CI	CityLink	Offshore 48-72 hours	Channel Islands - Post Code prefix JE or GY.
CE	CityLink	Northern Ireland	Post code prefix BT
SI*	UTI	Republic of Ireland	"EIRE" should be used as the postcode for Irish Republic orders
OT*	Other	Used on licence (DType) orders	Any UK or Ireland (Licence)
NX*	Consolidated	Consolidated orders - Next day	Central England (London to M62) Cannot be used for end user delivery

\*URLs not available for this carrier via IM-XML order tracking (Check with your account manager before using NX code)

## Support Procedure

In the event of an issue or a query that may arise before, during and after the integration of IM-XML, the support procedure is as follows:

Trading Partner Procedure:

**Step 1.** Verify that your query cannot be answered by the IM-XML FAQ document that is located in the download section of the administration web site.

**Step 2.** Verify that the fault is not a data entry issue and that all data submitted is correct.

**Step 3.** If document posting related, ensure that the transaction log viewable from the admin site is checked, as this may reveal the answer. This is because the transaction log can store more details on failed transactions.

**Step 4.** Collect as much information as possible on the issue, date, time, loginID and password, error message, etc and keep a record of this.

**Step 5.** Contact your local eCommerce Manager or eSolutions team by telephone or by email.

## IM-XML Administration Tool

The web-based administration tool is available to registered users and will be the central IM-XML reference point for Ingram Micro's Trading Partners. It is designed to act as a supportive environment that will provide the following features:

- Transactions logs can be viewed, allowing historical searching, sorting and reporting of data
- Standard reports can be generated and exported such as transaction reports
- Site activity can be viewed, allowing registered users to track changes made to profiles, passwords etc
- Testing of IM-XML documents using a simple cut, paste and submit format. This allows IM-XML documents to be tested quickly and easily
- New users can be added. User profiles and restrictions can be configured to allow specific access rights to specific transactions and areas of data
- New documentation can be downloaded. The IM-XML administration site will be where all new information will be available for download
- Help can be provided on using the site through an online help tool
- Performance of the tool (average response times) can be viewed
- <http://coronado.ingrammicro.com/imxml/login.jsp> – Use your production IM-XML logins to gain access

## Elements/Data Explanation

The specification for the Transactions Elements and the data they may contain is shown in the tables below marked Elements/Data Description. To understand how this works, a brief explanation of XML Element tags and nesting is required.

XML Elements and Nesting:

1. Each Element consists of an opening and a closing tag.
2. Anything placed between these tags is said to be contained by those tags.
3. Additional information within an Element's opening tag is called an Attribute.
4. Each Element may contain data.
5. Each Element may contain 1 or more additional Elements, called child Elements.
6. Each of the child Elements are said to be contained or nested within a parent Element.
7. Each child Element may itself be a parent Element, thus the nesting can be on more than 1 level.

In the Data Description tables whenever an Element is a parent Element, both it's opening and closing tags are shown, to indicate what the child elements are. Each table has the following headings.

**Element** – Gives the opening and closing tags of the Element. Closing tags are not shown if the Element has no children.

**Description** – Describes the Elements function

**Parent Element** – Indicates the parent Element of this child.

**NL** – Indicates the Nested Level, i.e. how far within the Parent/Child tree the Element resides. Helps to indicate which Elements are grouped together. 'A' indicates this is an Attribute, not an Element.

**Min/Max Occurrences** – Indicates the number of times the Element can be repeated, and whether the Element is compulsory. If an Element is not compulsory do not provide this in the XML message unless required. This only applies within the scope of the parent Element, i.e. a compulsory child is only compulsory if the parent Element is a part of the XML message. \* indicates that an element can occur many times,

**Data Type** – If the Element contains data, this indicates the type of data that is accepted.

**Min/Max Length** – Indicates any constraints on the data.

**Example Data** – Provides an appropriate example of the data required.

Highlighted text – Occasionally a group of Elements will be highlighted. This indicates that their parent Element can either contain the highlighted child Elements OR the non-highlighted child Elements, but not both.



## Transaction Details

### Transaction Header – Applies to all transactions

#### Description

The Transaction Header forms the basis of all transactions and must be used in conjunction with the main body of a transaction. It occurs after the transaction and version have been declared.

It contains data that links transactions to unique accounts within specific countries.

As the TransactionHeader section appears in all request and response documents, it will only be mentioned at this point in the documentation.

#### Transaction Header Request Notes:

**SenderID** can be used by the customer to assign a unique sender identification number

**ReceiverID** can be used by the customer to assign a unique receiver identification number

**CountryCode** is used to identify the country in which the order is to be placed

**LoginID** used for unique customer login identification

**Password** used for unique customer password identification

**TransactionID** can be used by the customer to assign a unique transaction identification number

#### Transaction Header Response Notes:

The response document contains a further 2 elements and 1 attribute. The usage of this is illustrated in each transaction example.

**ErrorStatus** contains a unique description according to the type of error

**ErrorNumber** is an attribute of ErrorStatus that contains a unique error number according to the type of error

**DocumentID** contains a GUID (GlobalUniqueIDentification) generated by Ingram Micro that can be used for message tracking purposes

The ErrorStatus element and ErrorDescription attribute of this element will be populated only if the transaction fails to complete successfully, otherwise they will be left blank.

## Order Request Transaction

### Description of Transaction

The Order Request transaction is a real-time transaction that allows customers to place standard product orders with Ingram Micro using XML.

#### **High-level description of Ingram Micro's distribution cycle:**

1. Order creation – where all the processing parameters are set. Validation is mostly on shipping address, product authorisation, and stock allocation.
2. Sales validation – orders may be put on a sales hold if any sales revision is required due to pricing, stock or any processing parameters.
3. Credit validation – once the order has been validated at sales, it goes through a credit check. If credit is available the order will process without issue.
4. Warehouse pick and ship – here is where the physical stock is pulled from the different warehouse locations and sent to the delivery bay for collection by the carrier. All of the shipment information is created at this stage (packing slips, tracking numbers, serial numbers).

The order request transaction specifies typical order information such as who to ship to, where to ship to, which carrier to use for the shipment, what order processing logic should be used, what products, the required quantity of the products and many other key pieces of information.

It follows no other logic than that which the customer specifies, but a unique feature of IM-XML actually allows more flexibility than many standard-ordering tools. For example: IM-XML allows the customer to place an order in the morning, add product lines, delete product lines, change quantities, change address details and then release the order at a later stage. This can all be achieved with the comfort of knowing that the very second that the initial order is placed, the stock has been allocated for your order and cannot be allocated to anybody else's order. This offers the customer a highly sophisticated ordering tool with a huge amount of flexibility.

To explain this feature further:

The order can be placed using one of two options, '*finalise*' or '*finalise and release*'.

To *finalise* (AutoRelease set to 0) an order means that it has been placed onto Ingram Micro's system and stock (where available) will be allocated to the order. This order will remain on hold unless otherwise instructed until the end of the business day. If stock is not available at that time, the backordered line enters in the product allocation queue.

**Important Note:** An order that has been finalised only, WILL NOT be processed at the end of the current working day if no further action is taken. It is also possible to release the order from hold or cancel the order by sending a subsequent transaction (Order Change Request).

To *finalise and release* (AutoRelease set to 1) an order means that it has been placed onto Ingram Micro's system, stock (where available) will be allocated and the order will continue through the distribution cycle.

This feature is enabled by using the AutoRelease element and can be found in the Processing Options Section below.

#### *Version 2.0*

The amount of detail that the Order Request response provides has been enhanced for version 2.0. The changes can be clearly seen by the pale yellow colouring in the response table. All uncoloured rows are available through version 1.0.

#### *Start of Order Header Information Section*

The order header section allows the customer to specify where and how the order should be shipped. The customer may specify the desired carrier, the auto release flagging and the back order settings among others. The option combination selected determines the number of order shipments and the ease with which the order can be filled at the requested quantities.

**BillToSuffix** refers to the location or flooring company that the invoice amount should be billed to. This is only valid for customers that have specific bill to suffix accounts. If a customer's account does not have any further billing accounts, the default of '000' should be sent.

#### *Start of Addressing Information Section*

**CustomerPO** refers to the customers purchase order number that applies to the order. IM can carry the customers purchase order number through the distribution cycle, so that it can be used to identify the order.

**ShipToAttention** refers to a person's name that needs to be displayed on the delivery note for reference by the carrier.

**EndUserPO** refer to the end users purchase order number that applies to the order. This element will only apply if Ingram Micro is shipping the order on the customer's behalf, directly to the end user.

#### *Start of Ship To Section*

The ship to section can contain:

A full address, with up to 3 address lines, city, country and postal/zip code.

OR

A ship to suffix that identifies a regular alternate ship-to location. If the customer has various locations (i.e. multiple warehouses, multiple outlets) it is possible for Ingram Micro to assign a ship to suffix for those locations. This way the customer will not have to enter all of the ship to information every time they want to ship to one of them.

***It is not possible to use both of these addressing options within a single order request; one or the other must be used.***

OR

No ship to information at all. If the order transaction is sent with all ship to elements removed, the order will automatically use the default ship-to address stored on Impulse. If an order is sent with blank ship to elements, the order will fail as it must be sent without the ship to elements for this feature to work

#### *Full Address Option*

#### *Start of Address Section*

**ShipToAddress1** refers to the first line of the delivery address.

**ShipToAddress2** refers to the second line of the delivery address.

**ShipToAddress3** refers to the third line of the delivery address.

**ShipToCity** refers to the city or town that is required for the delivery address.

**ShipToProvince** refers to the country in which the delivery address resides. This should always be the ISO country code and should be selected from the following list:

AT, BE, CH, DE, DK, ES, FI, FR, IT, NL, NO, SE, UK (for both UK and Republic of Ireland)

**ShipToPostalCode** refers to the postal/zip code that is required for the delivery address. Postcodes are validated and incorrect postcodes will result in the order not being placed.

It is not possible to place orders for any country other than the country in which the customer resides. Attempting to place an order for an alternative country will result in the order not being placed. This will happen regardless of whether the address is a valid alternative country address.

*End of address section*

*Ship To Suffix Option*

*Start of Suffix Section*

**ShipToCountryCode** refers to the country in which the delivery address resides. It is only required for AT, DK, NO and FI.

**ShipToSuffix** refers to an Ingram Micro account suffix that will automatically use the delivery address as defined on that account.

*End of Suffix section*

*End of Ship To Section*

*End of Addressing Information section*

*Start of Processing Options Section*

**CarrierCode** refers to the carrier service that has been selected for use when delivering the stock from Ingram Micro to the customer. Each customer will need a list of valid carrier services for their account.

**AutoRelease** refers to the processing options that determine whether the order should be processed for shipping with or without further intervention.

Two auto release options are available:

1. **0** - Do not auto release. Order will not be released for processing and shipping and will remain on IMpulse until the end of the business day at which point it will be released. It is possible to release the order using the Order Change IM-XML transaction (see below).
2. **1** - Allow auto release. Order will be automatically released for processing and shipping. Once released, the order cannot be changed.

*Start of Shipment Options Section*

**BackOrderFlag** refers to the processing options for an order when stock is not available for allocation. These are items that are not currently in stock at an Ingram Micro warehouse.

Four Backorder processing options are available:

1. **Y** Allow back orders and ship as inventory becomes available (possible multiple shipments).
2. **N** Do not allow back order. It will not be possible to order a product from a warehouse if it lacks the total requested quantity. In addition, depending on the split shipment option selected, the order line may be rejected.
3. **E** Allow back orders but ship when all products become available at the warehouse. This forces the order to remain on sales hold, waiting for all of the products to have stock allocated and trigger a complete single shipment. If all requested stock is available for immediate allocation, the order will release automatically.

When products are backordered and multiple shipments have been allowed (BackOrderFlag set to 'Y') Ingram Micro will generate a distribution count for the order called an order suffix.

### **High Level Order Suffix Description:**

Standard order:

20-48043-11 stands for OrderBranch-OrderNumber-DistributionCount

Order with multiple shipments and products on backorder: as seen before (with the BackOrderFlag set to 'Y'), this will generate a distribution count, which would result in two order numbers.

44-12345-11 This represents the Ingram Micro order number for the first shipment of stock

44-12345-12 This represents the Ingram Micro order number for the second shipment of stock. This occurs if the total required stock was not available for the initial shipment.

Order with all products on back order: it will only generate one distribution count. We can see 3 scenarios as some stock becomes available.

With the BackOrderFlag set to 'Y' the first shipment will keep the -11 order suffix, and the rest of backordered products will be moved to the -12 suffix.

With the BackOrderFlag set to 'C' all lines will stay on the -11 suffix until all of the stock from the warehouse can be allocated.

With the BackOrderFlag set to 'E', all the lines will stay on the -11 suffix and only one shipment will take place, which is when all stock from all warehouses becomes available.

**SplitShipmentFlag** refers to the processing options for an order that will allocate stock from more than one warehouse. This option is only applicable in countries where more than one stocking warehouse is available to allocate stock to orders.

Two split shipment processing options are available:

**Y** Allow split shipments. The order will be sourced from any available warehouses checking the default ship-from warehouse first. This option does not guarantee a single order shipment.

**N** Do not allow split shipments. Orders will not check for stock anywhere other than the default warehouse.

While an order may be split among a number of warehouses, each order line cannot be split (unless specified, see below) and is always sourced from a single warehouse. A reference warehouse number is returned in the New Order Request Response area on order creation.

***In Europe, Y should always be selected.***

**SplitLine** refers to the processing options for an order that will allocate stock to an order line from more than one warehouse. This option is only applicable in countries where more than one stocking warehouse is available to allocate stock to orders.

Two split line processing options are available:

1. **Y** Allow split lines. This will allow any quantity of any order line to be shipped if the stock is available.
2. **N** Do not allow split lines. This will not allow any quantity of any order line to be shipped until the entire quantity of that order line is available.

***Split Line is currently not available as an order processing option and has been included here for possible future use. In Europe, N should always be selected.***

**ShipFromBranches** refers to the Ingram Micro warehouse branch number that the stock should be shipped from. This is currently restricted to a limited number of Ingram Micro warehouse branch numbers for each European country.

The following table indicates which branch number should be used for each country

Country	Ingram Micro Branch Warehouse number
AT	44
BE	50, 83
CH	27, 44
DE	44
DK	33
ES	29, 78
FI	33
FR	21
IT	23
NL	22
NO	33
SE	33
UK	20

If inventory is insufficient to fill the desired quantity at that warehouse, the order line will be either backordered (BackOrderFlag = Y or E) or rejected (BackOrderFlag = N). *ShipFromBranches can also be submitted without any branch numbers which will automatically allocate stock from the correct branch.*

**DynamicMessage** refers to an option that becomes available to customers that have chosen to use the Ingram Micro service for Personalised Delivery. The Dynamic Message option will allow the customer to personalise the shipping documentation. For further information the customer should talk to an Ingram Micro eSolutions associate.

*End of Shipment Options Section*

*End of Processing Options Section*

*Start of Order Line Information Section*

The order line section can contain multiple instances of the product line section.

*Start of Product Line Section*

#### **Part Number Reference**

Ordering is available by Ingram Micro SKU, Manufacturer Part Number or EAN/UPC code. We recommend Ingram Micro SKU is used as there may be instances where two or more products in our catalogue have the same Manufacturer Part Number or EAN/UPC code

**Quantity** refers to the requested quantity of the SKU.

**SpecialBidNumber** A Special Bid Number can be sent at Header level or Line Level.

- Header Level – if Special Bid Number sent at Header Level this means all Lines on this Order are Special Bid Lines and a RequiredPrice is mandatory at Line Level.
- Line Level – if a SpecialBidNumber is sent at Line Level the SpecialBidNumber only applies to that Order Line (RequiredPrice is mandatory). A different SpecialBidNumber can be sent on each Order Line.

**Please note if the SpecialBidNumber is sent at Header Level it is loaded against each line on the order in Impulse.**

**RequestedPrice** This must be formatted to two decimal places. If RequestedPrice sent then SpecialBidNumber has to be provided at Header or Line Level. The RequestedPrice is not a guarantee Ingram Micro will supply the products at this price and will need to be authorized by Ingram Micro (accepted).

**Price Validation** If you wish IM-XML to validate the product price on a **non-special bid order** enter the value "PVAR" in the SpecialBidNumber element. The line may be rejected if it is outside of a pre-determined threshold. This functionality must be specifically requested from the local Ingram Micro ecommerce team.

**CustomerLineNumber** refers to the line number on the customer's original order. This means that Ingram Micro can carry the customer line numbers through the distribution cycle allowing the customer to maintain their order integrity.

*Start of Reserved Inventory Section*

The reserved inventory section allows the customer to allocate stock from their reserved inventory instead of allocating product from Ingram Micro's standard inventory. Reserve inventory is available by agreement only and more details can be obtained from an Ingram Micro eSolutions associate.

**ReserveCode** refers to the code required by Ingram Micro's system to identify the status type of the stock that has been reserved by the customer. The status type indicator is used to identify whether the stock is normal stock, constrained, large account program or priority.

**ReserveSequence** identifies the actual stock that has been reserved by the customer based on the reserve code that has been selected.

*End of Product Line Section*

*Start of Comment Line Section*

The comment line section can be included after every product line section and allows the customer to add comments to the order after each line has been added. All comment lines sent to Ingram Micro will be printed on the documentation that is sent when the first shipment is sent to the customer. Any subsequent shipments will not contain the comments

CommentText refers to the ability to specify a specific message that is deemed necessary to be displayed on the order when received by Ingram Micro. This comment will be included on the packing slip that is sent with the delivery. Comments that begin with /// (3 forward slashes) will not be printed on the packing slip, but will still be visible to the Ingram Micro sales team.

*End of Comment Line Section*

ShowDetail allows the customer to control the level of detail that is required for the response. Two options are available:

- '0' will display the minimum amount of detail in the response document
- '1' will display the medium amount of detail in the response document
- '2' will display the maximum amount of detail in the response document

*End of Order Request Section*

## Sample Document: OrderRequest

```

<OrderRequest>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>Reseller</SenderID>
    <ReceiverID>IngramMicro</ReceiverID>
    <CountryCode>UK</CountryCode>
    <LoginID>UK3833HHD</LoginID>
    <Password>Re887Jky52</Password>
    <TransactionID>54321</TransactionID>
  </TransactionHeader>
  <OrderHeaderInformation>
    <BillToSuffix />
    <AddressingInformation>
      <CustomerPO>CustomerPO_1</CustomerPO>
      <ShipToAttention>Mrs Jones</ShipToAttention>
      <EndUserPO>EndUserPO_1</EndUserPO>
      <ShipTo>
        <Address>
          <ShipToAddress1>Red House</ShipToAddress1>
          <ShipToAddress2>55 The Street</ShipToAddress2>
          <ShipToAddress3>Gosford</ShipToAddress3>
          <ShipToCity>London</ShipToCity>
          <ShipToProvince>UK</ShipToProvince>
          <ShipToPostalCode>SW1 3IM</ShipToPostalCode>
        </Address>
      </ShipTo>
    </AddressingInformation>
    <ProcessingOptions>
      <CarrierCode>CN</CarrierCode>
      <AutoRelease>1</AutoRelease>
      <KillOrderAfterLineError>N</KillOrderAfterLineError>
      <ShipmentOptions>
        <BackOrderFlag>Y</BackOrderFlag>
        <SplitShipmentFlag>N</SplitShipmentFlag>
        <SplitLine>N</SplitLine>
        <ShipFromBranches />
      </ShipmentOptions>
    </ProcessingOptions>
    <DynamicMessage>
      <MessageLines>Please deliver to Mrs Jones</MessageLines>
    </DynamicMessage>
  </OrderHeaderInformation>
  <OrderLineInformation>
    <ProductLine>
      <SKU>123A321</SKU>
      <Quantity>1</Quantity>
      <SpecialBid>
        <SpecialBidNumber>PVAR</SpecialBidNumber>
        <RequiredPrice>35.00</ RequiredPrice >
      </SpecialBid>
      <CustomerLineNumber>1</CustomerLineNumber>
    </ProductLine>
    <CommentLine>
      <CommentText>Handle with care</CommentText>
    </CommentLine>
  </OrderLineInformation>
  <ShowDetail>2</ShowDetail>

```



</OrderRequest>

## Elements/Attributes Description: OrderRequest

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<OrderRequest>	Root element	-	0	1/1	-	-	-
<Version>	XML Version	<OrderRequest>	1	1/1	String	3/3	2.0
<TransactionHeader>	Contains transaction header information	<OrderRequest>	1	1/1	-	-	-
<SenderID>	Sender identification	<TransactionHeader>	2	1/1	String	0/18	123456789
<ReceiverID>	Receiver identification	<TransactionHeader>	2	1/1	Char	0/18	987654321
<CountryCode>	2 character ISO country code	<TransactionHeader>	2	1/1	Char	2/2	UK
<LoginID>	Customer specific login	<TransactionHeader>	2	1/1	Char	6/10	UK3833HH D
<Password>	Customer specific password	<TransactionHeader>	2	1/1	Char	6/10	Re887Jky5 2
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	2	0/1	Char	1/18	54321
</TransactionHeader>	Close of transaction header	<OrderRequest>	1	1/1	-	-	-
<OrderHeaderInformation>	Contains order header information	<OrderRequest>	1	1/1	-	-	-
<BillToSuffix>	Location or flooring company that the invoice amount is to be billed to	<OrderRequest>	1	0/1	-	-	-
<AddressingInformation>	Contains order address information	<OrderHeaderInformation>	2	1/1	-	-	-
<CustomerPO>	Refers to the customer PO	<AddressingInformation>	3	1/1	Char	0/18	CustomerP O_1
<ShipToAttention>	Refers to persons name	<AddressingInformation>	3	0/1	Char	0/35	Mrs Jones
<EndUserPO>	Refers to the End User PO	<AddressingInformation>	3	0/1	Char	0/18	EndUserPO _1
<SpecialBidNumber>	Special Bid Number at Header Level – will be applied to all lines on the Order	<AddressingInformation>	3	0/1	String	0/35	Vendor supplied Special Bid Number
<ShipTo>	Contains addressing information. Only use if shipping to non-default location.	<AddressingInformation>	3	0/1	-	-	-
<Address>	Ship to address information	<ShipTo>	4	0/1	-	-	-
<ShipToAddress1>	Address line 1	<Address>	5	1/1	String	1/35	Redhouse
<ShipToAddress2>	Address line 2	<Address>	5	1/1	String	1/35	55 The Street
<ShipToAddress3>	Address line 3	<Address>	5	1/1	String	0/35	Gosford
<ShipToCity>	Name of city	<Address>	5	1/1	String	1/21	London
<ShipToProvince>	2 character ISO country code	<Address>	5	1/1	String	2/2	UK
<ShipToPostalCode>	Postal/zip code	<Address>	5	1/1	String	0/9	SW1 3IM
<ShipToCountryCode>	ISO Country Code, for use in the Nordics only.	<Address>	5	0/1	String	0/2	-
</Address>	Close of address	<ShipTo>	4	0/1	-	-	-
<Suffix>	Contains ship to suffix information	<ShipTo>	4	0/1	-	-	-
<ShipToSuffix>	Identifies a store location or a distribution center to ship the order	<Suffix>	5	1/1	String	3/3	200
<Suffix>	Close of Suffix	<ShipTo>	4	0/1	-	-	-

</ShipTo>	Close of ShipTo	<AddressingInformation>	3	0/1	-	-	-
</AddressingInformation>	Close of AddressingInformation	<OrderHeaderInformation>	2	1/1	-	-	-
<ProcessingOptions>	Contains order processing options information	<OrderHeaderInformation>	2	1/1	-	-	-
<CarrierCode>	2 character carrier code	<ProcessingOptions>	3	1/1	String	2/2	CT
<AutoRelease>	Automatic order release options	<ProcessingOptions>	3	0/1	String	1/1	0
<KillOrderAfterLineError>	Reject whole order if at least 1 line fails. Set to N to only reject the line	<ProcessingOptions>	3	0/1	String	1/1	N
<ShipmentOptions>	Contains shipment information	<ProcessingOptions>	3	1/1	-	-	-
<BackOrderFlag>	Back order processing options	<ShipmentOptions>	4	1/1	Char	1/1	N
<SplitShipmentFlag>	Split order shipment options	<ShipmentOptions>	4	1/1	Char	1/1	N
<SplitLine>	Split line options	<ShipmentOptions>	4	1/1	Char	1/1	N
<ShipFromBranches>	Ingram Micro warehouse branch codes	<ShipmentOptions>	4	1/1	String	0/10	20
</ShipmentOptions>	Close of ShipmentOptions	<ProcessingOptions>	3	1/1	-	-	-
</ProcessingOptions>	Close of ProcessingOptions	<OrderHeaderInformation>	2	1/1	-	-	-
<DynamicMessage>	Personalised delivery customers only	<OrderHeaderInformation>	2	0/1	-	-	-
<MessageLines>	Message lines can contain the carriage return code – PD only	<DynamicMessage>	3	1/1	String	1/175	Please deliver to Mrs Jones
</DynamicMessage>	DynamicMessage close	<OrderHeaderInformation>	2	0/1	-	-	-
</OrderHeaderInformation>	Close of OrderHeaderInformation	<OrderRequest>	1	1/1	-	-	-
<OrderLineInformation>	Contains order line information	<OrderRequest>	1	1/1	-	-	-
<ProductLine>	Contains product information	<OrderLineInformation>	2	1/*	-	-	-
<SKU>	Ingram Micro product code Number - Do not specify if <ManufacturerPartNumber> or <UPC> are included	<ProductLine>	3	1/1	String	1/12	123A321
<Quantity>	Number of stock units required	<ProductLine>	3	1/1	Int	0/*	001
<SpecialBid>	Contains Special Bid information	<ProductLine>	3	0/1	-	-	-
<SpecialBidNumber>	SpecialBidNumber at Line Level – specific to this Product Line	<SpecialBid>	4	0/1	String	1/35	Vendor supplied Special Bid Number or PVAR for price validation
<RequestedPrice>	Special Bid Price	<SpecialBid>	4	0/1	String	1/*	Special Bid Price to 2 decimal places
</SpecialBid>	SpecialBid close	<ProductLine>	3	0/1	-	-	-
<CustomerLineNumber>	Line number may be used for customer internal reference	<ProductLine>	3	0/1	String	0/3	001
<ManufacturerPartNumber>	Manufacturer Part Number - Do not specify if <SKU> or <UPC> are included	<ProductLine>	3	0/1	String	1/20	BNK8876Y
<UPC>	EAN/UPC Number - Do not specify if <ManufacturerPartNumber>	<ProductLine>	3	0/1	String	1/13	0123456789012

	ber> or <SKU> are included						
<ReservedInventory>	Contains reserved Inventory information. Unless required, do not specify.	<ProductLine>	3	0/1	-	-	-
<ReserveCode>	RI SKU Type. C=Constrained G=General L=LAP – Large Account Program P=Priority	<ReservedInventory>	4	1/1	Char	1/1	C
<ReserveSequence>	Sequence number assigned to inventory	<ReservedInventory>	4	1/1	String	2/2	01
</ReservedInventory>	Close of reserved inventory	<ProductLine>	3	0/1	-	-	-
</ProductLine>	ProductLine close	<OrderLineInformation>	2	1/1	-	-	-
<CommentLine>	Contains comment line information	<OrderLineInformation>	2	0/1	-	-	-
<CommentText>	Allows text to be added after SKU's have been added	<CommentLine>	3	1/1	String	1/35	Handle with care
</CommentLine>	CommentLine close	<OrderLineInformation>	2	0/1	-	-	-
</OrderLineInformation>	OrderLineInformation close	<OrderRequest>	1	1/1	-	-	-
<ShowDetail>	Detailed / normal response	<OrderRequest>	1	1/1	String	1/1	1
</OrderRequest>	OrderRequest close	-	0	1/1	-	-	-

### Sample Document: OrderResponse

```

<OrderResponse>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>IngramMicro</SenderID>
    <ReceiverID>Reseller</ReceiverID>
    <ErrorStatus ErrorNumber=""></ErrorStatus>
    <DocumentID>{9D25E715-F65E-432F-A773-9E22FEA8FBDF}</DocumentID>
    <TransactionID>12345</TransactionID>
    <TimeStamp>2010-09-01T00:00:00</TimeStamp>
  </TransactionHeader>
  <OrderInfo>
    <OrderNumbers>
      <BranchOrderNumber>2048043</BranchOrderNumber>
      <CustomerPO>2323232</CustomerPO>
      <ThirdPartyFreight></ThirdPartyFreight>
      <ShipToAttention>Mrs Jones</ShipToAttention>
      <ShipToAddress1>Red House</AddressLine1>
      <ShipToAddress2>The Street</AddressLine2>
      <ShipToAddress3>Gosford</AddressLine3>
      <ShipToCity>London</ShipToCity>
      <ShipToProvince>UK</ShipToProvince>
      <ShipToPostalCode>MK8 8DF</ShipToPostalCode>
      <ShipToSuffix></ShipToSuffix>
      <AddressErrorMessage AddressErrorType=""></AddressErrorMessage AddressErrorType="">
      <ContractNumber><ContractNumber>
      <OrderSuffix Suffix="11">
        <DistributionWeight>45</DistributionWeight>
        <SuffixErrorResponse SuffixErrorType=""></SuffixErrorResponse SuffixErrorType="">
        <Carrier CarrierCode="CN">CITY LINK NEXTDAY</Carrier>
      </OrderSuffix>
      <LineInformation>
        <ProductLine>
          <LineError/>

```

```

<SKU>123A321</SKU>
<ManufacturerPartNumber>B85858745</ManufacturerPartNumber>
<UPC>9876543219770</UPC>
<UnitPrice>34.99</UnitPrice>
<IngramLineNumber>020</IngramLineNumber>
<CustomerLineNumber>003</CustomerLineNumber>
<ShipFromBranch>20</ShipFromBranch>
<OrderQuantity>10</OrderQuantity>
<AllocatedQuantity>9</AllocatedQuantity>
<BackOrderedQuantity>1</BackOrderedQuantity>
<BackOrderETADate>2010-10-01</BackOrderETADate>
<PriceDerivedFlag/>
<ForeignCurrency>0</ForeignCurrency>
<FreightRate>12.50</FreightRate>
<TransitDays>1</TransitDays>
<LineBillToSuffix>200</LineBillToSuffix>
</ProductLine>
<CommentLine>
  <CommentText>please deliver to grey door</CommentText>
  <CommentLineNumber>001</CommentLineNumber>
</CommentLine>
</LineInformation>
</OrderSuffix>
</OrderNumbers>
</OrderInfo>
</OrderResponse>

```

### Elements/Attributes Description: OrderResponse

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<OrderResponse>	Root element	-	0	1/1	-	-	-
<Version>	XML Version	<OrderRequest>	1	1/1	String	3/3	2.0
<TransactionHeader>	Contains transaction header information	<OrderRequest>	1	1/1	-	-	-
<SenderID>	Sender identification	<TransactionHeader>	2	1/1	Char	0/18	987654321
<ReceiverID>	Receiver identification	<TransactionHeader>	2	1/1	Char	0/18	123456789
<ErrorStatus>	Refers to the error description generated by the transaction. Blank if transaction was successful	<TransactionHeader>	2	1/1	String	0/100	ERROR: Login ID is invalid
ErrorNumber	Refers to the error number that has been generated by the transaction. Each error number is associated with a unique error message. Blank if transaction was successful	Attribute of <ErrorStatus>	A	1/1	String	0/10	20007
<DocumentID>	Unique ID generated by Ingram Micro	<TransactionHeader>	2	1/1	String	1/40	{9D25E715-F65E-432F-A773-9E22FEA8FBDF}
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	2	0/1	Char	1/18	12345
<TimeStamp>	Date and time of transaction (CET)	<TransactionHeader>	2	1/1	Char	1/19	2003-07-07T00:00:00
</TransactionHeader>	Close of transaction header	<OrderRequest>	1	1/1	-	-	-
<OrderInfo>	Contains order information	-	1	1/1	-	-	-
<OrderNumbers>	Contains order number information	<OrderInfo>	2	1/1	-	-	-
<BranchOrderNumber>	Ingrammicro order number	<OrderNumbers>	3	1/1	String	7/7	2048043
<CustomerPO>	Customer order number	<OrderNumbers>	3	1/1	String	0/18	2323232
<ShipToAttention>	Attention field	<OrderNumbers>	3	1/1	String	0/35	Mrs Jones
<ThirdPartyFreight>	Reserved for future use	<OrderNumbers>	3	1/1	String	0/12	11223344

<ShipToAddress1>	Address line 1	<OrderNumbers>	3	1/1	String	1/35	Red House
<ShipToAddress2>	Address line 2	<OrderNumbers>	3	1/1	String	1/35	The Street
<ShipToAddress3>	Address line 3	<OrderNumbers>	3	1/1	String	1/35	Gosford
<ShipToCity>	Name of city / town	<OrderNumbers>	3	1/1	String	1/21	London
<ShipToProvince>	2 character ISO country code	<OrderNumbers>	3	1/1	Char	2/2	UK
<ShipToPostalCode>	Post / zip code	<OrderNumbers>	3	1/1	String	0/9	MK8 8DF
<ShipToSuffix>	Ship-to suffix (if used)	<OrderNumbers>	3	1/1	Int	0/3	201
<AddressErrorMessage>	Refers to the error description generated by the transaction. Blank if transaction was successful	<OrderNumbers>	3	1/1	String	0/100	Invalid zipcode
<AddressErrorTypeCode>	Refers to an error number generated by the address. Each error number is associated with a unique error message. Blank if transaction was successful	Attribute of <AddressErrorMessage>	A	1/1	String	0/10	20008
<ContractNumber>	Reserved for future use	<OrderNumbers>	3	1/1	String	0/30	DG883
<OrderSuffix>	Contains order suffix information	<OrderNumbers>	3	0/*	-	-	-
Suffix	Suffix number of the order	<OrderSuffix> attribute	A	1/1	String	2/2	11
<DistributionWeight>	Weight of the shipment	<OrderSuffix>	4	1/1	Int	1/5	45
<SuffixErrorResponse>	Refers to the error description generated by the transaction. Blank if transaction was successful	<OrderSuffix>	4	1/1	String	0/100	Invalid order
<SuffixErrorType>	Refers to an error number generated by the address. Each error number is associated with a unique error message. Blank if transaction was successful	Attribute of <SuffixErrorResponse>	A	1/1	Int	0/10	20014
<Carrier>	Carrier description	<OrderSuffix>	4	0/1	String	0/2	City Link Nextday
CarrierCode	Carrier code	<Carrier> attribute	A	0/1	String	0/2	CT
<LineInformation>	Contains product line information	<OrderSuffix>	4	1/*	-	-	-
<ProductLine>	Contains line level information	<LineInformation>	5	1/*	-	-	-
<LineError>	Line level error message	<ProductLine>	6	1/1	String	0/100	Invalid SKU
<SKU>	Ingram Micro product Code	<ProductLine>	6	1/1	String	1/12	123A321
<ManufacturerPartNumber>	Manufacturer Part Number	<ProductLine>	6	0/1	String	1/20	BNK8876Y
<UPC>	EAN/UPC code	<ProductLine>	6	0/1	String	1/13	012345678 9012
<SpecialBidNumber>	Special Bid Number returned at Line Level (even if sent at Header Level in the Order Request)	<ProductLine>	6	0/1	String	0/35	1234abcd
<SpecialBidMessage>	Static Message	<ProductLine>	6	0/1	String	0/35	Pricing is pending authorisation
<UnitPrice>	Price of each unit	<ProductLine>	6	1/1	String	1/*	34.99
<IngramLineNumber>	Ingram Micro line number	<ProductLine>	6	1/1	Int	3/3	020
<CustomerLineNumber>	Customer line number	<ProductLine>	6	0/1	String	0/3	003
<ShipFromBranch>	Ingram Micro warehouse branch codes	<ProductLine>	6	1/1	Int	2/2	20
<OrderQuantity>	Quantity that was ordered	<ProductLine>	6	1/1	Int	1/*	10
<AllocatedQuantity>	Quantity that has been allocated to the order	<ProductLine>	6	1/1	Int	1/*	9
<BackOrderedQuantity>	Quantity that is on backorder	<ProductLine>	6	1/1	Int	1/*	1
<BackOrderETADate>	Date when backordered stock will arrive at Ingram Micro	<ProductLine>	6	1/1	String	0/*	2003/07/21
<PriceDerivedFlag>	Refers to price code	<ProductLine>	6	1/1	Char	1/1	A
<ForeignCurrency>	Foreign Currency amount – Applies only to Nordic countries	<ProductLine>	6	1/1	String	0/*	0
<FreightRate>	Amount of freight to be charged	<ProductLine>	6	1/1	Int	0/*	12.50
<TransitDays>	Transit calculation	<ProductLine>	6	1/1	String	1/1	1
<LineBillToSuffix>	Line level bill to suffix	<ProductLine>	6	1/1	String	3/3	200
</ProductLine>	Close of product line	<LineInformation>	5	1/1	-	-	-
<CommentLine>	Contains comment	<LineInformation>	5	0/*	-	-	-

	information						
<CommentText>	Comments that can be submitted to IMpulse	<CommentLine>	6	1/1	String	1/35	Please deliver at blue door
<CommentLineNumber>	Line number of the comment	<CommentLine>	6	1/1	Int	0/3	020
</CommentLine>	Close of comment section	<LineInformation>	5	1/1	-	-	-
</LineInformation>	Close of product line information	<OrderSuffix>	4	1/1	-	-	-
</OrderSuffix>	<OrderSuffix> close	<OrderNumbers>	3	0/*	-	-	-
</OrderNumbers>	<OrderNumbers> close	<OrderInfo>	2	1/1	-	-	-
</OrderInfo>	-	<OrderResponse>	1	1/1	-	-	-
</OrderResponse>	Close of order response	-	0	1/1	-	-	-

#### An error response:

An example of an error message that will be generated if Login parameters are invalid:

```
<TransactionHeader>
  <ErrorStatus ErrorNumber="20007">ERROR:
    LoginID, or Password or CountryCode is
    incorrect</ErrorStatus>
  <DocumentID>{0598CBDE-30B5-497E-9096-CAC5992D4AFD}
  </DocumentID>
  TransactionID>54321</TransactionID>
  TimeStamp>2001-07-16T17:25:58</TimeStamp>
</TransactionHeader>
```

#### Notes:

If the transaction cannot be processed successfully <TransactionHeader> is the only element that will be populated and sent back to the client.

If transmission fails during the submission of an order, it is possible to retrieve the Ingram Micro Purchase Order number from the IM-XML administration website.

## Asynchronous Order Request

### Description of Transaction

Asynchronous Order Request allows the customer the freedom to place an order at any time of day or night regardless of the Ingram Micro batch processing times.

The Asynchronous Order Request process is different to the normal Order Request process in the following ways:

- When the order is received by Ingram Micro, an acknowledgement will be sent back immediately to the customer to prove receipt of the transaction
  - The Asynchronous Order Acknowledgement is a very short XML message
  - At this stage the order has not been entered onto IMPulse
- The order is entered in IMPulse as soon as possible
  - The order will be entered as soon as IMPulse is available. This could be immediately or within several hours depending on the time of order placement
- The order response is sent Asynchronously to the customer
  - The Asynchronous Order Response could be sent to the customer virtually immediately or within several hours depending on the time of order placement
  - The order response is identical to a synchronous order response
  - Requires a listening script on the customers XML server to receive the response and to return an HTTP 200 message back to Ingram Micro
    - Listening script is used for Despatch Advice and Invoice transactions

### How to send Asynchronous Order Request:

Step 1. Version number must be changed from 2 to 2.5 and **unique TransactionID values must be used on every transaction**

<Version>2.5</Version>

Step 2. Order acknowledgement must be accepted by the customer

### Sample Document: Asynchronous Order Acknowledgement

```
<OrderAcknowledgement>
<Version>2.5</Version>
<TransactionHeader>
  <SenderID>987654321</SenderID>
  <ReceiverID>123456789</ReceiverID>
  <ErrorStatus ErrorNumber="" />
  <DocumentID>{833459ED-9B68-45D2-8E7D-4635279D6878}</DocumentID>
  <TransactionID>54321</TransactionID>
  <TimeStamp>2006-11-01T14:55:32</TimeStamp>
</TransactionHeader>
<OrderInfo>
  <CustomerPO>CustomerPO_1</CustomerPO>
  <EndUserPO>EndUserPO_1</EndUserPO>
</OrderInfo>
</OrderAcknowledgement>
```

## Elements/Attributes Description: Asynchronous Order Acknowledgement

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<OrderAcknowledgement>	Root element	-	0	1/1	-	-	-
<Version>	XML Version	<OrderRequest>	1	1/1	String	3/3	2.5
<TransactionHeader>	Contains transaction header information	<OrderRequest>	1	1/1	-	-	-
<SenderID>	Sender identification	<TransactionHeader>	2	1/1	Char	0/18	987654321
<ReceiverID>	Receiver identification	<TransactionHeader>	2	1/1	Char	0/18	123456789
<ErrorStatus>	Refers to the error description generated by the transaction. Blank if transaction was successful	<TransactionHeader>	2	1/1	String	0/100	ERROR: Login ID is invalid
ErrorNumber	Refers to the error number that has been generated by the transaction. Each error number is associated with a unique error message. Blank if transaction was successful	Attribute of <ErrorStatus>	A	1/1	String	0/10	20007
<DocumentID>	Unique ID generated by Ingram Micro	<TransactionHeader>	2	1/1	String	1/40	{9D25E715-F65E-432F-A773-9E22FEA8FBDF}
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	2	0/1	Char	1/18	12345
<TimeStamp>	Date and time of transaction (CET)	<TransactionHeader>	2	1/1	Char	1/19	2003-07-07T00:00:00
</TransactionHeader>	Close of transaction header	<OrderRequest>	1	1/1	-	-	-
<OrderInfo>	Contains order information	-	1	1/1	-	-	-
<CustomerPO>	Customer order number	<OrderInfo>	2	1/1	String	0/18	2323232
<EndUserPO>	End user order number	<OrderInfo>	2	1/1	String	0/18	15151515
<OrderAcknowledgement>	Close of Order Acknowledgement	-	0	1/1	-	-	-

### Step 3. Order response must be accepted by the customer

A listening script must be used to 'receive' the order response when Ingram Micro sends it to the customer. Customers already using Despatch Advice and Invoice will be familiar with the requirements.



## Asynchronous Order Status Transaction

### Description of Transaction

Asynchronous Order Status is the best way for customers to be updated of the status of their orders. A transaction is pushed to the customer when specific events happen on IMPulse to each order. Implementing this transaction removes the need for customers to constantly check the status of their order as Ingram Micro can inform them automatically as soon as it changes.

The Asynchronous Order Status is sent to the customer when specified events occur to an order. Events such as invoicing, ETA change on backorders and order voiding are examples of events that can happen to an order that could result in an Asynchronous Order Status Transaction being sent to the customer.

It is possible to configure *up to 3 events per partner* to trigger automatic status updates.

*Possible event triggers:*

- *Order printed* – This means that the order has been released to the warehouse for picking
- *Order voided* – This means that the order has been deleted
- *Floor denial* – This means that IM has not been able to complete the order in the warehouse and a backorder for the missing product will be created
- *Order invoiced* – This means that the order has been invoiced
- *Promise date change* – This means that the ETA date on the backorder has changed
- *Stock allocated* – This means that stock has arrived in the Ingram Micro warehouse and has been allocated to your backorder

The customer must provide a postback URL to which the transaction is to be posted.

### Additional information for Asynchronous Order Status

The Asynchronous Order Status is identical in structure to the OrderDetailResponse message in the next section.

## Order Detail Transaction

### Description of Transaction

This is a real time request that allows the customer to query Ingram Micro's IMPulse system for detailed information for a specific open or shipped order (in the last 18 months). Orders are searched using the Sales Order Number (BranchOrderNumber) and the Customer PO number (CustomerPO). A customer may optionally refine the search by sending the Order Suffix (OrderSuffix).

The possible status codes are:

Open order, Order in progress, Billed, Billing error, Forced billed, Tag hold, Invoiced, Pending, Customer hold, Paid, Released, Shipped, Voided, Order not printed, Sales hold.

**Special Rules for Austria, Belgium, Denmark, Finland, France, Germany, Hungary, Italy Netherlands, Norway, Spain and Sweden:**

*The Order Detail transaction needs to be used differently due to alternative invoicing rules in the countries listed above. The difference is that the Ingram Micro order number in these countries is not re-used as the Ingram Micro invoice number. This means that the original order number is replaced with a new invoice number after billing. Any attempt to retrieve order detail information on a billed order with the original order number will result in the error message 'Order not found'.*

*The process that must be followed in order to get the detail information on a billed order for BE, FR, IT and ES is:*

*Step 1 – Use the customer PO number in an order status transaction to retrieve the correct invoice number*

*Step 2 – Use the invoice number from the order status transaction in the order detail transaction*

Version 2.0

The amount of detail that the Order Detail response provides has been enhanced for version 2.0. The changes can be clearly seen by the pale yellow colouring in the response table. All uncoloured rows are available through version 1.0.

For SpecialBidNumber and MiscCharge to be returned the ShowDetail must be set to A.

### Inbound XML Document

Root element Name: "OrderDetailRequest"

### Sample Document: OrderDetailRequest

```
<OrderDetailRequest>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <CountryCode>UK</CountryCode>
    <LoginID> UK3833HHD </LoginID>
    <Password> Re887Jky52</Password>
    <TransactionID>54321</TransactionID>
  </TransactionHeader>
  <OrderHeaderInfo>
    <BranchOrderNumber>2048043</BranchOrderNumber>
    <OrderSuffix />
    <CustomerPO>CustomerPO_1</CustomerPO>
  </OrderHeaderInfo>
  <ShowDetail>1</ShowDetail>
</OrderDetailRequest>
```

## Elements/Attributes Description: OrderDetailRequest

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<OrderDetailRequest>	Contains order detail	-	0	1/1	-	-	-
<Version>	XML Version	<OrderDetailRequest>	1	1/1	String	3/3	2.0
<TransactionHeader>	See Transaction Header	<OrderDetailRequest>	1	1/1	-	-	-
<SenderID>	Contains Ingram Micro Sender Identification	<TransactionHeader>	2	1/1	String	0/18	123456789
<ReceiverID>	Contains Customer / Vendor Identification	<TransactionHeader>	2	1/1	String	0/18	987654321
<CountryCode>	2 character ISO country code	<TransactionHeader>	2	1/1	Char	2/2	UK
<LoginID>	Customer specific login	<TransactionHeader>	2	1/1	Char	6/10	UK3833HH D
<Password>	Customer specific password	><TransactionHeader>	2	1/1	String	6/10	Re887Jky5 2
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	2	0/1	String	1/18	54321
</TransactionHeader>	Transaction Header Close	<OrderDetailRequest>	1	1/1	-	-	-
<OrderHeaderInfo>	Contains order header information	<OrderDetailRequest>	1	1/1	-	-	-
<BranchOrderNumber>	Ingrammicro branch and order number	<OrderHeaderInfo>	2	1/1	String	7/7	2048043
<OrderSuffix>	Ingrammicro order suffix number	<OrderHeaderInfo>	2	0/1	String	2/2	11
<CustomerPO>	Customer PO number	<OrderHeaderInfo>	2	1/1	String	1/18	CustomerP O_1
</OrderHeaderInfo>	<OrderHeaderInfo> close	<OrderDetailRequest>	1	1/1	-	-	-
<ShowDetail>	Detailed / normal response	<OrderHeaderInfo>	1	1/1	String	1/1	1
</OrderDetailRequest>	<OrderDetailRequest> close	-	0	1/1	-	-	-

### Notes:

If an order detail request is sent with the Ingram Micro branch order number, the customer PO and not the order suffix, the transaction will retrieve information on all shipments that resulted from the order. In the example above it would return information on Ingram Micro branch order numbers 2048043-11, 2048043-12 and so on, if these subsequent shipments occurred. By specifying an order suffix, only information for that shipment will be returned and if any further shipments were made, it will not return the information on them.

### Outbound XML Document

Root element Name: "OrderDetailResponse"

### Sample Document: OrderDetailResponse

```

<OrderDetail Response>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <ErrorStatus ErrorNumber=""></ErrorStatus>
    <DocumentID>{9D25E715-F65E-432F-A773-9E22FEA8FBDF}</DocumentID>
    <TransactionID>12345</TransactionID>
    <TimeStamp>2003-07-07T11:50:24</TimeStamp>
  </TransactionHeader>
  <OrderInformation>
    <BranchOrderNumber>2048043</BranchOrderNumber>
    <CustomerPO>CustomerPO_1</CustomerPO>
    <EndUserPO/>
    <OrderWeight>6</OrderWeight>
    <OrderEntryDate>2003-03-07</OrderEntryDate>
    <InvoiceDate>07/07/2003</InvoiceDate>
  </OrderInformation>
</OrderDetail Response>

```

```

<PromiseDate>07/07/2003</PromiseDate>
  <OrderType>O</PromiseDate>
  <FulfillmentFlag/>
  <ShipComplete>Y</ShipComplete>
  <HoldReason>GM</HoldReason>
  <TermsCode>300</TermsCode>
  <ResellerNBR>20123456000</ResellerNBR>
  <NumberOfCartons>1</PromiseDate>
  <CreditMemoReasonCode/>
  <ConfigFlag/>
  <SplitBillToSwitch/>
  <SplitFromOrderNumber/>
  <RMACode/>
  <CreditCardSW/>
  <GovEndUserType/>
  <EntryMethod>L</EntryMethod>
  <TermID>LU6X</TermID>
  <BackOrderStatus>C</BackOrderStatus>
  <ShippableSW>Y</ShippableSW>
  <ConfigTimeStamp/>
  <SelSrcSlsHdr>5200</SelSrcSlsHdr>
  <SelSrcAcctnoHdr/>
  <OECarrier>OT</OECarrier>
  <FrtOutCode/>
  <ProNbrSW/>
  <ProNbr/>
  <OrderTotals>
    <SalesTotal>22.10</SalesTotal>
    <FreightTotal>9.40</FreightTotal>
    <TaxTotal>2.21</TaxTotal>
    <SalePlusTax>24.31</TaxTotal>
    <GrandTotal>33.71</GrandTotal>
    <CODAmount>33.71</CODAmount>
    <DiscountAmount>0</DiscountAmount>
    <CurrencyCode>EUR</CurrencyCode>
    <CompanyCurrency>EUR</CompanyCurrency>
    <CurrencyRate>1</CurrencyRate>
  </OrderTotals>
  <OrderSuffix ShipTo="11" BillTo="1234">
    <ShipToInformation>
      <ShipToAttention>Mrs Jones</ShipToAttention>
      <ShipToAddress1>Red House.</ShipToAddress1>
      <ShipToAddress2>55 The Street</ShipToAddress2>
      <ShipToAddress3 />
      <ShipToCity>London</ShipToCity>
      <ShipToProvince>UK</ShipToProvince>
      <ShipToPostalCode>SW1 1IM</ShipToPostalCode>
    </ShipToInformation>
    <BillToInformation>
      <BillToAddress1>8020 PARKSMEAD WAY</BillToAddress1>
      <BillToAddress2 />
      <BillToAddress3 />
      <BillToCity>Milton Keynes</BillToCity>
      <BillToProvince>Bucks</BillToProvince>
      <BillToPostalCode>MK5 5DR</BillToPostalCode>
      <BillToCountryCode>UK</BillToCountryCode>
    </BillToInformation>
    <ShipFromBranch Number="20">UK</ShipFromBranch>
    <OrderStatus>Paid</OrderStatus>
    <Carrier Code="CT">CITY LINK</Carrier>
    <OrderShipDate>2003-03-07</OrderShipDate>
    <OrderLineDetail>

```

```

<ProductLine>
  <SKU>123A321</SKU>
  <SKUDescription>50" Plasma Screen</SKUDescription>
  <SpecialBidNumber>35 Characters in length</SpecialBidNumber>
  <OrderQuantity>1</OrderQuantity>
  <ShipQuantity>1</ShipQuantity>
  <BackOrderQuantity>0</BackOrderQuantity>
  <ComponentQty>0</ComponentQty>
  <BackOrderETADate>07/03/2003</BackOrderETADate>
  <NonWayPromiseDate>07/03/2003</NonWayPromiseDate>
  <UnitPrice>22.10</UnitPrice>
  <UnitOfMeasure>Ea</UnitOfMeasure>
  <ResellerUnitPrice>0</ResellerUnitPrice>
  <ExtendedLineSales>22.10</ExtendedLineSales>
  <LineSalesTotal>22.10</LineSalesTotal>
  <LineTerms>30</LineTerms>
  <CustomerLineNumber>1</CustomerLineNumber>
  <CustomerItemNumber>1</CustomerItemNumber>
  <IngramLineNumber>014</IngramLineNumber>
  <ReserveSequenceNbr>N/A</ReserveSequenceNbr>
  <VendorPartNumber>6382-34RF</VendorPartNumber>
  <VendorName>CISCO SYSTEMS</VendorName>
  <SelSrcSl>N/A</SelSrcSl>
  <SelSrcAcctno>N/A</SelSrcAcctno>
  <FreeltemSwitch>N</FreeltemSwitch>
  <SystemComponentSwitch>N</SystemComponentSwitch>
  <ConfigInformation>
    <ConfigIndicator>NA</ConfigIndicator>
    <ConfigStatus>NA</ConfigStatus>
    <ConfigAssemblyCode>NA</ ConfigAssemblyCode>
    <ConfigLabCode>NA</ConfigLabCode>
    <ConfigOnHoldSw>NA</ConfigOnHoldSw>
    <ConfigPcrCnt>NA</ConfigPcrCnt>
    <ConfigPchCnt>NA</ConfigPchCnt>
    <ConfigStgCnt>NA</ConfigStgCnt>
    <ConfigSthCnt>NA</ConfigSthCnt>
    <ConfigWipCnt>NA</ConfigWipCnt>
    <ConfigQaaCnt>NA</ConfigQaaCnt>
    <ConfigQahCnt>NA</ConfigQahCnt>
    <ConfigBinCnt>NA</ConfigBinCnt>
    <ConfigOshCnt>NA</ConfigOshCnt>
    <ConfigHoldReasonText>NA</ConfigHoldReasonText>
  </ConfigInformation>
  <SkuSerialNumber>
    <SerialNumber />
  </SkuSerialNumber>
</ProductLine>
<CommentLine>
  <Comment>Electronic Order Rebate</Comment>
  <MiscCharge>13.40</MiscCharge>
</CommentLine>
</OrderLineDetail>
</OrderSuffix>
</OrderInformation>
</OrderDetailResponse>

```

## Elements/Attributes Description: OrderDetailResponse

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<OrderDetailResponse>	Contains Order Detail Response	-	0	1/1	-	-	-
<Version>	XML Version	<OrderDetailResponse>	1	1/1	String	3/3	2.0
<TransactionHeader>	Contains transaction header information	<OrderDetailResponse>	1	1/1	-	-	-
<SenderID>	Sender identification	<TransactionHeader>	2	1/1	Char	0/18	987654321
<ReceiverID>	Receiver identification	<TransactionHeader>	2	1/1	Char	0/18	123456789
<ErrorStatus>	Refers to the error description generated by the transaction. Blank if transaction was successful	<TransactionHeader>	2	1/1	String	0/100	ERROR: Login ID is invalid
<ErrorNumber>	Refers to error number generated by the transaction. Blank if transaction was successful	Attribute of <ErrorStatus>	A	1/1	String	0/10	20044
<DocumentID>	Unique ID generated by Ingram Micro	<TransactionHeader>	2	1/1	String	1/40	{9D25E715-F65E-432F-A773-9E22FEA8FBDF}
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	2	0/1	Char	1/18	12345
<TimeStamp>	Date and time of transaction (CET)	<TransactionHeader>	2	1/1	Char	1/19	2003-07-07T00:00:00
</TransactionHeader>	Close of transaction header	<OrderDetailResponse>	1	1/1	-	-	-
<OrderInformation>	Contains order related information.	<OrderDetailResponse>	1	1/1	-	-	-
<BranchOrderNumber>	Ingram Sales Order Number (prefixed by the two digit warehouse branch number)	<OrderInformation>	2	1/1	String	7/7	2048043
<CustomerPO>	Customer PO number	<OrderInformation>	2	1/1	String	1/18	CustomerP O_1
<EndUserPO>	Contains EU PO Number	<OrderInformation>	2	1/1	String	0/*	P12345
<OrderWeight>	Total weight of shipment in kilograms	<OrderInformation>	2	1/1	String	0/*	6
<OrderEntryDate>	Date the order was entered into IMpulse	<OrderInformation>	2	0/1	Char	0/10	2003-03-07
<InvoiceDate>	Contains Invoice Date	<OrderInformation>	2	1/1	Char	0/10	07/07/2003
<PromiseDate>	Contains Promise Date	<OrderInformation>	2	1/1	Char	0/10	07/07/2003
<OrderType>	Type of Order	<OrderInformation>	2	1/1	String	0/1	1
<FulfilmentFlag>	Determines whether Fulfilment order	<OrderInformation>	2	1/1	String	0/1	Y
<ShipComplete>	Ship Complete Flag	<OrderInformation>	2	1/1	String	0/1	Y
<HoldReason>	Reason for Order Hold	<OrderInformation>	2	1/1	String	0/2	GM
<TermsCode>	Code for Payment Terms	<OrderInformation>	2	1/1	Num	0/3	300
<ResellerNBR>	Reseller Account Number	<OrderInformation>	2	1/1	Num	0/5	+01234
<NumberOfCartons>	Contains Number of Cartons Shipped	<OrderInformation>	2	1/1	Num	0/3	1
<CreditMemoReasonCode>	Reason for credit memo	<OrderInformation>	2	1/1	String	0/2	RT
<ConfigFlag>	Configuration Flag	<OrderInformation>	2	1/1	String	0/2	C
<SplitBillToSwitch>	Split billing flag	<OrderInformation>	2	1/1	String	0/2	Y
<SplitFromOrderNumber>	Contains Original Order Number	<OrderInformation>	2	1/1	Num	0/2	Y
<RMACode>	Contains Returns Material Authorisation Code	<OrderInformation>	2	1/1	String	0/2	DF
<CreditCardSW>	Credit card indicator	<OrderInformation>	2	1/1	String	0/2	Y
<GovEndUserType>	Contains End User Type Information	<OrderInformation>	2	1/1	String	0/2	1
<EntryMethod>	Contains Entry Method Code	<OrderInformation>	2	1/1	Char	1/1	I
<TermID>		<OrderInformation>	2	1/1	String	4/4	LU6X
<BackOrderStatus>	Contains Back Order Status	<OrderInformation>	2	1/1	String	1/1	C
<ShippableSW>	Indicates if product is shippable	<OrderInformation>	2	1/1	String	1/1	Y
<ConfigTimesTamp>	Date and Time of	<OrderInformation>	2	1/1	String	0/19	2003-07-

	Configuration						07T00:00:00
<SelSrcAcctnoHdr>	Select Source Account Number Header	<OrderInformation>	2	1/1	String	0/10	5200
<OECarrier>	Contains Carrier Code	<OrderInformation>	2	1/1	String	0/2	OT
<FrftOutCode>	Freight Code	<OrderInformation>	2	1/1	String	0/2	OT
<ProNbrSW>	Reserved for future use	<OrderInformation>	2	1/1	String	0/2	NA
<ProNbr>	Reserved for future use	<OrderInformation>	2	1/1	String	0/10	NA
<OrderTotals>	Contains total monetary amounts applicable to the order	<OrderInformation>	2	1/1	-	-	-
<SalesTotal>	Total sales amount (excluding charges such as freight and tax)	<OrderTotals>	3	1/1	Num	0/*	22.10
<FreightTotal>	Applicable freight charge. This field may be 0	<OrderTotals>	3	1/1	Num	0/*	9.40
<TaxTotal>	Total taxes on the order	<OrderTotals>	3	1/1	Num	0/*	2.21
<SalesPlusTax>	Contains Sales + Tax Value	<OrderTotals>	3	1/1	Num	0/*	24.31
<GrandTotal>	Grand total	<OrderTotals>	3	1/1	Num	0/*	33.71
<CODAmount>	Contains Cash On Delivery Amount – Sales + Tax + Freight	<OrderTotals>	3	1/1	Num	0/*	33.71
<DiscountAmount>	Contains Discount Amount	<OrderTotals>	3	1/1	Num	0/*	0
<CurrencyCode>	Contains Currency on Sales Order	<OrderTotals>	3	1/1	Char	0/3	EUR
<CompanyCurrency>	Contains Company Trading Currency	<OrderTotals>	3	1/1	Char	0/3	EUR
<CurrencyRate>	Contains Exchange Rate	<OrderTotals>	3	1/1	Num	0/*	1
</OrderTotals>	<OrderTotals> close	<OrderInformation>	2	1/1	-	-	-
<OrderSuffix>	Order suffix	<OrderInformation>	2	0/*	-	-	-
Ship To	Order suffix Ship To	<OrderSuffix> attribute	A	1/1	String	2/2	11
Bill To	Order suffix Bill To	<OrderSuffix> attribute	A	1/1	String	0/3	1234
<ShipToInformation>	Contains the order shipping information	<OrderSuffix>	3	1/1	-	-	-
<ShipToAttention>	Attention line of shipping address	<ShipToInformation>	4	0/1	String	0/35	Mrs Jones
<ShipToAddress1>	First line of shipping address	<ShipToInformation>	4	1/1	String	1/35	Red House
<ShipToAddress2>	Second line of shipping address	<ShipToInformation>	4	0/1	String	0/35	55 The Street
<ShipToAddress3 />	Third line of shipping address	<ShipToInformation>	4	0/1	String	0/35	-
<ShipToCity>	City of shipping address	<ShipToInformation>	4	1/1	String	1/21	London
<ShipToProvince>	ISO country code of shipping address	<ShipToInformation>	4	1/1	String	2/2	UK
<ShipToPostalCode>	Postal/zip code of shipping address	<ShipToInformation>	4	1/1	String	0/9	SW1 1IM
</ShipToInformation>	<ShipToInformation> close	<OrderSuffix>	3	1/1	-	-	-
<BillToInformation>	Contains the order Billing information	<OrderSuffix>	3	0/1	-	-	-
<BillToAddress1>	First line of billing address	<BillToInformation>	4	1/1	String	1/35	8020 Parksmead Way
<BillToAddress2 >	Second line of billing address	<BillToInformation>	4	0/1	String	0/35	-
<BillToAddress3 >	Third line of billing address	<BillToInformation>	4	0/1	String	0/35	-
<BillToCity>	City to billing address	<BillToInformation>	4	1/1	String	1/21	Milton Keynes
<BillToProvince>	ISO country code of billing address	<BillToInformation>	4	1/1	String	2/2	Bucks
<BillToPostalCode>	Postal/zip code of billing address	<BillToInformation>	4	1/1	String	0/9	SE3 4DJ
<BillToCountryCode>	Contains Bill To Country Code	<BillToInformation>	4	1/1	String	2/2	UK
</BillToInformation>	<BillToInformation> close	<OrderSuffix>	3	1/1	-	-	-
<ShipFromBranch>	Branch ship from information	<OrderSuffix>	3	1/1	String	0/*	UK
Number	Branch ship from number	<ShipFromBranch> attribute	A	1/1	String	2/2	20
<OrderStatus>	Order status description	<OrderSuffix>	3	1/1	String	0/*	Paid
<Carrier>	Contains the carrier information	<OrderSuffix>	3	0/1	String	0/*	Citylink Nextday
Code	Carrier code	<Carrier> attribute	A	1/1	String	2/4	CT
<OrderShipDate>	Order shipping date. Only	<OrderSuffix>	3	0/1	Date	0/*	2003-03-07



	used if order has been shipped						
<OrderLineDetail>	Contains the order detail information	<OrderSuffix>	3	1/1	-	-	-
<ProductLine>	Contains the order product line detail	<OrderLineDetail>	4	1/*	-	-	-
<SKU>	Ingram Micro part number	<ProductLine>	5	1/1	String	1/12	123A321
<SKUDescription>	Detail of Ingram Micro part number	<ProductLine>	5	1/1	String	0/*	Universal Printer Cartridge
<SpecialBidNumber>	Contains Special Bid Number – only returned if ShowDetail set to A.	<ProductLine>	5	0/1	String	0/35	1234abcd
<OrderQuantity>	Quantity of stock that has been ordered	<ProductLine>	5	1/1	Int	0/*	1
<ShipQuantity>	Quantity of stock that has been shipped	<ProductLine>	5	1/1	Int	0/*	1
<BackOrderQuantity>	Quantity of stock that is on back order	<ProductLine>	5	1/1	Int	0/*	0
<ComponentQty>	Quantity of Components that has been ordered	<ProductLine>	5	1/1	Int	0/*	0
<BackOrderETADate>	Contains Back Order ETA Date	<ProductLine>	5	1/1	Char	0/10	07/03/2003
<NordicPromiseDate>	Applies to Nordics only	<ProductLine>	5	1/1	Char	0/10	07/03/2003
<UnitPrice>	Price of each of SKU	<ProductLine>	5	1/1	String	0/*	22.10
<UnitOfMeasure>	The Unit of Measure	<ProductLine>	5	1/1	String	0/2	Ea
<ResellerUnitPrice>	Contains Reseller Unit Price	<ProductLine>	5	1/1	String	0/*	19.99
<ExtendedLineSales>	Extended Line Sales Value	<ProductLine>	5	1/1	String	0/*	22.10
<LineSalesTotal>	Total sales of each line of order	<ProductLine>	5	1/1	String	0/*	22.10
<LineTerms>	Line level payment terms	<ProductLine>	5	1/1	String	0/2	30
<CustomerLineNumber>	Customer internal line number	<ProductLine>	5	1/1	String	3/3	1
<CustomerItemNumber>	Customer Item Number	<ProductLine>	5	1/1	Num	3/3	1
<IngramLineNumber>	Line number of Ingram Micro sales order	<ProductLine>	5	1/1	String	3/3	014
<ReserveSequenceNumber>	Reserve Sequence Number	<ProductLine>	5	1/1	Num	0/3	N/A
<VendorPartNumber>	Manufacturer part number	<ProductLine>	5	1/1	String	0/*	6382-34RF
<VendorName>	The Name of the Vendor	<ProductLine>	5	1/1	String	0/*	Cisco Systems
<SelSrcSls>	Select Source Sales Number	<ProductLine>	5	1/1	String	0/3	N/A
<SelSrcAcctno>	Select Source Account Number	<ProductLine>	5	1/1	String	0/10	N/A
<FreeItemSwitch>	Product Free Switch	<ProductLine>	5	1/1	String	0/1	N
SystemComponentSwitch	Component identifier	<ProductLine>	5	1/1	String	0/1	N
<ConfigInformation>	Contains Configuration Information	<ProductLine>	5	-	-	-	-
<ConfigIndicator>	Configuration Indicator	<ConfigInformation>	6	1/1	String	0/*	NA
<ConfigStatus>	Configuration Status	<ConfigInformation>	6	1/1	String	0/*	NA
<ConfigAssemblyCode>	Configuration Assembly Code	<ConfigInformation>	6	1/1	String	0/*	NA
<ConfigLabCode>	Configuration Labour Code	<ConfigInformation>	6	1/1	String	0/*	NA
<ConfigONHoldSW>	Configuration On Hold Switch	<ConfigInformation>	6	1/1	String	0/*	NA
<ConfigPcrCnt>	Configuration control	<ConfigInformation>	6	1/1	String	0/*	00009
<ConfigPchCnt>	Configuration control	<ConfigInformation>	6	1/1	String	0/*	00008
<ConfigSTGCNT>	Configuration control	<ConfigInformation>	6	1/1	String	0/*	00007
<ConfigSTHCNT>	Configuration control	<ConfigInformation>	6	1/1	String	0/*	00006
<ConfigWIPCNT>	Configuration control	<ConfigInformation>	6	1/1	String	0/*	00005
<ConfigQAACNT>	Configuration control	<ConfigInformation>	6	1/1	String	0/*	00004
<ConfigQAHCNT>	Configuration control	<ConfigInformation>	6	1/1	String	0/*	00003
<ConfigBINCNT>	Configuration control	<ConfigInformation>	6	1/1	String	0/*	00002
<ConfigOSHCNT>	Configuration control	<ConfigInformation>	6	1/1	String	0/*	00001
<ConfigHoldReasonText>	Configuration ON HOLD Reason Code	<ConfigInformation>	6	1/1	String	0/100	Bad configuration
<ConfigInformation>	Configuration Information Close	<OrderLineDetail>	5	-	-	-	-
<SkuSerialNumber>	Contains the serial number	<ProductLine>	5	0/*	-	-	-



	information						
<SerialNumber>	Serial number of each SKU in the order	<SkuSerialNumber>	6	0/1	String	0/*	34347462782
</SkuSerialNumber>	<SkuSerialNumber> close	<ProductLine>	5	0/*	-	-	-
</ProductLine>	<ProductLine> close	<OrderLineDetail>	4	1/*	-	-	-
<CommentLine>	Start of comment section	<OrderLineDetail>	4	1/*	-	-	-
<Comment>	Comment on order	<CommentLine>	5	1/1	String	1/35	Electronic order rebate
<MiscCharge>	Miscellaneous charge amount	<CommentLine>	5	0/1	String	0/17	13.40
</CommentLine>	Close of comment section	<OrderLineDetail>	4	1/1	-	-	-
</OrderLineDetail>	<OrderLineDetail> close	<OrderSuffix>	3	1/1	-	-	-
</OrderSuffix>	<OrderSuffix>	<OrderInformation>	2	1/*	-	-	-
</OrderInformation>	<OrderInformation> close	<OrderDetailResponse>	1	1/1	-	-	-
</OrderDetailResponse>	<OrderDetailResponse> close	-	0	-	-	-	-

#### An error response:

The example below is an error message that will be generated if the customer's Login, Password or Country Code is invalid:

```
<OrderDetailResponse>
  <TransactionHeader>
    <ErrorStatus ErrorNumber="20007">ERROR: LoginID, or Password or CountryCode is incorrect</ErrorStatus>
    <DocumentID>{95D7E024-E7BA-40F2-838D-405E4778E5E0}</DocumentID>
    <TransactionID>OrderDetail</TransactionID>
    <TimeStamp>2001-07-12T15:16:06</TimeStamp>
  </TransactionHeader>
</OrderDetailResponse>
```

The example below is an error message that will be generated if the customer is not authorised to run the order detail transaction:

```
<OrderDetailResponse>
  <TransactionHeader>
    <ErrorStatus ErrorNumber="20002">ERROR: Customer is not allowed to execute current transaction</ErrorStatus>
    <DocumentID>{A80C66D0-DFBC-430E-93C1-DC0A69A0D750}</DocumentID>
    <TransactionID>OrderDetail</TransactionID>
    <TimeStamp>2001-07-12T15:17:37</TimeStamp>
  </TransactionHeader>
</OrderDetailResponse>
```

The example below is an example of an error message that will be generated if the BranchOrderNumber and CustomerPo invalid.

```
<OrderDetailResponse>
  <TransactionHeader>
    <ErrorStatus ErrorNumber="20086">ERROR:Order Not Found</ErrorStatus>
    <DocumentID>{77E21086-DEB1-4ACE-8667-FB1BCCCB4441}</DocumentID>
    <TransactionID>OrderStatus</TransactionID>
    <TimeStamp>2001-07-12T13:42:44</TimeStamp>
  </TransactionHeader>
</OrderDetailResponse>
```

## Order Status Transaction

### Description of Transaction

The order status request allows the customer to query for real-time order status information. The information provided by this transaction is limited to summary information. More detailed status information is available in the Order Detail request transaction.

The transaction requires the customer po in order to return information. It does not require the use of the Ingram Micro order number. Information will be returned for all shipments that have been made for the customer purchase order number.

The possible status codes are:

Open order, Order in progress, Billed, Billing error, Forced billed, Tag hold, Invoiced, Pending, Customer hold, Paid, Released, Shipped, Voided, Order not printed, Sales hold.

### Special Rule for Belgium, France, Italy and Spain only:

*If the order has been billed, the Ingram Micro invoice number will be different to the Ingram Micro order number. This is because the Ingram Micro order number in these countries is not re-used as the Ingram Micro invoice number. This means that the original order number is replaced with a new invoice number after billing.*

Version 2.0

The amount of detail that the Order Tracking response provides has not been enhanced for version 2.0. The changes are limited to the transaction header.

### Inbound XML Document

Root element Name: "OrderStatusRequest"

### Sample Document: OrderStatusRequest

```
<OrderStatusRequest>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <CountryCode>UK</CountryCode>
    <LoginID> UK3833HHD </LoginID>
    <Password> Re887Jky52</Password>
    <TransactionID>54321</TransactionID>
  </TransactionHeader>
  <OrderHeaderInfo>
    <CustomerPO>CustomerPO_1</CustomerPO>
  </OrderHeaderInfo>
</OrderStatusRequest>
```

### Elements/Attributes Description: OrderStatusRequest

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<OrderStatusRequest>	Contains Order Status request	-	0	1/1	-	-	-
<Version>	XML Version	<OrderStatusRequest>	1	1/1	String	3/3	2.0
<TransactionHeader>	See Transaction Header	<OrderStatusRequest>	1	1/1	-	-	-
<SenderID>	Contains Ingram Micro Sender Identification	<TransactionHeader>	2	1/1	String	0/18	123456789
<ReceiverID>	Contains Customer / Vendor Identification	<TransactionHeader>	2	1/1	String	0/18	987654321

<CountryCode>	2 character ISO country code	<TransactionHeader>	2	1/1	Char	2/2	UK
<LoginID>	Customer specific login	<TransactionHeader><TransactionHeader>	2	1/1	Char	6/10	UK3833HHD
<Password>	Customer specific password		2	1/1	String	6/10	Re887Jky52
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	1	0/1	String	1/18	54321
</TransactionHeader>	Transaction Header Close	<ProductAlertRequest>	1	1/1	-	-	-
<OrderHeaderInfo>	Contains order information to be queried	<OrderStatusRequest>	1	1/1	-	-	-
<CustomerPO>	Customer PO number	<OrderHeaderInfo>	2	1/1	String	1/18	CustomerPO_1
</OrderHeaderInfo>	<OrderHeaderInfo> close	<OrderStatusRequest>	1	1/1	-	-	-
</OrderStatusRequest>	<OrderStatusRequest> close	-	0	1/1	-	-	-

## Outbound XML Document

Root element Name : "OrderStatusResponse"

### Sample Document: OrderStatusResponse

```

<OrderStatusResponse>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <CountryCode>UK</CountryCode>
    <LoginID> UK3833HHD </LoginID>
    <Password> Re887Jky52</Password>
    <TransactionID>54321</TransactionID>
  </TransactionHeader>
  <OrderStatusInformation>
    <CustomerPO Number="CustomerPO_1">
      <OrderInfo>
        <BranchOrderNumber>2048043</BranchOrderNumber>
        <OrderEntryDate>2002-11-11</OrderEntryDate>
        <OrderSuffix ID="11">
          <ShipFromBranch Number="20">LONDON</ShipFromBranch>
          <OrderStatus>OPEN</OrderStatus>
          <TotalSales>199.99</TotalSales>
          <InvoiceDate>2002-11-25</InvoiceDate>
          <ShippedDate>2002-11-25</ShippedDate>
          <OrderCreditMemo Code="Code_1">OrderCreditMemo_1</OrderCreditMemo>
          <OrderCreditMemo Code="Code_2">OrderCreditMemo_2</OrderCreditMemo>
        </OrderSuffix>
      </OrderInfo>
    </CustomerPO>
  </OrderStatusInformation>
</OrderStatusResponse>

```

### Elements/Attributes Description: OrderStatusResponse

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<OrderStatusResponse>	Contains Order Status Response	-	0	1/1	-	-	-
<Version>	XML Version	<OrderStatusResponse>	1	1/1	String	3/3	2.0
<TransactionHeader>	See Transaction Header	<OrderStatusResponse>	1	1/1	-	-	-
<SenderID>	Contains Ingram Micro Sender Identification	<TransactionHeader>	2	11	String	0/18	123456789
<ReceiverID>	Contains Customer / Vendor Identification	<TransactionHeader>	2	1/1	String	0/18	987654321
<ErrorStatus>	Refers to the error description generated by the transaction. Blank if transaction completed successfully.	<TransactionHeader>	2	1/1	String	0/100	Error:LoginID or Password or CountryCode is invalid
<DocumentID>	Unique ID generated by Ingram Micro	<TransactionHeader>	2	1/1	String	1/40	{9D25E715-F65E-432F-A773-9E22FEA8FBDF}
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	2	0/1	String	1/18	54321
<TimeStamp>	Date and Time of Transaction (CET)	<TransactionHeader>	2	1/1	String	1/19	2001-07-12T10:30:41
</TransactionHeader>	Transaction Header Close	<ProductAlertRequest>	1	1/1	-	-	-
<OrderStatusInformation>	Contains Order Status information	<OrderStatusResponse>	1	0/1	-	-	-
<CustomerPO>	Contains customer PO number information	<OrderStatusInformation>	2	1/1	-	-	-
Number	Customer PO number	<CustomerPO> attribute	A	1/1	String	1/18	Cnumber1
<OrderInfo>	Contains order information	<CustomerPO>	3	1/*	-	-	-
<BranchOrderNumber>	Ingrammicro branch and order number	<OrderInfo>	4	1/1	String	7/7	2012345
<OrderEntryDate>	Entry date of the order	<OrderInfo>	4	0/1	Date	0/10	2003-03-12
<OrderSuffix>	Contains Ingrammicro order suffix information	<OrderInfo>	4	1/*	-	-	-
ID	Order suffix	<OrderSuffix> attribute	A	1/1	String	2/2	11
<ShipFromBranch>	Warehouse from which the product will be shipped	<OrderSuffix>	5	1/1	String	0/*	UK
Number	Warehouse number	<ShipFromBranch> attribute	A	1/1	String	2/2	20
<OrderStatus>	Status of the order	<OrderSuffix>	5	1/1	String	0/*	Billed
<TotalSales>	Total value of the order	<OrderSuffix>	5	0/1	String	1/18	123.58
<InvoiceDate>	If Invoiced, the date this happened.	<OrderSuffix>	5	0/1	Date	0/10	2003-03-12
<ShippedDate>	If Shipped, the date this happened.	<OrderSuffix>	5	0/1	Date	0/10	2003-03-12
<OrderCreditMemo>	If this is a return, this is the reason given.	<OrderSuffix>	5	1/*	String	0/*	Faulty goods
Code	The RMA reason code.	<OrderCreditMemo> attribute	A	0/1	String	0/2	FG
</OrderSuffix>	<OrderSuffix> close	<OrderInfo>	4	1/1	-	-	-
</OrderInfo>	<OrderInfo> close	<CustomerPO>	3	1/1	-	-	-
</CustomerPO>	<CustomerPO> close	<OrderStatusInformation>	2	1/1	-	-	-
</OrderStatusInformation>	<OrderStatusInformation> close	<OrderStatusResponse>	1	1/1	-	-	-
</OrderStatusResponse>	<OrderStatusResponse> Close	-	0	1/1	-	-	-

#### An error response:

An example of an error message that will be returned if an invalid Login, Password or Country Code is sent:

```
<OrderStatusResponse>
  <TransactionHeader>
```

```
<ErrorStatus ErrorNumber="20007">ERROR: LoginID, or Password or CountryCode is
incorrect</ErrorStatus>
<DocumentID>{5459A21C-0C63-4D22-A98C-520F035D8FAC}</DocumentID>
<TransactionID>OrderStatus</TransactionID>
<TimeStamp>2001-07-12T11:54:27</TimeStamp>
</TransactionHeader>
</OrderStatusResponse>
```

An example of an error message that will be generated if the customer is not authorised to run the current transaction:

```
<OrderStatusResponse>
<TransactionHeader>
  <ErrorStatus ErrorNumber="20002">ERROR: Customer is not allowed to execute current
  transaction</ErrorStatus>
  <DocumentID>{A886C473-AB7A-4E74-AC16-0BD76337D2F5}</DocumentID>
  <TransactionID>OrderStatus</TransactionID>
  <TimeStamp>2001-07-12T12:01:10</TimeStamp>
</TransactionHeader>
</OrderStatusResponse>
```

An example of an error message that will be returned if an invalid CustomerPO is sent.

```
<OrderStatusResponse>
  <TransactionHeader>
    <ErrorStatus ErrorNumber="20086">ERROR:Order Not Found</ErrorStatus>
    <DocumentID>{77E21086-DEB1-4ACE-8667-FB1BCCCB4441}</DocumentID>
    <TransactionID>OrderStatus</TransactionID>
    <TimeStamp>2001-07-12T13:42:44</TimeStamp>
  </TransactionHeader>
</OrderStatusResponse>
```

## Order Tracking Transaction

### Description of Transaction

Order Tracking is a real-time transaction that allows the customer to query for tracking numbers of shipped orders.

Order Numbers are recycled within IMpulse over time, so customers should choose a narrow search criterion to reduce the possibility of retrieving irrelevant data. In consideration of this, the following are the recommended search methods:

- A combination of Ingram Micro order number, order suffix, and customer purchase order number. This will return information for a single shipment
- A combination of Ingram order number and customer purchase order number. This will return information for all shipments for an order. The customer purchase order number sent on its own can achieve the same results.

***Any order tracking transaction sent without an order suffix will return only orders shipped within the last 2 months.***

Orders are often shipped in multiple packages. This transaction can be used to determine what products were shipped in a specific package/carton. The part numbers are not available until the day after shipment as they are updated in the nightly batch process.

Version 2.0

The amount of detail that the Order Tracking response provides has not been enhanced for version 2.0. The changes are limited to the transaction header.

### Inbound XML Document

Root element Name: "OrderTrackingRequest"

### Sample Document: OrderTrackingRequest

```
<OrderTrackingRequest>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <CountryCode>UK</CountryCode>
    <LoginID> UK3833HHD </LoginID>
    <Password> Re887Jky52</Password>
    <TransactionID>54321</TransactionID>
  </TransactionHeader>
  <TrackingRequestHeader>
    <BranchOrderNumber>2048043</ BranchOrderNumber >
    < OrderSuffix >11</ OrderSuffix >
    < CustomerPO>CustomerPO_1</ CustomerPO >
  </TrackingrequestHeader>
</OrderTrackingRequest>
```

## Elements/Attributes Description: OrderTrackingRequest

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<OrderTrackingRequest>	Contains OrderTrackingRequest	-	0	1/1	-	-	-
<Version>	XML Version	<OrderTrackingRequest>	1	1/1	String	3/3	2.0
<TransactionHeader>	Contains customer specific login information	<OrderTrackingRequest>	1	1/1	-	-	-
<SenderID>	Contains Ingram Micro Sender Identification	<TransactionHeader>	2	1/1	String	0/18	123456789
<ReceiverID>	Contains Customer / Vendor Identification	<TransactionHeader>	2	1/1	String	0/18	987654321
<CountryCode>	2 character ISO country code	<TransactionHeader>	2	1/1	Char	2/2	UK
<LoginID>	Customer specific login	<TransactionHeader>	2	1/1	Char	6/10	UK3833HH D
<Password>	Customer specific password	<TransactionHeader>	2	1/1	String	6/10	Re887Jky5 2
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	1	0/1	String	1/18	54321
<TransactionHeader>	See Transaction Header	<OrderTrackingRequest>	1	1/1	-	-	-
<TrackingRequestHeader>	Contains details of order to be queried	<OrderTrackingRequest>	1	1/1	-	-	-
<BranchOrderNumber>	Ingrammicro branch and order number	<TrackingRequestHeader>	2	0/1	String	7/7	2012345
<OrderSuffix>	Ingrammicro order number suffix	<TrackingRequestHeader>	2	0/1	String	2/2	11
<CustomerPO>	Customer PO number	<TrackingRequestHeader>	2	1/1	String	1/18	Corder1
</TrackingRequestHeader>	<TrackingRequestHeader> close	<OrderTrackingRequest>	1	1/1	-	-	-
</OrderTrackingRequest>	<OrderTrackingRequest> close	-	0	1/1	-	-	-

### Outbound XML Document

Root element Name : "OrderTrackingResponse"

### Sample Document: OrderTrackingResponse

```

<OrderTrackingResponse>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <ErrorStatus ErrorNumber="ErrorNumber_1">ErrorStatus_1</ErrorStatus>
    <DocumentID>{C160DB2B-08A0-475F-BF17-ABF41576652A}</DocumentID>
    <TransactionID>CI123456</TransactionID>
    <TimeStamp>2001-07-19T13:36:41</TimeStamp>
  </TransactionHeader>
  <CustomerPO>8</CustomerPO>
  <Order>
    <BranchOrderNumber>2048043</BranchOrderNumber>
    <TotalWeight>8</TotalWeight>
    <CartonCount>1</CartonCount>
    <Suffix SuffixNumber="11">
      <Carrier Code="CT">CITY LINK</Carrier>
      <Package ID="0000474410">
        <ShipDate>2001-05-25</ShipDate>
        <BoxNumber>001</BoxNumber>
        <BoxWeight>8</BoxWeight>
        <TrackingURL>http://www.JustA  
TestingURL.com?TrackingID=0000474410</TrackingURL>
      <Contents>
        <SKU>123A321</SKU>
      </Contents>
    </Suffix>
  </Order>
</OrderTrackingResponse>

```

```

</Package>
</Suffix>
</Order>
</OrderTrackingResponse>

```

## Elements/Attributes Description: OrderTrackingResponse

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<OrderTrackingResponse>	Contains Order Tracking Response	-	0	0	-	-	-
<Version>	Indicates the version of IM-XML	<OrderTrackingResponse>	1	1/1	String	3/3	2.0
<TransactionHeader>	Contains customer specific login information	<OrderTrackingResponse>	1	1/1	-	-	-
<SenderID>	Contains Ingram Micro Sender Identification	<TransactionHeader>	2	1/1	String	0/18	123456789
<ReceiverID>	Contains Customer / Vendor Identification	<TransactionHeader>	2	1/1	String	0/18	987654321
<ErrorStatus>	Refers to the error description generated by the transaction. Blank if transaction completed successfully	<TransactionHeader>	2	1/1	String	0/100	Error:LoginID or Password or CountryCode is invalid
<DocumentID>	Unique ID generated by Ingram Micro	<TransactionHeader>	2	1/1	String	1/40	{9D25E715-F65E-432F-A773-9E22FEA8FBDF}
<TransactionID>	Unique ID generated by customer. This ID will remain constant on submit and response	<TransactionHeader>	2	0/1	String	1/18	54321
<TimeStamp>	Date and Time of Transaction (CET)	<TransactionHeader>	2	1/1	String	1/19	2001-07-12T10:30:41
</TransactionHeader>	Transaction Header Close	<OrderTrackingResponse>	1	1/1	-	-	-
<CustomerPO>	Customer order number	<OrderTrackingResponse>	2	0/1	String	0/18	Order1
<Order>	Contains order information	<OrderTrackingResponse>	1	1/1	-	-	-
<BranchOrderNumber>	Ingrammicro branch and order number	<Order>	2	1/1	String	0/7	2012345
<TotalWeight>	Total weight for the order in KG	<Order>	2	1/1	String	1/*	113
<CartonCount>	Number of cartons in the order	<Order>	2	1/1	Int	1/*	3
<Suffix>	Contains Ingrammicro order information by suffix	<Order>	2	0/*	-	-	-
SuffixNumber	Ingrammicro order suffix number	<Suffix> attribute	A	1/1	String	2/2	11
<Carrier>	Contains carrier information for this shipment as defined by the suffix	<Suffix>	3	1/1	-	-	-
Code	Carrier code	<Carrier> attribute	A	1/1	String	2/2	CN
<Package>	Contains tracking number information	<Suffix>	3	0/*	-	-	-
ID	Tracking number	<Package> attribute	A	1/1	String	0/*	0003312
<ShipDate>	Date order suffix was shipped	<Package>	4	1/1	Date	0/*	2003-03-11
<BoxNumber>	Box number	<Package>	4	1/1	Int	1/3	45
<BoxWeight>	Box weight	<Package>	4	1/1	String	1/3	156
<TrackingURL>	URL to use with tracking number	<BoxWeight>	5	0/1	String	1/50	<a href="http://www.TestAddresses?TrackingID=123">http://www.TestAddresses?TrackingID=123</a>
<Contents>	Contains all SKU information for the current suffix	<Package>	4	1/*	-	-	-
<SKU>	Ingrammicro product code	<Contents>	5	0/*	String	1/12	132A321



</Contents>	<Contents> close	<Package>	4	1/1	-	-	-
</Package>	<Package> close	<Suffix>	3	1/1	-	-	-
</Suffix>	<Suffix> close	<Order>	2	1/1	-	-	-
</Order>	<Order> close	<OrderTrackingResponse>	1	1/1	-	-	-
</OrderTrackingResponse>	<OrderTrackingResponse> close	-	0	1/1	-	-	-

#### An error response:

An example of an error message that will be generated if an invalid Login, Password or Country Code is sent:

```
<TransactionHeader>
  <ErrorStatus ErrorNumber="20007">ERROR:
    LoginID, or Password or CountryCode is
    incorrect</ErrorStatus>
  <DocumentID>{0598CBDE-30B5-497E-9096-CAC5992D4AFD}
  </DocumentID>
  <TransactionID>789456</TransactionID>
  <TimeStamp>2001-07-16T17:25:58</TimeStamp>
</TransactionHeader>
```

An example of an error message that will be generated if the customer is not authorised to run the current transaction:

```
<TransactionHeader>
  <ErrorStatus ErrorNumber="20007">ERROR:
    Customer is not allowed to execute current transaction.</ErrorStatus>
  <DocumentID>{0598CBDE-30B5-497E-9096-CAC5992D4AFD}
  </DocumentID>
  <TransactionID>789456</TransactionID>
  <TimeStamp>2001-07-16T17:25:58</TimeStamp>
</TransactionHeader>
```

## PNA (Price And Availability) Transaction

### Description of Transaction

The PNAResponse is a real-time transaction that returns information about current pricing of a product and the availability of the product in each of the Ingram Micro's warehouses. Further information that is provided is "on-order" amounts and ETA's for the amounts on order.

Up to 50 SKUs can be queried in a single request.

#### Version 2.0

The amount of detail that the Price and Availability response provides has been enhanced for version 2.0. The changes can be clearly seen by the pale yellow colouring in the response table. All uncoloured rows are available through version 1.0.

Manufacturers Part Number can also be used to identify the product. If the SKU attribute contains any value, the manufacturers' part number attribute value will not be considered. If the manufacturers part number is correct this will still result in the product not being found if the SKU value is incorrect. If the SKU is not known, the manufacturers' part number can be entered on its own, although the SKU attribute is mandatory and has to be sent with no value.

### Inbound XML Document

Root element Name: "PNAResponse"

#### Sample Document: PNAResponse

```
<PNAResponse>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <CountryCode>UK</CountryCode>
    <LoginID> UK3833HHD </LoginID>
    <Password> Re887Jky52</Password>
    <TransactionID>54321</TransactionID>
  </TransactionHeader>
  <PNAInformation SKU="123A321" ManufacturerPartNumber="" Quantity="10" ReservedInventory ="Y"/>
  <ShowDetail>1</ShowDetail>
</PNAResponse>
```

#### Elements/Attributes Description: PNAResponse

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<PNAResponse>	Contains price and availability request	-	0	1/1	-	-	-
<Version>	XML Version	<PNAResponse>	1	1/1	String	3/3	2.0
<TransactionHeader>	Contains customer specific login information	<PNAResponse>	1	1/1	-	-	-
<SenderID>	Contains Ingram Micro Sender Identification	<TransactionHeader>	2	1/1	String	0/18	123456789
<ReceiverID>	Contains Customer / Vendor Identification	<TransactionHeader>	2	1/1	String	0/18	987654321
<CountryCode>	2 character ISO country code	<TransactionHeader>	2	1/1	Char	2/2	UK
<LoginID>	Customer specific login	<TransactionHeader>	2	1/1	Char	6/10	UK3833HHD
<Password>	Customer specific password	<TransactionHeader>	2	1/1	String	6/10	Re887Jky52
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	1	0/1	String	1/18	54321
<TransactionHeader>	See Transaction Header	<PNAResponse>	1	1/1	-	-	-
<PNAInformation>	Contains product to be	<PNAResponse>	1	1/*	-	-	-

	queried						
SKU	Ingrammicro product code	<PNAInformation> attribute	A	1/1	String	1/12	123A321
ManufacturerPartNumber	Manufacturers product code	<PNAInformation> attribute	A	0/1	String	1/20	ABC1CBA
Quantity	Qty of stock to base price on	<PNAInformation> attribute	A	0/1	Int	0/*	0010 Default = 1
ReservedInventory	Reserved for future use	<PNAInformation> attribute	A	0/1	Char	1/1	Y Default = N
</PNAResponse>	<PNAResponse> close	-	0	1/1	-	-	-

#### Notes:

If the quantity is omitted, the pricing returned will be for a single unit of the SKU. If it is included, pricing returned represents the unit cost (per unit) for a purchase of this quantity. Pricing may vary based on quantity ordered.

#### Outbound XML Document

Root element Name: "PNAResponse"

#### Sample Document: PNAResponse

```

<PNAResponse>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <ErrorStatus ErrorNumber="ErrorNumber_1">ErrorStatus_1</ErrorStatus>
    <DocumentID>{C160DB2B-08A0-475F-BF17-ABF41576652A}</DocumentID>
    <TransactionID>CI123456</TransactionID>
    <TimeStamp>2001-07-19T13:36:41</TimeStamp>
  </TransactionHeader>
  <PriceAndAvailability SKU="123A321" Quantity="10">
    <Price>117.00</Price>
    </SpecialPriceFlag>
    <ManufacturerPartNumber>ABC1CBA</ManufacturerPartNumber>
    <ManufacturerPartNumberOccurs/>
    <VendorNumber>8349</VendorNumber>
    <Description>Digital Camera with compact flash</Description>
    <ReserveInventoryFlag>N</ReserveInventoryFlag>
    <AvailableRebQty>0</AvailableRebQty>
    <Branch ID="20" Name="UK">
      <Availability>-1</Availability>
      <OnOrder>11</OnOrder>
      <ETADate>2001-07-12</ETADate>
    </Branch>
  </PriceAndAvailability>
</PNAResponse>

```

#### Elements/Attributes Description: PNAResponse

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<PNAResponse>	Contains price and availability Response	-	0	1/1	-	-	-
<Version>	Indicates the version of IM-XML	<PNAResponse>	1	1/1	String	3/3	2.0
<TransactionHeader>	Contains customer specific login information	<PNAResponse>	1	1/1	-	-	-
<SenderID>	Contains Ingram Micro Sender Identification	<TransactionHeader>	2	1/1	String	0/18	123456789
<ReceiverID>	Contains Customer / Vendor Identification	<TransactionHeader>	2	1/1	String	0/18	987654321

<ErrorStatus>	Refers to the error description generated by the transaction. Blank if transaction completed successfully	<TransactionHeader>	2	1/1	String	0/100	Error:LoginID or Password or CountryCode is invalid
<ErrorNumber>	Refers to the error number that has been generated by the transaction. This error number will always be associated with an error description. Blank if transaction was successful	<TransactionHeader>	A	1/1	String	0/10	20007
<DocumentID>	Unique ID generated by Ingram Micro	<TransactionHeader>	2	1/1	String	1/40	{9D25E715-F65E-432F-A773-9E22FEA8FBDF}
<TransactionID>	Unique ID generated by customer. This ID will remain constant on submit and response	<TransactionHeader>	2	0/1	String	1/18	54321
<TimeStamp>	Date and Time of Transaction (CET)	<TransactionHeader>	2	1/1	String	1/19	2001-07-12T10:30:41
</TransactionHeader>	Transaction Header Close	<ProductAlertResponse>	1	1/1	-	-	-
<PriceAndAvailability>	Contains PNA information on requested SKU's	<PNAResponse>	1	1/1	-	-	-
SKU	Ingrammicro product code	<PriceAndAvailability> attribute	A	1/1	String	0/12	123A321
Quantity	Qty queried for	<PriceAndAvailability> attribute	A	1/1	Int	0/*	0010
<Price>	Customer price	<PriceAndAvailability>	2	1/1	String	0/*	117
<SpecialPriceFlag>	Indicates special price	<PriceAndAvailability>	2	1/1	String	0/1	Y
<ManufacturerPartNumber>	Contains Manufacturers Part Number	<PriceAndAvailability>	2	1/1	String	0/*	IATA
<ManufacturerPartNumberOccurs>	Number of times a manufacturer part number occurs	<PriceAndAvailability>	2	1/1	String	0/1	1
<VendorNumber>	Contains Vendor Number	<PriceAndAvailability>	2	1/1	String	0/4	8349
<Description>	Contains Product Description	<PriceAndAvailability>	2	1/1	String	0/24	50" Plasma Screen
<ReserveInventoryFlag>	Indicates reserve inventory	<PriceAndAvailability>	2	1/1	String	1/1	N
<AvailableRebQty>	Contains Rebate Quantity	<PriceAndAvailability>	2	1/1	Int	0/*	0
<Branch>	Contains all branch information	<PriceAndAvailability>	2	0/*	-	-	-
ID	Branch ID number	<PriceAndAvailability> attribute	A	1/1	String	0/2	20
Name	Name of region where branch is located	<PriceAndAvailability> attribute	A	0/1	String	0/20	UK
<Availability>	Qty available on hand	<Branch>	3	1/1	Int	0/*	0010
<OnOrder>	Qty on order to the Vendor	<Branch>	3	1/1	Int	0/*	0010
<ETADate>	ETA for arrival of next shipment from the Vendor	<Branch>	3	1/1	Date	0/*	2003-03-11
</Branch>	<Branch> close	<PriceAndAvailability>	2	1/1	-	-	-
</PriceAndAvailability>	<PriceAndAvailability> close	-	1	1/1	-	-	-
</PNAResponse>	PNAResponse> Close	-	0	-	-	-	-

## Notes:

For each **PNAInformation** element in the request document, a **PriceAndAvailability** element is returned with child elements containing the pricing and availability information.

If the Branch element is not returned, the SKU no longer exists within Impulse.

### An error response:

If a SKU generates an error a SKUStatus element will be populated with the text error message. Possible values are: SKU Not Found, Not Authorized for SKU...

An example of an error message that will be generated:

```
<PriceAndAvailability SKU="1" Quantity="1">  
  <SKUStatus>ERROR: SKU not found</SKUStatus>  
</PriceAndAvailability>
```

## Order Change Transaction

### Description of Transaction

The Order Change transaction allows for changes to be made to an order after the order creation process but before the order is released. Actions allowed by this transaction are: change shipment address and carrier, add line, change line, delete line, add comment line, release order and cancel order.

#### Order of Operations

If a document is submitted requesting several changes to an order, changes are performed in the following order: change address, line changes (add, change, delete, comment) and release/cancel order.

#### Change Shipment Address

Address change information is submitted inside the ShipmentAddressInformation element, a child element of the OrderHeaderInformation element. Most of the child elements contained in the ShipmentAddressInformation element are mandatory, as the transaction process will blank out fields on the order for which no data is submitted. Please note the following when using the address change option:

**If** an address change is submitted, the address change will take place across all suffixes (distributions) of an order, whether an OrderSuffix is specified in the OrderHeaderInformation element or not.

**If** an OrderSuffix is specified in the Order Header, any carrier change in this section will apply only to that order suffix.

**If** no OrderSuffix is specified in the Order Header and a Carrier change is about to take place, the carrier change will affect all distributions. To change several distributions of an order to use different carriers, an Order Change request has to be submitted for each suffix.

#### Add Line

When adding lines to an order, the 2-character Ingram warehouse number *must* be specified. Please note the following:

**If** the order was created with the split shipment option set to "N", then the ShipFromWarehouse element must be populated with the Ship From branch as designated on the order itself. If another branch is specified, the AddLine element will return an error, or add the line to the single distribution created by Order Entry.

**If** the order was created with the BackOrder option set to "N" and the line to be added has insufficient stock to satisfy the entire line, AddLine will return an error.

The SplitLine logic resident in the Order Entry transaction *does not* apply here. Lines added by this transaction are added entirely to a single distribution.

#### Change Line

When changing lines on an order, the Ingram Micro line number *must* already exist on one of the order distributions. There are no checks on the SKU specified in this element meaning that if the SKU submitted in this element is different than the SKU on the order that corresponds to the IngramLineNumber, the SKU on the order is overwritten. The ChangeLine function actually deletes the old order line and inserts a new line. If a change to an already changed line is required, use the NewIngramLineNumber returned on the previous change. In addition, if the CustomerLineNumber fields are being used, these values will have to be resubmitted with every change request as well, as they do not carry over to the changed line automatically.

### Delete Line

When deleting lines from an order, both child elements of the DeleteLine element are required – IngramLineNumber and OrderSuffix. Even if the order has only one order suffix, the suffix value must be submitted here. It is advised to take care when deleting lines, as there is no confirmation that a deletion has been requested, and the change is irreversible. In the case of comment line where it spans all distributions (and shares an IngramLineNumber,) the comment is deleted from *all* distributions.

### Add Comment

Comment lines are added at the suffix level. If a comment line is to appear on all distributions of an order, the comment will have to be submitted once for each distribution. However, if the same comment is added across multiple distributions, the IngramLineNumber returned for the line will be the same on all distributions.

### Release Order

Inserting the character “R” in the OrderActionCode child element of the OrderHeaderInformation element flags the order to be released after all the requested changes have been made. Once an order has been released, it cannot be altered or deleted. If an OrderSuffix is supplied in the OrderHeaderInformation element, the release will only affect the distribution specified. If no OrderSuffix is specified, the entire order will be released.

### Cancel Order

Inserting the character “C” in the OrderActionCode child element of the OrderHeaderInformation element will cancel an order. If an OrderSuffix is supplied in the OrderHeaderInformation element, the cancellation will only affect the distribution specified. If no OrderSuffix is specified, the entire order will be deleted.

### Version 2.0

The amount of detail that the Order Change response provides has been enhanced for version 2.0. The changes can be clearly seen by the pale yellow colouring in the response table. All uncoloured rows are available through version 1.0.

#### Inbound XML Document

Root element Name : OrderChangeRequest

#### Sample Document: OrderChangeRequest

```
<OrderChangeRequest>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <CountryCode>UK</CountryCode>
    <LoginID> UK3833HHD </LoginID>
    <Password> Re887Jky52</Password>
    <TransactionID>54321</TransactionID>
  </TransactionHeader>
  <OrderHeaderInformation>
    <BranchOrderNumber>2048043</BranchOrderNumber>
    <OrderSuffix>21</OrderSuffix>
    <CustomerPO>CustomerPO_1</CustomerPO>
    <OrderActionCode>R</OrderActionCode>
    <ShipmentAddressInformation>
      <NewCarrierCode>CN</NewCarrierCode>
      <NewCustomerPO>JM564</NewCustomerPO>
      <NewShipToAttention>John Smith</NewShipToAttention>
      <NewShipToAddress1>Oak House</NewShipToAddress1>
      <NewShipToAddress2>55 Stand St</NewShipToAddress2>
      <NewShipToAddress3>Unit 1</NewShipToAddress3>
      <NewShipToCity>Norwich</NewShipToCity>
    </ShipmentAddressInformation>
  </OrderHeaderInformation>
</OrderChangeRequest>
```

```

<NewShipToProvince>East Anglia</NewShipToProvince>
<NewShipToPostalCode>NR3 4A1</NewShipToPostalCode>
<NewShipToCountryCode>UK</NewShipToCountryCode>
<NewEndUserPO>456123 EU</NewEndUserPO>
<NewBillToSuffix>100</NewBillToSuffix>
<NewShipToSuffix>200</NewShipToSuffix>
</ShipmentAddressInformation>
</OrderHeaderInformation>
<LineInformation>
  <AddLine>
    <SKU>123A321</SKU>
    <Quantity>11</Quantity>
    <CustomerLineNumber>161</CustomerLineNumber>
    <ShipFromWarehouse>20</ShipFromWarehouse>
  </AddLine>
  <ChangeLine>
    <IngramLineNumber>003</IngramLineNumber>
    <SKU>123B321</SKU>
    <Quantity>4</Quantity>
    <CustomerLineNumber>055</CustomerLineNumber>
    <Suffix>21</Suffix>
  </ChangeLine>
  <DeleteLine>
    <IngramLineNumber>004</IngramLineNumber>
    <Suffix>11</Suffix>
  </DeleteLine>
  <AddComment>
    <CommentText>Special offer Promotion</CommentText>
    <CustomerLineNumber>055</CustomerLineNumber>
    <Suffix>21</Suffix>
  </AddComment>
</LineInformation>
<ShowDetail>21</ShowDetail>
</OrderChangeRequest>

```

#### Elements/Attributes Description: OrderChangeRequest

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<OrderChangeRequest>	Contains order change information	-	0	1/1	-	-	-
<Version>	XML Version	<OrderChangeRequest>	1	1/1	String	3/3	2.0
<TransactionHeader>	Contains customer specific login information	<OrderChangeRequest>	1	1/1	-	-	-
<SenderID>	Contains Ingram Micro Sender Identification	<TransactionHeader>	2	1/1	String	0/18	123456789
<ReceiverID>	Contains Customer / Vendor Identification	<TransactionHeader>	2	1/1	String	0/18	987654321
<CountryCode>	2 character ISO country code	<TransactionHeader>	2	1/1	Char	2/2	UK
<LoginID>	Customer specific login	<TransactionHeader>	2	1/1	Char	6/10	UK3833HH D
<Password>	Customer specific password	<TransactionHeader>	2	1/1	String	6/10	Re887Jky5 2
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	1	0/1	String	1/18	54321
</TransactionHeader>	Transaction Header Close	<OrderChangeRequest>	1	1/1	-	-	-
<OrderHeaderInformation>	Contains order header information	<OrderChangeRequest>	1	1/1	-	-	-
<BranchOrderNumber>	Ingrammicro order number	<OrderheaderInformation>	2	1/1	String	7/7	2012345
<OrderSuffix>	Ingrammicro order number suffix	<OrderheaderInformation>	2	0/1	String	2/2	11
<CustomerPO>	Customer purchase	<OrderheaderInformation>	2	0/1	String	0/18	CustomerO



	order number						rder1
<OrderActionCode>	Action code for the order	<OrderheaderInformation>	2	0/1	Char	0/1	R
<ShipmentAddressInformation>	Contains shipment address information	<OrderheaderInformation>	2	0/1	-	-	-
<NewCarrierCode>	New 2 character carrier code	<ShipmentAddressInformation>	3	1/1	String	2/2	CN
<NewCustomerPO>	New customer purchase order number	<ShipmentAddressInformation>	3	1/1	String	1/18	LM2884
<NewShipToAttention>	New attention details	<ShipmentAddressInformation>	3	1/1	String	1/35	John Smith
<NewShipToAddress1>	New address line 1	<ShipmentAddressInformation>	3	0/1	String	1/35	Oak House
<NewShipToAddress2>	New address line 2	<ShipmentAddressInformation>	3	0/1	String	1/35	Unit 104
<NewShipToAddress3>	New address line 3	<ShipmentAddressInformation>	3	0/1	String	0/35	55 Strand Street
<NewShipToCity>	New city	<ShipmentAddressInformation>	3	0/1	String	1/21	Norwich
<NewShipToProvince>	Country code of the original order	<ShipmentAddressInformation>	3	0/1	String	2/2	East Anglia
<NewShipToPostalCode>	New post/zip code	<ShipmentAddressInformation>	3	0/1	String	0/9	NR3 4A1
<NewShipToCountryCode>	ISO Country Code, for use in the Nordics only.	<ShipmentAddressInformation>	3	0/1	String	0/2	UK
<NewEndUserPO>	New end user PO	<ShipmentAddressInformation>	3	0/1	String	0/18	Eorder1
<NewBillToSuffix>	New Location or flooring company that the invoice amount is to be billed to	<ShipmentAddressInformation>	3	0/1	String	3/3	100
<NewShipToSuffix>	New store location or distribution centre to ship the order to	<ShipmentAddressInformation>	3	0/1	String	3/3	200
</ShipmentAddressInformation>	<ShipmentAddressInformation> close	<OrderHeaderInformation>	2	0/1	-	-	-
</OrderHeaderInformation>	<OrderHeaderInformation> close	<OrderChangeRequest>	1	1/1	-	-	-
<LineInformation>	Contains line change /add information	<OrderChangeRequest>	1	0/1	-	-	-
<AddLine>	Contains line information to be added	<LineInformation>	2	0/*	-	-	-
<SKU>	Ingrammicro product code	<AddLine>	3	1/1	String	1/12	123A321
<Quantity>	Qty of stock required	<AddLine>	3	1/1	Int	0/*	010
<CustomerLineNumber>	Customer line number	<AddLine>	3	0/1	String	1/3	001
<ShipFromWarehouse>	Warehouses to source the order from	<AddLine>	3	1/1	String	2/2	20
</AddLine>	<AddLine> close	<LineInformation>	2	0/*	-	-	-
<ChangeLine>	Contains the required information to change	<LineInformation>	2	0/*	-	-	-
<IngramLineNumber>	Ingrammicro line number to be changed	<ChangeLine>	3	1/1	String	3/3	010
<SKU>	New Ingrammicro product code	<ChangeLine>	3	1/1	String	7/7	123A321
<Quantity>	New qty of stock required	<ChangeLine>	3	1/1	Int	0/*	0010
<CustomerLineNumber>	New customer line number	<ChangeLine>	3	0/1	String	1/3	001
<Suffix>	Ingrammicro order number suffix to be changed	<ChangeLine>	3	0/1	String	2/2	11
</ChangeLine>	<ChangeLine> close	<LineInformation>	2	0/*	-	-	-
<DeleteLine>	Contains line details to delete	<LineInformation>	2	0/*	-	-	-
<IngramLineNumber>	Ingrammicro line number to delete	<DeleteLine>	3	1/1	String	3/3	001
<Suffix>	Ingrammicro order number suffix	<DeleteLine>	3	1/1	String	2/2	11
</DeleteLine>	<DeleteLine> close	<LineInformation>	2	0/*	-	-	-
<AddComment>	Contains comments to be added	<LineInformation>	2	0/*	-	-	-
<CommentText>	Comment text	<AddComment>	4	1/1	String	1/35	Please deliver soon
<CustomerLineNumber>	Customer line number	<AddComment>	4	0/1	String	1/3	001
<Suffix>	Ingrammicro order number suffix	<AddComment>	4	1/1	String	2/2	11

</AddComment>	<AddComment> close	<LineInformation>	3	0/*	-	-	-
</LineInformation>	<LineInformation> close	<OrderChangeRequest>	1	0/1	-	-	-
<ShowDetail>	<Show Details>	<OrderChangeRequest>		0/1	-	-	-
</OrderChangeRequest>	<OrderChangeRequest> close	-	0	1/1	-	-	-

#### Notes:

It is not possible to change the ship from province from the originally specified ISO country code.

#### Outbound XML Document

Root element Name : OrderChangeResponse

#### Sample Document: OrderChangeResponse

```

<OrderChangeResponse>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <ErrorStatus ErrorNumber=""></ErrorStatus>
    <DocumentID></DocumentID>
    <TransactionID>54321</TransactionID>
    <TimeStamp>2003-07-09T00:00:00</TimeStamp>
  </TransactionHeader>
  <OrderHeaderInformation>
    <OrderHeaderError>OrderHeaderError_1</OrderHeaderError>
    <BranchOrderNumber>2048043</BranchOrderNumber>
    <OrderSuffix>10</OrderSuffix>
    <CustomerPO>CustomerPO_1</CustomerPO>
  </OrderHeaderInformation>
  <LineInformation>
    <AddLine>
      <LineError></LineError>
      <SKU>123C321</SKU>
      <Quantity>3</Quantity>
      <ShippedQuantity>0</ShippedQuantity>
      <BackOrderQuantity>3</BackOrderQuantity>
      <BackOrderETA>20/08/2003</BackOrderETA>
      <IngramLineNumber>020</IngramLineNumber>
      <CustomerLineNumber />
      <UnitPrice>2.17</UnitPrice>
      <ShipFromWarehouse>20</ShipFromWarehouse>
      <LocalCurrencyPrice>2.17</LocalCurrencyPrice>
      <PriceDerivedFlag>A</PriceDerivedFlag>
      <ForeignCurrency>EUR</ ForeignCurrency >
      <CarrierCode>OT</CarrierCode>
      <FreightRate>20</FreightRate>
      <TransitDays>1</TransitDays>
    </AddLine>
    <ChangeLine>
      <LineError></LineError>
      <SKU>123D321</SKU>
      <Quantity>2</Quantity>
      <ShippedQuantity>0</ShippedQuantity>
      <BackOrderQuantity>2</BackOrderQuantity>
      <BackOrderETA>20/08/2003</BackOrderETA>
      <OldIngramLineNumber>020</OldIngramLineNumber>
      <NewIngramLineNumber>030</NewIngramLineNumber>
      <CustomerLineNumber>001</CustomerLineNumber />
      <UnitPrice>2.17</UnitPrice>
      <Suffix>11</Suffix>
    </ChangeLine>
  </LineInformation>
</OrderChangeResponse>

```

```

<LocalCurrencyPrice>2.17</LocalCurrencyPrice>
<PriceDerivedFlag></PriceDerivedFlag>
<ForeignCurrency>EUR</ ForeignCurrency >
<CarrierCode>OT</CarrierCode>
<FreightRate>20</FreightRate>
<TransitDays>1</TransitDays>
</ChangeLine>
<DeleteLine>
  <LineError></LineError>
  <IngramLineNumber>020</IngramLineNumber>
</DeleteLine>
<AddComment>
  <LineError></LineError>
  <IngramLineNumber>030</IngramLineNumber>
  <Suffix>11</Suffix>
</AddComment>
</LineInformation>
</OrderChangeResponse>

```

## Elements/Attributes Description: OrderChangeResponse

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<OrderChangeResponse>	Contains order change confirmation	-	0	1/1	-	-	-
<Version>	XML version	<DtypeOrderResponse>	1	1/1	String	3/3	2.0
<TransactionHeader>	Contains transaction header information	<DtypeOrderResponse>	1	1/1	-	-	-
<SenderID>	Sender identification	<TransactionHeader>	2	1/1	Char	0/18	987654321
<ReceiverID>	Receiver identification	<TransactionHeader>	2	1/1	Char	0/18	123456789
<ErrorStatus>	Refers to the error description generated by the transaction. Blank if transaction was successful	<TransactionHeader>	2	1/1	String	0/100	ERROR: Login ID is invalid
ErrorNumber	Refers to the error number that has been generated by the transaction. Each error number is associated with a unique error message. Blank if transaction was successful	Attribute of <ErrorStatus>	A	1/1	String	0/10	20007
<DocumentID>	Unique ID generated by Ingram Micro	<TransactionHeader>	2	1/1	String	1/40	{9D25E715-F65E-432F-A773-9E22FEA8FBDF}
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	2	0/1	Char	1/18	12345
<TimeStamp>	Date and time of transaction (CET)	<TransactionHeader>	2	1/1	Char	1/19	2003-07-07T00:00:00
</TransactionHeader>	Close of transaction header	<OrderRequest>	1	1/1	-	-	-
<OrderHeaderInformation>	Contains order information	<OrderChangeResponse>	1	1/1	-	-	-
<OrderHeaderError>	Error messages from transaction processing	<OrderHeaderInformation>	2	0/1	String	1/1024	Order Not Released
<BranchOrderNumber>	Ingrammicro order number	<OrderHeaderInformation>	2	1/1	String	7/7	2012345
<OrderSuffix>	Ingrammicro order number suffix	<OrderHeaderInformation>	2	0/1	String	2/2	11
<CustomerPO>	Customer purchase order number	<OrderHeaderInformation>	2	0/1	String	0/18	COrder1
</OrderHeaderInformation>	<OrderHeaderInformation> close	<OrderChangeResponse>	1	1/1	-	-	-
<LineInformation>	Contains information on the lines changed	<OrderChangeResponse>	1	01	-	-	-
<AddLine>	Contains line information added	<LineInformation>	2	0/*	-	-	-
<LineError>	Contains errors on adding line	<AddLine>	3	0/1	String	1/255	Part cannot be

							backordered
<SKU>	Ingrammicro product code	<AddLine>	3	1/1	String	1/12	123A321
<Quantity>	Qty ordered	<AddLine>	3	1/1	Int	0/*	0010
<ShippedQuantity>	Qty shipped	<AddLine>	3	1/1	Int	0/*	0010
<BackOrderQuantity>	Qty backordered	<AddLine>	3	1/1	Int	0/*	0010
<BackOrderETA>	If available, the ETA for backordered product to arrive at Ingrammicro	<AddLine>	3	0/1	String	0/10	10/03/2003
<IngramLineNumber>	Ingrammicro line number	<AddLine>	3	1/1	String	3/3	010
<CustomerLineNumber>	Customer line number	<AddLine>	3	0/1	String	1/3	001
<UnitPrice>	Single unit cost of the ordered SKU	<AddLine>	3	1/1	String	0/*	123.26
<ShipFromWarehouse>	Ingrammicro warehouse number	<AddLine>	3	1/1	String	2/2	20
<LocalCurrencyPrice>	Contains Local Currency Price	<AddLine>	3	1/1	Num	0/*	2.17
<PriceDerivedFlag>	Refers to price code	<AddLine>	3	1/1	String	0/1	A
<ForeignCurrency>	Foreign Currency	<AddLine>	3	1/1	String	0/*	EUR
<CarrierCode>	Carrier Code	<AddLine>	3	1/1	String	0/2	OT
<FreightRate>	Freight Rate / Costs	<AddLine>	3	1/1	Num	0/*	20
<TransitDays>	No. of Transit Days	<AddLine>	3	1/1	Num	0/2	1
</AddLine>	<AddLine> close	<LineInformation>	2	0/*	-	-	-
<ChangeLine>	Contains line change information	<LineInformation>	2	0/*	-	-	-
<LineError>	Error message from line change processing	<ChangeLine>	3	0/1	String	1/255	Line number not found
<SKU>	Ingrammicro product code	<ChangeLine>	3	1/1	String	1/12	123A321
<Quantity>	New ordered Qty	<ChangeLine>	3	1/1	Int	0/*	0010
<ShippedQuantity>	Number of new qty shipped	<ChangeLine>	3	1/1	Int	0/*	0010
<BackOrderQuantity>	Number of new qty backordered	<ChangeLine>	3	1/1	Int	0/*	0010
<BackOrderETA>	If available, the ETA date for back ordered product to arrive in Ingram Micro's warehouse	<ChangeLine>	3	0/1	String	0/10	10/03/2003
<OldIngramLineNumber>	Ingrammicro line number before change	<ChangeLine>	3	1/1	String	3/3	020
<NewIngramLineNumber>	Ingrammicro line number after change	<ChangeLine>	3	0/1	String	3/3	030
<CustomerLineNumber>	Customer line number	<ChangeLine>	3	0/1	String	1/3	001
<UnitPrice>	Single unit cost of ordered SKU	<ChangeLine>	3	1/1	String	0/*	123.26
<Suffix>	Ingrammicro order number suffix	<ChangeLine>	3	0/1	String	2/2	11
<LocalCurrencyPrice>	Contains Local Currency Price	<ChangeLine>	3	1/1	Num	0/*	2.17
<PriceDerivedFlag>	Refers to price code	<ChangeLine>	3	1/1	String	0/1	A
<ForeignCurrency>	Foreign Currency	<ChangeLine>	3	1/1	String	0/*	EUR
<CarrierCode>	Carrier Code	<ChangeLine>	3	1/1	String	0/2	OT
<FreightRate>	Freight Rate / Costs	<ChangeLine>	3	1/1	Num	0/*	20
<TransitDays>	No. of Transit Days	<ChangeLine>	3	1/1	Num	0/2	1
</ChangeLine>	<ChangeLine> close	<LineInformation>	2	0/*	-	-	-
<DeleteLine>	Contains line delete information	<LineInformation>	2	0/*	-	-	-
<LineError>	Error in line deletion	<DeleteLine>	3	0/1	String	1/255	Order # not found
<IngramLineNumber>	Ingrammicro line number	<DeleteLine>	3	1/1	String	3/3	010
</DeleteLine>	<DeleteLine> close	<LineInformation>	2	0/*	-	-	-
<AddComment>	Contains comment information	<LineInformation>	2	0/*	-	-	-
<LineError>	Error in comment line	<AddComment>	3	0/1	String	1/255	Order # not found
<IngramLineNumber>	Ingrammicro line number	<AddComment>	3	1/1	String	3/3	010
<Suffix>	Ingrammicro order number suffix	<AddComment>	3	0/1	String	2/2	11
</AddComment>	<AddComment> close	<LineInformation>	2	0/*	-	-	-
</LineInformation>	<LineInformation> close	<OrderChangeResponse>	1	01	-	-	-
</OrderChangeResponse>	<OrderChangeResponse> close	-	0	1/1	-	-	-

#### An error response:

An example of an error message that will be generated if the LoginID, Password or CountryCode are incorrect:

```
<TransactionHeader>  
  <ErrorStatus ErrorNumber="20007">ERROR:  
    LoginID, or Password or CountryCode is  
    incorrect</ErrorStatus>  
  <DocumentID>{0598CBDE-30B5-497E-9096-CAC5992D4AFD}  
  </DocumentID>  
  TransactionID>789456</TransactionID>  
  TimeStamp>2001-07-16T17:25:58</TimeStamp>  
</TransactionHeader>
```

## DType Order Entry Transaction

### Description of Transaction

The DTypeOrder (Direct ship order) transaction is a real-time transaction that creates – finalises and releases a DTypeOrder. This type of order is only used for License / Warranty type orders where the End-User details are required by the Vendor. For basic fulfilment orders direct to the End-User where the End-User details are not required by the Vendor, a standard Order Request should be used.

#### Create the order

The request area contains general customer order information and options, such as purchase order number, shipping address, billing account, end user information.

Unlike the order entry transaction it is not possible to specify multiple warehouses and the default warehouse number should be used for all DType orders.

The end user information section is specific to this type of order.

Each order must only contain SKUs for a single vendor, as it is not possible to combine vendor Dtype products on a single order.

#### Version 2.0

The amount of detail that the Dtype Order response provides has been enhanced for version 2.0. The changes can be seen by the pale yellow colouring in the response table. All uncoloured rows are available through version 1.0.

### Inbound XML Document

Root element Name : DTypeOrderRequest"

#### Sample Document: DTypeOrderRequest

```
<DTypeOrderRequest>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <CountryCode>UK</CountryCode>
    <LoginID>UK3833HHD</LoginID>
    <Password>Re887Jky52</Password>
    <TransactionID>54321</TransactionID>
  </TransactionHeader>
  <OrderHeaderInformation>
    <BillToSuffix/>
    <AddressingInformation>
      <CustomerPO>DtypePO2</CustomerPO>
      <ShipToAttention>Marion Grange</ShipToAttention>
      <EndUserPO>EUP32223</EndUserPO>
      <SpecialBidNumber>35 Characters in Length</SpecialBidNumber>
      <ShipTo>
        <Address>
          <ShipToAddress1>A2 Basement Flat</ShipToAddress1>
          <ShipToAddress2>AdalenStreet</ShipToAddress2>
          <ShipToAddress3>Downbridge</ShipToAddress3>
          <ShipToCity>Oakley</ShipToCity>
          <ShipToProvince>United Kingdom</ShipToProvince>
          <ShipToPostalCode>NO3 9FG</ShipToPostalCode>
        </Address>
      </ShipTo>
    </AddressingInformation>
  </OrderHeaderInformation>
</DTypeOrderRequest>
```

```

</ShipTo>
</AddressingInformation>
<ProcessingOptions>
  <CarrierCode>P3</CarrierCode>
  <ShipmentOptions>
    <BackOrderFlag>Y</BackOrderFlag>
    <ShipFromBranches>20</ShipFromBranches>
  </ShipmentOptions>
</ProcessingOptions>
<EndUserInformation>
  <ContactName>Jacob Lyons</ContactName>
  <PhoneNumber>01604575550</PhoneNumber>
  <ExtensionNumber>33228</ExtensionNumber>
  <FaxNumber>01604575555</FaxNumber>
  <Address1>192 Linford Street</Address1>
  <Address2>Linslow</Address2>
  <City>Milton Keynes</City>
  <Province>UK</Province>
  <PostalCode>MK9 8GG</PostalCode>
  <EndUserCountryCode>UK</EndUserCountryCode>
  <CompanyName>Electron Micro</CompanyName>
  <VATNumber>123456</VATNumber>
  <AuthorizationNumber>A-123456</AuthorizationNumber>
  <PricingLevel>P</PricingLevel>
  <EmailAddress>jlyons@Emicro.com</EmailAddress>
</EndUserInformation>
<ResellerInformation>
  <SalesRepName>Frank Fletcher</SalesRepName>
  <ResellerContactName>Geraldine Duberry</ResellerContactName>
  <ResellerPhoneNumber>01922 533388</ResellerPhoneNumber>
  <ResellerFaxNumber>01922 533389</ResellerFaxNumber>
  <ResellerAddress1>Bank House</ResellerAddress1>
  <ResellerAddress2>Brompton</ResellerAddress2>
  <ResellerCity>Birmingham</ResellerCity>
  <ResellerProvince>UK</ResellerProvince>
  <ResellerPostalCode>BR2 4TT</ResellerPostalCode>
  <ResellerCompanyName>RightOnIT</ResellerCompanyName>
  <ResellerEmailAddress>gdub@rightonit.com</ResellerEmailAddress>
</ResellerInformation>
</OrderHeaderInformation>
<OrderLineInformation>
  <ProductLine>
    <SKU>146J541</SKU>
    <Quantity>1</Quantity>
    <SpecialBid>EUP32223</SpecialBid>
    <SpecialBidNumber>EUP32223</SpecialBidNumber>
    <RequiredPrice>EUP32223</RequiredPrice>
  </SpecialBid>
  <CustomerLineNumber/>
</ProductLine>
<CommentLine>
  <CommentText>Many thanks</CommentText>
</CommentLine>
</OrderLineInformation>
<ShowDetail>1</ShowDetail>
</DTypeOrderRequest>

```

Elements/Attributes Description: DTypeOrderRequest



Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<DTypeOrderRequest>	Contains the Dtype Order Request	-	0	1/1	-	-	-
<Version>	XML Version	<DTypeOrderRequest>	1	1/1	String	3/3	2.0
<TransactionHeader>	Transaction Header	<DTypeOrderRequest>	1	1/1	-	-	-
<SenderID>	Sender identification	<TransactionHeader>	2	1/1	String	0/18	123456789
<ReceiverID>	Sender identification	<TransactionHeader>	2	1/1	String	0/18	987654321
<CountryCode>	2 character ISO country code	<TransactionHeader>	2	1/1	Char	2/2	UK
<LoginID>	Customer specific login	<TransactionHeader>	2	1/1	String	6/10	TESTLogin
<Password>	Customer specific password	<TransactionHeader>	2	1/1	String	6/10	Pass221RtF
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	2	0/1	String	1/18	1234567
</TransactionHeader>	Close of transaction header	<DTypeOrderRequest>	1	1/1	String	-	-
<OrderHeaderInformation>	Contains order header information.	<DTypeOrderRequest>	1	1/1	-	-	-
<BillToSuffix>	Contains alternate Bill-to code	<OrderHeaderInformation>	2	0/1	String	3/3	100
<AddressingInformation>	Contains address information	<OrderHeaderInformation>	2	1/1	-	-	-
<CustomerPO>	Customer purchase order number	<AddressingInformation>	3	1/1	String	0/18	Order1
<ShipToAttention>	Attention name	<AddressingInformation>	3	0/1	String	0/35	Mr Smith
<EndUserPO>	End user purchase order number	<AddressingInformation>	3	0/1	String	0/18	EOrder1
<SpecialBidNumber>	Special Bid Number at Header Level – will be applied to all lines on the Order	<AddressingInformation>	3	0/1	String	0/35	Vendor supplied Special Bid Number
<ShipTo>	Contains the ship-to details	<AddressingInformation>	3	0/1	-	-	-
<Address>	Contains address information	<ShipTo>	4	0/1	-	-	-
<Address1>	Address line 1	<Address>	5	1/1	String	1/35	12 Gray Avenue
<Address2>	Address line 2	<Address>	5	0/1	String	1/35	High Street
<Address3>	Address line 3	<Address>	5	0/1	String	0/35	Semill
<ShipToCity>	City name	<Address>	5	1/1	String	1/21	London
<ShipToProvince>	Country code	<Address>	5	0/1	String	2/2	UK
<ShipToPostalCode>	Postal/zip code	<Address>	5	1/1	String	0/9	MK11 1AA
<ShipToCountryCode>	ONLY APPLIES FOR NORDIC COUNTRIES ISO Country Code	<Address>	5	0/1	String	0/2	DK
</Address>	<Address> close	<ShipTo>	4	0/1	-	-	-
<Suffix>	Contains a Ship-to code	<ShipTo>	4	0/1	-	-	-
<ShipToSuffix>	Identifies a store location or distribution centre	<Suffix>	5	1/1	String	3/3	200
</Suffix>	<Suffix> close	<ShipTo>	4	0/1	-	-	-
</ShipTo>	<ShipTo> close	<AddressingInformation>	3	0/1	-	-	-
</AddressingInformation>	<AddressingInformation> close	<OrderHeaderInformation>	2	1/1	-	-	-
<ProcessingOptions>	Contains order processing information	<OrderHeaderInformation>	2	1/1	-	-	-
<CarrierCode>	Carrier code	<ProcessingOptions>	3	1/1	String	2/2	CN
<ShipmentOptions>	Contains shipment processing options	<ProcessingOptions>	3	1/1	-	-	-
<BackOrderFlag>	Code setting for backorders	<ShipmentOptions>	4	1/1	Char	1/1	Y
<ShipFromBranches>	Ingrammicro warehouse branch numbers to be sourced for product	<ShipmentOptions>	4	1/1	String	0/10	String
</ShipmentOptions>	<ShipmentOptions> close	<ProcessingOptions>	3	1/1	-	-	-
</ProcessingOptions>	<ProcessingOptions> close	<OrderHeaderInformation>	2	1/1	-	-	-
<EndUserInformation>	Contains End-User information for the Vendor	<OrderHeaderInformation>	2	1/1	-	-	-
<ContactName>	EU contact name	<EndUserInformation>	3	1/1	String	1/30	Jacob Lyons
<PhoneNumber>	EU phone number	<EndUserInformation>	3	1/1	String	1/15	01604 123456
<ExtensionNumber>	EU extension number	<EndUserInformation>	3	0/1	String	0/5	12345
<FaxNumber>	EU fax number	<EndUserInformation>	3	1/1	String	1/15	01604



							564403
<Address1>	EU address line 1	<EndUserInfo>	3	1/1	String	1/35	192 Lindford Street
<Address2>	EU address line 2	<EndUserInfo>	3	1/1	String	1/35	Linslow
<City>	EU city	<EndUserInfo>	3	1/1	String	1/21	London
<Province>	EU province	<EndUserInfo>	3	1/1	String	2/2	UK
<PostalCode>	EU postal code	<EndUserInfo>	3	1/1	String	0/9	NW11 1AA
<EndUserCountryCode>	EU ISO country code	<EndUserInfo>	3	0/1	String	2/2	UK
<CompanyName>	EU company name	<EndUserInfo>	3	1/1	String	1/30	Electron Micro
<VATNumber>	EU VAT number	<EndUserInfo>	3	0/1	String	0/14	123456
<AuthorizationNumber>	EU authorisation number	<EndUserInfo>	3	0/1	String	0/20	12ABC345
<PricingLevel>	EU pricing level (per Vendors license rules)	<EndUserInfo>	3	0/1	String	0/1	A
<EmailAddress>	EU e-mail address	<EndUserInfo>	3	1/1	String	3/50	<a href="#">A@B.COM</a>
</EndUserInfo>	<EndUserInfo> close	<OrderHeaderInfo>	2	1/1	-	-	-
<ResellerInfo>	Contains reseller information	<OrderHeaderInfo>	2	1/1	-	-	-
<SalesRepName>	RS sales representative	<ResellerInfo>	3	1/1	String	1/20	Frank Fletcher
<ResellerContactName>	RS contact name	<ResellerInfo>	3	1/1	String	1/30	Geraldine Duberry
<ResellerPhoneNumber>	RS phone number	<ResellerInfo>	3	1/1	String	1/15	01238 123606
<ResellerFaxNumber>	RS fax number	<ResellerInfo>	3	1/1	String	1/15	01238 156130
<ResellerAddress1>	RA address line 1	<ResellerInfo>	3	1/1	String	1/35	Bank House
<ResellerAddress2>	RS address line 2	<ResellerInfo>	3	1/1	String	1/35	Brompton
<ResellerCity>	RS city	<ResellerInfo>	3	1/1	String	1/21	Birmingham
<ResellerProvince>	RS country code	<ResellerInfo>	3	1/1	String	2/2	UK
<ResellerPostalCode>	RS post code	<ResellerInfo>	3	1/1	String	0/9	BR2 4TT
<ResellerCompanyName>	RS company name	<ResellerInfo>	3	1/1	String	1/30	RightOnIt
<ResellerEmailAddress>	RS email address	<ResellerInfo>	3	1/1	String	3/35	<a href="#">A@B.COM</a>
</ResellerInfo>	<ResellerInfo> close	<OrderHeaderInfo>	2	1/1	-	-	-
</OrderHeaderInfo>	<OrderHeaderInfo> close	<DTypeOrderRequest>	1	1/1	-	-	-
<OrderLineInfo>	Contains order line information	<DTypeOrderRequest>	1	1/1	-	-	-
<ProductLine>	Contains product line information	<OrderLineInfo>	2	1/1	-	-	-
<SKU>	Ingrammicro product code	<ProductLine>	3	1/1	String	1/12	123A211
<Quantity>	Qty of product required	<ProductLine>	3	1/1	Int	0/*	0010
<SpecialBid>	Contains Special Bid information	<ProductLine>	3	0/1	-	-	-
<SpecialBidNumber>	SpecialBidNumber at Line Level – specific to this Product Line	<SpecialBid>	4	0/1	String	1/35	Vendor supplied Special Bid Number
<RequestedPrice>	Special Bid Price	<SpecialBid>	4	0/1	String	1/*	Special Bid Price to 2 decimal places
</SpecialBid>	SpecialBid close	<ProductLine>	3	0/1	-	-	-
<CustomerLineNumber>	Customer line number	<ProductLine>	3	0/1	String	0/3	001
</ProductLine>	<ProductLine> close	<OrderLineInfo>	2	1/1	-	-	-
<CommentLine>	Contains comment information	<OrderLineInfo>	2	0/1	-	-	-
<CommentText>	The comment text	<CommentLine>	3	1/1	String	1/35	Please deliver before Tuesday
</CommentLine>	<CommentLine> close	<OrderLineInfo>	2	0/1	-	-	-
</OrderLineInfo>	<OrderInfo> close	<DTypeOrderRequest>	1	1/1	-	-	-
<ShowDetail>	Used to return more	<DTypeOrderRequest>	1	1/1	Int	1/1	0

	detailed response						
</DtypeOrderRequest>	<DtypeOrderRequest> close	-	0	1/1	-	-	-

## Outbound XML Document

Root element Name : DTypeOrderResponse”

### Sample Document: DTypeOrderResponse

```
<DtypeOrderResponse>
  <Version>2.0</Version>
  <TransactionHeader>
    <SenderID>123456789</SenderID>
    <ReceiverID>987654321</ReceiverID>
    <ErrorStatus ErrorNumber=""></ErrorStatus>
    <DocumentID></DocumentID>
    <TransactionID>54321</TransactionID>
    <TimeStamp>2003-07-09T00:00:00</TimeStamp>
  </TransactionHeader>
  <OrderInfo>
    <OrderNumbers>
      <BranchOrderNumber>2048044</BranchOrderNumber>
      <CustomerPO>CustomerPO_1</CustomerPO>
      <ShipToAddress1>A2 Basement Flat</ShipToAddress1>
      <ShipToAddress2>Adalen Street</ShipToAddress2>
      <ShipToCity>Oakley</ShipToCity>
      <ShipToProvince>UK</ShipToProvince>
      <ShipToPostalCode>NO3 9FG</ShipToPostalCode>
      <AddressErrorMessage AddressErrorType=""></AddressErrorMessage>
      <ContractNumber/>
      <OrderSuffix Suffix="11">
        <DistributionWeight>0</DistributionWeight>
        <SuffixErrorResponse SuffixErrorType=""></SuffixErrorResponse>
        <Carrier CarrierCode="P3">PRIORITY</Carrier>
      </OrderSuffix>
      <LineInformation>
        <ProductLine>
          <LineError/>
          <SKU>943H887</SKU>
          <UnitPrice>449.93</UnitPrice>
          <IngramLineNumber>020</IngramLineNumber>
          <ShipFromBranch>20</ShipFromBranch>
          <OrderQuantity>2</OrderQuantity>
          <AllocatedQuantity>2</AllocatedQuantity>
          <BackOrderedQuantity>0</BackOrderedQuantity>
          <BackOrderETADate>2003-07-10</BackOrderETADate>
          <PriceDerivedFlag/>
          <ForeignCurrency>0</ForeignCurrency>
          <FreightRate>0</FreightRate>
          <TransitDays>1</TransitDays>
          <BillToSuffix>200</BillToSuffix>
        </ProductLine>
        <CommentLine>
          <CommentLineNumber>003</CommentLineNumber>
          <CommentText>Please deliver to green door</CommentText>
        </CommentLine>
      </LineInformation>
    </OrderSuffix>
  </OrderNumbers>
</OrderInfo>
</DtypeOrderResponse>
```

## Elements/Attributes Description: DtypeOrderResponse

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<DtypeOrderResponse>	Root element	-	0	1/1	-	-	-
<Version>	XML version	<DtypeOrderResponse>	1	1/1	String	3/3	2.0
<TransactionHeader>	Contains transaction header information	<DtypeOrderResponse>	1	1/1	-	-	-
<SenderID>	Sender identification	<TransactionHeader>	2	1/1	Char	0/18	987654321
<ReceiverID>	Receiver identification	<TransactionHeader>	2	1/1	Char	0/18	123456789
<ErrorStatus>	Refers to the error description generated by the transaction. Blank if transaction was successful	<TransactionHeader>	2	1/1	String	0/100	ERROR: Login ID is invalid
ErrorNumber	Refers to the error number that has been generated by the transaction. Each error number is associated with a unique error message. Blank if transaction was successful	Attribute of <ErrorStatus>	A	1/1	String	0/10	20007
<DocumentID>	Unique ID generated by Ingram Micro	<TransactionHeader>	2	1/1	String	1/40	{9D25E715-F65E-432F-A773-9E22FEA8FBDF}
<TransactionID>	Can be used for customer reference ID	<TransactionHeader>	2	0/1	Char	1/18	12345
<TimeStamp>	Date and time of transaction (CET)	<TransactionHeader>	2	1/1	Char	1/19	2003-07-07T00:00:00
</TransactionHeader>	Close of transaction header	<OrderRequest>	1	1/1	-	-	-
<OrderInfo>	Contains order information	-	1	1/1	-	-	-
<OrderNumbers>	Contains order number information	<OrderInfo>	2	1/1	-	-	-
<BranchOrderNumber>	Ingrammicro order number	<OrderNumbers>	3	1/1	String	7/7	2048043
<CustomerPO>	Customer order number	<OrderNumbers>	3	1/1	String	0/18	2323232
<ShipToAddress1>	Address line 1	<OrderNumbers>	3	1/1	String	1/35	Redhouse
<ShipToAddress2>	Address line 2	<OrderNumbers>	3	1/1	String	1/35	55 The Street
<ShipToCity>	Name of city	<OrderNumbers>	3	1/1	String	1/21	London
<ShipToProvince>	2 character ISO country code	<OrderNumbers>	3	1/1	String	2/2	UK
<ShipToPostalCode>	Postal / zip code	<OrderNumbers>	3	1/1	String	1/9	SW1 3IM
<AddressErrorMessage>	Refers to the error description generated by	<OrderNumbers>	3	1/1	String	0/100	Invalid zipcode
<AddressErrorType>	Refers to an error number generated by the address. Each error number is associated with a unique error message. Blank if transaction was successful	<OrderNumbers>	3	1/1	String	0/10	20078
<ContractNumber>	Reserved for future use	<OrderNumbers>	3	1/1	String	0/20	HH832
<OrderSuffix>	Contains order suffix information	<OrderNumbers>	3	1/*	-	-	-
<Suffix>	Ingram Micro order suffix number	Attribute of <OrderSuffix>	A	1/1	Int	2/2	11
<DistributionWeight>	Distribution weight	<OrderSuffix>	4	1/1	String	1/5	45
<SuffixErrorResponse>	Refers to a suffix level error message. Blank if successful	<OrderSuffix>	4	1/1	String	0/100	Invalid bill to suffix
<SuffixErrorType>	Refers to a suffix level error code	Attribute of <SuffixErrorResponse>	A	1/1	String	0/10	20119
<Carrier>	Refers to the name of the carrier	<OrderSuffix>	4	1/1	String	0/2	CityLink
<CarrierCode>	Refers to the carrier code	Attribute of <Carrier>	A	1/1	String	2/2	CN
<LineInformation>	Contains line information	<OrderSuffix>	4	1/*	-	-	-
<ProductLine>	Contains product information	<LineInformation>	5	1/*	-	-	-
<LineError>	Contains line level error message	<ProductLine>	6	1/1	String	0/100	Invalid SKU
<SKU>	Ingram Micro product code	<ProductLine>	6	1/1	String	1/12	943J776
<UnitPrice>	Price per unit	<ProductLine>	6	1/1	String	1/*	83.65

<IngramLineNumber>	Ingram Micro line number	<ProductLine>	6	1/1	String	3/3	020
<ShipFromBranch>	Stocking branch number	<ProductLine>	6	1/1	Int	2/2	20
<OrderQuantity>	Ordered quantity	<ProductLine>	6	1/1	Int	1/*	30
<AllocatedQuantity>	Quantity allocated to the order	<ProductLine>	6	1/1	Int	1/*	25
<BackOrderedQuantity>	Quantity on backorder	<ProductLine>	6	1/1	Int	1/*	5
<BackOrderETADate>	ETA date when stock will arrive at Ingram Micro warehouse	<ProductLine>	6	1/1	Int	0/*	03/08/2003
<PriceDerived>	Refers to price code	<ProductLine>	6	1/1	String	1/1	A
<ForeignCurrency>	Foreign currency value (if applicable)	<ProductLine>	6	1/1	String	0/*	77.88
<FreightRate>	Rate of freight	<ProductLine>	6	1/1	String	0/*	12.50
<TransitDays>	Transit calculation	<ProductLine>	6	1/1	String	1/5	1
<BillToSuffix>	Bill to suffix for order	<ProductLine>	6	1/1	String	3/3	200
</ProductLine>	Close of Product Line	<LineInformation>	5	1/1	-	-	-
<CommentLine>	Contains line level comment information	<LineInformation>	5	1/*	-	-	-
<CommentLineNumber>	Comment line number	<CommentLine>	6	1/1	String		002
<CommentText>	Comment text	<CommentLine>	6	1/1	String		Please deliver to the black door
</CommentLine>	Close of comment section	<LineInformation>	5	1/1	-	-	-
</LineInformation>	Close of line section	<OrderSuffix>	4	1/1	-	-	-
</OrderSuffix>	Close of order suffix section	<OrderNumbers>	3	1/1	-	-	-
</OrderNumbers>	Close of order numbers section	<OrderInfo>	2	1/1	-	-	-
</OrderInfo>	Close of order info section	<DtypeOrderResponse>	1	1/1	-	-	-
</DtypeOrderResponse>	Close of message	-	0	1/1	-	-	-

#### Notes:

This transaction will return an empty <Details> element along with the <TransactionHeader> element if incorrect information is provided.

#### An error response:

An example of an error message that will be generated if the LoginID, Password or CountryCode are invalid:

```
<TransactionHeader>
  <ErrorStatus ErrorNumber="20007">ERROR: LoginID, or Password or CountryCode is
    incorrect</ErrorStatus>
  <DocumentID>{0598CBDE-30B5-497E-9096-CAC5992D4AFD}</DocumentID>
  TransactionID>789456</TransactionID>
  TimeStamp>2001-07-16T17:25:58</TimeStamp>
</TransactionHeader>
```

#### Notes:

If the transaction cannot be completed successfully, <TransactionHeader> is the only element that will be populated and returned.

## DespatchAdvice Transaction

### Description of Transaction

The DespatchAdvice transaction returns information on Goods Despatched from Ingram Micro. It contains information relating to the shipment such as product, quantity, tracking and serial numbers, Bill To, Ship To and Ship From Addresses.

The transaction is sent to the customer on an hourly basis if shipments have occurred within the timeframe. If no shipments were made within the hour timeframe, no despatch advice transactions will be sent to the customer. The hourly processing cycle may vary by country and will cease and commence according to the overnight batch processing times (see table above).

### Sample Document: DespatchAdvice Transaction

```
<DespatchAdvice>
  <DespatchAdviceHeader>
    <DespatchAdviceNumber>9223228</DespatchAdviceNumber>
    <CustomerPO>HAJ-0221</CustomerPO>
  </DespatchAdviceHeader>
  <IMAccountNumber/>
  <IMAccountNumber/>
  <IMAccountNumber>20772882000</IMAccountNumber>
  <DateHeader>
    <Date Type="Document">20030718</Date>
    <Date Type="Despatch">20030718</Date>
    <Date Type="Delivery">20030718</Date>
  <DateHeader/>
  <Address Type="ShipFrom">
    <Name>INGRAM MICRO</Name>
    <AddressLine1>DISTIE ROAD</AddressLine1>
    <AddressLine2>SHEPARDS WAY BUS PARK</AddressLine2>
    <AddressLine3>STOCKHAM CORNER</AddressLine3>
    <AddressLine4>CARTERHAM</AddressLine4>
    <City>SHEFFIELD</City>
    <PostalCode>SF2 7CD</PostalCode>
    <CountryCode>UK</CountryCode>
  </Address>
  <Address Type="ShipTo">
    <Name>SHEILA BROWN</Name>
    <Attention>LEAVE AT RECEPTION</Attention>
    <AddressLine1>TYCOTECH</AddressLine1>
    <AddressLine2>11 BROOKS CORNER</AddressLine2>
    <AddressLine3>NEWPORT GROVE</AddressLine3>
    <AddressLine4>HAPPENHAM</AddressLine4>
    <City>YORK</City>
    <PostalCode>YK12 7FF</PostalCode>
    <CountryCode>UK</CountryCode>
  </Address>
  <Address/>
  <ConsignmentHeader>
    <SequenceNumber>1</SequenceNumber>
    <NumberOfPackages>1</NumberOfPackages>
  </ConsignmentHeader>
  <MeasurementHeader>
    <UnitOfMeasure>KGM</UnitOfMeasure>
    <Weight>49</Weight>
  </MeasurementHeader>
```

```

<PackageHeader>
  <IdentificationHeader>
    <Identification TrackingNumber="32376872346575701091648">
  </IdentificationHeader>
</PackageHeader>
<LineHeader>
  <LineItem LineNumber="1">
    <Product SKU="P77622G" DespatchQuantity="3">
      <Item Type="EANCode">1234231526374</Item>
      <Item Type="CustomerSKU"></Item>
      <SKUDescription1>DESK EXTENSION</SKUDescription1>
      <SKUDescription2>FOR WINDOWS</SKUDescription2>
      <SerialNumberHeader>
        <SerialNumber>834387438724822</SerialNumber>
        <SerialNumber>834387438724823</SerialNumber>
        <SerialNumber>834387438724824</SerialNumber>
      <SerialNumberHeader>
    </Product>
  </LineItem>
</LineHeader>
<TotalLinesShipped>1</TotalLinesShipped>
</DespatchAdvice>

```

#### Elements/Attributes Description: DespatchAdvice Transaction

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<DespatchAdvice>	Contains Despatch Advice	-	0	1/1	-	-	-
<DespatchAdviceHeader>	Contains Despatch Advice Header Information	<DespatchAdvice>	1	0/1	-	-	-
<DespatchAdviceNumber>	Despatch Advice Number	<DespatchAdviceHeader>	2	0/1	string	1/35	99999999999999
<CustomerPO>	Customer PO Number	<DespatchAdviceHeader>	2	0/1	String	1/35	CUST PO
</DespatchAdviceHeader>	Despatch Advice Header Close	<DespatchAdvice>	1	-	-	-	-
<IMAccountNumber>	Ingram Micro Account Number	<DespatchAdvice>	1	0/*	String	0/11	44999999000
<DateHeader>	Header Date Information	<DespatchAdvice>	1	0/1	-	-	-
<Date>	Contains Date Information	<Date Header>	2	1/*	String	0/*	20030718
<Type>	Refers to the Document Date	Attribute of <Date>	A	1/*	String	1/35	Document
<Date>	Contains Date Information	<Date Header>	2	1/*	String	0/*	20030718
<Type>	Refers to the Despatch date	Attribute of <Date>	A	1/*	String	1/35	Despatch
<Date>	Contains Date Information	<Date Header>	2	1/*	String	0/*	20030717
<Type>	Refers to the Delivery Date	Attribute of <Date>	A	1/*	String	1/35	Delivery
</DateHeader>	Date Header Close	<DespatchAdvice>	1	-	-	0/1	-
<Address>	Contains Address Information	<DespatchAdvice>	1	0/*	-	-	-
<Type>	Refers to Address Type	Attribute of <Date>	A	0/*	String	1/35	ShipFrom
<Name>	Contains Ship From Name	<Address>	2	0/1	String	1/35	SHPFNAME
<AddressLine1>	Ship From Address Line1	<Address>	2	0/1	String	0/35	SHPFADDR1
<AddressLine2>	Ship From Address Line2	<Address>	2	0/1	String	0/35	SHPFADDR2
<AddressLine3>	Ship From Address Line3	<Address>	2	0/1	String	0/35	SHPFADDR3
<AddressLine4>	Ship From Address Line4	<Address>	2	0/1	String	0/35	SHPFADDR4
<City>	Ship From City	<Address>	2	0/1	String	1/35	SHPF City
<PostalCode>	Ship From Postal Code	<Address>	2	0/1	String	1/9	SF-POSTCD
<CountryCode>	Ship From Country Code	<Address>	2	0/1	String	2/2	SHPF
</Address>	Address Close	<DespatchAdvice>	1	-	-	-	-
<Address>	Contains Address information	<DespatchAdvice>	1	1/*	-	-	-
<Type>	Refers to Address Type	Attribute of <Date>	A	0/*	String	1/35	ShipTo
<Name>	Contains Ship To Name	<Address>	2	0/1	String	1/35	SHPTO NAME
<Attention>	Contains Attention of Name	<Address>	2	0/1	String	1/35	SHPTO



							ATTN
<AddressLine1>	Ship To Address Line1	<Address>	2	0/1	String	0/35	SHPTO ADDR1
<AddressLine2>	Ship To Address Line2	<Address>	2	0/1	String	0/35	SHPTO ADDR2
<AddressLine3>	Ship To Address Line3	<Address>	2	0/1	String	0/35	SHPTO ADDR3
<AddressLine4>	Ship To Address Line4	<Address>	2	0/1	String	0/35	SHPTO ADDR4
<City>	Ship To City	<Address>	2	0/1	String	1/35	SHPTO CITY
<PostalCode>	Ship To Postal Code	<Address>	2	0/1	String	1/9	ST- POSTCD
<CountryCode>	Ship To Country Code	<Address>	2	0/1	String	2/2	SHP
</Address>	Address Close	<DespatchAdvices>	1	-	-	-	-
<ConsignmentHeader>	Contains Consignment information	<DespatchAdvices>	1	1/1	-	-	-
<SequenceNumber>	Sequence Number	<ConsignmentHeader>	2	1/1	String	1/12	1
<NumberOfPackages>	Number of packages in shipment	<ConsignmentHeader>	2	1/1	Number	1/8	99999999
</ConsignmentHeader>	Consignment Header Close	<DespatchAdvices>	1	-	-	-	-
<MeasurementHeader>	Contains Measurement Information	<DespatchAdvices>	1	1/1	-	-	-
<UnitOfMeasure>	Unit of Measure	<MeasurementHeader>	2	1/1	Text Only	1/3	KGM
<Weight>	Weight of Package	<MeasurementHeader>	2	1/1	String	1/18	999999999 9999
</MeasurementHeader>	Measurement Header Close	<DespatchAdvices>	1	-	-	-	-
<PackageHeader>	Contains Package Information	<DespatchAdvices>	1	1/1	-	-	-
<IdentificationHeader>	Contains Package Identification Information	<PackageHeader>	2	1/1	-	-	-
<Identification>	Contains Identification Information	<IdentificationHeader>	3	1/*	-	-	-
<TrackingNumber>	Carrier Tracking Number	Attribute of <Identification>	A	1/1	String	1/35	Package ID1
</IdentificationHeader>	Identification Header Close	<PackageHeader>	2	-	-	-	-
</PackageHeader>	Package Header Close	<DespatchAdvices>	1	-	-	-	-
<LineHeader>	Contains Line Header Information	<DespatchAdvices>	1	1/1	-	-	-
<LineItem>	Contains Line Item Information	<LineHeader>	2	0/*	-	-	-
<LineNumber>	IM Line Number	Attribute of <LineItem>	A	0/*	String	1/6	1
<Product>	Contains Product Information	<LineItem>	3	1/1	-	-	-
<SKU>	Product SKU	Attribute of <Product>	A	1/1	string	1/35	Part1
<DespatchQuantity>	Quantity Despatched	Attribute of <Product>	A	1/1	string	1/3	3
<Item>	Line Item	<Product>	4	1/*	String	-	EANCODE
<Type>	Line Code Type	Attribute of <Item>	A	1/*	String	1/35	EANCode
<Item>	Line Item	<Product>	4	1/*	String	-	CUSTOMER PART
<Type>	Line Code Type	Attribute of <Item>	A	1/*	String	1/35	CustomerS KU
<SKUDescription1>	Product SKU Description	<Product>	4	1/1	string	1/35	DESC LINE 1
<SKUDescription2>	Product SKU Description	<Product>	4	1/1	string	1/35	DESC LINE 2
<SerialNumberHeader>	Contains Serial Number Information	<Product>	4	0/1	-	-	-
<SerialNumber>	Product Serial Number	<SerialNumberHeader>	5	0/*	String	0/35	SERIAL NBR1
</SerialNumberHeader>	Serial Number Header Close	<Product>	4	-	-	-	-
</Product>	Product Close	<LineItem>	3	-	-	-	-
</LineItem>	LineItem Close	<LineHeader>	2	-	-	-	-
</LineHeader>	Line Header Close	<DespatchAdvices>	1	-	-	-	-
<TotalLinesShipped>	Total Number of Lines Shipped	<DespatchAdvices>	1	1/1			
</DespatchAdvice>	Despatch Advice Close	-	0	-	-	-	-

## Invoice Transaction

### Description of Transaction

The Invoice transaction returns financial information on invoiced orders. It contains general information that appears on standard invoices. It is recommended that the paper invoices should be retained for legal purposes.

The purpose of the transaction is to provide detailed financial information in the areas of product charges, tax charges and miscellaneous charges so that this information can be processed within an order and invoice management system.

### Sample Document: Invoice Transaction

```
<Invoice>
  <InvoiceHeader>
    <InvoiceType>Invoice</InvoiceType>
    <InvoiceNumber>202540088</InvoiceNumber>
    <InvoiceDate>20040217</InvoiceDate>
    <CustomerPO>CST400222</CustomerPO>
    <OriginalOrderNumber>205544811</CustomerPO>
  </InvoiceHeader>
  <IMAccountNumber>UK20451887000</IMAccountNumber>
  <Address Type="Customer">
    <Name>BIODIRECT</Name>
    <Attention>GORDON GREEN</Attention>=
    <AddressLine1>UNIT 34</AddressLine1>
    <AddressLine2>CELWAY INDUSTRIAL ESTATE</AddressLine2>
    <AddressLine3>HAVENTHORPE</AddressLine3>
    <AddressLine4>SOMERSET</AddressLine4>
    <City>TRUCKLEY</City>
    <PostalCode>TP23 3FR</PostalCode>
    <CountryCode>UK</CountryCode>
  </Address>
  <Address Type="ShipTo">
    <Name>LOWCOST IT</Name>
    <Attention>PURCHASING MANAGER</Attention>
    <AddressLine1>RECEPTION</AddressLine1>
    <AddressLine2>COMMON SQUARE</AddressLine2>
    <AddressLine3>KACHOOTON</AddressLine3>
    <AddressLine4>SHIPTON</AddressLine4>
    <City>SHOPLEY</City>
    <PostalCode>SR9 4PO</PostalCode>
    <CountryCode>UK</CountryCode>
  </Address>
  <Address Type="ShipFrom">
    <Name>INGRAM MICRO LTD</Name>
    <Attention></Attention>
    <AddressLine1>GARAMONDE DRIVE</AddressLine1>
    <AddressLine2>WYMBUSH</AddressLine2>
    <AddressLine3>MILTON KEYNES</AddressLine3>
    <AddressLine4>CORNER BUILDING</AddressLine4>
    <City>MILTON KEYNES</City>
    <PostalCode>MK8 8DF</PostalCode>
    <CountryCode>UK</CountryCode>
  </Address>
  <VAT>
    <VATNumber>UK445522668</VATNumber>
  </VAT>
  <Currency>
    <CurrencyCode>GBP</CurrencyCode>
```



```

</Currency>
<PaymentTerms>
  <TermsCode>66</TermsCode>
</PaymentTerms>
<PaymentDue>
  <PaymentDueDate>20040231</PaymentDueDate>
</PaymentDue>
<LineItemHeader>
  <LineItem LineNumber="1">
    <Product SKU="P803551" InvoicedQuantity="3">
      <CustomerSKU></CustomerSKU>
      <EANCode>1234567891230</EANCode>
      <ManufacturerSKU>VEHH887A6</ManufacturerSKU>
      <SKUDescription1>INTEGRATED CD ROM</SKUDescription1>
      <SKUDescription2>2X RW/4X DVD</SKUDescription2>
    </Product>
    <SerialNumberHeader>
      <SerialNumber>SE445262</SerialNumber>
      <SerialNumber>SE445263</SerialNumber>
      <SerialNumber>SE445264</SerialNumber>
    <SerialNumberHeader>
      <Tax Type="VAT">20.02</Tax>
    <LineMonetaryInfo>
      <UnitPrice>32.11</UnitPrice>
      <LineItemAmount>96.33</LineItemAmount>
    </LineMonetaryInfo>
  </LineItem>
</LineItemHeader>
<TotalInformation Type="TotalQuantity">3</TotalInformation>
<TotalInformation Type="OrderLines">1</TotalInformation>
<TotalFinancial Type="TotalAmountDue">136.35</TotalFinancial>
<TotalFinancial Type="TotalLineItemAmount">96.33</TotalFinancial>
<TotalFinancial Type="TotalTaxableAmount">116.33</TotalFinancial>
<Final Type="TotalCharges">20</TotalFinancial>
<TotalFinancial Type="TotalTaxAmount">20.02</TotalFinancial>
<Final Type="FinalTaxableAmount">96.33</Final>
<Final Type="FinalTaxAmount">20.02</Final>
</Invoice>

```

## Elements/Attributes Description: Invoice Transaction

Element	Description	Parent Element	NL	Min/Max Occurrences	Data Type	Min/Max Length	Example Data
<Invoice>	Contains Invoice	-	0	1/1	-	-	-
<InvoiceHeader>	Contains Invoice Header Information	<Invoice>	1	1/1	-	-	-
<InvoiceType>	Contains Invoice Type	<InvoiceHeader>	2	1/1	String	1/35	Invoice
<InvoiceNumber>	Invoice Number	<InvoiceHeader>	2	1/1	String	1/35	INVOICE NBR
<InvoiceDate>	Contains Invoice Date	<InvoiceHeader>	2	1/1	String	1/35	20030717
<CustomerPO>	Customer PO Number	<InvoiceHeader>	2	1/1	String	1/35	CUST PO
<OriginalOrderNumber>	Original order number	<InvoiceHeader>	2	0/1	String	1/35	201234511
</InvoiceHeader>	Invoice Header Close	< InvoiceHeader>	1	-	-	-	-
<IMAccountNumber>	Ingram Micro Account Number	< InvoiceHeader>	1	1/*	String	0/11	CUST NUMBER
<Address>	Contains Address Information	<Invoice>	2	1/*	-	-	-
<Type>	Refers to the Address Type	Attribute of <Address>	A	1/1	String	1/35	Customer
<Name>	Contains Bill To Name	<Address>	2	0/1	String	1/35	BILLTO NAME
<Attention>	Bill To Attention Name	<Address>	2	0/1	String	1/35	BILLTO ATTN
<AddressLine1>	Bill To Address Line1	<Address>	2	0/1	String	0/35	BILLTO ADDR1

<AddressLine2>	Bill To Address Line2	<Address>	2	0/1	String	0/35	BILLTO ADDR2
<AddressLine3>	Bill To Address Line3	<Address>	2	0/1	String	0/35	BILLTO ADDR3
<AddressLine4>	Bill To Address Line4	<Address>	2	0/1	String	0/35	BILLTO ADDR4
<City>	Bill To City	<Address>	2	0/1	String	1/35	BILLTO CITY
<PostalCode>	Bill To Postal Code	<Address>	2	0/1	String	1/9	BT POSTCD
<CountryCode>	Bill To Country Code	<Address>	2	0/1	String	1/3	DE
</Address>	Address Close	<Invoice>	1	-	-	-	-
<Address>	Contains Address Information	<Invoice>	2	0/*	-	-	-
<Type>	Refers to the Address Type	Attribute of <Address>	A	1/1	String	1/35	Ship To
<Name>	Contains Ship To Name	<Address>	2	0/1	String	1/35	SHPTO NAME
<AddressLine1>	Ship To Address Line1	<Address>	2	0/1	String	0/35	SHPTO ADDR1
<AddressLine2>	Ship To Address Line2	<Address>	2	0/1	String	0/35	SHPTO ADDR2
<AddressLine3>	Ship To Address Line3	<Address>	2	0/1	String	0/35	SHPTO ADDR3
<AddressLine4>	Ship To Address Line4	<Address>	2	0/1	String	0/35	SHPTO ADDR4
<City>	Ship To City	<Address>	2	0/1	String	1/35	SHPTO City
<PostalCode>	Ship To Postal Code	<Address>	2	0/1	String	1/9	ST- POSTCD
<CountryCode>	Ship To Country Code	<Address>	2	0/1	String	1/3	UK
</Address>	Address Close	<Invoice>	1	-	-	-	-
<Address>	Contains Address Information	<Invoice>	2	0/*	-	-	-
<Type>	Refers to Address Type	Attribute of <Date>	A	0/1	String	1/35	ShipFrom
<Name>	Contains Ship From Attention Name	<Address>	2	0/1	String	1/35	SHPFR NAME
<Attention>	Contains Attention of Name	<Address>	2	0/1	String	1/35	SHPFR ATTN
<AddressLine1>	Ship From Address Line1	<Address>	2	0/1	String	0/35	SHPFR ADDR1
<AddressLine2>	Ship From Address Line2	<Address>	2	0/1	String	0/35	SHPFR ADDR2
<AddressLine3>	Ship From Address Line3	<Address>	2	0/1	String	0/35	SHPFR ADDR3
<AddressLine4>	Ship From Address Line4	<Address>	2	0/1	String	0/35	SHPFR ADDR4
<City>	Ship From City	<Address>	2	0/1	String	1/35	SHPFR CITY
<PostalCode>	Ship From Postal Code	<Address>	2	0/1	String	1/9	SF- POSTCD
<CountryCode>	Ship From Country Code	<Address>	2	0/1	String	1/3	FR
</Address>	Address Close	<Invoice>	1	-	-	-	-
<VAT>	Contains VAT information	<Invoice>	1	1/1	-	-	-
<VATNumber>	VAT Number	<VAT>	2	1/1	string	1/35	VAT REG NBR
</VAT>	VAT Close	<Invoice>	1	-	-	-	-
<Currency>	Contains Currency Information	<Invoice>	1	1/1	-	-	-
<CurrencyCode>	Contains Currency Code	<Currency>	2	1/1	String	1/3	EUR
</Currency>	Currency Close	<Invoice>	1	-	-	-	-
<PaymentTerms>	Contains Payment Terms Information	<Invoice>	1	1/1	-	-	-
<TermsCode>	Contains Ingram Micro payment terms code	<PaymentTerms>	2	1/1	String	1/3	66
</PaymentTerms>	Payment Terms Close	<Invoice>	1	-	-	-	-
<PaymentDue>	Contains Due Information	<Invoice>	1	1/1	-	-	-
<PaymentDueDate>	Contains Payment Due Date	<PaymentTerms>	2	1/1	String	1/35	20030831
</PaymentDue>	Payment Due Close	<Invoice>	1	-	-	-	-
<LineItemHeader>	Contains Line Item Header Information	<Invoice>	1	1/1	-	-	-
<LineItem>	Contains Line Item Information	<LineItemHeader>	2	1/*	-	-	-
<LineNumber>	Line number. Will return customer line number if present on IMPulse	Attribute of <LineItem>	A	1/1	string	1/6	1
<Product>	Contains Product Information	<LineItem>	3	1/1	-	-	-

<SKU>	Product SKU	Attribute of <Product>	A	1/1	string	1/35	Part1
<InvoicedQuantity>	Quantity Invoiced	Attribute of <Product>	A	1/1	string	1/3	3
<CustomerSKU>	Customer SKU	<Product>	4	1/1	String	1/35	CUST PART1
<EANCode>	EAN Code	<Product>	4	0/1	String	1/35	EAN CODE1
<ManufacturerSKU>	Manufacturers SKU	<Product>	4	0/1	String	1/35	VEND PART1
<SKUDescription1>	Product SKU Description	<Product>	4	1/1	string	1/35	DESC LINE 1
<SKUDescription2>	Product SKU Description	<Product>	4	1/1	string	1/35	DESC LINE 2
</Product>	Product Close	<LineItem>	3	-	-	-	-
<SerialNumberHeader>	Contains Serial Number Information	<Product>	3	0/1	-	-	-
<SerialNumber>	Product Serial Number	<SerialNumberHeader>	4	1/*	String	0/35	SERIAL NBR1
</SerialNumberHeader>	Serial Number Header Close	<Product>	3	-	-	-	-
<Tax>	Contains Tax Information	<LineItem>	3	1/1	String	0/*	20.02
<Type>	Refers to Tax Type	Attribute of <Tax>	A	1/1	String	1/3	VAT
<LineMonetaryInfo>	Contains Line Monetary Information	<LineItem>	3	1/1	-	-	-
<UnitPrice>	Unit Price	<LineMonetaryInfo>	4	1/1	Number	1/18	32.11
<LineItemAmount>	Total Line Amount	<LineMonetaryInfo>	4	1/1	Number	1/18	96.33
</LineMonetaryInfo>	Line Monetary Info Close	<LineItem>	3	0/1	-	-	-
</LineItem>	LineItem Close	<LineHeader>	2	-	-	-	-
</LineItemHeader>	Line Item Header Close	<Invoice>	1	-	-	-	-
<TotalInformation>	Contains Total Information	<Invoice>	1	1/1	Number	1/10	3
<Type>	Refers to Quantity Type	Attribute of <TotalInformation>	A	1/1	String	1/35	TotalQuantity
<TotalInformation>	Contains Total Information	<Invoice>	1	1/1	Number	1/10	1
<Type>	Refers to Order Lines	Attribute of <TotalInformation>	A	1/1	String	1/35	OrderLines
<TotalFinancial>	Contains Total Financial Information	<Invoice>	1	1/1	Number	1/18	136.35
<Type>	Refers to Total Amount Due Type	Attribute of <TotalFinancial>	A	1/1	String	1/35	TotalAmountDue
<TotalFinancial>	Contains Total Financial Information	<Invoice>	1	1/1	Number	1/18	96.33
<Type>	Refers to Total Line Item Amount	Attribute of <TotalFinancial>	A	1/1	String	1/35	TotalLineItemAmount
<TotalFinancial>	Contains Total Financial Information	<Invoice>	1	1/1	Number	1/18	116.33
<Type>	Refers to Total Taxable Amount	Attribute of <TotalFinancial>	A	1/1	String	1/35	TotalTaxableAmount
<TotalFinancial>	Contains Final Values	<Invoice>	1	1/1	Number	1/18	20
<Type>	Refers to Total Charges	Attribute of <Final>	A	1/1	String	1/35	TotalCharges
<TotalFinancial>	Contains Total Financial Information	<Invoice>	1	1/1	Number	1/18	20.02
<Type>	Refers to Total Tax Amount	Attribute of <TotalFinancial>	A	1/1	String	1/35	TotalTaxAmount
<Final>	Contains Final Values	<Invoice>	1	1/1	Number	1/18	96.33
<Type>	Refers to Final Taxable Amount	Attribute of <Final>	A	1/1	String	1/35	FinalTaxableAmount
<Final>	Contains Final Values	<Invoice>	1	1/1	Number	1/18	20.02
<Type>	Refers to Final Tax Amount	Attribute of <Final>	A	1/1	String	1/35	FinalTaxAmount
</Invoice>	Invoice Close	-	0	-	-	-	-