



Book Industry Communication

BIC Realtime

Standards for Instant Business Message Exchange

Order Shipping Details Change Request and Reponse

Version 1.0, 8 February 2016

This document: <http://www.bic.org.uk/files/pdfs/BICWSOrderShippingDetailsChange-V1.0.pdf>
XML schema: <http://www.bic.org.uk/files/xml/BICWSOrderShippingDetailsChange-V1.0.xsd>
WSDL file: <http://www.bic.org.uk/files/xml/BICWSOrderShippingDetailsChangeSOAP-V1.0.wsdl>
XML namespace: <http://www.bic.org.uk/webservices/orderShippingDetailsChange>
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This document specifies in human-readable form the *BIC Realtime* web services Order Shipping Details Change Request and Response formats.

Two separate formats are specified for Requests:

- an HTTP query format for use with implementations that use the basic HTTP protocol¹ and HTTP GET method – sometimes referred to as the REST approach
- an XML format for use with both implementations that use either SOAP or the basic HTTP protocol and HTTP POST method.

The same Response format will apply to both basic HTTP and SOAP exchanges.

The complete specification of the *BIC Realtime* Order Shipping Details Change Request/Response web service includes two machine-readable resources that are to be used by implementers in conjunction with this document:

- a WSDL Definition for the SOAP protocol version of the *BIC Realtime* web service
- an XML Schema for Requests and Response payloads in XML format.

It is strongly recommended that SOAP client implementations of this *BIC Realtime* web service be constructed using the BIC WSDL Definitions as a starting point, as this will promote interoperability between SOAP client and server implementations. In some development environments it may be easier to implement a SOAP server without using the BIC WSDL Definitions, but in this case care must be taken to ensure that the WSDL Definitions that describe the actual implementation is functionally equivalent to the BIC WSDL Definitions.

Business requirements

There is a need for buyers to change shipping details on orders and items already placed with a supplier but not yet shipped. A common use case is the need to change the address to which items are to be shipped in Consumer Direct Fulfilment. Another use case is the need to change carrier, a circumstance that could occur in both trade and CDF supply.

¹ Throughout the term 'HTTP protocol' is to be interpreted as including secure internet protocols that are implemented either at the application layer (e.g. HTTPS) or are implemented at the transport layer (e.g. SSL/TLS).

ORDER SHIPPING DETAILS CHANGE – REQUEST

Requests using the HTTP protocol and the HTTP GET method

Requests using the HTTP protocol and the HTTP GET method should include a query string containing parameters as specified below.

	Parameter description	M ²	Name	
1	A unique identifier for the sender of the Request. An alphanumeric string not containing spaces or punctuation. The form of the identifier used must be agreed between the parties to an exchange.	M	ClientID	
2	A password to further authenticate the sender of the request	M	ClientPassword	
3	Identification number of this request	D	RequestNumber	
4	A code value from a BIC-controlled codelist for the scheme used for the customer account identifier (see ONIX codelist 44). Permitted values are: 01 Proprietary 06 EAN-UCC GLN 07 SAN 11 PubEasy PIN	D	AccountIDType	
5	Account identifier for this request, using the specified scheme.	D	AccountIDValue	
6	A date/time reference for this request	D	IssueDateTime	
7	If and only if this parameter is supported by the <i>BIC Realtime</i> web service implementation, a third party supplier may be specified where the web service host is not the supplier fulfilling the order, in which case this parameter and the next must be included. This parameter contains a code value from a BIC-controlled codelist for the type of identifier of the supplier - see ONIX codelist 92	D	SupplierIDType	
8	A unique supplier identifier of the specified type.	D	SupplierIDValue	
9	Order to which this request relates. Mandatory.	M	OrderReferenceNumber	
10	Buyer's order line reference, if the request relates to a specific order line and not the whole order.	D	OrderLineReferenceNumber	
11	Supplier's order reference	D	SupplierOrderReferenceNumber	
12	CDF invoice reference	D	CDFInvoiceReference	
13	End-customer order reference	D	ConsumerOrderReference	
14	Order fill terms 01 Fill all or kill all 02 Fill all or backorder all 03 Fill available, kill remainder 04 Fill available, kill remainder unless not yet published 05 Fill available, backorder remainder and ship when complete 06 Fill available, backorder remainder and ship as available	D	FillTermsCode	
15	Ship-to party name	M	ShipToPartyName	
16	Ship-to party address line 1	M	ShipToPartyAddress1	
17	Ship-to party address line 2	D	ShipToPartyAddress2	
18	Ship-to party address line 3	D	ShipToPartyAddress3	
19	Ship-to party address line 4	D	ShipToPartyAddress4	
20	Ship-to party postal or zip code	D	ShipToPartyPostalCode	

² In the column headed "M", "M" means mandatory, and "D" means dependent.

Requests using the HTTP protocol and the HTTP GET method (continued)

	Parameter description		Name	
21	Ship-to party country – ISO two-letter country code	D	ShipToPartyCountryCode	
22	Ship-to party contact phone	D	ShipToPartyContactPhone	
23	Ship-to party contact fax	D	ShipToPartyContactFax	
24	Ship-to party contact email	D	ShipToPartyContactEmail	
25	Ship-to party contact name	D	ShipToPartyContactName	
26	Bill-to party name – Mandatory if the bill-to party name and address are not the same as the ship-to party name and address.	D	BillToPartyName	
27	Bill-to party address line 1 – Mandatory if the bill-to party name and address are not the same as the ship-to party name and address.	D	BillToPartyAddress1	
28	Bill-to party address line 2	D	BillToPartyAddress2	
29	Bill-to party address line 3	D	BillToPartyAddress3	
30	Bill-to party address line 4	D	BillToPartyAddress4	
31	Bill-to party address line 5	D	BillToPartyAddress5	
32	Trade bill-to party identifier type. Mandatory if the invoice is to be sent to a trade party other than the requester. This parameter contains a code value from a BIC-controlled codelist for the type of identifier of the supplier - see ONIX codelist 92	D	TradeBillToPartyIDType	
33	Trade bill -to party identifier	D	TradeBillToPartyIDValue	
34	Ship from location ID type. Permitted values: 06 EAN-UCC GLN 07 SAN	D	ShipFromLocationIDType	
35	Ship from location identifier	D	ShipFromLocationIDValue	
36	Requested delivery time. Permitted values: 01 Next day	D	DeliveryTimeCode	
37	Supplier-assigned delivery service code or name. Either this parameter or the following carrier parameters may be included but not both.	D	VendorDeliveryService	
38	Carrier name	D	CarrierName	
39	Carrier-assigned delivery service code or name	D	CarrierDeliveryService	
40	Shipping instructions. Permitted values: 00 Follow standing instructions (default) 01 Ship this order separately without delay 02 Allocate stock now, pending shipping request or standing instruction 03 Ship this order without delay, combined with any backorder items awaiting shipping. NOTE – Shipping may be triggered by an order, by a shipping request or by a standing instruction to ship when agreed conditions are met (e.g. the value or weight of items awaiting shipping exceeds an agreed amount). The default is to follow standing instructions.	D	ShippingInstructionsCode	
41	Shipping charge amount excluding tax, if any	D	ShippingChargeAmount	
42	Shipping charge tax type. Mandatory if there is a shipping charge. Permitted values: 01 VAT	D	ShippingChargeTaxType	
43	Shipping charge tax rate	D	ShippingChargeTaxRate	
44	Shipping charge tax rate percentage	D	ShppingChargeTaxRatePercentage	
45	Shipping charge taxable amount of unit price (for mixed rate items only)	D	ShippingChargeAmountTaxable	
46	Shipping charge tax amount – mandatory if there is a shipping charge	D	ShippingChargeTaxAmount	

Requests using the HTTP protocol and the HTTP GET method (continued)

	Parameter description		Name	
47	EAN-13 product number (either parameter 47 or both parameters 48 and 49 must be included if parameter 10 is included)	D	EAN13	
48	A code value from a BIC-controlled codelist for the type of an alternative identifier of the product (see ONIX codelist 5).	D	ProductIDType	
49	An alternative product identifier of the specified type. Only one alternative type of identifier may be carried in a Request using the HTTP GET method.	D	ProductIDValue	

Example of a Request using the HTTP protocol and the HTTP GET method:

<http://www.booksupplier.co.uk/OrderShippingDetailsChangeService?ClientID=12345&ClientPassword=x9a44Ysj&AccountIDType=01&AccountIDValue=XYZ&IssueDateTime=20151120T152500&OrderReferenceNumber=1012345&OrderLineReferenceNumber=2&ShipToPartyName=A%20N%20Consumer&ShipToPartyAddress1=1%20New%20Road&ShipToPartyAddress2=Newtown&ShipToPartyPostalCode=AA99%209BB&ProductIDType=03&ProductIDValue=9780123456789>

Requests using SOAP or non-SOAP protocols and using the HTTP POST method

Requests using the HTTP POST method should include a request document as the body of a request message. Multiple ship-to parties may be specified using this method.

Request document name and version

Order shipping details change request Version 1.0	<OrderShippingDetailsChangeRequest version="1.0">
--	--

Header

	Request header	M	Header.	3
1	A unique identifier for the sender of the request. An alphanumeric string not containing spaces or punctuation	M	ClientID	
2	A password to further authenticate the sender of the request	M	ClientPassword	
3	Account identifier. A code value from a BIC-controlled codelist for the scheme used for the account identifier (see ONIX codelist 44). Permitted schemes are: 01 Proprietary 06 EAN-UCC GLN 07 SAN 11 PubEasy PIN Account identifier for this request, using the specified scheme	D M M	AccountIdentifier. AccountIDType IDValue	
4	Identification number / string of this request	D	RequestNumber	
5	Document date/time: the date/time when the request was generated. Permitted formats are: YYYYMMDD YYYYMMDDTHHMM YYYYMMDDTHHMMZ (universal time) YYYYMMDDTHHMM±HHMM (time zone) where "T" represents itself, ie letter T	D	IssueDateTime	
6	Supplier to whom this request should be forwarded, if it is not addressed to the <i>BIC Realtime</i> web service host and if the entire request is to be forwarded to a single supplier (use only for requests sent to aggregation services). Supplier ID type - see ONIX codelist 92 ID type name, only if ID type = proprietary Identifier	D M D M	SupplierIdentifier. SupplierIDType IDTypeName IDValue	

³ An 'R' in the right-most column means that the element is repeatable.

Request order detail (continued)

	Order detail	M	OrderDetail.	
7	Ship from location Location – must include at least one identifier, a name, or both Location identifier Location ID type 01 Proprietary 02 Proprietary (DEPRECATED) 06 EAN-UCC GLN 07 SAN Proprietary location ID type name Location ID value Location name	D M D M D M D	ShipFrom. Location. LocationIdentifier LocationIDType IDTypeName IDValue LocationName	R
8	Time and means of delivery Requested delivery time 01 Next day (other codes to be added) Use supplier's delivery service – code or name assigned by supplier Use specified carrier Coded carrier name Coding scheme type: 01 BIC scheme 02 Supplier's scheme 03 Buyer's scheme Carrier name code Name of carrier Carrier's delivery service code / name Free text delivery instruction	D D D D D M M M D D	Delivery. DeliveryTimeCode VendorDeliveryService Carrier. CarrierNameCoded CarrierNameCodeType CarrierNameCode CarrierName CarrierService DeliveryNotes	
9	Shipping instructions. 00 Follow standing instructions (default) 01 Ship this order separately without delay 02 Allocate stock now, pending shipping request or standing instruction 03 Ship this order without delay, combined with any backorder items awaiting shipping. NOTE – Shipping may be triggered by an order, by a shipping request or by a standing instruction to ship when agreed conditions are met (e.g. the value or weight of items awaiting shipping exceeds an agreed amount). The default is to follow standing instructions.	D	ShippingInstructionsCode	
10	Per-order shipping charge Shipping charge amount excluding tax if any Shipping charge tax Tax type 01 VAT Tax rate code Tax rate percent Taxable amount of unit price (for mixed-rate items only) Tax amount	D M D M D D D	ShippingCharge. MonetaryAmount Tax. TaxTypeCode TaxRateCode Percent AmountTaxable TaxAmount	R
11	Detail of specific order lines to which shipping detail changes apply. Mandatory unless the request applies to the whole order. See below.	D	ItemDetail	R

Request item detail

	Item detail. Mandatory if the scope of the request order detail is an item list. Must not be included if the scope of the request order detail is the whole order.	D	OrderDetail.ItemDetail.	R
1	Request line number	M	LineNumber	
2	EAN-13 product number (either this element or element 3 must be included)	D	EAN13	
3	Alternative product identifier Product ID type – use ONIX Code List 5 ID type name, only if ID type = '01' (proprietary) Product number	D M D M	ProductIdentifier. ProductIDType IDTypeName IDValue	R
4	Order line references If included, must contain a reference number or a reference date/time or both. Reference type 12 Buyer's unique order line reference 18 End customer order reference 25 CDF invoice reference 26 CDF invoice line reference Reference number / string Reference date or date and time. See Header line 6 for format options.	D M D D	ReferenceCoded ReferenceTypeCode ReferenceNumber ReferenceDateTime	R
5	Deliver to consumer party – must include an identifier, a name or both. Included at the item detail level if shipping detail changes apply to specific order lines and not others on the same order. Party identifier Party ID type 01 Proprietary 06 EAN-UCC GLN 07 SAN Identifier string Party name Postal address Address line Postal or zip code Country – ISO two-letter country code Communication details Communication type 01 'Landline' phone 02 Mobile phone 03 Fax 04 Email 05 Web 06 Phone (unspecified) Communication locator string Contact details Contact person's name	D D M M D D D D D D D M D D M D D M	ShipToParty. PartyIdentifier PartyIDType IDValue PartyName PostalAddress. AddressLine PostalCode CountryCode CommunicationDetails. CommunicationTypeCode CommunicationLocator ContactPerson PersonName	R
6	Per-item shipping charge Shipping charge amount excluding tax if any Shipping charge tax Tax type – permitted values: 01 VAT Tax rate code Tax rate percent Taxable amount of unit price (for mixed-rate items only) Tax amount	D M D M D D D	ShippingCharge. MonetaryAmount Tax. TaxTypeCode TaxRateCode Percent AmountTaxable TaxAmount	R

Example of a Shipping Details Change Request XML payload using either the SOAP or the HTTP protocol and the HTTP POST method to change the ship-to address in CDF supply:

```
<OrderShippingDetailsChangeRequest version="1.0"
xmlns="http://www.bic.org.uk/webservices/orderShippingDetailsChange">
  <ClientID>12345</ClientID>
  <ClientPassword>x9a44Ysj</ClientPassword>
  <AccountIdentifier>
    <AccountIDType>01</AccountIDType>
    <IDValue>12345</IDValue>
  </AccountIdentifier>
  <RequestNumber>001</RequestNumber>
  <IssueDateTime>20150422T1525</IssueDateTime>
  <OrderDetail>
    <ReferenceCoded>
      <ReferenceTypeCode>11</ReferenceTypeCode>
      <ReferenceNumber>01020304</ReferenceNumber>
    </ReferenceCoded>
    <FillTermsCode>02</FillTermsCode>
    <ItemDetail>
      <LineNumber>1</LineNumber>
      <ProductIdentifier>
        <ProductIDType>03</ProductIDType>
        <IDValue>9780123456789</IDValue>
      </ProductIdentifier>
      <ReferenceCoded>
        <ReferenceTypeCode>12</ReferenceTypeCode>
        <ReferenceNumber>5</ReferenceNumber>
      </ReferenceCoded>
      <ShipToParty>
        <PartyName>A N Consumer</PartyName>
        <PartyAddress>
          <AddressLine>1 New Road</AddressLine>
          <AddressLine>Newtown</AddressLine>
          <PostalCode>AA99 9BB</PostalCode>
        </PartyAddress>
      </ShipToParty>
    </ItemDetail>
  </OrderDetail>
</OrderShippingDetailsChangeRequest>
```

ORDER SHIPPING DETAILS CHANGE – RESPONSE

The Response will use the protocol corresponding to the Request. If the Request uses the basic HTTP protocol, the Response will be an XML document as specified below attached to a normal HTTP header. If the Request uses the SOAP protocol, the Response will contain a SOAP response message whose body will contain the XML document specified below.

Response document name and version

Order shipping details change response Version 1.0	<OrderShippingDetailsChangeResponse version="1.0">
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Header

	Response payload header	M	Header.	4
1	Document date/time: the date/time when the report was generated. Permitted formats are: YYYYMMDD YYYYMMDDTHHMM YYYYMMDDTHHMMZ (universal time) YYYYMMDDTHHMM±HHMM (time zone) where "T" represents itself, ie letter T	M	IssueDateTime	
2	Sender (<i>BIC Realtime</i> web service host) Sender ID type - see ONIX codelist 92 ID type name, only if ID type = proprietary Identifier	M M D M	SenderIdentifier. SenderIDType IDTypeName IDValue	
3	Identification number / string of this response	D	ResponseNumber	
4	Account identifier. A code value from a BIC-controlled codelist for the scheme used for the account identifier (see ONIX codelist 44). Must be specified if an account identifier is specified. Permitted schemes are: 01 Proprietary 06 EAN-UCC GLN 07 SAN 11 PubEasy PIN Account identifier for this request, using the specified scheme	D M M	AccountIdentifier. AccountIDType IDValue	
5	References: request number and/or date/time of request must be quoted if included in the request. Reference type 01 Number or date/time of associated request Reference number / string Reference date or date and time. Mandatory if an IssueDateTime is included in the request. See Header line 1 for format options.	D M M D	ReferenceCoded ReferenceTypeCode ReferenceNumber ReferenceDateTime	
6	Supplier identifier (only included if specified in the request header; mandatory if the response type code is '19' or '20') Supplier ID type - see ONIX codelist 92 ID type name, only if ID type = proprietary Identifier	D M D M	SupplierIdentifier. SupplierIDType IDTypeName IDValue	

⁴ An 'R' in the right-most column means that the element is repeatable.

Response header (continued)

	Payload header	M	Header.	
7	Response code, if there are exception conditions. Response type code. Suggested code values: 01 Service unavailable 02 Invalid ClientID or ClientPassword 03 Server unable to process request – a reason should normally be given as a free text description – see below 16 Invalid or unknown account, supplier or ship-to party identifier 19 Server unable to process request – unable to contact supplier 20 Request acknowledged – awaiting response from supplier Free text description / reason for response	D M D	ResponseCoded. ResponseType ResponseTypeDescription	R

Order detail

	Responses for each order in the request. Mandatory unless the response type code at the header level indicates exception conditions.	D	OrderDetail.	R
1	References: the order number must be quoted. Reference type 11 Buyer's order reference 18 End-customer's order reference 23 Supplier's order reference 25 CDF invoice reference Reference number / string Reference date or date and time. Mandatory if an IssueDateTime is included in the request. See Report Header line 1 for format options.	M M D D	ReferenceCoded ReferenceTypeCode ReferenceNumber ReferenceDateTime	R
2	Response code, if there are exception conditions, in which case this composite terminates the response. Response type code. Suggested code values: 03 Server unable to process request 11 Invalid order reference 14 Cannot change order – order shipped or in progress 15 Cannot change order – order previously cancelled 19 Server unable to process request – unable to contact supplier 20 Request acknowledged – awaiting response from supplier 24 Request does not reference a unique order Free text description Supplier identifier (only included if specified in the corresponding order detail line in the request; mandatory if the response type code is '19' or '20'). Supplier ID type - see ONIX codelist 92 ID type name, only if ID type = proprietary Identifier	D M D D M D M	ResponseCoded. ResponseType ResponseTypeDescription SupplierIdentifier. SupplierIDType IDTypeName IDValue	R

Order detail (continued)

	Responses for each order in the request. Mandatory unless the response type code at the header level indicates exception conditions.	D	OrderDetail.	
3	Shipping detail. If supplier has more than one warehouse, the default warehouse location from which goods will be shipped; may be overridden at the item detail level Location – must include at least one identifier, a name, or both Location identifier Location ID type 01 Proprietary 02 Proprietary (DEPRECATED) 06 EAN-UCC GLN 07 SAN Proprietary location ID type name Location ID value Location name	D M D M D M D	ShippingFrom. Location. LocationIdentifier LocationIDType IDTypeName IDValue LocationName	R
4	Per-order shipping charge, if not (the same as) included in the CDF order request Shipping charge amount excluding tax if any Shipping charge tax Tax type – permitted values: 01 VAT Tax rate code Tax rate percent Taxable amount of unit price (for mixed-rate items only) Tax amount	D M D M D D D	ShippingCharge. MonetaryAmount Tax. TaxTypeCode TaxRateCode Percent AmountTaxable TaxAmount	R
5	Item details – details of all order lines for which the shipping details are being changed. If all order lines are affected by the change, all order lines must be included. For details see below.	M	ItemDetail	R

Item detail

	Details of all order lines for which the shipping details are to be changed. Mandatory unless the header reports a condition that prevents any response	M	OrderDetail.ItemDetail.	R
1	Item line number in this response	D	LineNumber	
2	EAN-13 product number (mandatory unless trading partners have agreed to use an alternative product identifier)	D	EAN13	
3	Alternative product identifier. Product ID type – use ONIX Code List 5 ID type name, only if ID type = '01' (proprietary) Product number	D M D M	ProductIdentifier. ProductIDType IDTypeName IDValue	R
4	Order line references If included, must contain a reference number or a reference date/time or both. Reference type 12 Buyer's unique order line reference 18 End customer order reference 25 CDF invoice reference 26 CDF invoice line reference Reference number / string Reference date or date and time. See Header line 6 for format options.	D M D D	ReferenceCoded ReferenceTypeCode ReferenceNumber ReferenceDateTime	R

Item detail (continued)

	Details of all order lines for which the shipping details are to be changed. Mandatory unless the header reports a condition that prevents any response	M	OrderDetail.ItemDetail.	R
5	Response code Response type code. Suggested code values: 06 Invalid or unknown product ID 11 Invalid or unknown document reference 12 Invalid order line reference 14 Cannot change shipping details – line already shipped or in progress 15 Cannot change shipping details – line previously cancelled 21 Order line updated Free text description	M M D	ResponseCoded ResponseType ResponseTypeDescription	R
6	Shipping detail. (if not the default location set at header or order level) Location – must include at least one identifier, a name, or both Location identifier Location ID type 01 Proprietary 02 Proprietary (DEPRECATED) 06 EAN-UCC GLN 07 SAN Proprietary location ID type name Location ID value Location name	D M D M D M D	ShippingFrom. Location. LocationIdentifier LocationIDType IDTypeName IDValue LocationName	R
7	Item shipping charge, if not (the same as) included in the CDF order request Shipping charge amount excluding tax if any Shipping charge tax Tax type – permitted values: 01 VAT Tax rate code Tax rate percent Taxable amount of unit price (for mixed-rate items only) Tax amount	D M D M D D D	ShippingCharge. MonetaryAmount Tax. TaxTypeCode TaxRateCode Percent AmountTaxable TaxAmount	R

Example of a Retrieve Orders awaiting Order Shipping Details Change Response XML payload using either the SOAP or the HTTP protocol and the HTTP POST method:

```
<OrderShippingDetailsChangeResponse version="1.0"
  xmlns="http://www.bic.org.uk/webservices/orderShippingDetailsChange">
  <Header>
    <IssueDateTime>20150422T1527</IssueDateTime>
    <SenderIdentifier>
      <SenderIDType>01</SenderIDType>
      <IDValue>XYZ</IDValue>
    </SenderIdentifier>
    <AccountIdentifier>
      <AccountIDType>01</AccountIDType>
      <IDValue>12345</IDValue>
    </AccountIdentifier>
    <ReferenceCoded>
      <ReferenceTypeCode>01</ReferenceTypeCode>
      <ReferenceNumber>001</ReferenceNumber>
      <ReferenceDateTime>20150422T1525</ReferenceDateTime>
    </ReferenceCoded>
  </Header>
  <OrderDetail>
    <ReferenceCoded>
      <ReferenceTypeCode>11</ReferenceTypeCode>
      <ReferenceNumber>01020304</ReferenceNumber>
    </ReferenceCoded>
    <ItemDetail>
      <ProductIdentifier>
        <ProductIDType>03</ProductIDType>
        <IDValue>9780123456789</IDValue>
      </ProductIdentifier>
      <ReferenceCoded>
        <ReferenceTypeCode>12</ReferenceTypeCode>
        <ReferenceNumber>5</ReferenceNumber>
      </ReferenceCoded>
      <ResponseCoded>
        <ResponseType>21</ResponseType>
      </ResponseCoded>
    </ItemDetail>
  </OrderDetail>
</OrderShippingDetailsChangeResponse>
```