



Book Industry Communication

BIC Realtime

Standards for Instant Business Message Exchange

Post Authorised Returns Advice and Response

Version 2.0, 23 February 2016

This document: <http://www.bic.org.uk/files/pdfs/BICWSPostAuthorisedReturnsAdvice-V2.0.pdf>
XML schema: <http://www.bic.org.uk/files/xml/BICWSPostAuthorisedReturnsAdvice-V2.0.xsd>
WSDL file: <http://www.bic.org.uk/files/xml/BICWSPostAuthorisedReturnsAdviceSOAP-V2.0.wsdl>
XML namespace: <http://www.bic.org.uk/webservices/authorisedReturnsAdvice>
Next review date: 1 February 2018

This document specifies in human-readable form the *BIC Realtime* Post Authorised Returns Advice and Response format.

Two separate formats are specified for both web services:

- 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 implementations that use either SOAP or the basic HTTP protocol and HTTP POST method.

For each of the two *BIC Realtime* web services the same Response format will apply to both basic HTTP and SOAP exchanges.

The complete specification of the *BIC Realtime* Post Authorised Returns Advice and 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 Request 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 Definition, but in this case care must be taken to ensure that the WSDL Definition that describes the actual implementation is functionally equivalent to the BIC WSDL Definition.

This *BIC Realtime* web service may be used either independently or in conjunction with the *BIC Realtime* Returns Authorisation Request and Response web service. These two web services were previously documented together, but have been separated due to a change in the name of this web service to reflect that it is to be used to advise concerning authorised returns only and the advice may in some cases be that the number of authorised returns that have been despatched is zero.

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).

Business requirements

This service will enable the use of *BIC Realtime* web services to confirm or adjust the number of product items that are being despatched in accordance with a prior returns authorisation, possibly received using the *BIC Realtime* Returns Authorisation Request and Response web service. This process mirrors part of the process covered by the RETINS EDIFACT message, but with the usual web service gains of avoiding more complicated trading partner configuration and allowing for real time response where suppliers can support it. Those familiar with EDIFACT will be aware that confirmation or adjustment should always be provided following returns authorisation, and the same is strongly recommended for *BIC Realtime* web service implementations.

Corrections and additions for Version 2.0 made February 2016

- General Version number updated from '1.0' to '2.0' in specification tables and examples.
- BIC Realtime* Web service renamed from 'Post Returns Despatch Advice Request and Response' to 'Post Authorised Returns Advice and Response'.
- Page 3 HTTP Request line 4: Value '01' added to code list and value '02' marked as deprecated, for consistency with ONIX Code List 44 from which the code list is derived.
- HTTP Request example: Value of request parameter 'AccountIDType' changed from '02' (value deprecated) to '01'.
- Page 4 Request top-level element name changed from 'PostReturnsASNRequest' to 'PostReturnsAdviceRequest'.
- Request Header line 3: Value '01' added to code list and value '02' marked as deprecated, for consistency with ONIX Code List 44 from which the code list is derived.
- Request Header line 6: Element <ReferenceDateTime> added to <ReferenceCoded>, to enable more precision in recording the time associated with an order reference, and for consistency with the EDItX Trade Order format.
- Page 5 Request example: Value of element <AccountIDType> changed from '02' (value deprecated) to '01'.
- Page 6 Response top-level element name changed from 'PostReturnsASNResponse' to 'PostReturnsAdviceResponse'. A footnote explains that the original name is retained in the XML schema for backwards-compatibility reasons.
- Response Header line 4: Value '01' added to code list and value '02' marked as deprecated, for consistency with ONIX Code List 44 from which the code list is derived.
- Response Header line 5: Description of value '01' changed to indicate that it should be used if the Request Header contained <IssueDateTime> but no <RequestNumber>.
- Response Header line 6: Text added to description of value '03' and to description of element <ResponseTypeDescription> to indicate that a response of this kind should normally be accompanied by a reason in free text.
- Page 7 Response example: Values in elements <SenderIDType> and <AccountIDType> changed from '02' (value deprecated) to '01'.

POST AUTHORISED RETURNS ADVICE – 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. Only a single document in PDF format, for which a URI for retrieval is specified, may be posted by this method.

	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). Mandatory in all post returns despatch requests. Permitted values are: 01 Proprietary 02 Proprietary (<i>DEPRECATED</i>) 06 EAN-UCC GLN 07 SAN 11 PubEasy PIN	M	AccountIDType	
5	Account identifier for this request, using the specified scheme. Mandatory in all post returns despatch requests.	M	AccountIDValue	
6	A date/time reference for this request	D	IssueDateTime	
7	Supplier's returns authorisation reference	M	ReturnsAuthorizationReference	
8	Buyer's returns reference	D	BuyersReturnsReference	
9	EAN-13 product number (mandatory unless trading partners have agreed to use an alternative product identifier)	D	EAN13	
10	A code value from a BIC-controlled codelist for the type of an alternative identifier of the product (see ONIX codelist 5).	D	ProductIDType	
11	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	
12	Quantity authorised to be returned	M	AuthorizedQuantity	
13	Quantity now being shipped ³	M	QuantityShipping	

Example of a Post Authorised Returns Advice Request using the HTTP protocol and the HTTP GET method:

```
http://www.booksupplier.co.uk>ReturnsService?ClientID=12345&ClientPassword=x9a44Ysj
&AccountIDType=01&AccountIDValue=12345&RequestNumber=1012345
&IssueDateTime=20151120T152500&SuppliersAuthorizationReference=100999
&ProductIDType=03&ProductIDValue=9780123456789&AuthorizedQuantity=5&QuantityShipping=5
```

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

³ Please note that details of the item authorised to be returned are always to be included in the request, not only if the quantity being shipped differs from the quantity authorised to be returned.

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.

Request document name and version

Post Authorised Returns Advice Request Version 2.0	<PostReturnsAdviceRequest version="2.0">
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Header

	Request header	M	Header.	4
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 for this request A code value from a BIC-controlled codelist for the scheme used for the account identifier. Mandatory if including an account identifier. Permitted values are: 01 Proprietary 02 Proprietary (<i>DEPRECATED</i>) 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 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	Authorisation request references. If included, must contain a reference number or a reference date or both. A supplier's returns authorisation number must be included in each request. Reference type 20 Buyer's returns reference 23 Supplier's returns authorisation number Reference Reference date YYYYMMDD Reference date-time (for format options see line 5)	M M D D D	ReferenceCoded. ReferenceTypeCode ReferenceNumber ReferenceDate ReferenceDateTime	R

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

Request detail

	Item detail ⁵	M	ItemDetail.	R
1	Post returns despatch advice request line number	M	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	Item description – title, author etc. in a single string	D	ItemDescription.TitleDetail	
5	Quantity authorised to be returned. Mandatory.	M	AuthorizedQuantity	
6	Quantity now being shipped. Mandatory.	M	QuantityShipping	

Example of a Post Returns Despatch Advice Request XML payload using either the SOAP or the HTTP protocol and the HTTP POST method:

```
<PostReturnsAdviceRequest version="2.0"
  xmlns="http://www.bic.org.uk/webservices/returnsASN">
  <Header>
    <ClientID>12345</ClientID>
    <ClientPassword>x9a44Ysj</ClientPassword>
    <AccountIdentifier>
      <AccountIDType>01</AccountIDType>
      <IDValue>12345</IDValue>
    </AccountIdentifier>
    <RequestNumber>001</RequestNumber>
    <IssueDateTime>20150428T1500</IssueDateTime>
    <ReferenceCoded>
      <ReferenceCodeType>23</ReferenceCodeType>
      <ReferenceNumber>100999</ReferenceNumber>
    </ReferenceCoded>
  </Header>
  <ItemDetail>
    <LineNumber>1</LineNumber>
    <ProductIdentifier>
      <ProductIDType>03</ProductIDType>
      <IDValue>9780123456789</IDValue>
    </ProductIdentifier>
    <AuthorizedQuantity>5</AuthorizedQuantity>
    <QuantityShipping>5</QuantityShipping>
  </ItemDetail>
</PostReturnsAdviceRequest>
```

⁵ Please note that details of all authorised returns are to be included in the request, not only if the quantity being shipped differs from the quantity authorised to be returned.

POST AUTHORISED RETURNS ADVICE – 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.

The Response to a Post returns despatch advice Request contains a Header only.

Response document name and version

Post Authorised Returns Advice Response Version 2.0	<PostReturnsAdviceResponse version="2.0">
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Header

	Payload header	M	Header.	
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 D	SenderIdentifier. SenderIDType IDTypeName IDValue	
3	Identification number of this response	D	ResponseNumber	
4	Account identifier. Mandatory if included in request. A code value from a BIC-controlled codelist for the scheme used for the account identifier. Must be specified if an account identifier is specified. Permitted schemes are: 01 Proprietary 02 Proprietary (<i>DEPRECATED</i>) 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: the returns authorisation number must be quoted; the request number and/or date/time of request must be quoted if included in the request. Reference type 01 Request number or date/time of associated post returns ship notificerequest 20 Buyer's returns reference 23 Supplier's returns authorisation number Reference number / string Reference date or date and time. Mandatory if an IssueDateTime is included in the request.	M M D D	ReferenceCoded ReferenceTypeCode ReferenceNumber ReferenceDateTime	R
6	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 account identifier Free text description / reason for response	D M D	ResponseCoded. ResponseType ResponseTypeDescription	R

Example of Post Returns Despatch Advice Response XML payload

```
<PostReturnsAdviceResponse version="2.0"
  xmlns="http://www.bic.org.uk/webservices/returnsASN">
  <Header>
    <IssueDateTime>20150428T150500</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>20150428T150000</ReferenceDateTime>
    </ReferenceCoded>
    <ReferenceCoded>
      <ReferenceTypeCode>23</ReferenceTypeCode>
      <ReferenceNumber>100999</ReferenceNumber>
    </ReferenceCoded>
  </Header>
</PostReturnsAdviceResponse>
```