



Book Industry Communication

e4books Web Services Standards

Retrieve Order List

Version 1.0, 28 May 2010

This document specifies in human-readable form the e4books web services Retrieve Order List Request and Response formats.

Two separate formats are specified for Requests:

- an HTTP query format for use with implementations that use the basic HTTP protocol 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 Retrieve Order List 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 web service
- an XML Schema for Requests and Response payloads in XML format.

It is strongly recommended that SOAP client implementations of this 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, including EDI users, to ensure that they are aware of all orders received and not yet fulfilled by a particular supplier. This web service enables a buyer to retrieve a list of orders, selected by date-of-issue range. Having retrieved such a list, a buyer may then follow up individual orders using other web services or by manual enquiry.

This service will also enable an aggregation service to reconcile their system with those of their data suppliers, to check for missing documents and changes made outside their system.

RETRIEVE ORDER LIST – 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 ¹	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	An encrypted 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 order list requests. Permitted values are: 02 Proprietary 06 EAN-UCC GLN 07 SAN 11 PubEasy PIN	M	AccountIDType	
5	Account identifier for this request, using the specified scheme. Mandatory in all order list requests All listed documents must relate to this account.	M	AccountIDValue	
6	A date/time reference for this request	D	IssueDateTime	
7	If and only if this parameter is supported by the 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	Start date of the period for which a list of orders is requested – YYYYMMDD	D	PeriodStartDate	
10	End date of the period for which a list of orders is requested – YYYYMMDD	D	PeriodEndDate	

A valid request must contain at least one of a start date and an end date.

Example of a Request using the HTTP protocol and the HTTP GET method, in which the request is for all orders issued from 1 August 2006 onwards:

`http://www.booksupplier.co.uk/OrderListService?ClientID=12345&ClientPassword=x9a44Ysj
&AccountIDType=02&AccountIDValue=XYZ&PeriodStartDate=20060801`

Example of a Request using the HTTP protocol and the HTTP GET method, in which the request is for all orders issued between 1 January 2006 and 1 August 2006:

`http://www.booksupplier.co.uk/OrderListService?ClientID=12345&ClientPassword=x9a44Ysj
&AccountIDType=02&AccountIDValue=XYZ&PeriodStartDate=20060101&PeriodEndDate=20060801`

¹ In the column headed "M", "M" means mandatory, and "D" means dependent.

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 list request Version 1.0	<OrderListRequest version="1.0">
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Request document content

1	A unique identifier for the sender of the request. An alphanumeric string not containing spaces or punctuation	M	ClientID	
2	An encrypted password to further authenticate the sender of the request	M	ClientPassword	
3	Account identifier. Mandatory in all order list requests. A code value from a BIC-controlled codelist for the scheme used for the account identifier (see ONIX codelist 44). Permitted schemes are: 02 Proprietary 06 EAN-UCC GLN 07 SAN 11 PubEasy PIN Account identifier for this request, using the specified scheme	M 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 web service host (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	
7	Start date of the period for which the list is requested. – YYYYMMDD	D	PeriodStartDate	
8	End date of the period for which the list is requested. – YYYYMMDD	D	PeriodEndDate	

Example of a Retrieve Order List Request XML payload using either the SOAP or the HTTP protocol and the HTTP POST method:

```
<OrderListRequest version="1.0"
xmlns="http://www.bic.org.uk/webservices">
  <ClientID>12345</ClientID>
  <ClientPassword>x9a44Ysj</ClientPassword>
  <AccountIdentifier>
    <AccountIDType>01</AccountIDType>
    <IDValue>12345</IDValue>
  </AccountIdentifier>
  <RequestNumber>001</RequestNumber>
  <IssueDateTime>20060418T1525</IssueDateTime>
  <PeriodStartDate>20060801</PeriodStartDate>
</OrderListRequest>
```

RETRIEVE ORDER LIST – 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

	Retrieve order list response Version 1.0		<OrderListResponse version="1.0">	
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Header

	Response payload header	M	Header.	2
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 (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. Mandatory in all responses. 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: 02 Proprietary 06 EAN-UCC GLN 07 SAN 11 PubEasy PIN Account identifier for this request, using the specified scheme	M 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 of associated order list request Reference number / string Reference date or date and time. Mandatory if an IssueDateTime is included in the request.	D M M D	ReferenceCoded ReferenceTypeCode ReferenceNumber ReferenceDateTime	
6	Supplier identifier (only included if specified in the request) Supplier ID type - see ONIX codelist 92 ID type name, only if ID type = proprietary Identifier	D M D M	SupplierIdentifier. SupplierIDType IDTypeName IDValue	

² 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 16 Invalid or unknown account, supplier or ship-to party identifier 17 Invalid period start or end date 18 Server unable to process request - specified range too large 19 Server unable to process request – unable to contact supplier Free text description	D M D	ResponseCoded. ResponseType ResponseTypeDescription	R

Response detail

	Details of all orders that meet the selection criteria in the request. Mandatory unless the header reports a condition that prevents any response	D	ItemDetail.	R
1	Order list response item line number	D	LineNumber	
2	Document references. It is mandatory to include the buyer's order reference in all items. If the order has been partly or completely fulfilled, one or more delivery note references must be included. Reference type code 11 Buyer's order reference 23 Supplier's order reference Reference number / string Reference date or date and time	M M D D	ReferenceCoded ReferenceTypeCode ReferenceNumber ReferenceDateTime	R
3	Total number of order lines on this order	M	NumberOfLines	
4	Total number of order lines not yet fulfilled on this order	M	NumberOfOpenLines	

Example of a Retrieve Order List Response XML payload using either the SOAP or the HTTP protocol and the HTTP POST method:

```
<OrderListResponse version="1.0"
xmlns="http://www.bic.org.uk/webservices">
  <IssueDateTime>20100118T1527</IssueDateTime>
  <SenderIdentifier>
    <SenderIDType>02</SenderIDType>
    <IDValue>XYZ</IDValue>
  </SenderIdentifier>
  <AccountIdentifier>
    <AccountIDType>01</AccountIDType>
    <IDValue>12345</IDValue>
  </AccountIdentifier>
  <ItemDetail>
    <ReferenceCoded>
      <ReferenceTypeCode>11</ReferenceTypeCode>
      <ReferenceNumber>01020304</ReferenceNumber>
      <ReferenceDateTime>20100109</ReferenceDateTime>
    </ReferenceCoded>
    <ReferenceCoded>
      <ReferenceTypeCode>19</ReferenceTypeCode>
      <ReferenceNumber>DN0123456</ReferenceNumber>
    </ReferenceCoded>
    <NumberOfLines>10</NumberOfLines>
    <NumberOfOpenLines>5</NumberOfOpenLines>
  </ItemDetail>
  <ItemDetail>
    <ReferenceCoded>
      <ReferenceTypeCode>11</ReferenceTypeCode>
      <ReferenceNumber>01020405</ReferenceNumber>
      <ReferenceDateTime>20100119</ReferenceDateTime>
    </ReferenceCoded>
    <NumberOfLines>8</NumberOfLines>
    <NumberOfOpenLines>8</NumberOfOpenLines>
  </ItemDetail>
</OrderListResponse>
```