



# *Book Industry Communication*

## **e4books Web Services Standards Backorder Summary Request and Response**

Version 0.9, 27 November 2007, corrected 2 April 2008

This document specifies in human-readable form the e4books web services Backorder Summary 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 first of these formats has more restricted application than the second, in that, using the HTTP GET method, it is only possible to cancel a whole order or a single item from a single order, whereas using the HTTP POST method it is possible to include a list of items from multiple orders

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

The complete specification of the Backorder Summary 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**

The use of web services for ordering is expected to encourage small order sizes down to individual items, as a result of which there will be many more transactions for both buyers and suppliers to keep track of. This will make it more difficult for both parties to have a clear picture of what is on order, and especially what items are on backorder files.

This web service and the related Backorder Release Request and Response web service are designed to assist buyers in obtaining a clear up-to-date picture of the status of backorder files with their suppliers (possibly intermediated by an agent or aggregation service) and in deciding when to request release of backorder file items that are being accumulated by the supplier.

### **Correction made 2 April 2008**

Page 5      Response header line 6: Response type code value '21' replaced with code value '22'.

## BACKORDER SUMMARY 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 <sup>1</sup>	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	A code value from a BIC-controlled codelist for the scheme used for the account identifier (see ONIX codelist 44). Mandatory if including an account identifier. Permitted values are: 02 Proprietary 06 EAN-UCC GLN 07 GLN 11 PubEasy PIN	D	AccountIDType	
4	Account identifier for this request, using the specified scheme	D	AccountIDValue	
5	Identification number of this request	D	RequestNumber	
6	A date/time reference for this request	D	IssueDateTime	
7	Type of summary requested. The default is that an itemised summary is requested. Permitted values are: 01 Itemised summary 02 Short (totals only) summary	D	SummaryType	
8	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 intended supplier, 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	
9	A unique supplier identifier of the specified type	D	SupplierIDValue	

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

<http://www.booksupplier.co.uk/BackorderSummaryRequestService?ClientID=12345&ClientPassword=x9a44Ysj>

<sup>1</sup> 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.

### Request document name and version

	Backorder summary request Version 0.9		<BackorderSummaryRequest version="0.9">	
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 for this request A code value from a BIC-controlled codelist for the scheme used for the account identifier (see ONIX codelist 44). Mandatory if including an account identifier. Permitted values are: 02 Proprietary 06 EAN-UCC GLN 07 GLN 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	Type of summary requested. The default is that an itemised summary is requested. Permitted values are: 01 Itemised summary 02 Short (totals only) summary	D	SummaryType	
7	Supplier to whom this backorder summary request should be forwarded, if it is not addressed to the web service host (use only for requests sent to aggregators, and only at the header level if the order cancellation request relates to a single supplier). Supplier ID type - see ONIX codelist 92 ID type name, only if ID type = proprietary Identifier	D M D M	SupplierIdentifier.  SupplierIDType IDTypeName IDValue	

*Example of a Backorder SummaryRequest XML payload using either the SOAP or the HTTP protocol and the HTTP POST method:*

```
<BackorderSummaryRequest version="0.9"
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>20071127T1525</IssueDateTime>
</BackorderSummaryRequest>
```

## BACKORDER SUMMARY 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

	<b>Backorder summary response Version 0.9</b>		<b>&lt;BackorderSummaryResponse version="0.9"&gt;</b>	
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### Header

	<b>Response payload header</b>	<b>M</b>	<b>Header.</b>	
1	Document date/time: the date/time when the response 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, required if included in the request 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 GLN 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. Buyer's order number must be quoted if quoted in the request header, i.e. the request relates to a single order.  Reference type 01 Number of associated backorder summary request  Reference number / string  Reference date or date and time	D  M M D	ReferenceCoded  ReferenceTypeCode  ReferenceNumber ReferenceDateTime	

## Response header (continued)

	Response payload header	M	Header.	
6	<p>Response code, if there are exception conditions that affect the response as a whole, or if the request was to cancel an entire order.</p> <p>Response type code. Suggested code values:  01 Service unavailable  02 Invalid ClientID or ClientPassword  03 Server unable to process request  11 Invalid or unknown buyer's order number  16 Invalid or unknown account or supplier identifier  19 Server unable to process request – unable to contact supplier  22 No backordered items</p> <p>Free text description</p> <p>Supplier identifier (only included if specified in the request header; mandatory if the response type code is '19' or '20').</p> <p>Supplier ID type - see ONIX codelist 92  ID type name, only if ID type = proprietary  Identifier</p>	<p>D</p> <p>M</p> <p>D</p> <p>D</p> <p>M</p> <p>D</p> <p>M</p>	<p>ResponseCoded.</p> <p>ResponseType</p> <p>ResponseTypeDescription</p> <p>SupplierIdentifier.</p> <p>SupplierIDType</p> <p>IDTypeName</p> <p>IDValue</p>	R
7	Total quantity backordered – integer. Mandatory unless there is an exception condition.	D	UnitsOnBackorder	
8	Total quantity ready to ship – integer. Mandatory unless there is an exception condition.	D	UnitsReadyToShip	
9	Total gross value of items on backorder.	D	GrossValueOnBackorder	
10	Total net value of items on backorder.	D	NetValueOnBackorder	
11	Total gross value of items ready to ship	D	GrossValueReadyToShip	
12	Total net value of items ready to ship	D	NetValueReadyToShip	

## Response detail

	<b>Details of all backorder items: mandatory unless a short summary has been requested, or the header reports a condition that prevents any response or prevents all items from being cancelled</b>	D	<b>ItemDetail.</b>	R
1	Backorder summary item line number	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 - see ONIX codelist 5 ID type name, only if ID type = proprietary Product number	D M D M	ProductIdentifier. ProductIDType IDTypeName IDValue	R
4	Further description of the item, if needed.	D	ItemDescription	
5	References: buyer's order number, buyer's order line number. Reference type= 11 Buyer's order number 12 Buyer's order line number Reference number / string Reference date or date and time	D M M D	ReferenceCoded ReferenceTypeCode ReferenceNumber ReferenceDateTime	R
5	Buyer's order number	M	BuyersOrderReference	
6	Buyer's order line number. Mandatory unless the order contained only a single order line.	D	BuyersOrderLineReference	
7	Buyer's order date and time	D	ReferenceDateTime	
8	Quantity originally ordered – integer. Must be included if any of the original order quantity have already been shipped.	D	OriginalOrderQuantity	
9	Quantity killed in accordance with fill terms included in the original order	D	QuantityKilled	
10	Quantity on backorder – integer. If no items have yet been shipped, this quantity is the same as the original order quantity, less any quantity killed as instructed in the order fill terms. Must be included unless there is no quantity on backorder.	D	QuantityOnBackorder	
11	Quantity already supplied – integer. Must be included if any of the original order quantity have already been shipped.	D	QuantityShipped	
12	Quantity ready to ship – integer. Must be included if any quantity is ready to ship.	D	QuantityReadyToShip	

*Example of a Backorder Summary Response XML payload using either the SOAP or the HTTP protocol and the HTTP POST method:*

```
<BackorderSummaryResponse version="1.0"
  xmlns="http://www.bic.org.uk/webservices">
  <Header>
    <IssueDateTime>20071127T1527</IssueDateTime>
    <SenderIdentifier>
      <SenderIDType>02</SenderIDType>
      <IDValue>XYZ</IDValue>
    </SenderIdentifier>
    <AccountIdentifier>
      <AccountIDType>01</AccountIDType>
      <IDValue>12345</IDValue>
    </AccountIdentifier>
    <UnitsOnBackorder>20</UnitsOnBackorder>
    <UnitsReadyToShip>5</UnitsReadyToShip>
  </Header>
  <ItemDetail>
    <LineNumber>1</LineNumber>
    <EAN13>9781234567890</EAN13>
    <BuyersOrderReference>0012345</BuyersOrderReference>
    <BuyersOrderLineReference>2</BuyersOrderLineReference>
    <QuantityOnBackOrder>15</QuantityOnBackOrder>
    <QuantityReadyToShip>5</QuantityReadyToShip>
  </ItemDetail>
  <ItemDetail>
    <LineNumber>2</LineNumber>
    <EAN13>9781357924680</EAN13>
    <BuyersOrderReference>0012347</BuyersOrderReference>
    <BuyersOrderLineReference>2</BuyersOrderLineReference>
    <OriginalOrderQuantity>10</OriginalOrderQuantity>
    <QuantityOnBackorder>5</QuantityOnBackorder>
    <QuantityShipped>5</QuantityShipped>
  </ItemDetail>
</BackorderSummaryResponse>
```