Book Industry Communication

BIC Realtime

Standards for Instant Business Message Exchange

ONIX Product Information Acknowledgement

Version 1.0C, 5 February 2016

This document: http://www.bic.org.uk/files/pdfs/BICWSONIXProductInfoAck-V1.0C.pdf
XML schema: http://www.bic.org.uk/files/xml/BICWSONIXProductInfoAck-V1.0C.xsd
WSDL file: http://www.bic.org.uk/files/xml/BICWSONIXProductInfoAckSOAP-V1.0C.wsdl
XML namespace: http://www.bic.org.uk/webservices/onixProductInfoAck
Next review date: 1 February 2018

This document specifies the *BIC Realtime* web service ONIX Product Information Acknowledgement format and the corresponding response format. Separate formats are specified for Requests made either as HTTP queries using the HTTP GET method or as XML attachments using the HTTP POST method. A single XML response "payload" format will apply to all Responses. *BIC Realtime* web services using either basic HTTP or SOAP protocols[1] are supported.

The complete specification of these two closely-related *BIC Realtime* web services includes two machine-readable resources that are to be used by implementers in conjunction with this document:

- a WSDL Definition for the SOAP protocol versions of the *BIC Realtime* web services
- an XML Schema for Request and Response payloads in XML format.

It is strongly recommended that SOAP client implementations of these *BIC Realtime* web services 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 Acknowledgement *BIC Realtime* web service enables the recipient of product information in ONIX format to report upon their success or otherwise in processing the information and any issues that are encountered.

This *BIC Realtime* web service may be used in conjunction with the *BIC Realtime* Retrieve ONIX Product Information web service, or may be used as a stand-alone web service to acknowledge ONIX product information feeds delivered by other means.

[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).

POST ONIX PRODUCT INFORMATION ACKNOWLEDGEMENT REQUEST

Requests using the basic HTTP protocol, HTTP GET method

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

	Parameter description	M	Name	
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	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: *01* Proprietary *06* EAN-UCC GLN *07* SAN *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	Number of original ONIX Product Information request	D	RequestReference	
8	Date or date-time of original request	D	RequestDateTime	
9	Number of ONIX Product Information response to original request	D	ResponseReference	
10	Date or date-time of response to original request	D	ResponseDateTime	
11	EAN-13 product number (mandatory unless trading partners have agreed to use an alternative product identifier)	D	EAN13	
12	A code value from a BIC-controlled codelist for the type of an alternative identifier of the product (see ONIX codelist 5 - code value '02' excluded).	D	ProductIDType	
13	An alternative product identifier of the specified type. Only one alternative type of identifier may be carried in a Request using the HTTP protocol.	D	ProductIDValue	
14	ONIX product record status. The status of the product record received in response to an ONIX product information request. Permitted values are specified by ONIX code list 226.	M	RecordStatus	
15	Record status note. Contains warnings or descriptions of errors found. Mandatory if reporting that the record contains errors.	D	RecordStatusNote	

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

http://www.booksupplier.co.uk/ONIXProductInformationAcknowledgementService?
ClientID=12345&ClientPassword=x9a44Ysj&ProductIDType=03&ProductIDValue=9781234567890
&RecordStatus=00

Requests using the SOAP or basic HTTP protocol, HTTP POST method

Requests using the SOAP protocol should use the HTTP POST method and include a request document as the body of a SOAP request message.

Request document name and version

	Post ONIX Product information acknowledgement Version 1.0C		**<PostONIXProductInfoAckRequest version="1.0C">**	

Header

	Request header	**M**	**Header.**	
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 (see ONIX codelist 44). Mandatory if including an account identifier. Permitted values 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	References to original product information request and response, if product information received using the *BIC Realtime* ONIX Product Information web service. Reference type *27* Product information request number or date/time 28 Product information response number or date/time Reference number / string Reference date-time (for format options see line 5)	D M M D	ReferenceCoded ReferenceTypeCode ReferenceNumber ReferenceDateTime	R

Request detail

	Product	**M**	**Product.**	**R**
1	EAN-13 product number (mandatory unless either there was no product identifier in the product information record or trading partners have agreed to use an alternative product identifier)	D	EAN13	
2	Alternative product identifier Product ID type - see ONIX codelist 5, code value '02' excluded ID type name, only if ID type = proprietary Product number	D M D M	ProductIdentifier. ProductIDType IDTypeName Identifier	R

Request detail (continued)

	Product	**M**	**Product.**	
3	Product record status. The status of the product record received in response to an ONIX product information request. Permitted values are specified by ONIX code list 226.	M	RecordStatus	
4	Record status note. Contains warnings or descriptions of errors found. Either RecordStatusNote or RecordStatusDetail is mandatory if the record status has any value other than '00' or '09'.	D	RecordStatusNote	
5	Record status detail	D	RecordStatusDetail	R
	Status detail code type. Permitted values are defined by ONIX code list 223	M	StatusDetailCodeType	
	Name of proprietary status detail code type	D	StatusDetailCodeTypeName	
	Status detail type severity. Permitted values are defined by ONIX code list 224	M	StatusDetailType	
	Status detail code. Depends upon the status detail code type. If the code type is 'ONIX status detail code' the permitted values are defined by ONIX code list 225.	D	StatusDetailCode	
	Status detail text	D	StatusDetailText	
	Status detail XPath locator	D	StatusDetailXPath	R

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

```
<PostONIXProductInfoAckRequest version="1.0C"
      xmlns="http://www.bic.org.uk/webservices">
  <Header>
    <ClientID>12345</ClientID>
    <ClientPassword>x9a44Ysj</ClientPassword>
    <AccountIdentifier>
      <AccountIDType>01</AccountIDType>
      <IDValue>12345</IDValue>
    </AccountIdentifier>
    <RequestNumber>001</RequestNumber>
    <IssueDateTime>20150423T152500</IssueDateTime>
    <ReferenceCoded>
      <ReferenceTypeCode>27</ReferenceTypeCode>
      <ReferenceNumber>001</ReferenceNumber>
    </ReferenceCoded>
    <ReferenceCoded>
      <ReferenceTypeCode>28</ReferenceTypeCode>
      <ReferenceDateTime>20150421T091500</ReferenceDateTime>
    </ReferenceCoded>
  </Header>
  <Product>
    <ProductIdentifier>
      <ProductIDType>03</ProductIDType>
      <IDValue>9781234567890</IDValue>
    </ProductIdentifier>
    <RecordStatus>00</RecordStatus>
  </Product>
</ONIXProductInformationRequest>
```

POST ONIX PRODUCT INFORMATION ACKNOWLEDGEMENT 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

	Post ONIX product information acknowledgement response Version 1.0C		**<PostONIXProductInfoAckResponse version="1.0C">**

Response body

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 (*BIC Realtime* 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: *01* 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 or date/time of associated post ONIX product information acknowledgement request Reference number / string Reference date or date and time. Mandatory if an IssueDateTime is included in the request.	D M D D	ReferenceCoded ReferenceTypeCode ReferenceNumber ReferenceDateTime	
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 or unknown account identifier Free text description / reason for response	D M D	ResponseCoded. ResponseType ResponseTypeDescription	R

Example of a Post ONIX Production Information Acknowledgement Response XML payload using either the SOAP or the HTTP protocol and the HTTP POST method:

```
<PostONIXProductInfoAckResponse version="1.0C"
      xmlns="http://www.bic.org.uk/webservices">
  <IssueDateTime>20151120T1526</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>20150421T091500</ReferenceDateTime>
  </ReferenceCoded>
</PostONIXProductInfoAckResponse>
```