ONIX DOI METADATA FOR SERIAL ARTICLES
Message specification, Version 1.1, March 2007

This document specifies an ONIX subset with a number of newly-defined elements intended to provide a communication format for metadata related to the registration of DOIs for serial articles. The specification allows for the registration of a DOI that is assigned to a serial article-as-work or a DOI that is assigned to a serial article-as-manifestation, ie it gives the option of registering one DOI only, regardless of the different forms – paper or electronic – in which it appears, or of registering separate DOIs for each form.

The document also includes a message header and a pair of “start of message” and “end of message” elements. Please see ONIX for Books – Product Information Message – XML Message Specification for details of other ONIX XML conventions.

An ONIX Serial Article DOI Registration message must carry either Serial Article Work records only or Serial Article Manifestation records only. Different message names are used in each case.

Throughout the document, text in dark red is used to indicate content that applies only to serial-articles-as-works; text in blue-green is used to indicate content that applies only to serial-articles-as-manifestations; text in light red indicates areas where there are outstanding queries or uncertainties.

Pages 33 and 34 show a simple example of an ONIX Serial Article DOI Registration message carrying a single Serial Article Work record.

This ONIX format was developed in association with the mEDRA Project, supported in its initial stages by the eContent programme of the European Union, and has been extended to meet additional requirements specified by Nielsen BookData, OPOCE (The Office for Official Publications of the European Communities) and MVB(Marketing- und Verlagsservice des Buchhandels GmbH).
<ONIXDOISerialArticleWorkRegistrationMessage>

An ONIX DOI registration metadata message for serial-articles-as-works is an XML document beginning with an XML label `<ONIXDOISerialArticleWorkRegistrationMessage xmlns="http://www.editeur.org/onix/DOIMetadata/1.1">` (which includes an XML namespace declaration) and ending with an XML label `</ONIXDOISerialArticleWorkRegistrationMessage>`. The content of the message comprises one mandatory instance of the `<Header>` composite defined below, and one or more instances of the `<DOISerialArticleWork>` record.

<ONIXDOISerialArticleVersionRegistrationMessage>

An ONIX DOI registration metadata message for serial-articles-as-manifestations is an XML document beginning with an XML label `<ONIXDOISerialArticleVersionRegistrationMessage xmlns="http://www.editeur.org/onix/DOIMetadata/1.1">` (which includes an XML namespace declaration) and ending with an XML label `</ONIXDOISerialArticleVersionRegistrationMessage>`. The content of the message comprises one mandatory instance of the `<Header>` composite defined below, and one or more instances of the `<DOISerialArticleVersion>` record.

Header composite

A group of data elements which together constitute a message header.

Reference name `<Header>`

**MMH.1 Sender company name**

The name of the sender organization, which should always be stated in a standard form agreed with the addressee. Mandatory and non-repeating.

Format Variable-length ASCII text, suggested maximum 30 characters

Reference name `<FromCompany>`

Example `Mondadori`

**MMH.2 Sender contact**

Free text giving the name, department, phone number, etc for a contact person in the sender organization who is responsible for the content of the message. Optional and non-repeating.

Format Variable-length ASCII text, suggested maximum 300 characters

Reference name `<FromPerson>`

Example `Jackie Brown, 020 7979 6444`

**MMH.3 Sender contact email address**

A text field giving the email address for a contact person in the sender organization who is responsible for the content of the message. Mandatory and non-repeating.

Format Variable-length ASCII text, suggested maximum 100 characters

Reference name `<FromEmail>`

Example `jackie.brown@bigpublisher.co.uk`
### MMH.4 Addressee company name
The name of the addressee organization, which should always be stated in a standard form agreed with the addressee. Mandatory and non-repeating.

<table>
<thead>
<tr>
<th>Format</th>
<th>Variable-length ASCII text, suggested maximum 30 characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference name</td>
<td>&lt;ToCompany&gt;</td>
</tr>
<tr>
<td>Example</td>
<td>mEDRA</td>
</tr>
</tbody>
</table>

### MMH.5 Message sequence number
A sequence number of the messages in a series sent between trading partners, to enable the receiver to check against gaps and duplicates. Optional and non-repeating.

<table>
<thead>
<tr>
<th>Format</th>
<th>Variable-length integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference name</td>
<td>&lt;MessageNumber&gt;</td>
</tr>
<tr>
<td>Example</td>
<td>1234</td>
</tr>
</tbody>
</table>

### MMH.6 Message repeat number
A number which distinguishes any repeat transmissions of a message. The original is numbered 1, and repeats are numbered 2, 3 etc. Optional and non-repeating.

<table>
<thead>
<tr>
<th>Format</th>
<th>Variable-length integer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference name</td>
<td>&lt;MessageRepeat&gt;</td>
</tr>
<tr>
<td>Example</td>
<td>2</td>
</tr>
</tbody>
</table>

### MMH.7 Message creation date/time
The date on which the message is sent. Optionally, the time may be added, using the 24-hour clock. Mandatory and non-repeating.

<table>
<thead>
<tr>
<th>Format</th>
<th>Eight or twelve numeric digits only (YYYYMMDD or YYYYMMDDHHMM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference name</td>
<td>&lt;SentDate&gt;</td>
</tr>
<tr>
<td>Example</td>
<td>200005220230</td>
</tr>
</tbody>
</table>

### MMH.8 Message note
Free text giving additional information about the message. Optional and non-repeating.

<table>
<thead>
<tr>
<th>Format</th>
<th>Variable-length ASCII text, suggested maximum 500 characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference name</td>
<td>&lt;MessageNote&gt;</td>
</tr>
<tr>
<td>Example</td>
<td>New titles to be published September 2003</td>
</tr>
</tbody>
</table>
<DOISerialArticleWork> record

A serial article-as-work is described by a group of data elements beginning with an XML label <DOISerialArticleWork> and ending with an XML label </DOISerialArticleWork>.
Reference name <DOISerialArticleWork>

<DOISerialArticleVersion> record

A serial article-as-manifestation is described by a group of data elements beginning with an XML label <DOISerialArticleVersion> and ending with an XML label </DOISerialArticleVersion>.
Reference name <DOISerialArticleVersion>

MSC.1 Notification or update type code

An ONIX code which indicates the type of notification or update which is being sent. Mandatory and non-repeating.
Format Fixed-length, two numeric digits.
Code list 06 New: a new registration request
07 Update: a complete replacement for a record previously sent
Reference name <NotificationType>
Example 06

MSC.2 DOI

Format Variable-length text, suggested maximum length 300 characters.
Reference name <DOI>
Example 10.1006/jmbi.1998.2354

MSC.3 DOI website link

The URL for the primary website to which the DOI will resolve. Mandatory and non-repeating.
Format Variable-length text, suggested maximum length 300 characters
Reference name <DOIWebsiteLink>
Example http://xyzjournals.com/0123456789.htm
Website composite

An optional and repeatable group of data elements which together identify and provide pointers to other webpages associated with the DOI to which the metadata package refers. It is envisaged that the composite will be used to give the URLs associated with particular service types for multiple resolution.

Reference name: <Website>

MSC.4 Website purpose

An ONIX code which identifies the role or purpose of the website which is linked through the <WebsiteLink> element. Mandatory and non-repeating.

Format: Fixed-length, two numeric digits
Code list: Code values to be defined to cover multiple resolution for different service types
Reference name: <WebsiteRole>
Example

MSC.5 Link to website

The URL for the website. Mandatory in each occurrence of the <Website> composite, and non-repeating.

Format: Variable-length text, suggested maximum length 300 characters
Reference name: <WebsiteLink>
Example: http://xyzjournals.com/0123456789/service3.htm

End of website composite

MSC.6 DOI structural type

An IDF value identifying the structural type of the entity to which the DOI in this metadata package is registered. Optional and non-repeating. This element is specified to be optional as it will not necessarily be required in metadata submitted for registration. Instead, it may be generated by the DOI registration agency by mapping from other content.

Format: Variable-length character string values defined by IDF
Code list: The only permitted value for DOI registrations for serial articles-as-works is Abstraction
The permitted values for DOI registrations for serial articles-as-manifestations are PhysicalFixation, DigitalFixation
Reference name: <DOIstructuralsType>
Example: Abstraction
### MSC.7 DOI mode

An IDF value identifying the mode of the entity to which the DOI in this metadata package is registered. Optional and non-repeating. This element is specified to be optional as it will not necessarily be required in metadata submitted for registration. Instead, it may be generated by the DOI registration agency by mapping from other content.

**Format**
Variable-length character string values defined by IDF

**Code list**
The only permitted value for DOI registrations for serial articles-as-works is **Abstract**
The permitted values for DOI registrations for serial articles-as-manifestations are **Visual, Audio, Audiovisual**

**Reference name**
<DOIMode>

**Example**
Visual

### MSC.8 DOI registrant name

The name of the person or corporate body responsible for registering the DOI to which this ONIX metadata package refers. Mandatory and non-repeating.

**Format**
Variable-length text, suggested maximum length 100 characters

**Reference name**
<RegistrantName>

**Example**
Mondadori

### MSC.9 DOI registration authority

An IDF value identifying the registration agency with which the DOI in this ONIX metadata package is registered. Optional and non-repeating. This element is specified to be optional as it will NOT be required in metadata submitted by publishers for registration.

**Format**
Variable-length character string values defined by IDF

**Code list**
Values so far defined are: **mEDRA, NielsenBookData, OPOCE**

**Reference name**
<RegistrationAuthority>

**Example**
mEDRA
NOTE: the <WorkIdentifier> and <ProductIdentifier> composites specified on this and the following page are to be used for additional identifiers by which the serial article which is being registered for DOI assignment is known. They are included for consistency with other ONIX DOI formats, though it is probably less likely that a serial article will carry other formal identifiers.

**Work identifier composite**

A group of data elements which together define the identifier of a work in accordance with a specified scheme, and used here for any additional identifiers for a serial article-as-work. In ONIX DOI registrations for serial articles-as-works, one occurrence might carry the ISTC assigned to the work, if known. Optional and repeatable if the work has more than one identifier of different types. Not used in a record for a serial article-as-manifestation.

Reference name: <WorkIdentifier>

**MSC.10 Work identifier type code**

An ONIX code identifying the scheme from which the identifier in the <IDValue> element is taken. Mandatory in each occurrence of the <WorkIdentifier> composite, and non-repeating.

| Format | Fixed-length, 2 numeric digits |
| Code list | 01 Proprietary, eg a publisher’s internal work identifier |
|          | 11 ISTC |

Reference name: <WorkIDType>

Example: 11

**MSC.11 Identifier value**

An identifier of the type specified in the <WorkIDType> element. Mandatory in each occurrence of the <WorkIdentifier> composite, and non-repeating.

| Format | According to the identifier type specified in <WorkIDType> |
| Reference name | <IDValue> |
| Example | 12345678 |

**End of work identifier composite**

Page 7 of 34
See note on previous page.

**Product identifier composite**

A repeatable group of data elements which together define the identifier of a product in accordance with a specified scheme, and used here for any additional identifiers for a serial article-as-manifestation. In ONIX DOI registrations for serial articles-as-manifestations, one occurrence could carry a publisher’s proprietary identifier, for example. Optional and repeatable if the work has more than one identifier of different types. Not used in a record for a serial article-as-work.

Reference name  
\(<\text{ProductIdentifier}>\)

**MSC.12 Product identifier type code**

An ONIX code identifying the scheme from which the identifier in the \(<\text{IDValue}>\) element is taken. Mandatory in each occurrence of the \(<\text{ProductIdentifier}>\) composite, and non-repeating.

Format  
Fixed-length, 2 numeric digits

Code list  
01 Proprietary, eg a publisher’s product number
10 SICI (for journal article)

Reference name  
\(<\text{ProductIDType}>\)

Example  
02

**MSC.13 Identifier value**

An identifier of the type specified in the \(<\text{ProductIDType}>\) element. Mandatory in each occurrence of the \(<\text{ProductIdentifier}>\) composite, and non-repeating.

Format  
According to the identifier type specified in \(<\text{ProductIDType}>\)

Reference name  
\(<\text{IDValue}>\)

Example  
12345678

**End of product identifier composite**
Serial publication composite

A group of data elements which together identify and describe a serial publication at either or both of “serial work” and “serial version” (or “manifestation”) levels. Mandatory and non-repeating. The structure of the composite requires that the title and publisher of the serial are given at “work” level. An identifier is optional at the “work” level.

Reference name  <SerialPublication>

Serial work composite

A group of data elements which together identify and describe a serial work. Mandatory and non-repeating.

Reference name  <SerialWork>

Work identifier composite

A repeatable group of data elements which together define an identifier of a serial work. Optional: to be sent only if the serial has an established identifier at “work” level. (ISSNs are correctly assigned at “serial version” level, with a separate ISSN for print and electronic versions.) Repeatable only if two or more identifiers of different types are sent.

Reference name  <WorkIdentifier>

MSC.14 Work identifier type code

An ONIX code identifying the scheme from which the identifier in <IDValue> is taken. Mandatory in each occurrence of the <WorkIdentifier> composite, and non-repeating.

Format  Fixed-length, 2 numeric digits
Code list  01  Proprietary, a publisher’s or agent’s internal number
  06  DOI
  08  CODEN
Reference name  <WorkIDType>
Example  01  Proprietary

MSC.15 Identifier value

An identifier of the type specified in <WorkIDType>. Mandatory in each occurrence of the <WorkIdentifier> composite, and non-repeating.

Format  According to the identifier type specified in <WorkIDType>
Reference name  <IDValue>
Example  12345678

End of work identifier composite
Title composite

A group of data elements which together give the text of a title, including a subtitle where applicable, and specify its type; used here for the title of a serial work. Mandatory in each occurrence of the <SerialPublication> composite. Repeatable if two or more forms of the same title are sent.
The <Title> tag may optionally carry any of the following ONIX attributes: textformat, language, transliteration, textcase, where these are shared by all text elements within the composite.
Reference name <Title>

MSC.16 Title type code

An ONIX code indicating the type of a title. Mandatory in each occurrence of the <Title> composite, and non-repeating. Additional types of title can be defined by adding code values.
Format Fixed-length, two numeric digits
Code list
01 Distinctive title: use for the cover title in full
05 Abbreviated or truncated title
Reference name <TitleType>
Example 01

MSC.17 Title text

The text of the title specified by the <TitleType> code. Mandatory in each occurrence of the <Title> composite, and non-repeating.
Format Variable-length text, suggested maximum 600 characters
Reference name <TitleText>
Example Journal of Irreproducible Results

MSC.18 Subtitle

The full text of a subtitle, if any. “Subtitle” means any added words which appear with the title given in an occurrence of the <Title> composite, and which amplify and explain the title, but which are not considered to be part of the title itself. Optional and non-repeating.
Format Variable-length text, suggested maximum 300 characters
Reference name <Subtitle>
Example ?????????????

End of title composite

MSC.19 Imprint or brand name

The full name of the imprint or brand under which the serial work is issued, as it appears on the title page or in a corresponding position on a non-print item. Optional and non-repeating.
Format Variable length text, suggested maximum length 100 characters.
Reference name <ImprintName>
Example Secker & Warburg
**Publisher composite**

A group of data elements which together identify an entity which is associated with the publishing of a serial work. Optional and repeatable. Each occurrence of the composite should carry a publishing role code and a publisher name.

Reference name: `<Publisher>`

---

**MSC.20 Publishing role code**

An ONIX code which identifies a role played by an entity in the publishing of a serial work. Mandatory in each occurrence of the `<Publisher>` composite, and non-repeating.

- **Format**: Fixed-length, two numeric digits.
- **Code list**:
  - 01 Publisher
  - 02 Co-publisher
- **Reference name**: `<PublishingRole>`
- **Example**: 02

---

**MSC.21 Publisher name**

The name of an entity associated with the publishing of a serial work. Mandatory in each occurrence of the `<Publisher>` composite, and non-repeating.

- **Format**: Variable length text, suggested maximum length 100 characters.
- **Reference name**: `<PublisherName>`
- **Example**: Reed International Books

---

**End of publisher composite**

---

**MSC.22 Country of publication**

A code identifying the country where the serial work is published. Mandatory and non-repeating.

- **Format**: Fixed-length, two upper-case letters. Note that ISO 3166 specifies that these codes should always be in upper-case.
- **Code list**: Onix List 91 (ISO 3166-1 two-letter codes) : see separate documentation
- **Reference name**: `<CountryOfPublication>`
- **Example**: US

---

**End of serial work composite**
Serial version composite

A group of data elements which together identify and specify the form of a version or “manifestation” of a serial publication. Each occurrence of the composite must consist of either one or more identifiers for the serial version and a product form code or a product form code alone, if there is no unique identifier available for the specified version.

Optional and repeatable in records describing a serial article-as-work, if the serial publication is available in two or more versions.

Mandatory and non-repeating in records describing a serial article-as-manifestation: only the form to which the DOI registration applies should be cited. A cross-reference to any other form(s) can be sent in the `<RelatedProduct>` composite.

Reference name `<SerialVersion>`

Product identifier composite

A repeatable group of data elements which together define an identifier of a version of a serial publication. Optional: to be sent if the serial has one or more established identifiers at “serial version” level. (ISSNs are correctly assigned at “serial version” level, with a separate ISSN for print and electronic versions.)

Reference name `<ProductIdentifier>`

MSC.23 Product identifier type code

An ONIX code identifying the scheme from which the identifier in `<IDValue>` is taken. Mandatory in each occurrence of the `<ProductIdentifier>` composite, and non-repeating.

Format Fixed-length, 2 numeric digits

Code list

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Proprietary, a publisher’s or agent’s internal number</td>
</tr>
<tr>
<td>06</td>
<td>DOI</td>
</tr>
<tr>
<td>07</td>
<td>ISSN (sent unhyphenated in ONIX records)</td>
</tr>
</tbody>
</table>

Reference name `<ProductIDType>`

Example `01` Proprietary

MSC.24 Identifier value

An identifier of the type specified in `<ProductIDType>`. Mandatory in each occurrence of the `<ProductIdentifier>` composite, and non-repeating.

Format According to the identifier type specified in `<ProductIDType>`

Reference name `<IDValue>`

Example `12345678`

End of product identifier composite
### MSC.25 Product form code

An ONIX code which indicates the medium and/or format in which a serial item is published. Mandatory in each occurrence of the `<SerialVersion>` composite, and non-repeating.

- **Format**: Fixed-length, two letters.
- **Code list**: Selected codes only from ONIX Product Form code list:
  - JB  Printed journal
  - JC  CD-ROM journal
  - JD  Electronic journal, online
- **Reference name**: `<ProductForm>`
- **Example**: JB

### MSC.26 Epublication format code

An ONIX code identifying the file format of an epublication. Optional and non-repeating, and can occur only if the `<ProductForm>` code is JD.

- **Format**: Fixed-length, 2 numeric digits
- **Code list**: ONIX List 11: see separate documentation
- **Reference name**: `<EpubFormat>`
- **Example**: 02

### MSC.27 Epublication format version number

A version number which applies to an epublication format. Optional and non-repeating, and can occur only if the `<EpubFormat>` field is present.

- **Format**: Variable-length text, suggested maximum 10 characters
- **Reference name**: `<EpubFormatVersion>`
- **Example**: 2.1

### MSC.28 Epublication format description

A free text description of an epublication format. Optional and non-repeating, and can occur only if the `<ProductForm>` code is JD; but does not require the `<EpubFormat>` field to be present.

- **Format**: Variable-length text, suggested maximum 200 characters
- **Reference name**: `<EpubFormatDescription>`
- **Example**: Screen optimized PDF, with low-res figures
Example of the use of the <SerialPublication> composite

This example shows a serial called “New Title” which is published in print and online versions, each of which has its own ISSN. The example is constructed as if it was part of a <SerialArticleWork> record, ie it describes both versions within the <SerialPublication> composite.

```xml
<SerialPublication>
  <SerialWork>
    <Title language="eng">New Title</Title>
    <Publisher>
      <PublisherName>Newpublisher</PublisherName>
    </Publisher>
    <SerialVersion>
      <ProductIdentifier>
        <ProductIDType>07</ProductIDType>
        <IDValue>12345678</IDValue>
      </ProductIdentifier>
      <ProductForm>JB</ProductForm>
    </SerialVersion>
    <SerialVersion>
      <ProductIdentifier>
        <ProductIDType>07</ProductIDType>
        <IDValue>87654321</IDValue>
      </ProductIdentifier>
      <ProductForm>JD</ProductForm>
    </SerialVersion>
  </SerialWork>
</SerialPublication>
```
Journal issue composite

A repeatable group of data elements which together identify a serial issue. Each occurrence of the composite must have at least an issue number in the `<JournalIssueNumber>` element, or an “other designation” in `<JournalIssueDesignation>`, or an issue date in `<IssueDate>`; or any combination of these.

Reference name `<JournalIssue>`

MSC.29 Volume number

The number given by the publisher to the volume of a serial of which the issue is part. Optional and non-repeating: the field is omitted if the serial does not have numbered volumes. If volumes are numbered in roman numerals, the number must be converted to arabic digits.

Format Variable-length integer, suggested maximum length 6 digits
Reference name `<JournalVolumeNumber>`
Example 53

MSC.30 Issue number

The number given by the publisher to the issue described in an occurrence of the `<JournalIssue>` composite. This field is omitted if the serial does not have numbered issues, in which case the `<JournalIssueDesignation>` element and/or `<IssueDate>` must be present. If issues are numbered in roman numerals, the number must be converted to arabic digits.

Format Variable-length integer, suggested maximum length 6 digits
Reference name `<JournalIssueNumber>`
Example 7

MSC.31 Other designation of volume and/or issue

Where an issue cannot be specified by enumeration of volume and/or issue, an “other designation” may be entered here as free text.

Format Text, suggested maximum length 100 characters
Reference name `<JournalIssueDesignation>`
Example `Index for Vols 20-25`
Journal issue date composite

A group of data elements which together specify a journal issue date. Required unless not known at the time of DOI registration.

Reference name <JournalIssueDate>

MSC.32 Date format

An ONIX code indicating the format in which the date is given in <Date>. Mandatory in each occurrence of the <JournalIssueDate> composite, and non-repeating.

Format Fixed-length, two numeric digits

Code list
00 YYYYMMDD Year month day (default)
01 YYYYMM Year month
02 YYYYWW Year and week number
03 YYYYQ Year and quarter (Q = 1, 2, 3, 4)
04 YYYYYS Year and season (S = 1, 2, 3, 4 with 1 = “Spring”) 
05 YYYY Year
06 YYYYMMDDYYYYMMDD Spread of exact dates
07 YYYYMMYYYYMM Spread of months
08 YYYYWWYYYYWW Spread of week numbers
09 YYYYQYYYYQ Spread of quarters
10 YYYYYSYYYYY Spread of seasons
11 YYYYYYYY Spread of years
12 Text string For approximate or uncertain dates

Reference name <DateFormat>

Example 01

MSC.33 Date

The issue date in the format specified in the <DateFormat> element. Mandatory in each occurrence of the <JournalIssueDate> composite, and non-repeating.

Format As specified by the value in <DateFormat>: default YYYYMMDD

Reference name <Date>

Example 200101

End of journal issue date composite

End of journal issue composite
**Content item composite**

A group of data elements which together describe a content item, used here for a serial article. One and only one occurrence is mandatory in each ONIX DOI Serial Article record.

Reference name  
<ContentItem>

---

**MSC.34 Content item sequence number**

A number which specifies the position of a content item in the table of contents for a journal issue. Optional and non-repeating.

Format  
Variable-length integer, 1, 2, 3 etc, suggested maximum length 3 digits

Reference name  
<SequenceNumber>

Example  
3

---

**Text item composite**

A group of data elements which are specific to text content. Optional and non-repeating.

Reference name  
<TextItem>

---

**MSC.35 Text item type code**

An ONIX code which identifies the nature of a text item. Optional, and non-repeating.

Format  
Fixed length, 2 numeric digits

Code list  
10 Serial item, miscellaneous or unspecified
11 Research article
12 Review article
13 Letter
14 Short communication
15 Erratum
16 Abstract
17 Book review (or review of other publication)
18 Editorial
19 Product review
20 Index
21 Obituary

Reference name  
<TextItemType>

Example  
11 Research article
NOTE: while pagination might be regarded as strictly an attribute of a serial article-as-manifestation, both the `<PageRun>` composite and the `<NumberOfPages>` element below are permitted also in an ONIX DOI message for a serial article-as-work. This is partly for consistency with other DOI Registration Agencies who, in registering DOIs for serial articles-as-works, have made a practice of recording pagination; and partly because pagination is frequently the same for both paper and electronic manifestations of a journal article.

**Page run composite**

A repeatable group of data elements which together define a run of contiguous pages on which a text item appears. Optional, and repeatable where the text item covers two or more separate page runs.

Reference name    `<PageRun>`

**MSC.36 First page number**

The number of the first page of a sequence of contiguous pages. Mandatory in each occurrence of the `<PageRun>` composite, and non-repeating. Note that here and in the `<LastPageNumber>` element a page “number” may be arabic, roman, or an alphanumeric string (eg L123).

Format    Variable-length alphanumeric, suggested maximum length 20 characters

Reference name    `<FirstPageNumber>`

Example    23

**MSC.37 Last page number**

The number of the last page of a sequence of contiguous pages (ignoring any blank verso which is left after the last text page). This element is omitted if an item begins and ends on the same page; otherwise it should occur once and only once in each occurrence of the `<PageRun>` composite.

Format    Variable-length alphanumeric, suggested maximum length 20 characters

Reference name    `<LastPageNumber>`

Example    35

**End of page run composite**

**MSC.38 Number of pages**

The page extent of a text item within a paginated product. Optional and non-repeating. See note at head of page.

Format    Variable length integer, suggested maximum length 6 digits.

Reference name    `<NumberOfPages>`

Example    26

**End of text item composite**
## Extent composite

A repeatable group of data elements which together describe an extent pertaining to a journal article. The composite can occur only in records describing a serial article-as-manifestation.

**Reference name**: `<Extent>`

### MSC.39 Extent type code

An ONIX code which identifies the type of extent carried in the composite, e.g. the file size of the electronic manifestation of a serial article. Mandatory in each occurrence of the `<Extent>` composite, and non-repeating.

- **Format**: Fixed-length, two numeric digits.
- **Code list**: ONIX List 23: see separate documentation
- **Reference name**: `<ExtentType>`
- **Example**: 22 Filesize

### MSC.40 Extent value

The numeric value of the extent specified in `<ExtentType>`. Mandatory in each occurrence of the `<Extent>` composite, and non-repeating.

- **Format**: Numeric, with decimal point where required, as specified in field PR.12.4
- **Reference name**: `<ExtentValue>`
- **Example**: 2.5

### MSC.41 Extent unit

An ONIX code indicating the unit used for the `<ExtentValue>` and the format in which the value is presented. Mandatory in each occurrence of the `<Extent>` composite, and non-repeating.

- **Format**: Fixed-length, two numeric digits
- **Code list**: ONIX List 24: see separate documentation
- **Reference name**: `<ExtentUnit>`
- **Example**: 19 Megabytes

---

**End of extent composite**
Title composite

A group of data elements which together give the text of a title, including a subtitle where applicable, and specify its type. One occurrence is mandatory in any occurrence of the <ContentItem> composite. The <Title> tag may optionally carry any of the following ONIX attributes: textformat, language, transliteration, textcase, where these are shared by all text elements within the composite.

Reference name <Title>

MSC.42 Title type code

An ONIX code indicating the type of a title. Mandatory in each occurrence of the <Title> composite, and non-repeating. Additional types of title can be defined by adding code values.

Format Fixed-length, two numeric digits
Code list 01 Distinctive title, in full
  05 Abbreviated or truncated title
Reference name <TitleType>
Example 01

MSC.43 Title text

The text of the title specified by the <TitleType> code. Mandatory in each occurrence of the <Title> composite, and non-repeating.

Format Variable-length text, suggested maximum 600 characters
Reference name <TitleText>
Example Getting to grips with the EU Copyright Directive

MSC.44 Subtitle

The full text of a subtitle, if any. “Subtitle” means any added words which appear with the title given in an occurrence of the <Title> composite, and which amplify and explain the title, but which are not considered to be part of the title itself. Optional and non-repeating.

Format Variable-length text, suggested maximum 300 characters
Reference name <Subtitle>
Example A lawyer’s view

End of title composite
**Contributor composite**

A repeatable group of data elements which together describe a personal or corporate contributor to the product. Each instance of the `<Contributor>` composite must carry a personal name (in one or both of the two forms supported in MSC.47 and MSC.48) or a corporate name, or an `<UnnamedPersons>` element (MSC.50), but combinations of these elements are not permitted.

Reference name  `<Contributor>`

**MSC.45 Contributor sequence number**

A number which specifies a single overall sequence of contributor names. Optional and non-repeating.

| Format | Variable-length integer, 1, 2, 3 etc, suggested maximum length 3 digits |
| Reference name | `<SequenceNumber>` |
| Example | 3 |

**MSC.46 Contributor role**

An ONIX code indicating the role played by a person or corporate body in the creation of the product. Mandatory in each occurrence of a `<Contributor>` composite, and may be repeated if the same person or corporate body has more than one role in relation to the product.

| Format | Fixed-length, one letter and two numeric digits |
| Code list | ONIX List 17: see separate documentation |
| Reference name | `<ContributorRole>` |
| Example | `A01` |

**MSC.47 Person name**

The name of a person who contributed to the creation of the product, unstructured, and presented in normal order. Optional and non-repeating: see introductory text for the `<Contributor>` composite above for valid options.

| Format | Variable-length text, suggested maximum length 100 characters |
| Reference name | `<PersonName>` |
| Example | `James J. Johnson III` |

**MSC.48 Person name, inverted**

The name of a person who contributed to the creation of the product, presented in inverted order, with the element used for alphabetical sorting placed first. Optional and non-repeating: see introductory text for the `<Contributor>` composite above for valid options.

| Format | Variable-length text, suggested maximum length 100 characters |
| Reference name | `<PersonNameInverted>` |
| Example | `Johnson, James J., III` |
MSC.49  Corporate contributor name

The name of a corporate body that contributed to the creation of the product, unstructured. Optional and non-repeating: see introductory text for the `<Contributor>` composite above for valid options.

Format: Variable-length text, suggested maximum length 200 characters

Reference name: `<CorporateName>`

Example: `Good Housekeeping Institute`

---

MSC.50  Unnamed person(s)

An ONIX code allowing a positive indication to be given when authorship is unknown or anonymous, or when as a matter of editorial policy only a limited number of contributors are named. Optional and non-repeating: see introductory text for the `<Contributor>` composite above for valid options.

Format: Fixed-length, two numeric digits

<table>
<thead>
<tr>
<th>Code list</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Unknown</td>
</tr>
<tr>
<td>02</td>
<td>Anonymous</td>
</tr>
<tr>
<td>03</td>
<td>et al (“and others”, when additional contributors are not listed)</td>
</tr>
<tr>
<td>04</td>
<td>Various authors (when the product combines a number of titles by different authors)</td>
</tr>
</tbody>
</table>

Reference name: `<UnnamedPersons>`

Example: `02 Anonymous`

---

End of contributor composite
Language composite

A group of data elements which together represent a language, and specify its role, used here to represent the language of a serial article. Optional and repeatable.
Reference name  <Language>

MSC.51 Language role

An ONIX code indicating the “role” of a language in the context of the ONIX record. Mandatory in each occurrence of the <Language> composite, and non-repeating.
Format  Fixed-length, two numeric digits
Code list  ONIX List 22: see separate documentation
Reference name  <LanguageRole>
Example  01

MSC.52 Language code

An ISO code indicating a language. Mandatory in each occurrence of the <Language> composite, and non-repeating.
Format  Fixed-length, three lower-case letters. Note that ISO 639 specifies that these codes should always be in lower-case.
Code list  ONIX List 74 (ISO 639-2/B three-letter codes): see separate documentation
Reference name  <LanguageCode>
Example  eng

End of language composite
Main subject composite

An optional and repeatable group of data elements which together describe a main subject classification or subject heading which is taken from a recognized scheme.

Reference name  &lt;MainSubject&gt;

---

MSC.53 Main subject scheme identifier

An ONIX code which identifies a subject scheme which is designated for use in a &lt;MainSubject&gt; composite. Mandatory in each occurrence of the composite, and non-repeating.

When the scheme in the code list is annotated “Code”, use the associated &lt;SubjectCode&gt; element to carry the value (if so required, the &lt;SubjectHeadingText&gt; element can be used simultaneously to carry the text equivalent of the code). When the scheme is annotated “Text”, use the &lt;SubjectHeadingText&gt; element to carry the text of the subject heading.

<table>
<thead>
<tr>
<th>Format</th>
<th>Fixed-length, two numeric digits.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code list</td>
<td>ONIX List 26: see separate documentation</td>
</tr>
<tr>
<td>Reference name</td>
<td>&lt;MainSubjectSchemeIdentifier&gt;</td>
</tr>
<tr>
<td>Example</td>
<td>25</td>
</tr>
</tbody>
</table>

---

MSC.54 Subject scheme version number

A number which identifies a version or edition of the subject scheme specified in the associated &lt;MainSubjectSchemeIdentifier&gt; element. Optional and non-repeating.

<table>
<thead>
<tr>
<th>Format</th>
<th>Free form. Suggested maximum length 10 characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference name</td>
<td>&lt;SubjectSchemeVersion&gt;</td>
</tr>
<tr>
<td>Example</td>
<td>2.1</td>
</tr>
</tbody>
</table>

---

MSC.55 Subject code

A subject class or category code from the scheme specified in the &lt;MainSubjectSchemeIdentifier&gt; element. Either &lt;SubjectCode&gt; or &lt;SubjectHeadingText&gt; or both must be present in each occurrence of the &lt;MainSubject&gt; composite. Non-repeating.

<table>
<thead>
<tr>
<th>Format</th>
<th>Variable-length, alphanumeric, suggested maximum length 20 characters.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code list</td>
<td>The scheme specified in &lt;MainSubjectSchemeIdentifier&gt;</td>
</tr>
<tr>
<td>Reference name</td>
<td>&lt;SubjectCode&gt;</td>
</tr>
<tr>
<td>Example</td>
<td>623.95</td>
</tr>
</tbody>
</table>

---

MSC.56 Subject heading text

The text of a heading taken from the scheme specified in the &lt;MainSubjectSchemeIdentifier&gt; element; or the text equivalent to the &lt;SubjectCode&gt; value, if both code and text are sent. Either &lt;SubjectCode&gt; or &lt;SubjectHeadingText&gt; or both must be present in each occurrence of the &lt;MainSubject&gt; composite. Non-repeating.

<table>
<thead>
<tr>
<th>Format</th>
<th>Variable-length text, suggested maximum length 100 characters.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference name</td>
<td>&lt;SubjectHeadingText&gt;</td>
</tr>
<tr>
<td>Example</td>
<td>Labor and industrial relations</td>
</tr>
</tbody>
</table>

---

End of main subject composite
## Additional subject composite

An optional and repeatable group of data elements which together describe a subject classification or subject heading which is additional to the BISAC, BIC or other main subject category.

### MSC.57  Subject scheme identifier

An ONIX code which identifies the subject scheme which is used in an occurrence of the `<Subject>` composite. Mandatory in each occurrence of the composite, and non-repeating.

When the scheme in the code list is annotated “Code”, use the associated `<SubjectCode>` element to carry the value (if so required, the `<SubjectHeadingText>` element can be used simultaneously to carry the text equivalent of the code). When the scheme is annotated “Text”, use the `<SubjectHeadingText>` element to carry the text of the subject heading.

- **Format**: Fixed-length, two numeric digits.
- **Code list**: ONIX List 27: see separate documentation
- **Reference name**: `<SubjectSchemeIdentifier>`
- **Example**: 03

### MSC.58  Proprietary subject scheme name

A name identifying a proprietary subject scheme when `<SubjectSchemeIdentifier>` is coded “24”. Optional and non-repeating.

- **Format**: Variable-length text, suggested maximum length 100 characters.
- **Reference name**: `<SubjectSchemeName>`
- **Example**: 21

### MSC.59  Subject scheme version number

A number which identifies a version or edition of the subject scheme specified in the associated `<SubjectSchemeIdentifier>` element. Optional and non-repeating.

- **Format**: Free form, suggested maximum length 10 characters
- **Reference name**: `<SubjectSchemeVersion>`
- **Example**: 21

### MSC.60  Subject code

A subject class or category code from the scheme specified in the `<SubjectSchemeIdentifier>` element. Either `<SubjectCode>` or `<SubjectHeadingText>` or both must be present in each occurrence of the `<Subject>` composite. Non-repeating.

- **Format**: Variable-length, alphanumeric, suggested maximum length 20 characters.
- **Code list**: The scheme specified in the associated `<SubjectSchemeIdentifier>` element.
- **Reference name**: `<SubjectCode>`
- **Example**: 623.95
MSC.61 Subject heading text
The text of a subject heading taken from the scheme specified in the <SubjectSchemeIdentifier> element, or of free language keywords if the scheme is specified as "keywords"; or the text equivalent to the <SubjectCode> value, if both code and text are sent. Either <SubjectCode> or <SubjectHeadingText> or both must be present in each occurrence of the <Subject> composite. Non-repeating.
Format Variable-length text, suggested maximum length 100 characters.
Reference name <SubjectHeadingText>
Example Labor and industrial relations

End of additional subject composite

MSC.62 Audience code
An ONIX code that identifies the broad audience or readership for whom a publication is intended. Optional, and repeatable if the publication is intended for two or more groups.
Format Fixed-length, two numeric digits.
Code list ONIX List 28
Reference name <AudienceCode>
Example 04
Other text composite

An optional and repeatable group of data elements that carries descriptive text related to the publication. Used here either for a short annotation or for a longer description.

Reference name   <OtherText>

MSC.63 Other text type code

An ONIX code which identifies the type of text which is sent in the <Text> element. Mandatory in each occurrence of the <OtherText> composite, and non-repeating.

Format             Fixed-length, two characters (initially allocated as 01, 02 etc)
Code list           ONIX List 33: see separate documentation
Reference name      <TextTypeCode>
Example             33

MSC.64 Other text

The text specified in the <TextTypeCode> element. In this context, mandatory in any occurrence of the <OtherText> composite, and non-repeating.

The <Text> element may carry any of the following ONIX attributes: textformat, language, transliteration, textcase.

For consistency with full ONIX messages, XHTML is enabled in this element: see ONIX for Books – Product Information Message – XML Message Specification, Section 7

Format             Variable length text
Reference name      <Text>
Example

End of other text composite

MSC.65 Publication date

In records describing a serial article-as-work, the actual date of first publication in either paper or electronic form, as opposed to the nominal date of the issue in which the article appears, which is sent in the <JournalIssue> composite.

In records describing a serial article-as-manifestation: the actual date of publication in the form to which the DOI registration applies.

In either case, optional and non-repeating.

Format             Four, six or eight numeric digits (YYYY, YYYYMM, or YYYYMMDD).
Reference name      <PublicationDate>
Example             20010315
Copyright statement composite

An optional and repeatable group of data elements which together represent a structured copyright statement for the product.

Reference name  <CopyrightStatement>

MSC.66 Copyright year

The copyright year as it appears in a copyright statement for the serial article. Mandatory in each occurrence of the <CopyrightStatement> composite, and repeatable if several years are listed.

Format          Date as year only (YYYY)
Reference name  <CopyrightYear>
Example         2003

Copyright owner composite

A repeatable group of data elements which together name a copyright owner. At least one occurrence is mandatory in each occurrence of the <CopyrightStatement> composite. Each occurrence of the <CopyrightOwner> composite must carry a single name (personal or corporate). (In a full ONIX record, an identifier may also be used.)

Reference name  <CopyrightOwner>

MSC.67 Person name

The name of a person, used here for a personal copyright holder. Non-repeating. One occurrence of either <PersonName> or <CorporateName>, but not both, must be present in each occurrence of the <CopyrightStatement>.

Format          Variable-length text, suggested maximum length 100 characters
Reference name  <PersonName>
Example         James J. Johnson III

MSC.68 Corporate name

The name of a corporate body, used here for a corporate copyright holder. Non-repeating.

Format          Variable-length text, suggested maximum length 200 characters
Reference name  <CorporateName>
Example         Johnson & Johnson Inc

End of copyright owner composite

End of copyright statement composite
**Related work composite**

A group of data elements which together identify a work which has a specified relationship to the serial article which is described in the ONIX DOI metadata package. Optional, and repeatable if the product is linked to more than one related work. The mandatory content of an occurrence of the `<RelatedWork>` composite is a `<RelationCode>` and a work identifier.

Reference name  
`<RelatedWork>`

**MSC.69 Relation code**

An ONIX code which identifies the nature of the relationship between two entities, which may be either works or manifestations of works. Mandatory in each occurrence of the `<RelatedWork>` composite, and non-repeating. In the code lists below, “X” represents the related work that is identified in an occurrence of the composite.

Reference name  
`<RelationCode>`

**Example**  
`81` Is part of
Work identifier composite

A group of data elements which together define the identifier of a work in accordance with a specified scheme, and allowing other types of work identifier for a related work to be included without defining additional data elements. One occurrence is mandatory in each instance of the `<RelatedWork>` composite. Repeatable if the work has more than one identifier of different types.

Reference name  <WorkIdentifier>

---

MSC.70  Work identifier type code

An ONIX code identifying the scheme from which the identifier in the `<IDValue>` element is taken. Mandatory in each occurrence of the `<WorkIdentifier>` composite, and non-repeating.

Format  Fixed-length, 2 numeric digits

Code list
- 01  Proprietary, eg a publisher's work identifier
- 06  DOI
- 11  ISTC

Reference name  <WorkIDType>

Example  06  DOI

---

MSC.71  Identifier value

An identifier of the type specified in the `<WorkIDType>` element. Mandatory in each occurrence of the `<WorkIdentifier>` composite, and non-repeating.

Format  According to the identifier type specified in `<WorkIDType>`

Reference name  `<IDValue>`

Example  2345678

---

End of work identifier composite

End of related work composite
Related product composite

A group of data elements which together identify a product (or “manifestation”) which has a specified relationship to the serial article which is described in the ONIX DOI metadata package. Optional, and repeatable if the product is linked to more than one related product. The minimum required content of an occurrence of the `<RelatedProduct>` composite is a `<RelationCode>` and a product identifier.

Reference name  `<RelatedProduct>`

MSC.72 Relation code

An ONIX code which identifies the nature of the relationship between two entities, which may be either works or manifestations of works. Mandatory in each occurrence of the `<RelatedProduct>` composite, and non-repeating. In the code lists below, “Y” represents the related product or manifestation that is identified in an occurrence of the composite.

<table>
<thead>
<tr>
<th>Format</th>
<th>Code list (in records describing a serial article-as-work)</th>
<th>Code list (in records describing a serial article-as-manifestation)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>80 Includes</td>
<td>80 Includes</td>
</tr>
<tr>
<td></td>
<td>81 Is part of</td>
<td>81 Is part of</td>
</tr>
<tr>
<td></td>
<td>82 Is a new version of</td>
<td>82 Is a new version of</td>
</tr>
<tr>
<td></td>
<td>83 Has a new version</td>
<td>83 Has a new version</td>
</tr>
<tr>
<td></td>
<td>85 Is a different language version of</td>
<td>85 Is a different language version of</td>
</tr>
<tr>
<td></td>
<td>86 Is a resource about</td>
<td>86 Is a resource about</td>
</tr>
<tr>
<td></td>
<td>87 Is continued by</td>
<td>87 Is continued by</td>
</tr>
<tr>
<td></td>
<td>88 Is a continuation of</td>
<td>88 Is a continuation of</td>
</tr>
<tr>
<td></td>
<td>89 Is manifested in</td>
<td>89 Is manifested in</td>
</tr>
</tbody>
</table>

Reference name `<RelationCode>`

Example 82 Is a new version of
**Product identifier composite**

A repeatable group of data elements which together define the identifier of a product in accordance with a specified scheme, and allowing other types of product identifier for a related product to be included without defining additional data elements. Mandatory in each occurrence of the `<RelatedProduct>` composite. Repeatable only if two different identifiers (e.g., DOI and ISBN) for the same related item are sent.

Reference name: `<ProductIdentifier>`

**MSC.73 Product identifier type code**

An ONIX code identifying the scheme from which the identifier in the `<IDValue>` element is taken. Mandatory in each occurrence of the `<ProductIdentifier>` composite, and non-repeating.

Format: 2 numeric digits

Code list:
- 01 Proprietary, a publisher’s product number
- 02 ISBN-10 (unhyphenated)
- 03 EAN-13
- 06 DOI
- 10 SICI
- 15 ISBN-13 (unhyphenated)

Reference name: `<ProductIDType>`

Example: 02

**MSC.74 Identifier value**

An identifier of the type specified in the `<ProductIDType>` element. Mandatory in each occurrence of the `<ProductIdentifier>` composite, and non-repeating.

Format: According to the identifier type specified in `<ProductIDType>`

Reference name: `<IDValue>`

Example: 12345678

End of product identifier composite

End of related product composite

End of content item composite

End of `<DOISerialArticleWork>` record

End of `<DOISerialArticleVersion>` record
Example of an ONIX DOI Serial Article Registration Message

This example shows only elements that might be included in a registration package sent by a publisher, i.e., it does not carry DOI-related elements that the registration agency itself might generate. The message carries a single <DOISerialArticleWork> record.

Note that a valid DOI Metadata message must include a namespace declaration on the top-level element with the following URI: http://www.editeur.org/onix/DOIMetadata/1.1. The example below shows the namespace declaration in the first line. For further technical information on the purpose and use of namespaces see the W3C Recommendation 'Namespaces in XML' (http://www.w3.org/TR/REC-xml-names/).

```xml
<ONIXDOISerialArticleWorkRegistrationMessage xmlns="http://www.editeur.org/onix/DOIMetadata/1.1">
  <Header>
    <FromCompany>??????</FromCompany>
    <FromPerson>??????????</FromPerson>
    <FromEmail>??????@??????</FromEmail>
    <ToCompany>mEDRA</ToCompany>
    <MessageNumber>123</MessageNumber>
    <MessageRepeat>1</MessageRepeat>
    <SentDate>200305281324</SentDate>
    <MessageNote>??????????????</MessageNote>
  </Header>
  <DOISerialArticleWork>
    <NotificationType>06</NotificationType>
    <DOI>10.99999/??????????????</DOI>
    <DOIWebsiteLink>http://www.??????????</DOIWebsiteLink>
    <RegistrantName>??????????</RegistrantName>
    <SerialPublication>
      <SerialWork>
        <Title language="ita">
          <TitleType>01</TitleType>
          <TitleText>??????</TitleText>
        </Title>
        <Publisher>
          <PublishingRole>01</PublishingRole>
          <PublisherName>??????????</PublisherName>
        </Publisher>
        <CountryOfPublication>IT</CountryOfPublication>
      </SerialWork>
      <SerialVersion>
        <ProductIdentifier>
          <ProductIDType>07</ProductIDType>
          <IDValue>12345678</IDValue>
        </ProductIdentifier>
        <ProductForm>JB</ProductForm>
      </SerialVersion>
      <SerialVersion>
        <ProductIdentifier>
          <ProductIDType>07</ProductIDType>
          <IDValue>87654321</IDValue>
        </ProductIdentifier>
        <ProductForm>JD</ProductForm>
      </SerialVersion>
    </SerialPublication>
</DOISerialArticleWork>
</ONIXDOISerialArticleWorkRegistrationMessage>
```