



## ONIX DOI METADATA FOR SERIAL ARTICLES

### Message specification, Version 2.0, January 2011

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 specification allows for the registration of both single resolution DOIs and multiple resolution DOIs. A new composite has been added to specify multiple pointers (URI) to the online resources associated with the DOI to which the metadata package refers.

The specification allows for the inclusion of the elements from mEDRA Citations Schema in the <cl:CitationList> in the <ContentItem> composite. The mEDRA Citation Schema is referred in the ONIX DOI format for Serial Articles by its namespace URI.

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 34 and 35 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).

## <ONIXDOI`SerialArticleWorkRegistrationMessage`>

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/2.0">` (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.

## <ONIXDOI`SerialArticleVersionRegistrationMessage`>

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/2.0">` (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.

Format Variable-length ASCII text, suggested maximum 30 characters

Reference name <ToCompany>

Example *mEDRA*

---

**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.

Format Variable-length integer,

Reference name <MessageNumber>

Example *1234*

---

**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.

Format Variable-length integer

Reference name <MessageRepeat>

Example *2*

---

**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.

Format Eight or twelve numeric digits only (YYYYMMDD or YYYYMMDDHHMM)

Reference name <SentDate>

Example *200005220230*

---

**MMH.8 Message note**

Free text giving additional information about the message. Optional and non-repeating.

Format Variable-length ASCII text, suggested maximum 500 characters

Reference name <MessageNote>

Example *New titles to be published September 2003*

---

**End of header composite**

**<DOI`SerialArticleWork`> 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>`

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**<DOI`SerialArticleVersion`> 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>`

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**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**

Digital Object Identifier. The international identifier for intellectual property in the digital environment. See <http://www.doi.org/>. Mandatory and non-repeating.

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>

---

## DOI resolution composite

A group of data elements which together identify and provide pointers (URI) to multiple online resources associated with the DOI, thus enabling the DOI Multiple Resolution service.

The composite is optional, but must be included whenever multiple URI are intended to be associated with the DOI to which the metadata package refers. Non-repeating.

Please refer to *DOI Multiple Resolution Metadata* separate documentation for details on the use of this composite (doi: 10.1392/ONIX\_DOI\_MR)

Reference name <DOIResolution>

---

## End of DOI resolution composite

## 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. **Note that for Multiple Resolution purposes the <Website> composite has been superseded by the new composite <DOIResolution>, and the code list will not be further developed. The <Website> composite is retained only for purposes of backwards compatibility, and its use is now to be deprecated**

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 <DOIStructuralType>

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 <i>Abstract</i> The permitted values for DOI registrations for serial articles-as-manifestations are <i>Visual, Audio, Audiovisual</i>
Reference name	<DOIMode>
Example	<i>Visual</i>

---

**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	<i>Mondadori</i>

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**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: <i>mEDRA, NielsenBookData, OPOCE</i>
Reference name	<RegistrationAuthority>
Example	<i>mEDRA</i>

---

**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 <b>&lt;WorkIDType&gt;</b>
Reference name	<IDValue>
Example	12345678

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### End of work identifier composite

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 <ProductIdentifier>

---

### MSC.12 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	Fixed-length, 2 numeric digits
Code list	01 Proprietary, eg a publisher's product number 10 SICI (for journal article)
Reference name	<ProductIDType>
Example	02

---

### MSC.13 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

### 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 <b>&lt;WorkIDType&gt;</b>
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	01 Proprietary, a publisher’s or agent’s internal number 06 DOI 07 ISSN (sent unhyphenated in ONIX records)
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 <b>&lt;ProductIDType&gt;</b>
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	<i>JB</i>

---

**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	<i>02</i>

---

**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	<i>2.1</i>

---

**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	<i>Screen optimized PDF, with low-res figures</i>

---

**End of serial version composite**

**End of serial publication composite**

**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.

```
<SerialPublication>
  <SerialWork>
    <Title language="eng">
      <TitleType>01</TitleType>
      <TitleText>New Title</TitleText>
    </Title>
    <Publisher>
      <PublishingRole>01</PublishingRole>
      <PublisherName>Newpublisher</PublisherName>
    </Publisher>
  </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>
```

## 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 YYYYS 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 YYYYSYYYYS 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

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### 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

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### 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, eg 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

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### 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	<i>Getting to grips with the EU Copyright Directive</i>

---

### 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	<i>A lawyer's view</i>

---

## 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 at least:

(a) one or more forms of representation of the person name

**or:**

(b) a **<CorporateName>** element

**or:**

(c) an **<UnnamedPersons>** element

But combinations of these elements are not permitted.

A new optional element **<NoContributor>** may be used to make a positive statement in an ONIX record that the item has no named authorship.

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	<i>Johnson, James J., III</i>

### Names before key name

Name(s) and/or initial(s) preceding a person's key name(s), eg James J.. 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	<NamesBeforeKey>
Example	<i>James J.</i>

### Key name(s)

Key name(s), ie the name elements normally used to open an entry in an alphabetical list, eg *Smith* or *García Marquez* or *Madonna* or *Francis de Sales* (in *Saint Francis de Sales*). 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	<KeyNames>
Example	<i>Johnson</i>

### Name Composite

A group of data elements which together represent a personal name, and specify its type. The **<Name>** composite may be used to send alternate names for the same person, eg. to handle such cases as *Ian Rankin writing as Jack Harvey*. Optional and not repeating.

Reference name	<Name>
----------------	--------

### Person name type

An ONIX code indicating the type of the person name sent in an occurrence of the **<Name>** composite. Mandatory in each occurrence of the composite, and non-repeating.

Format	Fixed-length, two numeric digits
Code list	ONIX List 18: see separate documentation
Reference name	<PersonNameType>
Example	<i>01 Pseudonym</i>

### Other elements in the name composite

Within the **<Name>** composite, all the other forms of representation of the person name may be used in exactly the same way as specified on preceding pages.

### End of name composite

**NEW- Professional affiliation composite**

A repeatable group of data elements which together identify a contributor's professional position and/or affiliation, allowing multiple positions and affiliations to be specified.

Reference name <ProfessionalAffiliation>

**NEW- Professional position**

A professional position held by a contributor to the product at the time of its creation. Optional and non-repeating.

Format Variable-length text, suggested maximum length 100 characters

Reference name <ProfessionalPosition>

Example *Humboldt Professor of Oceanograph*

**NEW- Affiliation**

An organisation to which a contributor to the product was affiliated at the time of its creation, and – if the <ProfessionalPosition> element is also present – where s/he held that position. Optional and non-repeating.

Format Variable-length text, suggested maximum length 100 characters

Reference name <Affiliation>

Example *Universidad de La Laguna*

**End of Professional affiliation composite**

**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*

**NEW - Biographical note**

A biographical note about a contributor to the product. Optional and non-repeating. May occur with a person name or with a corporate name. A biographical note in ONIX should always contain the name of the person or body concerned, and it should always be presented as a piece of continuous text consisting of full sentences. Some recipients of ONIX data feeds will not accept text which has embedded URLs.

Format Variable-length text, suggested maximum length 500 characters

Reference name <BiographicalNote>

Example *Example Umberto Eco, professor of semiotics at the University of Bologna, and author of "The Name Of The Rose"*

**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

Code list

01	Unknown
02	Anonymous
03	et al ("and others", when additional contributors are not listed)
04	Various authors (when the product combines a number of titles by different authors)

Reference name <UnnamedPersons>

Example 02 Anonymous

**End of contributor composite****No Authorship Indicator**

An empty element that provides a positive indication that a product has no stated authorship. Intended to be used in an ONIX accreditation scheme to confirm that author information is being consistently supplied in publisher ONIX feeds. Optional and non-repeating. It should only be sent in a record that has no other occurrence of the **<Contributor>** composite.

Format XML empty element

Reference name <NoContributor/>

Example <NoContributor/>

## 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 <MainSubject>

---

### MSC.53 Main subject scheme identifier

An ONIX code which identifies a subject scheme which is designated for use in a <MainSubject> 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 26: see separate documentation  
 Reference name <MainSubjectSchemeIdentifier>  
 Example 25

---

### MSC.54 Subject scheme version number

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

Format Free form. Suggested maximum length 10 characters  
 Reference name <SubjectSchemeVersion>  
 Example 2.1

---

### MSC.55 Subject code

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

Format Variable-length, alphanumeric, suggested maximum length 20 characters.  
 Code list The scheme specified in <MainSubjectSchemeIdentifier>  
 Reference name <SubjectCode>  
 Example 623.95

---

### MSC.56 Subject heading text

The text of a heading taken from the scheme specified in the <MainSubjectSchemeIdentifier> element; 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 <MainSubject> composite. Non-repeating.

Format Variable-length text, suggested maximum length 100 characters.  
 Reference name <SubjectHeadingText>  
 Example *Labor and industrial relations*

---

## 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.

Reference name <Subject>

---

### 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	<i>Labor and industrial relations</i>

---

**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	<i>04</i>

---

## 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.

Format	Fixed length, two numeric digits		
Code list (in records describing a serial article-as-work)	80	Includes	
	81	Is part of	
	82	Is a new version of	Is a new version of X, with different content
	83	Has a new version	Has a new version X, with different content
	85	Is a different language version of	
	86	Is a resource about	
	87	Is continued by	
	88	Is a continuation of	
Code list (in records describing a serial article-as-manifestation)	80	Includes	Includes a manifestation of X
	81	Is part of	Is a manifestation of part of X
	82	Is a new version of	Is a manifestation of a new version of X, with different content
	83	Has a new version	Is a manifestation of a work that has a new version X, with different content
	85	Is a different language version of	Is a manifestation of a work that is a different language version of X
	86	Is a resource about	Is a manifestation of a work that is a resource about X
	87	Is continued by	Is a manifestation of a work that is continued by X
	88	Is a continuation of	Is a manifestation of a work that is a continuation of X
	90	Is a manifestation of	
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 <b>&lt;WorkIDType&gt;</b>	
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.

Format	Fixed length, two numeric digits		
Code list (in records describing a serial article-as-work)	80	Includes	Includes the work manifested in Y
	81	Is part of	Is part of the work manifested in Y
	82	Is a new version of	Is a new version of the work manifested in Y, with different content
	83	Has a new version	Has a new version manifested in Y, with different content
	85	Is a different language version of	Is a different language version of the work manifested in Y
	86	Is a resource about	Is a resource about the work manifested in Y
	87	Is continued by	Is continued by the work manifested in Y
	88	Is a continuation of	Is a continuation of the work manifested in Y
	89	Is manifested in	
Code list (in records describing a serial article-as-manifestation)	80	Includes	
	81	Is part of	
	82	Is a new version of	Is a manifestation of a new version of the work manifested in Y, with different content
	83	Has a new version	Is a manifestation of a work that has a new version manifested in Y, with different content
	84	Is a different form of	
	85	Is a different language version of	Is a manifestation of a work that is a different language version of the work manifested in Y
	86	Is a resource about	Is a manifestation of a work that is a resource about the work manifested in Y
	87	Is continued by	
88	Is a continuation of		
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 (eg 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	Fixed-length, 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

### NEW – cl:CitationList

Allows for the inclusion of the elements from the mEDRA Citations Schema in the namespace xmlns:cl="http://www.medra.org/DOIMetadata/2.0/Citations". Optional and not repeating

Please refer to mEDRA separate documentation for details on the use of this composite

Reference name <cl:CitationList>

## End of content item composite

## End of <DOI Serial Article Work> record

## End of <DOI Serial Article Version> 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, ie 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/2.0>. 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/>).

```
<ONIXDOISerialArticleWorkRegistrationMessage xmlns="http://www.editeur.org/onix/DOIMetad
ata/2.0">
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    <FromPerson>??????????</FromPerson>
    <FromEmail>?????@?????</FromEmail>
    <ToCompany>mEDRA</ToCompany>
    <MessageNumber>123</MessageNumber>
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