

# ONIX beyond XML

**Graham Bell**

**Executive director, EDItEUR**

**BIC New Trends in Publishing  
London, 8th September 2014**

**Title: The fire engine that  
disappeared**

**Title: The man on the  
balcony**, b 1935  
533-1

**Title: Roseanna**, b 1935 7  
**Author: Maj Sjöwall, b 1935** 293-1  
**ISBN: 978-0-00-723283-3**  
**Pub date: 07-08-2006**

```
<Contributor>
  <SequenceNumber>1</SequenceNumber>
  <ContributorRole>Ao1</ContributorRole>
  <NameIdentifier>
    <NameIDType>16</NameIDType>
    <IDValue>0000000121479135</IDValue>
  </NameIdentifier>
  <PersonName>Maj Sjöwall</PersonName>
  <ContributorDate>
    <ContributorDateRole>50</ContributorDateRole>
    <Date dateformat="o5">1935</Date>
  </ContributorDate>
</Contributor>
```

100 1 \$a Sjöwall, Maj \$d 1935- \$4 aut  
\$o (isni)000000121479135

# A Crosswalk from ONIX Version 3.0 for Books to MARC 21

Carol Jean Godby

Senior Research Scientist  
OCLC Research



A publication of OCLC Research

- i. metadata delivered in bulk, separate from the content or resource itself**
- ii. metadata delivered on demand to applications that provide services**
- iii. metadata embedded within the content or resource it describes**
- iv. metadata embedded within web pages describing the content or resource**

```
<Contributor>
  <SequenceNumber>1</SequenceNumber>
  <ContributorRole>A01</ContributorRole>
  <NameIdentifier>
    <NameIDType>16</NameIDType>
    <IDValue>0000000121479135</IDValue>
  </NameIdentifier>
  <PersonName>Maj Sjöwall</PersonName>
  <ContributorDate>
    <ContributorDateRole>50</ContributorDateRole>
    <Date dateformat="o5">1935</Date>
  </ContributorDate>
</Contributor>
```

```
"Contributor": [
  {
    "SequenceNumber": 1,
    "ContributorRole": [ "A01" ],
    "NameIdentifier ": [
      {
        "NameIDType": "16",
        "IDValue ": "00000000121479135"
      } ],
    "PersonName": "Maj Sjöwall",
    "ContributorDate": [
      {
        "ContributorDateRole": "50",
        "Date": "1935"
      } ]
    } ]
}
```



# XML and JSON

- open, free, technologically neutral, highly interoperable
- structured, but relatively simple syntax
- communication rather than storage
- self-describing data, Unicode *etc*
- XML is more easily extensible
- JSON is slightly smaller and more efficient
- JSON works natively in a web browser

```
<ProductAvailability datestamp="20140827">21
</ProductAvailability>
```

```
"ProductAvailability": "21"
```

```
"ProductAvailability": {
  "sourcename": "?",
  "sourcetype": "?",
  "datestamp": "20140827",
  "value": "21"
}
```

# JSON in web services

- **authenticated environment**
  - therefore may not need ONIX header
  - may not need most other attributes
  - opportunity to make JSON simpler and cleaner
- **but retain *semantic interoperability***
  - with trivial syntactic mapping
- **EDItEUR will work on a JSON schema that mirrors the ONIX XML format, with simplifications for web service environments**



[graham@editeur.org](mailto:graham@editeur.org)

[www.editeur.org](http://www.editeur.org)