                    URN Namespace for NewsML Resources

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Abstract

   This document describes a URN (Uniform Resource Name) namespace for
   identifying NewsML NewsItems. A NewsItem is an information resource
   that is expressible as a NewsML element within a NewsML document
   conforming to the NewsML Document Type Declaration (DTD) as defined
   by the International Press Telecommunications Council (IPTC).

1. Introduction

   NewsML is an XML format for packaging multimedia news resources. It
   has been created under the auspices of the International Press
   Telecommunications Council (IPTC), and version 1.0 was approved by
   the IPTC on 6 October 2000.

   The same logical NewsItem may exist in multiple physical locations.
   The NewsML specification allows NewsItems to have multiple URLs, but
   only a single URN. It is the latter which then uniquely names the
   resource.

   This namespace specification is for a formal namespace.

2. Specification Template

   Namespace ID:

      "newsml" requested.

   Registration Information:

      Registration Version Number: 1
      Registration Date: 2000-11-07

   Declared registrant of the namespace:

      David Allen
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      IPTC
      Royal Albert House
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      Windsor
      SL4 1BE

   Declaration of structure:

      The identifier has the following ABNF[6] specification:

      NSS = ProviderId ":" DateId ":" NewsItemId ":" RevisionId Update
      ProviderId = string
      DateId = date
      NewsItemId = string
      RevisionId = posint
      Update = 0*1("A" / "U")
      date = century year month day
      century = ("0" posdig) / (posdig DIGIT)
      year = 1*2DIGIT
      month = (0 posdig) / ("1" ("0" "1" "2"))
      day = (0 posdig) / (("1" / "2") DIGIT) / "30" / "31"
      string = 1*char
      char = ALPHA / DIGIT / symbol / escape
      symbol = "(" / ")" / "+" / "," / "-" / "." / "=" / "@" / ";" /
        "$" / "_" / "!" / "*" / "'"
      escape = "%" HEXDIG HEXDIG
      posint = posdig *DIGIT
      posdig = "1" / "2" / "3" / "4" / "5" / "6" / "7" / "8" / "9"

      The ProviderId must be an Internet domain name, and must be owned
         by the organisation creating the NewsML resource and allocating
         the URN to it, at the date identified by the DateId.
      DateId is a date in ISO 8601 Basic Format (CCYYMMDD), and must
         correspond to a date at which the organisation allocating the
         URN owned the domain name specified in the ProviderId.
      The NewsItemId must be unique among all NewsItems emanating from
         the same provider and having the same DateId.

RevisionId is a positive integer indicating which revision of a
   given NewsItem this is. Any positive integer may be used, but
   it must always be the case that of two instances of a NewsItem
   that have the same ProviderId, DateId and NewsItemId, the one
   whose RevisionId has the larger value must be the more recent
   revision. A RevisionId of 0 is not permitted.
If the NewsItem contains an "Update" element or elements, then
   Update must be set to "U". If the NewsItem consists only of a
   replacement set of NewsManagement data, then Update must be set
   to "A". If neither of these is the case, then Update must be
   suppressed.

Relevant ancillary documentation:

   None

Identifier uniqueness considerations:

   The combination of ProviderId and DateId serves to uniquely
      identify the organisation that is allocating the URN. That
      organisation is responsible for ensuring the uniqueness of the
      DateId/NewsItemId/RevisionId combination.

Identifier persistence considerations:

   A NewsML URN may only be allocated by an organisation that owns an
      Internet domain name. The URN identifies a date on which the
      organisation owned that domain name. The combination of date
      and domain name will serve to uniquely identify that
      organisation for all time.

Process of identifier assignment:

   The organisation identified by the ProviderId/DateId combination
      is responsible for allocating a NewsItemId that is unique among
      all those that it allocates with that DateId.

Process of identifier resolution:

   NewsML providers are responsible for the provision of a URN
      resolution service, if any, for NewsML URNs they have assigned
      with a valid ProviderId/DateId combination.

Rules for Lexical Equivalence:

   URNs are lexically equivalent if the ProviderId, DateId,
      NewsItemId, and RevisionId are all identical (case-insensitive
      comparison).

   Conformance with URN Syntax:

      No special considerations beyond the syntax herein described.

   Validation mechanism:

      Organisations that allocate NewsML URNs are responsible for the
         provision of a URN validation service, if any, for URNs they
         have assigned with a valid ProviderId/DateId combination.

   Scope:

      Global

3. Examples

   The following examples are representative of NewsML URNs, but may not
   refer to actual resources.

   urn:newsml:iptc.org:20001006:NewsMLv1.0:1
   urn:newsml:reuters.com:20000206:
            IIMFFH05643_2000-02-06_17-54-01_L06156584:1U

4. Security Considerations

   There are no additional security considerations other than those
   normally associated with the use and resolution of URNs in general.

References

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        November 2000,
        <http://www.iptc.org/NewsML/specification/NewsMLv1.0.pdf>.

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   [3] W3C, XML WG, "Extensible Markup Language (XML) 1.0", February
        1998, <http://www.w3.org/TR/REC-xml>.

   [4] Moats, R., "URN Syntax", RFC 2141, May 1997.

   [5] Daigle, L., van Gulik, D., Iannella, R. and P. Faltstrom, "URN
        Namespace Definition Mechanisms", RFC 2611, June 1999.

   [6] Crocker, D. and P. Overell, "Augmented BNF for Syntax
        Specifications: ABNF", RFC 2234, November 1997.

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Acknowledgement