

Transitional Atom Format
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Abstract

This specification defines a transitional form of the Atom 1.0 Entry Document that may be used during the production lifecycle of Atom 1.0 Entry Documents.

Table of Contents

1.	Introduction	3
2.	Notational Conventions	3
3.	Transitional Atom Entry Documents	3
4.	The 't:entry' Element	3
5.	Security Considerations	5
6.	IANA Considerations	5
7.	References	5
	Author's Address	6
	Intellectual Property and Copyright Statements	7

1. Introduction

This specification defines a transitional form of Atom Entry Document [RFC4287] that may be used during the production lifecycle of an Atom Entry.

2. Notational Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14, [RFC2119].

This specification uses XML Namespaces [W3C.REC-xml-names-19990114] to uniquely identify XML element names.

```
"atom": "http://www.w3.org/2005/Atom"
"t"    : "http://www.w3.org/2005/Atom-transitional"
```

This specification uses terms from the XML Infoset [W3C.REC-xml-infoset-20040204]. However, this specification uses a shorthand; the phrase "Information Item" is omitted when naming Element Information Items. Therefore, when this specification uses the term "element," it is referring to an Element Information Item in Infoset terms.

3. Transitional Atom Entry Documents

The Transitional Atom Entry Document is a well-formed XML document derived from the Atom Entry Document defined by the Atom Syndication Format [RFC4287]. It's root is the t:entry element.

```
namespace tatom = "http://www.w3.org/2005/Atom-transitional"
start = tatomEntry
```

Transitional Atom allows the use of IRI's [RFC3987], xml:base and xml:lang in the same fashion described in Section 2 of the Atom Syndication Format specification.

Transitional Atom is an extensible format adhering to the same mechanisms described in Section 6 of the Atom Syndication Format.

4. The 't:entry' Element

The "t:entry" element represents an individual Transitional Atom Entry.


```
transitional-entry =  
  element t:entry {  
    atomCommonAttributes,  
    (atomAuthor*  
      & atomCategory*  
      & atomContent?  
      & atomContributor*  
      & atomId?  
      & atomLink*  
      & atomPublished?  
      & atomRights?  
      & atomSummary?  
      & atomTitle?  
      & atomUpdated?  
      & extensionElement*  
    )  
  }
```

This specification assigns no significance to the order of the child elements of t:entry.

The children of the 't:atom' element are defined by [[RFC4287](#)].

- o t:entry elements MAY contain one or more atom:author elements.
- o t:entry elements MAY contain any number of atom:category elements.
- o t:entry elements MUST NOT contain more than one atom:content element.
- o t:entry elements MAY contain any number of atom:contributor elements.
- o t:entry elements MAY contain exactly one atom:id element.
- o t:entry elements that contain no child atom:content element SHOULD contain at least one atom:link element with a rel attribute value of "alternate".
- o t:entry elements MUST NOT contain more than one atom:link element with a rel attribute value of "alternate" that has the same combination of type and hreflang attribute values.
- o t:entry elements MAY contain additional atom:link elements beyond those described above.
- o t:entry elements MUST NOT contain more than one atom:published element.
- o t:entry elements MUST NOT contain more than one atom:rights element.
- o t:entry elements MUST NOT contain more than one atom:source element.
- o t:entry elements SHOULD contain an atom:summary element in either of the following cases:

Snell

Expires June 9, 2006

[Page 4]

- * the t:entry contains an atom:content that has a "src" attribute (and is thus empty).
- * the t:entry contains content that is encoded in Base64; i.e. the "type" attribute of atom:content is a MIME media type [[RFC4288](#)], but is not an XML media type [[RFC3023](#)], does not begin with "text/", and does not end with "/xml" or "+xml".
- o t:entry elements MUST NOT contain more than one atom:summary element.
- o t:entry elements MAY contain exactly one atom:title element.
- o t:entry elements MAY contain exactly one atom:updated element.

5. Security Considerations

There are no security considerations introduced by this specification.

6. IANA Considerations

There are no IANA considerations introduced by this specification.

7. References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), March 1997.
- [RFC3023] Murata, M., St. Laurent, S., and D. Kohn, "XML Media Types", [RFC 3023](#), January 2001.
- [RFC3987] Duerst, M. and M. Suignard, "Internationalized Resource Identifiers (IRIs)", [RFC 3987](#), January 2005.
- [RFC4287] Nottingham, M. and R. Sayre, "The Atom Syndication Format", [RFC 4287](#), December 2005.
- [RFC4288] Freed, N. and J. Klensin, "Media Type Specifications and Registration Procedures", [BCP 13](#), [RFC 4288](#), December 2005.
- [W3C.REC-xml-infoset-20040204]
Tobin, R. and J. Cowan, "XML Information Set (Second Edition)", W3C REC REC-xml-infoset-20040204, February 2004.
- [W3C.REC-xml-names-19990114]
Hollander, D., Bray, T., and A. Layman, "Namespaces in XML", W3C REC REC-xml-names-19990114, January 1999.

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