

Artifact Identification Requirements 1.0

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Related work:

This specification replaces or supercedes:

- Proposed Rules for OASIS Document File Naming Working Draft 02

This specification is related to:

- OASIS Technical Committee Process Policy <http://www.oasis-open.org/committees/process.php>
- OASIS Template Guidelines <http://docs.oasis-open.org/templates/index.html>

Abstract:

This document contains requirements for the minimal set of metadata for OASIS artifacts, and requirements for naming artifacts such as prose specifications and schema definitions created by OASIS Technical Committees. The URLs and URNs specified are for future changes to the OASIS web site.

Status:

This document was last revised or approved by the Technical Advisory Board on the above date. The level of approval is also listed above. Check the current location noted above for possible later revisions of this document. This document is updated periodically on no particular schedule.

Review comments on this document should be posted to oasis-member-discuss@oasis-open.org. While registered OASIS members need not "join" that group to send comments, they must join in order to receive live email. The list archive at <http://lists.oasis-open.org/archives/oasis-member-discuss/> is public and persistent.

Comments will be most useful when they

- **clearly and specifically describe an issue**

- 43 • ***cite the line number(s) in the PDF form of the working draft***
- 44 • ***are concrete***
- 45 • ***specify the alternate wording requested***

46 For information on whether any patents have been disclosed that may be essential to
47 implementing this specification, and any offers of patent licensing terms, please refer to the
48 Intellectual Property Rights section of the Technical Committee web page ([www.oasis-
49 open.org/committees/tab/ipr.php](http://www.oasis-open.org/committees/tab/ipr.php)).

50 The non-normative errata page for this specification is located at [www.oasis-
51 open.org/committees/tab](http://www.oasis-open.org/committees/tab).

52

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124 1 Introduction (non-normative)

125 OASIS recognizes the need to establish a set of Requirements for consistently naming artifacts, such as
126 requirements documents, prose specifications, schema definitions, attribute identifiers, profile identifiers,
127 and others that are produced by OASIS technical committees (TCs), as well as establishing requirements
128 for a minimum required set of metadata for OASIS artifacts. This document describes those
129 Requirements.

130 This document is intended to specify practices that are, insofar as possible, upwardly compatible with the
131 Proposed Rules for OASIS Document File Naming Working Draft 02, Edited by Eve Maler [**Proposed**
132 **Naming**].

133 Certain OASIS artifact metadata is included in the artifact names. This allows unambiguous and
134 consistent naming across all OASIS activities for visible versions of artifacts. This visibility of metadata in
135 the name is intentional and permits the use of a variety of technologies for accessing and working with
136 the contents of OASIS archives.

137 Earlier Working Drafts of these guidelines were sent to the OASIS Chairs mailing list and to OASIS Staff
138 for comment and discussion. This Working Draft incorporates comments from the Chairs list members,
139 the OASIS TAB, OASIS Staff, and other sources, and will be reviewed by the OASIS membership. We
140 thank the reviewers for their comments and suggestions.

141 The discussion of URNs need further consideration, and should be viewed as preliminary.

142

143 These Guidelines are coordinated with the OASIS IPR Policy [**OASIS IPR**] and the OASIS TC Process
144 [**OASIS TCP**]. The terms “Contribution” and “Feedback” referring to artifacts in those references are not
145 addressed in these Guidelines.

146 Pending approval and web site enhancements, we expect that the URLs and URNs will be fully functional
147 some time in 2005; per Section 2, these guidelines will be effective as and when announced by the
148 OASIS TC Administrator.

149 1.1 Terminology

150 The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD
151 NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described
152 in [**RFC 2119**].

153 This specification uses the following typographical conventions in text: *variable name*, *literal*
154 *string*. Terms in ***italic boldface*** are intended to have the meaning defined in Section 3 or in other
155 normative OASIS documents, such as the TC Process [**OASIS TCP**] and IPR Policy [**OASIS IPR**].

156 We identify the value domain for components with *italic* text with initial (and perhaps internal)
157 capitalization, and the value within the respective domains with all lower case ***bolditalic*** text.

158 1.2 Normative References

159

160 [**ISO 14977**] ISO/IEC 14977:1996(E) Information Technology—Syntactic Metalanguage—
161 Extended BNF, 1996.

162 [**ISO 639**] ISO 639-1:2002 Code for the representation of the names of languages, 2002
163 [**ECMA-6**] ECMA-6:1991 *Information technology—7-bit coded Character Set*, 1991.
164 <http://www.ecma-international.org/publications/standards/Ecma-006.htm>

165 [**OASIS IPR**] OASIS IPR Policy, <http://www.oasis-open.org/who/intellectualproperty.php>
166 Effective April 15, 2005.

167 [**OASIS TCP**] OASIS TC Process, <http://www.oasis-open.org/committees/process.php> Effective
168 April 15, 2005.

169 **[RFC 2119]** S. Bradner. Request for Comments 2119, *Key words for use in RFCs to Indicate Requirement Levels*. IETF (Internet Engineering Task Force). March 1997.
170
171 **[RFC 2141]** R. Moats. Request for Comments 2141, *URN Syntax*, May 1997.
172 **[RFC 3121]** K. Best, N. Walsh. Request For Comments 3121, *A URN Namespace for OASIS*,
173 June 2001.
174 **[RFC 3986]** T. Berners-Lee, R. Fielding, L. Masinter. Request For Comments 3986, *Uniform Resource Identifier (URI): Generic Syntax*, January 2005.
175
176 **[RFC 3987]** M. Duerst, M. Suignard. Request For Comments 3987, *Internationalized Resource Identifiers (IRIs)*, January 2005.
177
178

179 **1.3 Non-Normative References**

180 **[Proposed Naming]**
181 E. Maler, Editor. *Proposed Rules for OASIS Document File Naming Working Draft 02*, <http://www.oasis-open.org/spectools/docs/chairs-filenaming-02.html>,
182 February 2003.
183
184 **[ISO 8859-1]** ISO/IEC 8859-1:1998 *Information technology—8-bit single-byte coded graphic character sets—Part 1: Latin alphabet No. 1* [Latin 1 Character Set], 1998. The
185 **[ECMA-6]** normative reference is to the so-called ASCII subset (ANSI_X3.4-1968) of **[ISO 8859-1]**.
186
187
188 **[RDDL 1]** *Resource Directory Description Language (RDDL)*, <http://www.rddl.org>, February
189 18, 2002.
190 **[RDDL 2]** Working Draft, *Resource Directory Description Language (RDDL) 2.0*,
191 <http://www.openhealth.org/RDDL/20040118/rddl-20040118.html>, January 18,
192 2004.
193 **[XML NS 1.0]** World Wide Web Consortium Recommendation, *Namespaces in XML*,
194 <http://www.w3.org/TR/REC-xml-names/> and <http://www.w3.org/XML/xml-names-19990114-errata>, 14 January 1999,
195
196 **[XML NS 1.1]** World Wide Web Consortium Recommendation, *Namespaces in XML 1.1*,
197 <http://www.w3.org/TR/REC-xml-names11/> and <http://www.w3.org/XML/xml-names11-errata>, 2004.
198
199

200 **2 Applicability (normative)**

201 TCs MUST apply these Requirements to produce URIs consistent with **[RFC 3986]**, official stored
202 filenames and any URNs consistent with **[RFC 2141]** for any Committee Drafts, Committee
203 Specifications, Public Review Drafts, OASIS Standards, any unapproved working drafts of the foregoing,
204 all XML files intended for direct machine processing, and other stored artifacts such as white papers,
205 requirements, and the like.

206 TCs MUST apply these Requirements to include the required metadata inside artifacts where appropriate.

207 TCs MAY choose, but are NOT REQUIRED, to use these Requirements for the naming of other artifacts.

208 These Requirements are effective as announced by the OASIS **TC Administrator** by email to the OASIS
209 membership.

210 TCs are NOT REQUIRED to apply these Requirements retroactively. However, the OASIS **TC**
211 **Administrator** may assign compliant names to artifacts without such names, and where possible without
212 breaking existing references (such as existing persistent hyperlinks), the **TC Administrator** may elect to
213 use the compliant names as the exclusive official reference to artifacts where a compliant name is
214 available.

215 3 Definitions (normative)

216 Phrases defined in the OASIS TC Process [OASIS TCP] and/or the OASIS IPR Policy [OASIS IPR] and
217 not otherwise defined in these Requirements are used herein as defined therein.

218 3.1 General Definitions (normative)

219 Artifact

220 An individual work product of a Technical Committee, usually a document (including but not
221 limited to prose specifications, requirements, guidelines, etc) or machine-readable files (such as
222 an XML schema, DTD, etc). TC Charters are NOT included. TC Minutes, comment logs and
223 similar indirect work product MAY be included.

224 Artifact Identifier

225 A string used to uniquely identify a particular *artifact*. These Requirements describe how to
226 construct and (indirectly) how to parse *artifact identifiers*.

227 Artifact Name

228 The name of an *Artifact* determined by the Technical Committee in consultation with the *TC*
229 *Administrator*.

230 Filename

231 The string name in the final path position (rightmost) used to identify a file system object.

232 Name Component

233 A character string that contains a specific metadata value. Used to build a *structured name*.

234 Persistent URL

235 A URL references a particular OASIS artifact or set of artifacts that will resolve to a particular
236 object; the object referenced will remain immutable over time (except for the *latest* subtree in
237 section 7.5), and the URL will consistently reference the same artifact or set of artifacts over time.

238 Required Metadata

239 The set of metadata values required by this document.

240 Structured Name

241 An *artifact identifier* built from *name components* separated by the hyphen character.

242 [OASIS] TC Administrator

243 The individual or group administrator as described in the OASIS TC Process [OASIS TCP].

244 3.2 Name Component Definitions (normative)

245 These definitions are in the order used as *name components* and in the discussion of required
246 metadata:

247 TC Short Name

248 The short name assigned by the *TC Administrator* to the Technical Committee, with any
249 hyphens eliminated. This is typically done at TC initiation.

250 Product

251 The *TC Administrator*-approved proper name (or the official, *TC Administrator*-approved
252 abbreviation) of a significant body of work undertaken by a TC. Some current OASIS Products
253 are "saml", "wsrp", and "wss".

254 ProductVersion

255 An **Artifact** development stage that is formally designated by the letter “v” followed by a number
256 (in major.minor format, such as 1.0 or 2.3 or 2.0.1, using the period character as a separator) for
257 purposes of distinguishing successive drafts, particularly approved drafts of specifications, as well
258 as levels of implementation and conformance by a public community of developers. An OASIS
259 Standard is associated with a single **ProductVersion** throughout its development and approval.
260 The Technical Committee producing the Product and its Artifacts, after consultation with the **TC**
261 **Administrator**, assigns version numbers.

262 **Artifact Type**

263 The type of the **Artifact**. The following abbreviations shall be used:

- 264 – Catalog – “catalog” (This refers to SGML/XML catalogs used for entity resolution)
- 265 – Conformance criteria – “conform”
- 266 – Errata – “errata”
- 267 – Guidelines – “guidelines”
- 268 – Profile – “profile”
- 269 – Requirements – “req”
- 270 – Schema – “schema”
- 271 – Prose Specification – “spec”

272 Note that this list is not exhaustive. Oftentimes, committees will have to define their own special-
273 purpose Artifacts. It is recommended that artifact type identifiers be either well-accepted
274 abbreviations (e.g. “spec”) or the full spelling. Artifact Type identifiers not specified in these
275 Requirements MUST be approved by the **TC Administrator**.

276 **Stage**

277 A specification maturity level recognized by the OASIS TC process [**OASIS TCP**].

278 The following abbreviations SHALL be used:

- 279 – Working Draft – wd
- 280 – Committee Draft – cd
- 281 – Public Review Draft – pr
- 282 – Committee Specification – cs
- 283 – OASIS Standard – os

284 **DescriptiveName**

285 A descriptive name defined by the TC for the **artifact**. For example, where an OASIS standard
286 might be referred to as “WSRP 1.0” or “SAML 2.0”, the components of the ratified standard may
287 include a number of schemas or **artifacts** of other types. Considering SAML 2.0, some 41 files
288 are part of the OASIS Standard archive file. The descriptive name of the specification (assuming
289 no parts) can be omitted; the distinctions between the 33 schemas need a **DescriptiveName** to
290 reasonably distinguish them.

291 The rest of the naming scheme effectively defines a container for a single artifact; once a
292 container (say `saml-2.0-AuthnContext-schema-os` is defined, we must distinguish between
293 (e.g.)

294 `mobileonefactor-unreg.xsd`

295 `mobiletwofactor-reg.xsd`

296 `pgp.xsd` and

297 `timesync.xsd`

298 The **DescriptiveName** must be in the appropriate character set; requirements are in Section 5.2
299 Character Sets for Artifact Identifiers. In the absence of an **ArtifactIdentifier** for certain artifacts
300 only a **DescriptiveName** is used.

301 **Revision**

302 The development stage of an artifact (except an OASIS Standard) designated by a two-digit
303 number to distinguish various drafts under TC development. Revisions SHALL be numbered
304 starting at one and increase monotonically. A **Revision** MAY have “diffNN” appended to indicate
305 diffmarks with respect to Revision NN of the same artifact

306 **Language**

307 A two-letter abbreviation for language of the specification, conforming to **[ISO 639]**. In the case of
308 OASIS Standards, per the OASIS Translation Policy, translations from the original language are
309 not normative and are so marked. If not present, the value of this component defaults to “en”
310 (English).

311 **Form**

312 A particular representation of an artifact. The same **revision** of an artifact might have several
313 **forms**, particularly in the case where **Artifact Type** is “spec”. Typically this is the extension given
314 to a filename that indicates a particular application or class of application.

315 For example, when submitting a Public Review package, the specification(s) must be provided in
316 both Adobe Acrobat (pdf) and HTML **forms**.

317 4 Required Metadata for Artifacts

318 The Required Metadata provided for and associated with an OASIS artifact is specified in this section.
319 Detailed guidelines on the content and format are in the following sections. A summary table is in
320 Appendix C.

321 Selected required metadata is used to construct the **ArtifactIdentifier** and the filename, in addition to use
322 as path components for URI and file naming.

323 Each artifact SHALL have the following metadata defined by the Technical Committee, subject to
324 approval by the **TC Administrator**. The metadata listed SHALL be included in the artifact, and selected
325 metadata SHALL be contained in the name of the artifact pursuant to the following sections.

326 Additional metadata MAY be defined by the Technical Committee for its artifacts, provided such additional
327 metadata is approved by the **TC Administrator**

328 Each artifact MUST contain the **ArtifactIdentifier** as described in these guidelines:

329 `artifactName: [descriptive name]`

330 Each artifact MUST contain an identifier referencing the Technical Committee Short Name as assigned by
331 the **TC Administrator**.

332 `tc: [tcShortName]`

333 Each artifact MUST contain the **Product** identifier as approved by the **TC Administrator**

334 `product: [product]`

335 Each artifact MUST contain an identifier referencing the **ProductVersion**

336 `productVersion: [00[.00]]`

337 Each artifact MUST contain an identifier referencing the **ArtifactType**

338 `artifactType: [catalog | conform | errata | guidelines | profile | req | schema
339 | spec | ...]`

340 Each specification, DTD, schema, or fragment artifact MUST contain an identifier referencing the **Stage** of
341 the artifact.

342 `stage: [os | cs | pr | cd | wd]`

343 Each artifact MUST contain an identifier defined by the TC that is a **DescriptiveName** for the artifact.

344 `descriptiveName: [tcDefinedDescriptiveName]`

345 Each artifact MUST contain an identifier referencing the **Revision** of the artifact, subject in addition to the
346 “diff” extension specified in Section 3:

347 `revision: [00]`

348 `revision: [00]diff[00]`

349 While the above list is not exhaustive, it attempts to classify each type of artifact currently produced and
350 maintained by OASIS Technical Committees. New artifact type classifications MUST be approved and
351 published by the **TC Administrator**.

352 5 Artifact Identifiers (normative)

353 OASIS artifacts MUST be assigned a set of metadata that uniquely and unambiguously identifies such
354 object as defined in Section 4. In this section we define how to build identifiers for all OASIS artifacts
355 within the scope of these Requirements.

356 5.1 Common conventions

357 This section contains guidelines that are common to **Artifact Identifiers** for **Artifacts** of all types.
358 Although this section may specify that certain components be omitted for particular **Artifact Types**, the
359 Required Metadata must still be present inside the **artifact** wherever possible.

360 **Artifact Identifiers** SHALL be case-sensitive.

361 Technical Committees MAY use mixed case (upper and lower) spelling for **Artifact Identifiers**, bearing in
362 mind that the **TC Administrator** establishes the range of accepted values for many components.

363 TCs SHALL NOT create two or more **Artifact Identifiers** that differ only with respect to case.

364 Access to OASIS artifacts on OASIS web sites should expect the OASIS servers to respond to requests
365 for resources (URIs) at the official third-level domain ONLY in a case-sensitive manner.

366 The **revision** component SHALL be omitted from identifiers and from the Required Metadata for OASIS
367 Standards (where **stage** is “os”).

368 Hyphens MUST be used to separate the name components.

369 Within components, spaces MUST NOT be used. Hyphens SHALL NOT be used within the name
370 components. Where no requirement is imposed by these Requirements, it is RECOMMENDED to use
371 mixed case to render components more readable. See Section 5.2 Character Set below.

372 5.2 Character Set for Artifact Identifiers

373 The **Artifact Identifier** SHALL be exclusively in the [ECMA-6] character set, and SHALL use exclusively
374 Latin Capital Letters, Latin Small Letters, Digits, period (“Full Stop”), and hyphen (“Hyphen-Minus”).

375 Components of the **Artifact Identifier** MUST NOT use hyphen. Hyphen MUST BE used as a separator of
376 components.

377 Filenames MUST use the same character set.

378 The **Artifact Identifier** may be expressed in other encodings, e.g., UTF-16, using corresponding case
379 characters and special characters.

380 Alternative representations MUST be approved by the **TC Administrator**.

381 In a future revision this requirement may be relaxed in light of the growing interest in IRIs as defined in
382 [RFC 3987].

383 5.3 Constructing Specific Artifact Identifiers

384 The following format SHALL be used for **ArtifactIdentifiers**; variations for specific purposes will be
385 described below:

386 `product-productVersion-artifactType-stage-revision-language.form`

387 The literal hyphens in the **ArtifactIdentifier** are separators for the components, so if a component is
388 optional there SHALL NOT be multiple adjoining hyphens. Note the literal period between **revision** and
389 **form**, and that literal periods MAY be contained in **ProductVersion**.

390 A value for **Product** MUST be included.

391 A value for **ProductVersion** MUST be included.

392 A value for **ArtifactType** MUST be included.

393 A value for **Stage** MUST be included except when **ArtifactType** is schema, in which case then a value for
394 **Stage** MAY be omitted.

395 A value for **DescriptiveName** MUST be included if no other metadata is included in the **ArtifactName**.

396 A value for **Revision** MUST be included if there is more than one non-identical artifact of the same
397 referenced **ProductVersion** of a **Product**. Otherwise a revision MAY be included or omitted. **Revisions**
398 of a single **ProductVersion** must be unique. If **ArtifactType** is schema then a value for **Revision** MAY
399 be omitted in a parallel name, similar to those defined in Section 7.4 Latest Version Subtree below.

400 A value for **Language** MAY be included or omitted.

401 A value for **Form** SHALL be used only for files, URLs, and URNs and MUST NOT be otherwise present.

402 A draft non-normative context-free grammar for **artifact identifiers** will be included in Appendix B. A
403 summary table is in Appendix C.

404 5.4 Filenames

405 Filenames refer to the final path name component given to an artifact, which is the rightmost component
406 in a file path.

407 5.4.1 Specification and other Prose Document Filenames

408 For each artifact that is a specification (or other prose document) associated with a single product, the
409 **name components**

- 410 • **product**
- 411 • **productVersion**
- 412 • **artifactType**
- 413 • **stage**
- 414 • **revision, and**
- 415 • **form**

416 MUST be included in the file name in the order listed.

417 The **name components** MUST be separated by hyphens, except **form** which is separated from the
418 preceding component with a period.

419 `[product] -[productVersion] -[artifactType]-[stage] -[revision] .[form]`

420 5.4.2 Other Artifact File Names

421 The filename MUST be descriptive as to the document title.

422 The Technical Committee that owns such an artifact determines the filename, subject to approval of the
423 **TC Administrator**.

424 If in the **TC Administrator**'s sole determination the filename is ambiguous or confusing, the **TC**
425 **Administrator** MAY require that the TC propose a different filename.

426 For other artifacts, the TC has a great deal of flexibility in assigning **DescriptiveNames**, but MAY
427 optionally include some of the **name components** required for specifications. See Table in Appendix C.

428 5.5 Additional Requirements for Specific File Forms

429 5.5.1 Default Web Pages for Product URLs

430 The required metadata for an artifact MUST be maintained in the index page(s) at the URL for each
431 **product** and **productVersion** to facilitate search and retrieval.

432 For each such index page, an XHTML-compliant meta element MUST be included.

433 At least the **product** and **productVersion** and **stage name components** MUST be included.

```
434 <meta name="tcShortName" content="[ tcShortName]"/>
435
```

436 For example

```
437 <meta name="tcShortName" content=SecurityServices"/>
```

438 5.5.2 XHTML Filetypes

439 For each artifact an XHTML-compliant meta element MUST be included within the contents of an XHTML
440 file.

```
441 <meta name=" tcShortName" content="[ tcShortName]"/>
```

442 For example

```
443 <meta name=" tcShortName" content=SecurityServices"/>
```

444 5.5.3 SGML/XML Filetypes

445 For each artifact containing structured markup, Required Metadata MUST be placed as a comment within
446 the content of the file where possible:

```
447 <!-- meta tcShortName="[tcShortName]" product="[product]" version="[version]"
448 descriptiveName="descriptiveName" -->
```

450 or in `meta` tags outside comment delimiters for HTML 4 (considered as a subtype of SGML) and earlier.

451 5.5.4 Adobe PDF, Microsoft Word and OpenOffice Filetypes

452 Artifacts whose **form** is Adobe PDF, Microsoft Word, or OpenOffice MUST contain the Required
453 Metadata values on their cover page as defined in the OASIS-supplied templates.

454 The **form** MUST be appropriate to the artifact.

455 The full **ArtifactIdentifier** followed by the literal period and **form** MUST be the filename.

456 Where an interpreting application allows metadata or key words, the artifact identifier and the metadata
457 values SHALL be identified as keywords and/or document metadata.

458 5.5.5 Other Word Processing or Desktop Publishing Filetypes

459 Artifacts of forms other than those specified in the preceding sections MUST conform to the OASIS-
460 supplied templates and MUST contain the Required Metadata values on their cover page.

461 The **form** MUST be appropriate to the artifact.

462 The **form** must be approved by the **TC Administrator**.

463 The full **ArtifactIdentifier** followed by the literal period and **form** MUST be the filename.

464 Where an interpreting application allows metadata or key words, the artifact identifier and the metadata
465 values SHALL be identified as keywords and/or document metadata.

466 5.5.6 Other Binary File types

467 Artifacts created with applications not discussed here, and stored as binary files, SHOULD, if possible,
468 use the custom properties fields, if available, to populate the required artifact identifiers.

469 The **form** MUST be appropriate to the artifact. Both **form** and its values MUST be approved by the **TC**
470 **Administrator**.

471 The full **ArtifactIdentifier** followed by the literal period and **form** MUST be the filename.

472 6 Uniform Resource Names and Namespaces

473 6.1 Application of RFC 3121

474 The terminology and metasyntactic variables used in this section are consistent with [RFC 3121] rather
475 than with the rest of this set of requirements.

476 In the event that a TC chooses to use a URN as an additional identifier that URN MUST follow [RFC
477 3121], which specifies a *prefix*:

```
478 urn:oasis:names:
```

479 followed by two variations:

```
480 tc:{tc-id}:{type}{:subtype}?:{document-id}
```

481 or

```
482 specification:{specification-id}:{type} {:subtype}?:{document-id}
```

483 depending on the status of the artifact at the time the URN is constructed. The first form in [RFC 3121] is
484 for TC drafts and other documents, the second form for OASIS Standards.

485 {document-id} is the only part of the URN not specified by [RFC 3121] or by the *TC Administrator*.

486 The *tc-id* is the *Owner's* (usually the TC's) unique identifier for URNs, as specified by the *TC
487 Administrator*. The OASIS TC Administrator SHALL use the TC Short Name as the "tc-id".

488 The *specification-id* is a unique identifier for the OASIS Standard, is assigned by the *TC
489 Administrator*, and MUST be exclusively in the character set defined Section 5.2, excluding the hyphen
490 character. The *specification-id* SHALL be the same as *Product* as defined in Section 3.

491 The *document-id* is the document's unique identifier, and is specified by the Technical Committee
492 pursuant to these Guidelines and with the approval of the *TC Administrator*. The *document-id* for a
493 URN requires fewer components than other identifiers specified in this document because some of the
494 metadata is in the URN path prefix. However, at the discretion of the *TC Administrator* the *document-
495 id* MAY contain the entire *Artifact Identifier* as specified in Section 5.

496 Note that the colon character is not permitted in *document-id* or in *ArtifactNames*.

497 Type and sub-type SHOULD be used with caution, as [RFC 3121] is not precise on this subject (and
498 should be revised to correct this). It is RECOMMENDED that only the following types be used:
499 *document*, *schema*, *stylesheet*, and *entity*. It is RECOMMENDED that only the following sub-types
500 be used and only when the type is *schema*: *dtd*, *rng*, and *xsd*.

501 OASIS namespace declarations pursuant to [XML NS 1.1] or [XML NS 1.0] MUST use either this class of
502 identifier or a URL as described in Section 6.2.

503 The two forms of URN defined in [RFC 3121] focus on the Technical Committee as *Owner* and the
504 *Product*. Form One places the *Product* under the TC:

```
505 urn:oasis:names:tc:docbook:schema:dtd:dcbk4.1.2_dbhier.mod
```

506 Form Two places the *Product* under the more generic (than in *ArtifactType*) "specification":

```
507 urn:oasis:names:specification:ubl:schema:xsd:CoreComponentParameters1.0
```

508 Form One (with the TC identified with the Product) should be deprecated. Form Two mirrors the definition
509 of *Product* as used for the application of the OASIS IPR Policy [OASIS IPR], but is used in [RFC 3121]
510 only for OASIS Standards, and is inserted under *oasis:names:specification*.

511 Form Two should be extended beyond just OASIS Standards.

512 OASIS SHOULD revise **[RFC 3121]** and **[RFC 3122]** to conform to these guidelines, or withdraw the
513 RFCs if OASIS can or will not support the commitments made in those RFCs.
514 OASIS staff SHOULD insofar as possible use similar components and hierarchies in the http and urn
515 schemes to minimize conversion and maintenance expense.

516 **6.2 Namespaces**

517 OASIS namespace declarations pursuant to **[XML NS 1.1]** or **[XML NS 1.0]** MAY be defined as URLs
518 using the http scheme as an alternative to the URN form required in Section 6.1.

519 Each namespace defined as a URL MUST resolve to a RDDL document. (Note that URNs need not be
520 resolvable.)

521 All such OASIS-defined http scheme namespaces MUST resolve to an OASIS server, in particular oasis-
522 open.org.

523 Such namespaces MAY also resolve to other OASIS servers including rddl.org, docs.oasis-open.org,
524 cgmopen.org, or other TC-related and OASIS-owned domain, as approved by the **TC Administrator**.

525 **6.3 Other Namespaces and URNs**

526 Groups in OASIS may need temporary locations for e.g. test or temporary names. We propose that a
527 dedicated URN be defined for each such group.

528 For example, for UDDI definitions that are, for one reason or another, not yet considered appropriate for
529 the UDDI Global Business Directory, a URN prefix of

530 `urn:oasis:names:test:uddi`

531 or

532 `urn:oasis:names:tc:uddi:test`

533 might be used within the OASIS URN space, with prefix `urn:oasis:.` Since the latter mirrors more
534 closely the **[RFC 3121]** Form One, and places the test namespace under the respective TC's, we require
535 that form (and its future evolution):

536 OASIS SHALL support temporary or test namespaces for its TCs under the TC prefix URNs of the form

537 `urn:oasis:names:tc:[tcShortName]:test.`

538 OASIS SHALL NOT guarantee any specific lifetime to URNs in those test spaces for the TCs.

539 In any revision or replacement for **[RFC 3121]** OASIS SHALL indicate that these test spaces are
540 temporary and the content not guaranteed.

541 7 Persistent URLs

542 **Persistent URLs** SHALL be maintained for each artifact contributed to or created by an OASIS technical
543 committee.

544 Legacy **persistent URLs**, where they currently exist, MUST be supported and continue to resolve.

545 The **TC Administrator** MAY link legacy documents into the artifact identification structure defined in these
546 requirements.

547 7.1 Base Domain For URLs

548 URLs created for all OASIS artifacts created by or pertaining to technical committees SHOULD be rooted
549 at the docs (third-level) domain on the oasis-open.org Internet domain, thus at the base
550 docs.oasis-open.org.

551 7.2 Technical Committee Tree

552 The short name of the OASIS technical committee, as established by the **TC Administrator**, typically
553 upon initial formation, MUST be the next node in the URL after the base:

554 `docs.oasis-open.org/[tcShortName]`

555 An index page MUST be maintained at the default location (typically docs.oasis-
556 open.org/[tcShortName]/index.php), which SHALL contain links listing all subtrees and their
557 contents.

558 7.3 Type Identifiers

559 7.3.1 Products

560 A **Product** is a set of artifacts that pertains to a single topic and is a main output of a technical committee.
561 Each **Product** is assigned an identifying name by the TC Process Administrator. A separate subtree
562 MUST be created and maintained for each such specification set.

563 `docs.oasis-open.org/[product]`

564 An index page MUST be maintained at the default location (typically
565 docs.oasisopen.org/[product]/index.php), which SHALL contain links listing all subtrees and their
566 contents.

567 7.3.2 Profiles

568 Profiles are treated the same as **Products** and MUST conform to all of the rules contained within the TC
569 Process Policy.

570 If a profile is part of a **Product** it goes in the **Product** tree:

571 `docs.oasis-open.org/[product]/[profileID]`

572 An index page MUST be maintained at the default location (typically docs.oasis-
573 open.org/[tcShortName]/index.php), which SHALL contain links listing all subtrees and their contents.

574 7.3.3 Non Specification Track Documents

575 Technical committees may, on occasion, create documents that are not directly related to a **Product** but
576 instead are intended as educational or marketing tools. Such documents include, but are not limited to,
577 white papers, presentations, or tutorials.

578 `docs.oasis-open.org/[tcShortName]/`

579 An index page MUST be maintained at the default location (typically docs.oasis-
580 open.org/[tcShortName]/other/index.php), which SHALL contain links listing all subtrees and their
581 contents.

582 **7.4 Specific Version Subtrees**

583 For each specific version of a specification or profile artifact or set of artifacts, a unique subtree MUST be
584 maintained.

585 `docs.oasis-open.org/[product]/[version]`

586 An index page MUST be maintained at the default location (typically docs.oasis-
587 open.org/[tcShortName]/[product]/[version]/index.php) which contains links listing all subtrees and their
588 contents.

589 **7.5 Latest Version Subtree**

590 The most recent version of specification or profile artifacts or set of artifacts MUST be available at this
591 location.

592 `docs.oasis-open.org/[product]/latest`

593 An index page MUST be maintained at the default location (typically docs.oasis-open.org/
594 [product]/latest/index.php), which contains links listing all subtrees and their contents.

595 This subtree is intended to aid Technical Committee work in developing, prototyping, and testing their
596 **Products** and conformant software, so test software might use (e.g.) the latest version of a schema
597 without recompilation or rebinding as a schema is evolved.

598 The most recent version still must be present in the fully named **Product** hierarchy, so in effect `latest`
599 will root a tree of links into the fully named specific version subtrees and artifacts.

600 **8 Examples (non-normative)**

601

602 Selected examples can be found in Appendix C.

603 **Appendix A. Acknowledgements**

604 The following individuals have participated in the creation of this specification and are gratefully
605 acknowledged:

606 **Participants:**

607 [Participant Name, Affiliation | Individual Member]

608 [Participant Name, Affiliation | Individual Member]

609

610 Appendix B. Draft Context-Free Grammar for 611 Structured Names (non-normative)

612 The following context-free grammar conforms to **[ISO 14977]**, also known as EBNF. This grammar is
613 incomplete and may contain errors. The normative statements in this document control.

614 ArtifactName = DescriptiveName | StructuredName ;

615

616 DescriptiveName = NAMECHAR, {NAMECHAR | HYPHEN}
617 [PERIOD, Form]; (* used only for filenames *)

618

619 StructuredName = OasisStandardName | OtherStructuredName;

620

621 OasisStandardName = Product,
622 HYPHEN, Version,
623 HYPHEN, ArtifactType,
624 HYPHEN, Stage,
625 [HYPHEN, Language], (* optional, defaults to 'en' *)
626 [PERIOD, Form]; (* used only for filenames *)

627

628 OtherStructuredName = Product,
629 HYPHEN, Version,
630 HYPHEN, ArtifactType,
631 HYPHEN, Stage,
632 HYPHEN, Revision,
633 [HYPHEN, Language], (* optional, defaults to 'en' *)
634 [PERIOD, Form]; (* used only for filenames *)

635

636 (* Name Component and Metadata Definitions *)

637 Owner = 'oasis' | TCshortName;

638

639 TcshortName = NAMECHAR, {NAMECHAR};

640

641 Product = NAMECHAR, {NAMECHAR};

642

643 Version = Major, {PERIOD, Minor}; (* allows e.g. 3.0.1, 2.2, 4 *)

644 Major = DIGIT, {DIGIT};

645 Minor = DIGIT, {DIGIT};

646

647 ArtifactType = 'catalog' | 'conform' | 'errata' | 'profile' | 'req' | 'schema' | 'spec';

648

649 Stage = 'wd' | 'cd' | 'pr' | 'cs' | 'os';

650

651 Revision = 2*{DIGIT}, ['diff' ('diff', 2*{DIGIT})];

652

653 Language = LOALPHA, LOALPHA; (* per **[ISO 639]** *)

654

655 Form = 'pdf' | 'xsd' | 'doc' | 'txt' | 'html' | 'xhtml' | 3*{LOALPHA} | 4*{LOALPHA};

656

657 (* Character Set and Character Names *)

658 NAMECHAR = LOALPHA | HIALPHA | DIGIT;

659

660 (* LATIN SMALL LETTER A through Z, codes 6/1 through 7/10 **[ECMA-6]** *)

661 LOALPHA = 'a' | 'b' | 'c' | 'd' | 'e' | 'f' | 'g' | 'h' | 'i' | 'j' | 'k' | 'l' | 'm' | 'n' | 'o' | 'p'

662 | 'q' | 'r' | 's' | 't' | 'u' | 'v' | 'w' | 'x' | 'y' | 'z';

663

664 (* LATIN CAPITAL LETTER A through Z, codes 4/1 through 5/10 **[ECMA-6]** *)

665 HIALPHA = 'A' | 'B' | 'C' | 'D' | 'E' | 'F' | 'G' | 'H' | 'I' | 'J' | 'K' | 'L' | 'M' | 'N' | 'O' | 'P'

666 | 'Q' | 'R' | 'S' | 'T' | 'U' | 'V' | 'W' | 'X' | 'Y' | 'Z';

667 (* DIGIT ZERO through DIGIT NINE, codes 3/0 through 3/9 **[ECMA-6]** *)

668 DIGIT = '0' | '1' | '2' | '3' | '4' | '5' | '6' | '7' | '8' | '9';

669

670 HYPHEN = '-'; (* HYPHEN-MINUS code 2/13 **[ECMA-6]** *)

671 PERIOD = '.'; (* FULL STOP code 2/14 **[ECMA-6]** *)

672

673

Appendix C. Table of Components (non-normative)

A.1 Summary Table

Some examples follow the table.

Key: In names, Y means "must be present," N means "must not be present," O means "optional," and Y-A means "must be present but an alternative name is defined in these guidelines." *Alphanumeric* refers to the restricted set of lower and upper case Latin alphabet letters and digits. The permitted characters avoid [RFC 3986] restricted characters.

Metadata	Artifact Identifier	Where Defined	Managed by	Value Type	Example	Required Metadata	In Artifact Identifier	In URN document-id	In Schema Name	In OASIS Standard	Notes
Identifier of the <i>artifact</i>	<i>ArtifactIdentifier</i>	here	components are managed	Alphanumeric plus "." and "-"		Y				Y	
Owner of the <i>artifact</i>	<i>Owner</i>	TC Admin	TC Admin	Alphanumeric	wsrp	Y	N	N	N	N	The "short name" for the TC or defining group. Need hyphen-less name. <i>Product</i> uniquely determines <i>Owner</i> .
Specification ID or product	<i>Product</i>	here	TC Admin with TC	Alphanumeric	SAML	Y	Y	Y	O	Y	Case sensitive. See Requirements.
Version of the <i>Product</i>	<i>ProductVersion</i>	here	Owner with TC Admin approval	Arabic numerals, major number, ".", minor number, optional period and number	SAML 1.0 is ProductVersion = "1.0"	Y	Y	Y	O	Y	Certain specs have numbers such as 3.0.2.

<i>Metadata</i>	<i>Metadata Identifier</i>	<i>Where Defined</i>	<i>Managed by</i>	<i>Value Type</i>	<i>Example</i>	<i>Required Metadata</i>	<i>In Artifact Identifier</i>	<i>In URN document-id</i>	<i>In Schema Name</i>	<i>In OASIS Standard</i>	<i>Notes</i>
Type of the Artifact	ArtifactType	here, TC Admin	TC	Alphanumeric	schema, requirements, specification, interop, whitepaper, testasserrions	Y	Y	N	N	Y	Value domain managed by TC Admin. Limited ArtifactType is earlier in the URN.
Stage of artifact production process, or maturity level	Stage	here, TC Admin	TC Admin with TC	Alphanumeric		Y	Y	Y	O	Y	
Descriptive Name of the Artifact	DescriptiveName	TC	TC	Alphanumeric	ContextMobileOneFactor Unreg	Y	O	O	Y-A	O	Used as an alternative.
Revision of the artifact	Revision	here	TC	Arabic numerals followed by Alphanumeric string "diffNN" where NN is a number indicating the Revision compared.	01, 2, 003, 17, 17diff16	Y	Y	Y	Y-A	N	Rigid format of (say) three digits with leading zeros? Schemas have an alternate name available without revision
Language (human) of the artifact	Lang	ISO 639	ISO 639	Lower case Alphanumeric	en, jp, fr	Y	Y*	N	N	N	Y* - yes if not "en"
Format of the artifact	Form	here, TC Admin	TC	Alphanumeric	xml, rtf, html, pdf, xhtml, xsd, sxw, doc, zip	N	N	N	Y	Y	Use "html" rather than "htm"
Date of the artifact	Date	Here	TC	Digits	20050413	Y	N	N	N	N	YYYYMMDD

681

*Alphanumeric The restricted set of lower and upper case Latin alphabet letters and digits. Avoids [RFC 3986] reserved characters.

682

683

A.2 Examples

These examples are selected and identified from the OASIS Standards page at <http://www.oasis-open.org/specs/index.php>. These examples use the apparent **Product** name, but are not intended to usurp the authority of the **TC Administrator** to determine these **Product** names:

Name of OASIS Standard	Example Artifact Identifier or Filename	Notes
Security Assertion Markup Language (SAML) v2.0	saml-v2.0-spec-os.zip	Grouped artifacts in a single ZIP archive
Universal Description, Discovery and Integration v3.0.2 (UDDI)	uddi-v3.0.3-spec-cd	Identified as a Committee Draft in the OASIS Standard link target. Should there be a revision of the CD? Could/should revision be permitted to be a date?
Web Services Security v1.0 (WS-Security 2004) [OASIS 200401]	wss-v1.0-SOAPmessageSecurity-spec-os.pdf	Optional part used for wss
Web Services for Remote Portlets (WSRP) v1.0 [OASIS 200304]	wsrp-v1.0-spec-os.pdf	Link on OASIS Standards page is to the PDF, although it is misidentified in the artifact as a Word version.
Schema for SAML 2.0 – Authentication Context, Mobile One Factor	MobileOneFactorUnreg.xsd	Classification is for example purposes only; the schemas for SAML 2.0 are (roughly) in the categories authn-context, dce, ecp, metadata, protocol, and so forth, but only authn-context has more than one entry. I took AuthnContext as a Part , the TC may differ.
Schema for SAML 2.0 – protocol	protocolSchema.xsd	A different approach; again, the TC may differ.

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Appendix D. Revision History

Revision	Date	By whom	What
WD 01	12 Sep 2003	Tim Moses	Initial draft
WD 02	10 Oct 2003	Tim Moses	Introduced the product component. Introduced the urn convention. Introduced the hyperlink prefix .
WD 03	1 Mar 2004	Tim Moses	Incorporated comments from Eduardo
WD 04	4 Apr 2004	Tim Moses	Incorporated decisions of the TAB meeting on 2 April 2004.
WD 05	9 Jul 2004	William Cox	Incorporated comments from TAB email and discussion, prior to broader publication within OASIS.
WD 06	9 July 2004	Chris Ferris	Why are we calling these things "objects". That term carries way too much baggage. Artifact or document would be preferable, Also added in some editorial tweaks. Name change for document. Should it go back to WD1?
WD 07	23 September 2004	William Cox, Tim Moses, Chris Ferris	Added extensive examples. Added a context-free grammar and ensured that the grammar and document were reasonably consistent. Changed all occurrences of "document" to "artifact." Numerous editorial clarifications and changes.
WD 08	4 October 2004	William Cox	Pulled URN section pending update. Updated Introduction and the document as a whole for recirculation to the Chairs list. Added note about anticipated effective date. Alas, the editorial changes are so pervasive that a diffmarked version with respect to WD 06 is not very useful.
WD 09	21 October 2004	William Cox, Eduardo Gutentag	Reintegrated updated/corrected URN section, minor editorial corrections. Pulled applicability requirements into a separate normative section.
WD 10	14 April 2005	William Cox	Rewrote and restructured addressing multiple comments from OASIS staff and others. Added summary table to Appendix. Still needs validation of examples and update of grammar.

WD 11	25 April 2005	Mary McRae	Transferred to new template; reflected comments and open issues from TAB meeting in New Orleans
WD 12	1 June 2005	William Cox	Integrated comments, updated, numerous editorial changes. Annotated remaining issues.
WD 13	7 June 2005	William Cox	Comments from June 4 CSC meeting. Created separate issue list for Public Review, continued to identify and correct issues with the text. Added DescriptiveName to disambiguate multiple artifacts of the same type and otherwise identical metadata. For internal review (QSC, OASIS Staff, selected TCs) before public review.
WD 14	23 June 2005	William Cox	Comments from TAB, Staff, additional clarifications.
WD15	30 June 2005	William Cox	Update for general membership review; added note that the persistent URLs at the head are not active, instructions for submitting comments, and separately updated the review questions. Other content is unchanged.