



Artifact Standard Identification Scheme for Metadata 1.0

Approved TAB Document 30 January 2006

Artifact Identifier:

ArtifactStandardIdentificationSchemeForMetadata-1.0.1-req-approved

Location:

Note that the URIs in this section and specified in this document are not active.

Current: <http://docs.oasis-open.org/oasis/ArtifactIdentificationSchemeForMetadata/latest>

This Version: <http://docs.oasis-open.org/oasis/ArtifactIdentificationSchemeForMetadata/v1.0>

Previous Version: <http://www.oasis-open.org/spectools/docs/chairs-filenaming-02.html>

Artifact Type:

requirements

Technical Committee:

OASIS Technical Advisory Board

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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, the scheme for naming artifacts, namespace and naming schemes, and the definition of persistent URIs for OASIS artifacts.

Status:

This is an approved TAB Document.

While this document is written as a set of requirements, the use of this document is recommended and not mandated. After the second General Membership review in February 2006, we expect that the OASIS Technical Advisory Board will approve a future version as a contribution to ongoing OASIS policy discussions.

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41 Intellectual Property Rights section of the Technical Committee web page ([www.oasis-](http://www.oasis-open.org/committees/tab/ipr.php)
42 [open.org/committees/tab/ipr.php](http://www.oasis-open.org/committees/tab/ipr.php)).
43 The non-normative errata page for this specification is located at [open.org/committees/tab](http://www.oasis-
44 <a href=).
45

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1 Introduction (Non-Normative)

While this document is written as a set of requirements, the use of this document is recommended and not mandated. After the second General Membership review in February 2006, we expect that the OASIS Technical Advisory Board will approve a future version as a contribution to ongoing OASIS policy discussions.

OASIS recognizes the need to establish a set of Requirements for defining and consistently using a minimum required set of metadata for OASIS artifacts, and for naming artifacts such as requirements documents, prose specifications, schema definitions, attribute identifiers, profile identifiers, and others that are produced by OASIS technical committees (TCs). This document describes the scheme and its applicability.

Metadata is embedded in artifacts where practicable; a document management system should allow metadata-based searches and indexing in the future.

Certain OASIS artifact metadata is optionally included in artifact names. This allows unambiguous and consistent naming across all OASIS activities for visible versions of artifacts. This visibility of metadata in the name is intentional and permits the use of a variety of technologies for accessing and working with the contents of OASIS archives. TC-defined unambiguous and descriptive names are also permitted, if approved by the OASIS **TC Administrator**.

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

Working Drafts of this scheme were sent to the OASIS Chairs mailing list and to OASIS Staff for comment and discussion, and subsequently for review to the OASIS-member-discuss mailing list. This document incorporates and addresses comments from the Chairs list members, the OASIS TAB, OASIS Staff, OASIS membership, and other sources. We acknowledge and thank all of the reviewers for their comments and suggestions.

Since artifact metadata is generally available in multiple ways, it is not necessary to include all required metadata in the artifact name (which is also usually the final component of the URI for the artifact); we have tried to keep a balance between unambiguous names and names with too much metadata in them.

In the future this scheme will be extended to use Internationalized Resource Identifiers [**RFC 3987**]; the present document does not.

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

Per Section 2, these guidelines will be effective as and when announced by the OASIS TC Administrator. The TC Administrator will issue policy statements based on this scheme.

1.1 Terminology

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 [**RFC 2119**].

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

We identify the value domain for components with *Italic* text with initial (and perhaps internal) capitalization, and the value within the respective domains with 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*
170 *Requirement Levels*. IETF (Internet Engineering Task Force).
171 <http://www.ietf.org/rfc/rfc2119.txt?number=2119>, March 1997.
- 172 **[RFC 2141]** R. Moats. Request for Comments 2141, *URN Syntax*,
173 <http://www.ietf.org/rfc/rfc2141.txt?number=2141>, May 1997.
- 174 **[RFC 3121]** K. Best, N. Walsh. Request For Comments 3121, *A URN Namespace for OASIS*,
175 <http://www.ietf.org/rfc/rfc3121.txt?number=3121>, June 2001.
- 176 **[RFC 3986]** T. Berners-Lee, R. Fielding, L. Masinter. Request For Comments 3986, *Uniform*
177 *Resource Identifier (URI): Generic Syntax*,
178 <http://www.ietf.org/rfc/rfc3986.txt?number=3986>, January 2005.
- 179 **[RFC 3987]** M. Duerst, M. Suignard. Request For Comments 3987, *Internationalized*
180 *Resource Identifiers (IRIs)*, <http://www.ietf.org/rfc/rfc3987.txt?number=3987>,
181 January 2005.
182

183 1.3 Non-Normative References

- 184 **[Proposed Naming]**
- 185 E. Maler, Editor. *Proposed Rules for OASIS Document File Naming Working*
186 *Draft 02*, <http://www.oasis-open.org/spectools/docs/chairs-filenaming-02.html>,
187 February 2003.
- 188 **[ISO 8859-1]** ISO/IEC 8859-1:1998 *Information technology—8-bit single-byte coded graphic*
189 *character sets—Part 1: Latin alphabet No. 1* [Latin 1 Character Set], 1998. The
190 **[ECMA-6]** normative reference is to the so-called ASCII subset (ANSI_X3.4-
191 1968) of **[ISO 8859-1]**.
- 192 **[RDDL 1]** *Resource Directory Description Language (RDDL)*, <http://www.rddl.org>, February
193 18, 2002.
- 194 **[RDDL 2]** Working Draft, *Resource Directory Description Language (RDDL) 2.0*,
195 <http://www.openhealth.org/RDDL/20040118/rddl-20040118.html>, January 18,
196 2004.
- 197 **[RFC 3120]** K. Best, N. Walsh. Request For Comments 3120, *A URN Namespace for*
198 *XML.org*, <http://www.ietf.org/rfc/rfc3120.txt?number=3120>, June 2001.
- 199 **[XML NS 1.0]** World Wide Web Consortium Recommendation, *Namespaces in XML*,
200 <http://www.w3.org/TR/REC-xml-names/> and [http://www.w3.org/XML/xml-names-
201 19990114-errata](http://www.w3.org/XML/xml-names-19990114-errata), 14 January 1999,
- 202 **[XML NS 1.1]** World Wide Web Consortium Recommendation, *Namespaces in XML 1.1*,
203 <http://www.w3.org/TR/REC-xml-names11/> and [http://www.w3.org/XML/xml-
204 names11-errata](http://www.w3.org/XML/xml-names11-errata), 2004.
205

206 2 Applicability (Normative)

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

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

213 TCs MUST follow these Requirements for the naming of artifacts.

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

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

221 3 Definitions (Normative)

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

224 3.1 General Definitions (Normative)

225 **Artifact**

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

230 **Artifact Identifier**

231 A string used to uniquely identify a particular *artifact*. These Requirements describe how to
232 construct and (indirectly) how to parse *artifact identifiers*. An *Artifact Identifier* is also a name
233 for an *Artifact*.

234 **Artifact Name**

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

237 **Filename**

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

239 **Name Component**

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

241 **Persistent http URIs**

242 An http scheme URI references a particular OASIS artifact or set of artifacts that will resolve to a
243 particular object; the object referenced will remain immutable over time (except for the *latest* sub
244 tree in section 7.5), and the URI will consistently reference the same artifact or set of artifacts
245 over time. A URI (URL or URN) is not an *Artifact* for purposes of this metadata and naming
246 scheme.

247 **Required Metadata**

248 The set of metadata values required by this document.

249 **Structured Name**

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

251 **[OASIS] TC Administrator**

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

253 3.2 Metadata Definitions (Normative)

254 **Artifact Type**

255 The type of the *Artifact*. The following abbreviations SHALL be used:

- 256 – Catalog – “catalog” (This refers to SGML/XML catalogs used for entity resolution)
- 257 – Conformance criteria – “conform”
- 258 – Conformance tests – “conftest”
- 259 – Errata – “errata”
- 260 – Guidelines – “guidelines”

- 261 – Interoperability-related – “interop”
 - 262 – Profile – “profile”
 - 263 – Requirements – “req”
 - 264 – Schema – “schema”
 - 265 – Prose Specification – “spec”
 - 266 – Test Assertions – “testassertions”
 - 267 – White paper – “wp”
 - 268 – Web Services Description/Definition Language artifacts – “wsdl”
- 269 Note that this list is not exhaustive. Oftentimes, committees will have to define their own special-
 270 purpose Artifacts. It is recommended that artifact type identifiers be either well-accepted
 271 abbreviations (e.g. “spec”) or the full spelling. The **TC Administrator** MUST approve Artifact
 272 Type identifiers not specified in these Requirements.

273 **Copyright**

274 The copyright holder(s).

275 **Date**

276 The date of the artifact, in the format YYYYMMDD.

277 **Editor**

278 The name or names of the editor(s) of the artifact.

279 **Form**

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

283 For example, when submitting a Public Review package, the specification(s) must be provided in
 284 both Adobe Acrobat (pdf) and HTML **forms** as required by [OASIS TCP].

285 **Language**

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

290 **OASIS Defined Name**

291 A name defined using components separated by hyphens as specified in Section 5.

292 **Product**

293 The **TC Administrator**-approved proper name (or the official, **TC Administrator**-approved
 294 abbreviation) of a significant body of work undertaken by a TC. Some current OASIS Products
 295 are “saml”, “wsrp”, and “wss”.

296 **ProductVersion**

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

304 **Revision**

305 The development stage of an artifact (except an OASIS Standard) designated by a two-digit
 306 number to distinguish various drafts under TC development. Revisions SHALL be numbered

307 starting at one and increase monotonically. A **Revision** MAY have “diffNN” appended to indicate
308 difference marks or other change indications with respect to Revision NN of the same artifact

309 **Stage**

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

311 The following abbreviations SHALL be used:

- 312 – Working Draft – wd
- 313 – Committee Draft – cd
- 314 – Public Review Draft – pr
- 315 – Committee Specification – cs
- 316 – OASIS Standard – os

317 **TC defined Name**

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

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

327 `mobileonefactor-unreg.xsd`

328 `mobiletwofactor-reg.xsd`

329 `pgp.xsd` and

330 `timesync.xsd`

331 A **TCdefinedName** must be in the appropriate character set; requirements are in Section 5.2
332 Character Sets for Artifact Identifiers. In the absence of an **OASISdefinedName** for certain
333 artifacts only a **TCdefinedName** is used.

334 **TC Short Name**

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

337 4 Required Metadata for Artifacts (Normative)

338 The Required Metadata that must be associated with an OASIS artifact is specified in this section.
339 Detailed guidelines on the content and format are in the following sections. A summary table is in
340 Appendix C.

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

343 Each artifact **MUST** have the following metadata defined by the Technical Committee, subject to approval
344 by the **TC Administrator**.

345 The metadata listed **SHALL** be included in the artifact when practicable.

346 Selected metadata **SHALL** be included in the name of the artifact pursuant to the related separate
347 documents.

348 The Technical Committee **MAY** define additional metadata for its artifacts, provided those metadata
349 names and values are approved by the **TC Administrator**.

350 The following metadata **MUST** be associated with each **Artifact**:

<i>Metadata</i>
Artifact Identifier
OASIS Defined Name
TC Short Name
Product
Product Version
Artifact Type
Stage
Revision
Language
Date
Editor
Copyright

351
352 The OASIS Document Templates for text specifications **SHALL** be updated to include the metadata in
353 consistent tabular form for all prose specifications.

354 Each artifact **MUST** have an associated string value for the **ArtifactIdentifier** as described in these
355 guidelines and as approved by the **TC Administrator**:

356 `artifactIdentifier: [OASISdefinedName | TCdefinedName]`

357 Each artifact **MUST** have an associated string value for the **OASISdefinedName** for the artifact. In some
358 cases this will be the same as the **ArtifactIdentifier**.

359 `oasisDefinedName: [OASISdefinedName]`

360 Each artifact **MUST** have an associated string value for the Technical Committee Short Name as
361 assigned by the **TC Administrator**.

362 `tc: [tcShortName]`

363 Each artifact MUST have an associated string value for **Product** as approved by the **TC Administrator**

364 `product:[product]`

365 Each artifact MUST have an associated string value for **ProductVersion**

366 `productVersion:[00[.00]]`

367 Each artifact MUST have an associated string value for **ArtifactType**

368 `artifactType:[catalog | conform | errata | guidelines | profile | req | schema`
369 `| spec | ...]`

370 Each specification, DTD, schema, or fragment artifact MUST have an associated string value for the
371 **Stage** of the artifact.

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

373 Each artifact MUST have an associated string value for the **Revision** of the artifact.

374 `revision:[r00]`

375 `revision:[r00]diff[00]`

376 Each artifact MUST have an associated string value for the **Language** of the artifact.

377 `Language:[en | fr | ...]`

378 Each artifact MUST have an associated string value for the **Date** of the artifact.

379 `date:[00000000] (* format YYYYMMDD *)`

380 Each artifact MUST have an associated string value for the **Editor** or editors of the artifact.

381 `editor:[name(s) of editor(s)]`

382 Each artifact MUST have an associated string value for the **Form** of the artifact.

383 `form:[pdf | html | xhtml | ...]`

384 Each artifact MUST have an associated string value for the name of the copyright holder.

385 `copyright:[name(s) of copyright holder(s)]`

386

387 5 Artifact Identifiers (Normative)

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

391 5.1 Common conventions

392 This section contains guidelines that are common to *Artifact Identifiers* for *Artifacts* of all types.

393 Although this section may permit certain *Required Metadata* to be omitted from the *ArtifactIdentifier* for
394 particular *Artifact Types*, the *Required Metadata* MUST be associated with the *artifact* and as far as
395 practicable MUST be present inside the *artifact*.

396 *Artifact Identifiers* MUST be case-sensitive.

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

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

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

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

404 Hyphens MUST be used to separate the name components.

405 Where no requirement is imposed by these Requirements, it is RECOMMENDED to use mixed case to
406 render components more readable.

407 5.2 Character Set for Artifact Identifiers

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

411 Underscore MUST appear only as an interior character, neither beginning nor ending either an *Artifact*
412 *Identifier* or any of its components.

413 Components of the *Artifact Identifier* MUST NOT use hyphen. Hyphen MUST be used to separate
414 components except for separating *Form*, where period MUST be used.

415 The *Artifact Identifier* may be expressed in other encodings, e.g., UTF-16, using corresponding case
416 characters and special characters as appropriate.

417 The TC Administrator MUST approve any alternative representations.

418 In a future revision this requirement may be modified in light of the growing interest in IRIs as defined in
419 [RFC 3987].

420 5.3 Constructing Specific Artifact Identifiers

421 An *ArtifactIdentifier* MUST be either an *OASISdefinedName* or a *TCdefinedName*.

422 TCs SHOULD use an *OASISdefinedName* as defined in this section subject to approval by the *TC*
423 *Administrator*.

424 TCs MAY use a *TCdefinedNames* (which need not follow the rules for *OASISdefinedNames*) subject to
425 approval by the *TC Administrator*.

426 *TCdefinedNames* MUST conform to the character set requirements in Section 5.2.

427 The following format SHALL be used for *OASISdefinedNames*. This format includes selected metadata
428 in a consistent format; variations for specific purposes are described below:

429

product-productVersion-artifactType-stage-revision[-language].form

430 The literal hyphens in the **OASISdefinedName** are separators for the components. If a component is
431 optional there SHALL NOT be multiple adjoining hyphens. Note the literal period before **form**, and that
432 literal periods MAY be contained in **ProductVersion**.

433 The **tcShortName** is not included, as it can be determined uniquely from the **product**.

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

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

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

437 A value for **Stage** and the following hyphen separator MUST be included except in the following cases:

438 • when **ArtifactType** is `schema`

439 • when **ArtifactType** is `wsdl`

440 in which case a value for **Stage** MAY be omitted.

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

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

446 A value for **Form** SHALL be included for files and final URI components that resolve to a specific artifact,
447 and SHOULD NOT otherwise be present. Namespace URIs and URNs are discussed elsewhere.

448 A value for **TCdefinedName** MUST be included if the **OASISdefinedName** is not used.

449 A draft non-normative context-free grammar for **ArtifactIdentifiers** is in Appendix B. A summary table is in
450 Appendix C.

451 6 Filenames (Normative)

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

454 6.1 Character Set for Filenames

455 The **Filename** SHALL be exclusively in the [ECMA-6] character set, and SHALL use exclusively Latin
456 Capital Letters, Latin Small Letters, Digits, period (“Full Stop”), underscore (“Low Line”), and hyphen
457 (“Hyphen-Minus”).

458 Components of the **Filename** MUST NOT use hyphen. Hyphen MUST be used to separate components
459 except for separating **Form**, where period MUST be used.

460 The **Filename** MAY be additionally expressed in other encodings, e.g., UTF-16, using corresponding
461 case characters as appropriate.

462 The TC Administrator MUST approve any alternative representations.

463 In a future revision this requirement may be modified in light of the growing interest in IRIs as defined in
464 [RFC 3987].

465 6.2 Specification and other Prose Document Filenames

466 For each artifact that is a specification (or other prose document) associated with a single product, the
467 **OASISdefinedName** MUST contain the **name components** in the stated order, except that **language**
468 MAY be omitted:

- 469 • **product**
- 470 • **productVersion**
- 471 • **artifactType**
- 472 • **stage**
- 473 • **revision**
- 474 • **language**, and
- 475 • **form**

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

478 `[product] -[productVersion] -[artifactType]-[stage] -[revision] [-language].[form]`

479 Note that the **ArtifactIdentifier** MAY be a **TCdefinedName** drawn from the same character set.

480 The filename MUST be the **ArtifactIdentifier** followed by the optional literal period and **form**

481 6.3 Other Artifact Filenames

482 The filename MUST bear a reasonable and descriptive relationship to the document title.

483 **OASISdefinedNames** SHOULD be used for **filenames** for other artifacts.

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

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

488 For other artifacts, the TC has a great deal of flexibility in assigning names, but MAY optionally include
489 some of the **name components** for **OASISdefinedNames**. See Appendix C.

490 6.4 Additional Requirements for Specific Filenames

491 6.4.1 Default Web Pages for Product URIs

492 The relevant **required metadata** for an artifact MUST be maintained at the default index page for the http
493 scheme URI for each **product** and **productVersion** to facilitate search and retrieval.

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

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

```
496 <meta name="tcShortName" content="[tcShortName]"/>  
497
```

498 For example

```
499 <meta name="tcShortName" content="wsrp"/>
```

500 6.4.2 XHTML, HTML, SGML, and XML Filetypes

501 For XHTML and HTML artifacts, a `meta` element is part of the vocabulary to which element attribute
502 name-value pairs for the **Required Metadata** are attached. There are minor differences in syntax
503 between HTML4, XHTML 1, and later versions of XHTML.

504 For each artifact consisting of structured markup, **Required Metadata** MUST be included in an XHTML-
505 compliant or HTML-compliant `meta` element where one is defined in the standard vocabulary.

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

507 For example

```
508 <meta name="tcShortName" content="wsrp"/>
```

509 For each artifact containing structured markup where a standard XHTML-compliant `meta` element is not
510 part of its standard vocabulary, **Required Metadata** MUST be placed as a comment within the content of
511 the file where possible:

```
512 <!-- meta tcShortName="[tcShortName]" product="[product]" version="[version]"  
513 ArtifactIdentifier="[OASISdefinedName | TCdefinedName]" -->.
```

515 The **TC Administrator** will determine how **Required Metadata** is to be expressed for structured markup.

516 6.4.3 Adobe PDF, Microsoft Word and OpenDocument Filetypes

517 Artifacts whose **form** is Adobe PDF, Microsoft Word, or the OpenDocument Text **forms** MUST include
518 the Required Metadata values on their cover page as defined in OASIS-supplied templates.

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

520 The filename MUST be the **ArtifactIdentifier** followed by the optional literal period and **form**

521 Where an interpreting application allows metadata or key words, the artifact identifier and the metadata
522 values SHALL be identified as keywords and/or document metadata visible to that interpreting
523 application.

524 6.4.4 Other Word Processing or Desktop Publishing Filetypes

525 Artifacts of **forms** other than those specified in the preceding sections MUST conform to OASIS-supplied
526 templates if they exist, and MUST contain the Required Metadata values on their cover page.

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

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

529 The filename MUST be the **ArtifactIdentifier** followed by the optional literal period and **form**

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

532 **6.4.5 Other Binary File types**

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

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

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

538 7 Uniform Resource Names and Namespaces 539 (Normative)

540 7.1 Application of RFC 3121

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

543 The terminology and expression of URN components in [RFC 3121] is not completely consistent with this
544 document; please note that the [RFC3121] `specification-id` and `document-id` contain hyphens.
545 We attempt to limit confusion by using those terms exactly as in [RFC3121] as issued.

546 In the event that a TC chooses to use a URN as an additional identifier that URN MUST follow [RFC
547 3121], which specifies a **prefix**:

```
548 urn:oasis:names:
```

549 followed by two variations:

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

551 or

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

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

555 `document-id` is the only component of the URN not specified by [RFC 3121] or by the **TC**
556 **Administrator**; appropriate values are defined in this section.

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

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

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

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

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

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

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

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

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

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

579 Form One (with the TC identified with the Product) should be deprecated in a future update to [RFC3121].
580 Form Two mirrors the definition of **Product** as used for the application of the OASIS IPR Policy [OASIS
581 IPR], but is used in [RFC 3121] only for OASIS Standards, and is inserted under
582 `oasis:names:specification`
583 Form Two should be extended beyond just OASIS Standards in a future update to [RFC3121].
584 The text of [RFC3121] explicitly commits OASIS to maintaining a capability to resolve OASIS URNs. This
585 approach seems to have fallen from favor; there appears to be no present or planned resolver capability
586 supported by OASIS.
587 OASIS SHOULD revise [RFC 3121] and [RFC 3120] to conform to these guidelines and to remove the
588 commitment to resolve OASIS URNs.
589 OASIS SHOULD inform potential users that they CAN NOT depend on the Name Resolution Section of
590 [RFC 3121].
591 OASIS **TC Administration** SHOULD insofar as possible enforce similar components and hierarchies in
592 the http and urn schemes to minimize conversion and maintenance expense, permitting OASIS URNs to
593 be resolvable at some future time.

594 7.2 Namespaces

595 OASIS namespace declarations pursuant to [XML NS 1.1] or [XML NS 1.0] MAY be defined as URIs
596 using the http scheme as an alternative to the URN form defined in Section 6.1.
597 Each OASIS namespace defined as an http scheme URI MAY resolve to a web page that either contains
598 a schema, a RDDL definition, or other browsable and well-defined data for implementing the namespace.
599 (Note that URNs need not be resolvable, and in some models even http scheme URIs for namespaces
600 need not be resolvable.)
601 OASIS namespace http scheme URIs are NOT REQUIRED to have the final component end in `.html`
602 due to the broad range of namespace conventions.¹
603 All OASIS-defined http scheme namespaces MUST use domain names owned by OASIS and as
604 approved from time to time by the **TC Administrator**.
605 It is RECOMMENDED that TCs define namespace URIs within the product URI space.²
606

¹ For example, one common convention lists an XML schema (`.xsd`) file, while others use RDDL definitions, and still others use an ordinary (x)html web page.

² We recognize that existing practice includes defining namespace URIs directly under the TC point in the URI/URN hierarchy. Note that packaging a product for submission as an OASIS standard requires including all files in a ZIP archive, which might be simpler if all related files are within a product hierarchy.

606 7.3 Other Namespaces and URNs

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

609 For example, for UDDI definitions that are not yet considered appropriate for the UDDI Global Business
610 Directory, a URN prefix of

```
611 urn:oasis:names:test:uddi
```

612 or

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

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

617 OASIS SHALL support temporary or test namespaces for each under its ***tcShortName*** with URNs with
618 prefix

```
619 urn:oasis:names:tc:[tcShortName]:test
```

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

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

623

624 8 Persistent URIs (Normative)

625 **Persistent http URIs** SHALL be maintained for each artifact contributed to or created by an OASIS
626 technical committee.

627 Legacy **persistent http URIs**, where they currently exist, MUST be supported and continue to resolve.

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

630 8.1 Base Domain For URIs

631 URIs created for all OASIS artifacts created by or pertaining to technical committees SHOULD be rooted
632 at the `docs` (third-level) domain on the `oasis-open.org` Internet domain, thus at the base
633 `docs.oasis-open.org`.

634 8.2 Technical Committee Tree

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

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

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

641 8.3 Type Identifiers

642 8.3.1 Products

643 A **Product** is a set of artifacts that pertains to a single topic and is a main output of a technical committee.

644 Each **Product** is assigned an identifying name by the TC Process Administrator. A separate subtree
645 MUST be created and maintained for each such specification set.

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

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

649 8.3.2 Profiles

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

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

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

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

656 8.3.3 Non Specification Track Documents

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

660 `docs.oasis-open.org/[tcShortName]/other`

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

664 The **TC Administrator** MAY define the default location in a manner consistent with the use of
665 **ArtifactTypes**, noting that there are additional **ArtifactTypes** defined in this document.

666 8.4 Specific Version Subtrees

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

669 `docs.oasis-open.org/[product]/[productVersion]`

670 An index page MUST be maintained at the default location (typically docs.oasis-
671 open.org/[tcShortName]/[product]/[productVersion]/index.php) that contains links listing all subtrees and
672 their contents.

673 `ProductVersion` is the character “v” followed by a digit and ending with a digit as defined in the
674 required metadata.

675 8.5 Latest Version Subtree

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

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

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

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

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

686

687 **Appendix A. Acknowledgements (Non-normative)**

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

690
691 **Participants:**
692 (participants who have not yet responded with corrections for name and affiliation are marked with an
693 asterisk)
694

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695 Appendix B. A Context-Free Grammar for 696 OASISdefinedNames (Non-Normative)

697 The following context-free grammar conforms to **[ISO 14977]**, also known as EBNF. This grammar is
698 incomplete and may contain errors. For simplicity with the underscore rules, it is assumed that
699 components and **TcdefinedNames** are at least three characters long.

700

701 ArtifactName = OASISdefinedName | TCdefinedName ;

702

703 TCdefinedName = NAMECHAR, {NAMECHAR | HYPHEN}
704 [PERIOD, Form]; (* used only for filenames *)

705

706 OASISdefinedName = NameForOASISstandard | NameForOtherArtifact;

707

708 NameForOASISstandard = Product,
709 HYPHEN, Version,
710 HYPHEN, ArtifactType,
711 HYPHEN, Stage,
712 [HYPHEN, Language], (* optional, defaults to 'en' *)
713 [PERIOD, Form]; (* used only for filenames *)

714

715 NameForOtherArtifact = Product,
716 HYPHEN, Version,
717 HYPHEN, ArtifactType,
718 HYPHEN, Stage,
719 HYPHEN, Revision,
720 [HYPHEN, Language], (* optional, defaults to 'en' *)
721 [PERIOD, Form]; (* used only for filenames *)

722

723 (* Name Component and Metadata Definitions *)

724 Owner = 'oasis' | TCshortName;

725

726 TCshortName = NAMECHAR, {NAMECHARPLUSUNDERSCORE | NAMECHAR};

727

728 Product = NAMECHAR, {NAMECHARPLUSUNDERSCORE | NAMECHAR}

729

730 Version = 'v', Major, {PERIOD, Minor}; (* allows e.g. v3.0.1, v2.2, v4 *)

731 Major = DIGIT, {DIGIT};

732 Minor = DIGIT, {DIGIT};

733

734 ArtifactType = 'catalog' | 'conform' | 'errata' | 'profile' | 'req' | 'schema' | 'spec'; (* plus others *)

735
736 Stage = 'wd' | 'cd' | 'pr' | 'cs' | 'os';
737
738 Revision = 2*{DIGIT}, ['diff' ('diff', 2*{DIGIT})];
739
740 Language = LOALPHA, LOALPHA; (* per **[ISO 639]** *)
741
742 Form = 'pdf' | 'xsd' | 'doc' | 'txt' | 'html' | 'xhtml' | 3*{LOALPHA} | 4*{LOALPHA};
743
744 (* Character Set and Character Names *)
745 NAMECHAR = LOALPHA | HIALPHA | DIGIT;
746 NAMECHARPLUSUNDERSCORE =NAMECHAR | UNDERSCORE
747
748 (* LATIN SMALL LETTER A through Z, codes 6/1 through 7/10 **[ECMA-6]** *)
749 LOALPHA = 'a' | 'b' | 'c' | 'd' | 'e' | 'f' | 'g' | 'h' | 'i' | 'j' | 'k' | 'l' | 'm' | 'n' | 'o' | 'p'
750 | 'q' | 'r' | 's' | 't' | 'u' | 'v' | 'w' | 'x' | 'y' | 'z';
751
752 (* LATIN CAPITAL LETTER A through Z, codes 4/1 through 5/10 **[ECMA-6]** *)
753 HIALPHA = 'A' | 'B' | 'C' | 'D' | 'E' | 'F' | 'G' | 'H' | 'I' | 'J' | 'K' | 'L' | 'M' | 'N' | 'O' | 'P'
754 | 'Q' | 'R' | 'S' | 'T' | 'U' | 'V' | 'W' | 'X' | 'Y' | 'Z';
755
756 (* DIGIT ZERO through DIGIT NINE, codes 3/0 through 3/9 **[ECMA-6]** *)
757 DIGIT = '0' | '1' | '2' | '3' | '4' | '5' | '6' | '7' | '8' | '9';
758
759 HYPHEN = '-'; (* HYPHEN-MINUS code 2/13 **[ECMA-6]** *)
760 PERIOD = '.'; (* FULL STOP code 2/14 **[ECMA-6]** *)
761 UNDERSCORE = "_"; (* LOW LINE code 5/15 **[ECMA-6]** *)
762

763

Appendix C. Summary Table of Components (Non-Normative)

764

765

766

767

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.

<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>
Identifier of the <i>artifact</i> (one of two forms)	<i>OASISdefinedName</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 additional period and number	SAML 1.0 is ProductVersion ="1.0"	Y	Y	Y	O	Y	Certain specs have numbers such as 3.0.2.
Type of the <i>Artifact</i>	<i>ArtifactType</i>	here, TC Admin	TC	Alphanumeric	schema, requirements, specification, interop, whitepaper, testassertions	Y	Y	N	N	Y	Value domain managed by TC Admin. Limited ArtifactType is earlier in the URN.

<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>
Stage of <i>artifact</i> production process, or maturity level	Stage	here, TC Admin	TC Admin with TC		Alphanumeric		Y	Y	Y	O	Y	
Name as defined by the TC	TCdefinedName	TC	TC		Alphanumeric	ContextMobileOneFactorUnreg	Y	O	O	Y-A	O	Used as an alternative to the OASISdefinedName .
Revision of the <i>artifact</i>	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	Schemas have an alternate name available without revision
Language (human) of the <i>artifact</i>	Lang	ISO 639	ISO 639		Lower case Alphanumeric	en, jp, fr	Y	Y*	N	N	N	Y* - yes if not "en"
Format of the <i>artifact</i>	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 <i>artifact</i>	Date	Here	TC		Digits	20050413	Y	N	N	N	N	YYYYMMDD

768

*Alphanumeric The restricted set of lower and upper case Latin alphabet letters and digits, including underscore as a possible interior character. Avoids [RFC 3986] reserved characters.

769

Appendix D. Revision History (Non-normative)

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 TCdefinedName 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 URIs at the head are not active, instructions for submitting comments, and separately updated the review questions. Other content is unchanged.
WD16	21 October 2005	William Cox	For TAB and staff re-review. Numerous changes. Incorporates all accepted changes (roughly 75) from Entity Resolution TC and Member Review. Tried splitting, but sections 5, 6, 7, and 8 would be only a few pages each with identical definitions, so kept it together.
WD17 and 1.0	7 December 2005	William Cox	Changes from detailed TAB review, staff update on file naming conventions and persistent URIs. Acknowledgements inserted. Removed examples (to be published separately by TC Administrator).
1.0.1	30 January 2006	William Cox	Updates for second general membership review. Inserted notes at head of document and in introduction to explain status.