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# **Process for Publishing XML Schema, XML Documents, and XSLT Stylesheets**

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## Process for publishing XML schema, XML documents and XSLT stylesheets

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## Foreword

59 The Process for publishing XML schema, XML documents, and XSLT stylesheets (DSP4009) was  
60 prepared by the Process and Incubation Committee of the DMTF.

61 DMTF is a not-for-profit association of industry members dedicated to promoting enterprise and systems  
62 management and interoperability.

63

## Introduction

64 This document describes the process the DMTF follows when publishing XML schema definitions, XML  
65 instance documents and XSLT stylesheets. The document also defines the format for URIs of XML  
66 namespaces used by published XML schema definitions and XML instance documents, and the  
67 publication location for these documents.



# 68 Process for Publishing XML Schema, XML Documents, and 69 XSLT Stylesheets

## 70 1 Normative References

71 The following referenced documents are indispensable for the application of this document. For dated or  
72 versioned references, only the edition cited (including any errata and amendments) applies. For undated  
73 and unversioned references, the latest edition of the referenced document (including any errata and  
74 amendments) applies.

75 DMTF DSP4004, DMTF Release Process 2.1,

76 [http://www.dmtf.org/standards/published\\_documents/DSP4004\\_2.1.pdf](http://www.dmtf.org/standards/published_documents/DSP4004_2.1.pdf)

77 IETF RFC3986: Uniform Resource Identifier (URI): Generic Syntax, January 2005,

78 <http://tools.ietf.org/html/rfc3986>

79 IETF RFC5234: Augmented BNF for Syntax Specifications: ABNF, January 2008,

80 <http://tools.ietf.org/html/rfc5234>

81 W3C: Namespaces in XML 1.0 (Second Edition), W3C Recommendation, August 16, 2006,

82 <http://www.w3.org/TR/2006/REC-xml-names-20060816/>

83 W3C: XML Schema Part 1: Structures, Second Edition, W3C Recommendation, October 28, 2004,

84 <http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/>

## 85 2 Terms and definitions

### 86 2.1 Terminology

87 The following terminology is used in this document.

- 88 • A *DMTF Group* is a DMTF Subcommittee or DMTF working group.
- 89 • A *CR* is a DMTF Change Request.

90 All terms defined in [DSP4004](#) apply to this document.

### 91 2.2 Usage of ABNF

92 Any formats in this document are specified using Augmented BNF (ABNF) as defined in [RFC5234](#) with  
93 the following additional rules:

- 94 • Rules separated by a vertical bar (|) represent choices, instead of using a slash (/) as defined in  
95 [RFC5234](#).

96 Note that [RFC5234](#) defines that any items in rules shall be concatenated without inserting any implicit  
97 whitespace characters between them, so any intended whitespace characters need to be specified  
98 explicitly in the ABNF syntax.

99 Note that [RFC5234](#) defines that any literal strings and rule names shall be treated case-insensitively.

### 100 3 URI Format for XML Namespaces

101 Any XML schema published by DMTF shall specify a target XML namespace whose URI has the format  
102 defined in this section.

#### 103 3.1 General URI Format

104 The format of the XML namespace URI shall be as follows:

105 `xml-namespace-uri = "http://schemas.dmtf.org/" schema-area area-specific`

106 Where:

107 `schema-area = segment`

108 `schema-area` is the name of a schema area within DMTF.

109 `area-specific = 1*( "/" ( segment | compatible-version ) )`

110 `area-specific` is the area-specific portion of the URI within a particular schema area.

111 `segment = 1*(lc-unreserved)`

112 `segment` is a segment between "/" delimiters that does not carry version information.

113 `compatible-version` is a compatible version as defined in subclause 3.3 (Versions in URIs)

114 `lc-unreserved` is any character from the `unreserved` set of characters defined in section 2.3

115 "Unreserved Characters" of [RFC3986](#) that is not an upper case letter. In other words,

116 `lc-unreserved` is any character in the set of lower case letters (a-z), digits (0-9),

117 hyphen (-), dot (.), underscore ( \_ ) and tilde (~).

118 Note that this URI format is a subset of the general URI format defined in [RFC3986](#).

#### 119 3.2 DMTF Groups and DMTF Alliance Partners define schema areas and area- 120 specific portions according to the process in clause 3.6 (Recommendations 121 for area-specific portion of new URIs

122 The area-specific portion of new XML namespace URIs should follow the recommendations in this  
123 subclause, in addition to the rules defined in clause 3 (URI Format for XML Namespaces).

124 The area-specific portion should consist of the minimal number of segments that express the desired  
125 hierarchy, without introducing any redundancy. For example, using both a DSP number and a name that  
126 corresponds directly to that DSP number should be avoided.

127 Usage of the DSP number of a DMTF published document should be avoided in XML namespace URIs.  
128 Instead, names should be assigned for the segments by the working group. Note that this rule only  
129 applies to XML namespace URIs, as defined in clause 3 (URI Format for XML Namespaces). The URLs  
130 used to publish DMTF documents may contain DSP numbers of DMTF published documents.

131 Segments that represent specifications or directly correspond to specifications should be followed with a  
132 version that expresses the version of the specification. Specifications in this sense are:

- 133 • The CIM Schema
- 134 • Any DSP numbered document
- 135 • Any specification not owned by the DMTF

136 Example for the complete XML namespace URI:

137 `http://schemas.dmtf.org/wbem/messageregistry/1`



138 Process for Registration).

139 The DMTF Groups and DMTF Alliance Partners are responsible for defining the structure of the area-  
140 specific portion of the URI for any of their schema areas. DMTF Groups and DMTF Alliance Partners may  
141 structure the area-specific portion of the URI along one or more levels of hierarchy, where each segment  
142 represents one level of hierarchy. DMTF Groups and DMTF Alliance Partners should follow the  
143 recommendations in subclause 3.6 (Recommendations for area-specific portion of new URIs) when  
144 defining the structure of the area-specific portion of the URI for any of their schema areas.

145 The URI and any (resolvable) URLs shall be published in all lower case. Note that some parts of a URI  
146 are case sensitive while others are case insensitive, as defined in section 6.2.2.1 "Case Normalization" of  
147 [RFC3986](#).

### 148 3.3 Versions in URIs

149 This document defines three kinds of versions for usage in the XML namespace URIs and publishing  
150 URIs defined in this document:

- 151 • **compatible version** - the major version of a DMTF specification as defined in [DSP4004](#) (i.e.  
152 "m"):

153 `compatible-version = number`

- 154 • **major and minor version** - the major and minor version of a DMTF specification as defined in  
155 [DSP4004](#) (i.e. "m.n"):

156 `majorminor-version = number "." number`

- 157 • **specific version** - the full version of a DMTF specification as defined in [DSP4004](#), without any  
158 draft letters (i.e. "m.n.u"):

159 `specific-version = number "." number "." number`

- 160 • **other version** – any other version. This option should not be used for reference to versions of  
161 DMTF specifications and is provided in order to version specifications not owned by the DMTF.

162 Where:

163 `number` is a non-negative whole number in its decimal representation, without any leading zeros  
164 and without a plus (+) sign.

165 As defined in the ABNF syntax in subclause 3.1 (General URI Format), an XML namespace URI may  
166 contain multiple compatible versions. An example for an XML namespace URI with multiple versions is  
167 the class namespace in the *WS-CIM Mapping Specification* ([DSP0230](#)) which uses a compatible version  
168 for the DSP0230 specification itself, and a compatible version for the CIM Schema.

### 169 3.4 Schema areas

### 170 3.5 Schema areas and their area-specific parts shall be registered (updates and 171 additions) in the XML Namespace Registry using the process defined in 172 clause 3 (Recommendations for area-specific portion of new URIs

173 The area-specific portion of new XML namespace URIs should follow the recommendations in this  
174 subclause, in addition to the rules defined in clause 3 (URI Format for XML Namespaces).

175 The area-specific portion should consist of the minimal number of segments that express the desired  
176 hierarchy, without introducing any redundancy. For example, using both a DSP number and a name that  
177 corresponds directly to that DSP number should be avoided.

178 Usage of the DSP number of a DMTF published document should be avoided in XML namespace URIs.  
179 Instead, names should be assigned for the segments by the working group. Note that this rule only

## Process for publishing XML schema, XML documents and XSLT stylesheets

180 applies to XML namespace URIs, as defined in clause 3 (URI Format for XML Namespaces). The URLs  
181 used to publish DMTF documents may contain DSP numbers of DMTF published documents.

182 Segments that represent specifications or directly correspond to specifications should be followed with a  
183 version that expresses the version of the specification. Specifications in this sense are:

- 184 • The CIM Schema
- 185 • Any DSP numbered document
- 186 • Any specification not owned by the DMTF

187 Example for the complete XML namespace URI:

188 `http://schemas.dmtf.org/wbem/messageregistry/1`

189 Process for Registration).

190 The specifics of the definition of a schema area and its area-specific parts are authoritatively owned by  
191 the DMTF group (working group or sub-committee) listed as the owner of the schema area in the  
192 registration change request. In the event that the specific DMTF owner group is not active, the parent of  
193 that group shall be considered the owner.

### 194 **3.6 Recommendations for area-specific portion of new URIs**

195 The area-specific portion of new XML namespace URIs should follow the recommendations in this  
196 subclause, in addition to the rules defined in clause 3 (URI Format for XML Namespaces).

197 The area-specific portion should consist of the minimal number of segments that express the desired  
198 hierarchy, without introducing any redundancy. For example, using both a DSP number and a name that  
199 corresponds directly to that DSP number should be avoided.

200 Usage of the DSP number of a DMTF published document should be avoided in XML namespace URIs.  
201 Instead, names should be assigned for the segments by the working group. Note that this rule only  
202 applies to XML namespace URIs, as defined in clause 3 (URI Format for XML Namespaces). The URLs  
203 used to publish DMTF documents may contain DSP numbers of DMTF published documents.

204 Segments that represent specifications or directly correspond to specifications should be followed with a  
205 version that expresses the version of the specification. Specifications in this sense are:

- 206 • The CIM Schema
- 207 • Any DSP numbered document
- 208 • Any specification not owned by the DMTF

209 Example for the complete XML namespace URI:

210 `http://schemas.dmtf.org/wbem/messageregistry/1`

## 211 **4 Process for Registration**

212 Schema areas may be registered with or without area-specific parts. Area-specific parts may be added  
213 later to schema areas. Area-specific parts may extend existing area-specific parts.

### 214 **4.1 Process for Schema Areas**

#### 215 **4.1.1 Rules**

- 216 • The form shall only be submitted by DMTF Chairs and DMTF Alliance Partners Liaisons.
- 217 • The form shall be used to establish or update a URI for an XML schema namespace by
- 218 the owning group
- 219

220 **4.1.2 Steps**

221

222 The steps are broken into two sections. The steps required by the DMTF Group/Alliance Partner  
223 submitting the request and the DMTF TC handling the request.

224

225 **4.1.2.1 DMTF Group**

226

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229

1. A DMTF Group shall fill out the XML Namespace Ownership Request Form, .
2. Once approved by the DMTF Group, that DMTF Group chair shall create a CR with the contents of the form and submit using the standard CR process.

230 **4.1.2.2 DMTF Alliance Partner**

231

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234

1. A DMTF Alliance partner shall fill out the XML Namespace Ownership Request Form, create a CR with the contents of the form, and submit it to the DMTF VP of Technology at [vp-technology@dmf.org](mailto:vp-technology@dmf.org)
2. The DMTF VP of Technology will have the DMTF TC ballot the request.

235 **4.1.2.3 DMTF TC Secretary**

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1. Prior to opening of a ballot at the DMTF TC, the DMTF TC secretary shall do the following:
  - Review the form for completeness/correctness. If not correct, the form/CR shall be sent back to the submitter to correct and restart the process.
  - Forward the CR to the [tc-all@dmf.org](mailto:tc-all@dmf.org) alias. This will inform all working group members that the form has been submitted to the DMTF TC and will be balloted within two DMTF TC meetings.
  - Announce the CR at the first available DMTF TC meeting and create a ballot to be voted on for the next available DMTF TC meeting.
2. If the ballot does not pass, the DMTF Secretary shall take the following steps
  - Inform the submitter that it failed and for what reasons.
  - The process ends at this point. The submitter may resubmit an updated or new form to restart the process.
3. If the ballot passes, the DMTF TC Secretary shall take the following steps
  - Add the URI for the XML Schema namespace and corresponding descriptive elements to the XML Namespace Registry.

254 **4.2 Process for “area-specific” areas**

255 **4.2.1 Rules**

256

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260

1. A DMTF Group shall fill out the XML Namespace Ownership Request Form. Once approved by the DMTF Group, the DMTF Group Chair shall send the completed form to the DMTF VP of Technology.
2. A DMTF Alliance Partner shall fill out the XML Namespace Ownership Request Form and send the completed form to the DMTF VP of Technology.

261 **4.3 Form**

262

TO	DMTF VP of Technology
FROM	{DMTF Group or DMTF Alliance Partner Member}
GROUP	{DMTF Group or DMTF Alliance Partner Organization Name}

263 Justification: {indicates the purpose of the request and related specification work}

264 Schema area name:

265 `schema-area = {ABNF defining the schema area production that conforms to`  
 266 `the general syntax defined in DSP4009}`

267 Structure of area-specific portion. The area-specific portion shall have the following format:

268 `area-specific = {ABNF defining the area-specific production that`  
 269 `conforms to the general syntax defined in DSP4009}`

270

271 When the form is completed, it should be copied into a CR and submitted to the DMTF TC through the  
 272 chair of the owning DMTF group using the standard CR process.

273 **4.3.1 Example Form for Schema area "wbem"**

274

TO	DMTF VP of Technology
FROM	{Steve Hand, Infrastructure Subcommittee Chair}
GROUP	{Infrastructure SubCommittee}

275

276 Justification: For top level schemas used by WBEM protocols.

277 Schema area name:

278 `schema-area = "wbem"`

279 Structure of area-specific portion: The schema area "wbem" is divided into sub-areas. The area-specific  
 280 portion shall have the following format:

281 `area-specific = "/biosattributeregistry/" biosattributeregistry-format |`  
 282 `"/messageregistry/" messageregistry-format |`  
 283 `"/wscim/" wscim-format |`  
 284 `"/wsman/" wsman-format`

285 In the area-specific portion of this example, each area-specific item is composed of its area-specific name  
 286 and additional hierarchy of some number of segments and/or compatible version. For example, the  
 287 format of the URI for the area-specific portion "messageregistry" has the following format:

288 `messageregistry-format = dsp0228-version`

289 Where:

290 `dsp0228-version` is the version number of the *Message Registry XML Schema* ([DSP0228](#)),  
 291 as a compatible version.

292 Example of the messageregistry complete URI:

293 `http://schemas.dmtf.org/wbem/messageregistry/1`

294 A more complex example is the format of the URI for the area-specific portion "wscim" and can be found  
295 in the *WS-CIM Mapping Specification* ([DSP0230](#)).

## 296 5 Publishing XML Schemas

297 XML schemas published by DMTF shall use the W3C XML Schema approach defined in W3C: XML  
298 Schema Part 1: Structures (i.e. .xsd files) to define the schema.

299 XML schemas published by DMTF shall be of the following kinds:

300 1. Static XML schemas.

301 A static XML schema is an XML schema whose W3C XML Schema Definition is a DSP  
302 numbered document. An example for a static XML schema is the *Message Registry XML*  
303 *Schema* ([DSP0228](#)).

304 The release of static XML schemas shall follow the process for DMTF standards defined in the  
305 *DMTF Release Process* ([DSP4004](#)), using a file extension of ".xsd". For example:  
306 "DSP0228.xsd".

307 A static XML schema shall have a target XML namespace (e.g. defined using a  
308 /schema@targetnamespace attribute). The format of the URI identifying the target XML  
309 namespace of static XML schemas is defined in clause 3 (URI Format for XML Namespaces).

310 Publishing a static XML schema shall include publishing the following entities:

- 311 • Mandatory: The XML schema under a (resolvable) URL for the **specific version** of the  
312 XML schema, defined as follows:

313 static-schema-specific-publishing-url =  
314 xml-namespace-uri "/" dsp-number "\_" specific\_version ".xsd"

315 where:

316 xml-namespace-uri is the URI identifying the target XML namespace of the  
317 XML schema, as defined in clause 3 (URI Format for XML Namespaces).

318 dsp-number is the DSP number of the XML schema, in lower case (e.g.  
319 "dsp0228").

320 specific\_version is the specific version of the XML schema, as defined in  
321 3.3 (Versions in URIs) (e.g. "1.0.1").

322 Example for the complete publishing URL of the specific version, for an XML schema with  
323 version "1.0.1":

324 [http://schemas.dmtf.org/wbem/messageregistry/1/dsp0228\\_1.0.1.xsd](http://schemas.dmtf.org/wbem/messageregistry/1/dsp0228_1.0.1.xsd)

- 325 • Mandatory: The XML schema under a (resolvable) URL for the **latest update of a given**  
326 **major and minor version** of the XML schema, defined as follows:

327 static-schema-latest-majorminor-publishing-url =  
328 xml-namespace-uri "/" dsp-number "\_" majorminor\_version  
329 ".xsd"

330 where:

331 xml-namespace-uri is the URI identifying the target XML namespace of the  
332 XML schema, as defined in 3 (URI Format for XML Namespaces).

333 dsp-number is the DSP number of the XML schema, in lower case (e.g.  
334 "dsp0228").

335 majorminor\_version is the major and minor version of the XML schema, as  
336 defined in 3.3 (Versions in URIs) (e.g. "1.0").

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337 Example for the complete publishing URL of the latest update of a given major and minor  
338 version, for an XML schema with version "1.0.1":

339 `http://schemas.dmtf.org/wbem/messageregistry/1/dsp0228_1.0.xsd`

340 • Mandatory: The XML schema under a (resolvable) URL for the **latest update of a given**  
341 **compatible version** of the XML schema, defined as follows:

342 `static-schema-latest-compatible-publishing-url =`  
343 `xml-namespace-uri "/" dsp-number ".xsd"`

344 where:

345 `xml-namespace-uri` is the URI identifying the target XML namespace of the  
346 XML schema, as defined in 3 (URI Format for XML Namespaces).

347 `dsp-number` is the DSP number of the XML schema, in lower case (e.g.  
348 "dsp0228").

349 Note that the major version number is contained in the `xml-namespace-uri`, so it is not  
350 repeated in the last segment of the URL.

351 Example for the complete publishing URL of the latest update of a given compatible  
352 version, for an XML schema with version "1.0.1":

353 `http://schemas.dmtf.org/wbem/messageregistry/1/dsp0228.xsd`

354 • Optionally, a DSP numbered document that defines the usage of the XML schema is  
355 recommended to be published using the normal process for such documents. Such  
356 documents shall not show the XML schema or pieces thereof in a normative way, but  
357 they may show pieces of the XML schema in (non-normative) examples.

358 A separate DSP numbered document containing an HTML or other text formatted version created  
359 from the static XML schema is not recommended to be published in addition, since it does not  
360 provide any information in addition to the .xsd file.

### 361 2. Dynamic XML schemas.

362 A dynamic XML schema is an XML schema for which a DSP numbered document normatively  
363 defines (e.g. using prose text) how to create the XML schema or schemas (i.e. the .xsd files) from  
364 some input information. The .xsd files themselves shall not be DSP numbered documents.

365 A dynamic XML schema may contain .xsd files that are not created from some input information  
366 (i.e. fixed).

367 An example of a dynamic XML schema is the *WS-CIM Mapping Specification* ([DSP0230](#)) which  
368 uses the CIM Schema as input information, and also has some fixed .xsd files such as  
369 `common.xsd`.

370 The release of any DSP numbered documents related to dynamic XML schema shall follow the  
371 process for DMTF standards defined in the *DMTF Release Process* ([DSP4004](#)).

372 The release of the .xsd files conforming to these DSP numbered documents shall follow the  
373 process for the CIM Schema defined in the *DMTF Release Process* ([DSP4004](#)) (since the CIM  
374 Schema is the only kind of input information).

375 The format of the URI identifying the target XML namespace of dynamic XML schemas is defined  
376 in clause 3 (URI Format for XML Namespaces).

377 Publishing dynamic XML schemas includes publishing the following entities:

- 378 • Mandatory: The content of each .xsd file (i.e. the XML schema) under a (resolvable) URL  
379 that is defined in the DSP numbered document defining how to create the XML schemas.
- 380 • Mandatory: One or more DSP numbered documents which normatively define (e.g. using  
381 prose text) how to create the XML schemas from some input information.

## 382 6 Publishing XML Instance Documents

383 Publishing XML instance documents requires that the corresponding XML schema is publicly accessible,  
 384 either as a result of publishing an XML schema owned by DMTF as defined in clause 5 (Publishing XML  
 385 Schemas), or because an XML schema not owned by DMTF is publicly accessible.

386 If that XML schema is owned by DMTF, it shall be static.

387 Even though XML schemas and XSLT stylesheets can be considered XML instance documents  
 388 themselves, this clause does not apply to XML schemas or XSLT stylesheets.

389 The XML instance document (i.e. the .xml file) shall be a DSP numbered document. An example is the  
 390 *WBEM Operations Message Registry* ([DSP8016](#)).

391 The release of XML instance documents with a static XML schema shall follow the process for DMTF  
 392 standards defined in the *DMTF Release Process* ([DSP4004](#)), using a file extension of ".xml". For  
 393 example: "DSP8016.xml".

394 Publishing an XML instance document with a static XML schema shall include publishing the following  
 395 entities:

- 396 • Mandatory: The XML instance document under a (resolvable) URL for the **specific version** of the  
 397 XML instance document, defined as follows:

```
398 xml-instance-specific-publishing-url =  
399     xml-namespace-uri "/" dsp-number "_" specific-version ".xml"
```

400 where:

401 xml-namespace-uri is the URI identifying the target XML namespace of the XML  
 402 schema of the XML instance document, as defined in clause 3 (URI Format for  
 403 XML Namespaces).

404 dsp-number the DSP number of the XML instance document, in lower case (e.g.  
 405 "dsp8016").

406 specific-version is the specific version of the XML instance document, as defined  
 407 in 3.3 (Versions in URIs) (e.g. "1.0.1").

408 Example for the complete publishing URL of the specific version, for an XML instance document  
 409 with version "1.0.1":

```
410 http://schemas.dmtf.org/wbem/messageregistry/1/dsp8016_1.0.1.xml
```

- 411 • Mandatory: The XML instance document under a (resolvable) URL for the **latest update of a**  
 412 **given major and minor version** of the XML instance document, defined as follows:

```
413 xml-instance-latest-majorminor-publishing-url =  
414     xml-namespace-uri "/" dsp-number "_" majorminor-version ".xml"
```

415 where:

416 xml-namespace-uri is the URI identifying the target XML namespace of the XML  
 417 schema of the XML instance document, as defined in clause 3 (URI Format for  
 418 XML Namespaces).

419 dsp-number the DSP number of the XML instance document, in lower case (e.g.  
 420 "dsp8016").

421 majorminor-version is the major and minor version of the XML instance document,  
 422 as defined in 3.3 (Versions in URIs) (e.g. "1.0").

423 Example for the complete publishing URL of the latest update of a given major and minor version,  
 424 for an XML instance document with version "1.0.1":

```
425 http://schemas.dmtf.org/wbem/messageregistry/1/dsp8016_1.0.xml
```

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- 426 • Mandatory: The XML instance document under a (resolvable) URL for the **latest update of a**  
427 **given compatible version** of the XML instance document, defined as follows:

428 `xml-instance-latest-compatible-publishing-url =`

429 `xml-namespace-uri "/" dsp-number ".xml"`

430 where:

431 `xml-namespace-uri` is the URI identifying the target XML namespace of the XML  
432 schema of the XML instance document, as defined in 3 (URI Format for XML  
433 Namespaces).

434 `dsp-number` the DSP number of the XML instance document, in lower case (e.g.  
435 "dsp8016").

436 Note that the major version number is contained in the `xml-namespace-uri`, so it is not  
437 repeated in the last segment of the URL.

438 Example for the complete publishing URL of the latest update of a given compatible version, for  
439 an XML instance document with version "1.0.1":

440 `http://schemas.dmtf.org/wbem/messageregistry/1/dsp8016.xml`

- 441 • Conditional: The XML schema itself as described in clause 5 (Publishing XML Schemas), if the  
442 XML schema is owned by DMTF.

## 443 7 Publishing XSLT Stylesheets

444 Each XSLT stylesheet published by DMTF shall be a DSP numbered document. An example is the  
445 *Message Registry Print List XSLT Stylesheet* ([DSP8000](#)).

446 The release of XSLT stylesheets shall follow the process for DMTF standards defined in the *DMTF*  
447 *Release Process* ([DSP4004](#)), using a file extension of ".xsl". For example: "DSP8000.xsl".

448 XSLT stylesheets are considered to belong to the XML schema to which any input documents of the  
449 XSLT stylesheet conform. If XSLT stylesheets support more than one XML schema, then the XSLT  
450 stylesheet may be placed to any of the supported schemas.

451 Publishing an XSLT stylesheet shall include publishing the following entities:

- 452 • Mandatory: The XSLT stylesheet under a (resolvable) URL for the **specific version** of the XSLT  
453 stylesheet, defined as follows:

454 `xslt-stylesheet-specific-publishing-url =`

455 `xml-namespace-uri "/" dsp-number "_" specific-version ".xsl"`

456 where:

457 `xml-namespace-uri` is the URI identifying the target XML namespace of the XML  
458 schema to which any input documents of the XSLT stylesheet conform, as  
459 defined in 3 (URI Format for XML Namespaces).

460 `dsp-number` is the DSP number of the XSLT stylesheet, in lower case (e.g. "dsp8000").

461 `specific-version` is the specific version of the XSLT stylesheet, as defined in 3.3  
462 (Versions in URIs) (e.g. "1.0.1").

463 Example for the complete publishing URL of the specific version, for an XSLT stylesheet with  
464 version "1.0.1":

465 `http://schemas.dmtf.org/messageregistry/1/dsp8000_1.0.1.xsl`

- 466 • Mandatory: The XSLT stylesheet under a (resolvable) URL for the **latest update of a given**  
467 **major and minor version** of the XSLT stylesheet, defined as follows:



## Process for publishing XML schema, XML documents and XSLT stylesheets

468 `xslt-stylesheet-latest-majorminor-publishing-url =`  
469 `xml-namespace-uri "/" dsp-number "_" majorminor-version ".xsl"`  
470 where:  
471 `xml-namespace-uri` is the URI identifying the target XML namespace of the XML  
472 schema to which any input documents of the XSLT stylesheet conform, as  
473 defined in 3 (URI Format for XML Namespaces).  
474 `dsp-number` is the DSP number of the XSLT stylesheet, in lower case (e.g. "dsp8000").  
475 `majorminor-version` is the major and minor version of the XSLT stylesheet, as  
476 defined in 3.3 (Versions in URIs) (e.g. "1.0").  
477 Example for the complete publishing URL of the latest update of a given major and minor version,  
478 for an XSLT stylesheet with version "1.0.1":  
479 [http://schemas.dmtf.org/messageregistry/1/dsp8000\\_1.0.xsl](http://schemas.dmtf.org/messageregistry/1/dsp8000_1.0.xsl)  
480 • Mandatory: The XSLT stylesheet under a (resolvable) URL for the **latest update of a given**  
481 **compatible version** of the XSLT stylesheet, defined as follows:  
482 `xslt-stylesheet-latest-compatible-publishing-url =`  
483 `xml-namespace-uri "/" dsp-number ".xsl"`  
484 where:  
485 `xml-namespace-uri` is the URI identifying the target XML namespace of the XML  
486 schema to which any input documents of the XSLT stylesheet conform, as  
487 defined in 3 (URI Format for XML Namespaces).  
488 `dsp-number` is the DSP number of the XSLT stylesheet, in lower case (e.g. "dsp8000").  
489 Note that the major version number is contained in the `xml-namespace-uri`, so it is not  
490 repeated in the last segment of the URL.  
491 Example for the complete publishing URL of the latest update of a given compatible version, for  
492 an XML instance document with version "1.0.1":  
493 <http://schemas.dmtf.org/messageregistry/1/dsp8000.xsl>

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## **ANNEX A** (informative)

### **Bibliography**

- 498 DMTF DSP0228, Message Registry XML Schema 1.0,  
499 [http://schemas.dmtf.org/wbem/messageregistry/1/dsp0228\\_1.0.xsd](http://schemas.dmtf.org/wbem/messageregistry/1/dsp0228_1.0.xsd)  
500 [http://www.dmtf.org/standards/published\\_documents/DSP0228\\_1.0.xsd](http://www.dmtf.org/standards/published_documents/DSP0228_1.0.xsd)
- 501 DMTF DSP0230, WS-CIM Mapping Specification 1.0,  
502 [http://www.dmtf.org/standards/published\\_documents/DSP0230\\_1.0.pdf](http://www.dmtf.org/standards/published_documents/DSP0230_1.0.pdf)
- 503 DMTF DSP8000, Message Registry Print List XSLT Stylesheet 1.0,  
504 [http://schemas.dmtf.org/wbem/messageregistry/1/dsp8000\\_1.0.xsl](http://schemas.dmtf.org/wbem/messageregistry/1/dsp8000_1.0.xsl)  
505 [http://www.dmtf.org/standards/published\\_documents/DSP8000\\_1.0.xsl](http://www.dmtf.org/standards/published_documents/DSP8000_1.0.xsl)
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507 [http://schemas.dmtf.org/wbem/messageregistry/1/dsp8016\\_1.0.xml](http://schemas.dmtf.org/wbem/messageregistry/1/dsp8016_1.0.xml)  
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## ANNEX B (informative)

### Change Log

Version	Date	Description
1.0	12/08/2005	Marked Company Review for balloting at DMTF TC.
1.0.0a	01/31/2006	Addressed comments received during Company Review
1.0.0b	2005/01/11	Addressed WIP comments on 1.0.0a version.
1.0.0c	05/25/2006	Added Schema publication location. Put in new template. Added XML and Stylesheet support. Changed URI format.
1.0.0d	06/29/2007	<p>Reflected DMTF TC decisions as of 6/26/2007.</p> <p>Separated descriptions for XML schema (static &amp; dynamic) / XML instance documents / XSLT stylesheets.</p> <p>Added relation of XML schemas to accompanying DSP numbered documents and their publishing locations.</p> <p>Reintroduced compatibility with XML schemas defined in DSP0320 (WS-CIM).</p>
1.0.0e	07/11/2007	<p>Added wbem sub-area wsman.</p> <p>Added initial proposal for smbios.</p> <p>Changed standard messages URI back to what it was.</p> <p>Clarified that URIs are partially case sensitive, with reference to according RFC.</p> <p>Moved URI section to the beginning.</p> <p>Added description of ABNF usage and ABNF reference.</p> <p>Wording changes (schemata -&gt; schemas, URI reference -&gt; reference, other word smithing).</p>
1.0.0f	07/11/2007	<p>Moved URI section to the beginning.</p> <p>Added section with recommendations for new URIs, introducing a concept of versioned segments, and specific vs. compatible versions.</p> <p>Refined proposal for smbios sub-area of "wbem" (now called "biosattributeregistry").</p> <p>Refined proposal for messages sub-area of "wbem" (now called "messageregistry").</p> <p>Added "smashclp" sub-area "clpxmlresponse" and moved dsp0224 stuff there.</p> <p>Clarified that URIs are partially case sensitive, with reference to according RFC.</p> <p>Resolved discussion about publishing XML instance documents to not publish them (except for the DSP numbered document).</p> <p>Added description of ABNF usage and ABNF reference.</p> <p>Some word smithing.</p>
1.0.0g	07/19/2007	<p>Reflected comments during WIP ballot:</p> <ul style="list-style-type: none"> <li>• Added that publishing in lower case applies to any URLs (in addition to URIs).</li> <li>• Changed description format for biosattributeregistry and clpxmlresponse to follow that of messageregistry.</li> <li>• Added ".xsd" suffix to URL creation rules.</li> <li>• Lifted the requirement that DMTF published XML instance documents need their XML schema be published by DMTF so that any outside XML schemas can also</li> </ul>

## Process for publishing XML schema, XML documents and XSLT stylesheets

Version	Date	Description
		<p>be used.</p> <ul style="list-style-type: none"> <li>Clarified that XSLT and XSD files (which are XML instance documents themselves) are not published under the rules for XML instance documents (to avoid ambiguity with their own specific clauses).</li> <li>Clarified that the XML schema definition of a static XML schema <i>is</i> the DSP numbered document, it is not just <i>contained in</i> it.</li> <li>Word smithing.</li> </ul> <p>Added requirement that /schema@targetnamespace attribute be used in XML schemas.</p>
1.0.0h	07/20/2007	<p>Resolved question on smashclp vs. smash schema area: Renamed the schema area "smashclp" to "smash" and sub-area "clpxmlresponse" to "commandresponse" (both are used in DSP0224 which has Final status. Used the unchanged DSP0224 URI and noted that the "/dsp0224.xsd" ending is an exception from the general rule.</p> <p>Clarified that BIOS Attribute Registry XML Schema will actually be coming up.</p>
1.0.0i	08/23/2007	<p>Resolved comments during WIP ballot ending 7/26/2007:</p> <ul style="list-style-type: none"> <li>Uplevelled RFC for ABNF from RFC2234 to RFC4234</li> <li>Removed links in Reference section for specifications that are not yet published and where this document covers their publication.</li> <li>Clarified that compatible versions shall refer to latest published final version, also moved definition of versioning into its own subclause 2.2 "Versions in URIs".</li> <li>Clarified that version numbers shall not have leading zeros or plus signs.</li> <li>Merged ABNF in 2.4 "Recommendations for schema area-specific portion of new URIs" into ABNF in 2.1 "General URI Format".</li> <li>Removed restriction in rules for publishing dynamic XML schemas to apply only to XML schemas created from CIM Schema.</li> <li>Changed publishing place for static XML schemas, XML instance documents and XSLT stylesheets from the DMTF standards page to the schemas.dmtf.org URL.</li> <li>Added examples to publishing URLs.</li> </ul>
1.0.0j	08/27/2007	<p>Resolved additional comments from reviewing previous version:</p> <ul style="list-style-type: none"> <li>Added DSP version of XML instance document to publishing URL for XML instance documents.</li> <li>Clarified that the specific version shall be used in XML namespace URIs.</li> <li>Fixed inconsistency with general URI format of empty area-specific portion used by schema area "stylesheet".</li> <li>Clarified in recommendation subclause that rule to avoid DSP numbers only applies to URIs but not to publishing URLs.</li> <li>Corrected date of RFC4234.</li> <li>Some typo fixes, word smithing and formatting.</li> </ul>
1.0.0a	10/3/2007	New DSP4009 to reflect a process document
1.1.0a (internal)	2/15/2008	Added clause 2.3.4 for URI for OVF, fixed , added "...and compatible.." to 2.3.1.3 and 2.3.1.4
1.1.0e (internal)	5/29/2008	<p>Resolved comments from ballot:</p> <ul style="list-style-type: none"> <li>Consistency changes for area-specific, owning group, etc</li> <li>Added reference to XML Namespace Registry document (DSP number still to be assigned) and corrected references to that document within this</li> </ul>

## Process for publishing XML schema, XML documents and XSLT stylesheets

Version	Date	Description
		<p>document</p> <ul style="list-style-type: none"> <li>• Clarified schema area registration and ownership in section 2.3</li> <li>• Changed open time of registration ballot from maximum of 2 weeks to minimum of one week to be consistent with text 'will be voted on within two DMTF TC meetings'</li> <li>• Add explanatory text to registration form details in section 3.3</li> <li>• Modified acknowledgement section to be more appropriate</li> <li>• Deleted references not needed by this document</li> </ul>
1.1.0f (internal)	6/7/2008	<p>Resolved further comments from ballot:</p> <ul style="list-style-type: none"> <li>• Added terminology to define "DMTF Group" and "CR", plus some fixups to use that terminology properly.</li> <li>• Clarified that DMTF Groups and DMTF Alliance Partners follow process in clause 3.</li> <li>• Consistently used ISO terminology for "clause" and "subclause".</li> <li>• Fixed some typos.</li> <li>• Clarified that schema areas may be registered with or without area-specific parts, area-specific parts may be added later to schema areas, and area-specific parts may extend existing area-specific parts.</li> <li>• Subclause 3.1.2.2: Clarified that the alliance partner should create the CR and submit to VP of Technology.</li> </ul>
1.1.0g (internal)	6/9/2008	<p>Resolved further comments from ballot:</p> <ul style="list-style-type: none"> <li>• Fixed group name that prepared this document to "Process and Incubation Committee".</li> <li>• Changes use of 'XML schema namespace' throughout the document to 'URI for XML schema namespace' or similar, for accuracy.</li> </ul> <p>Applied WIPCR00481 (Clarify and change namespace URIs and publishing URLs)</p>
2.0.0	6/23/2008	<p>Changed version to 2.x due to incompatibility of XML namespace URIs and publishing URLs with 1.x</p> <p>Removed usage of draft letters for any artifacts on the publishing URLs.</p> <p>Separation of process and registry portions of the XML namespace document into 2 documents. DSP4009 contains the process.</p> <p>Published as version 2.0.0.</p>
2.0.1a (internal)	07/13/2009	<p>Reflected TC direction to reference published documents by major and minor version number, by adding requirements for publishing the "m.n" versions.</p> <p>Changes to normative references:</p> <ul style="list-style-type: none"> <li>• Upgraded ABNF reference from RFC4234 to RFC5234.</li> <li>• Made W3C references consistently dated (aka versioned).</li> <li>• Restructured clause 1 "Normative References" to conform to ISO referencing rules, and removed its subclause heading "Approved References", and moved subclauses "Terminology" and "Usage of ABNF" under a new clause 2 "Terms and definitions".</li> </ul> <p>Formatting and structure changes:</p> <ul style="list-style-type: none"> <li>• Picked up correct formatting of heading 2.2 from WG version "2.0.0b-clean".</li> <li>• Started using both draft and target version numbers on title page (and target version in footer).</li> <li>• Added Bibliography annex with references to informative documents, such as examples, and repaired the annex numbering. Updated references in text to these document references.</li> </ul>

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## **ANNEX C** (informative)

### **Acknowledgments**

519 DMTF acknowledges the following individuals for their contributions to this document.

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