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Process for publishing XML schema, XML documents and XSLT stylesheets

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Foreword

51 The Process for publishing XML schema, XML documents and XSLT stylesheets (DSP4009) was
52 prepared by the WIP working group of the DMTF.

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

Introduction

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

60 Process for publishing XML schema, XML documents and 61 XSLT stylesheets

62 1 Normative References

63 The following referenced documents are indispensable for the application of this document. For dated
64 references, only the edition cited applies. For undated references, the latest edition of the referenced
65 document (including any amendments) applies.

66 1.1 Approved References

- 67 [W3C-XMLNS] W3C: Namespaces in XML 1.0 (Second Edition), W3C Recommendation, August 16,
68 2006, available at <http://www.w3.org/TR/xml-names/>
- 69 [W3C-SCHEMA1] W3C: XML Schema Part 1: Structures, Second Edition, W3C Recommendation,
70 October 28, 2004, available at <http://www.w3.org/TR/xmlschema-1/>
- 71 [RFC3986] IETF RFC 3986: Uniform Resource Identifier (URI): Generic Syntax, January 2005,
72 available at <http://www.ietf.org/rfc/rfc3986.txt>
- 73 [DSP4004] DMTF DSP4004, DMTF Release Process, available at
74 http://www.dmtf.org/standards/published_documents/DSP4004.pdf
- 75 [DSP0224] DMTF DSP0224, DMTF CLP Command Response XML Schema
- 76 [DSP0226] DMTF DSP0226, DMTF Web Services for Management, available at
77 http://www.dmtf.org/standards/published_documents/DSP0226.pdf
- 78 [DSP0228] DMTF DSP0228, DMTF Message Registry XML Schema
- 79 [DSP0230] DMTF DSP0230, DMTF WS-CIM Mapping Specification, available at
80 http://www.dmtf.org/standards/published_documents/DSP0230.pdf
- 81 [DSP8016] DMTF DSP8016, DMTF WBEM Operations Message Registry
- 82 [DSP8000] DMTF DSP8000, DMTF Message Registry Print List XSL File
- 83 [ABNF] IETF RFC 4234: Augmented BNF for Syntax Specifications: ABNF, October 2005,
84 available at <http://www.ietf.org/rfc/rfc4234.txt>

85 1.2 Usage of ABNF

86 Any formats in this document are specified using Augmented BNF [ABNF] with the following additional
87 rules:

- 88 • Rules separated by a vertical bar (|) represent choices, instead of using a slash (/) as defined in
89 ABNF.

90 Note that ABNF defines that any items in rules shall be concatenated without inserting any implicit
91 whitespace characters between them, so any intended whitespace characters need to be specified
92 explicitly in the ABNF syntax.

93 Note that ABNF defines that any literal strings and rule names shall be treated case-insensitively.

94 2 URI Format for XML Namespaces

95 The URI used to identify the target XML namespace of an XML schema published by DMTF shall have
96 the format defined in the following subclauses.

97 2.1 General URI Format

98 The format of the URI shall be as follows:

99 `uri-format = "http://schemas.dmtf.org/" schema-area area-specific`

100 Where:

101 `schema-area = segment`

102 `schema-area` is the name of a schema area within DMTF, as defined in 2.3 (Schema
103 areas).

104 `area-specific = "" | 1*("/" segment ["/" version])`

105 `area-specific` is the area-specific portion of the URI within a particular schema area,
106 as defined in 2.3 (Schema areas). An empty value shall be used only for publishing
107 stylesheets, as defined in 2.3.3 (Schema area "stylesheet").

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

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

110 `version = compatible-version | specific-version | other-version`

111 `version` is a version in one of multiple formats.

112 `compatible-version = number`

113 `compatible-version` is a compatible version as defined in 2.2 (Versions in URIs)

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

115 `specific-version` is a specific version as defined in 2.2 (Versions in URIs)

116 `other-version = segment`

117 `other-version` is an other version as defined in 2.2 (Versions in URIs)

118 `lc-unreserved` is any character from the `unreserved` set of characters defined in section 2.3
119 "Unreserved Characters" of [RFC3986] that is not an upper case letter. In other words,
120 `lc-unreserved` is any character in the set of lower case letters (a-z), digits (0-9),
121 hyphen (-), dot (.), underscore (_) and tilde (~).

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

124 Note that this URI format is a subset of the general URI format defined in [RFC3986].

125 The DMTF Technical Committee is responsible for defining schema areas and for assigning responsibility
126 for a schema area to one or more DMTF working groups. It is recommended to assign only a single
127 working group to a schema area.

128 The working groups are responsible for defining the structure of the area-specific portion of the URI for
129 any of their schema areas. Working groups may structure the area-specific portion of the URI along one
130 or more levels of sub-areas, where each segment represents one level of sub-areas. Working groups
131 should follow the recommendations in 2.4 (Recommendations for schema area-specific portion of new
132 URIs) when defining the structure of the area-specific portion of the URI for any of their schema areas.

133 The currently defined schema areas and their area-specific formats are defined in 2.3 (Schema areas).
134 The URI and any (resolvable) URLs defined in 3 (Publishing XML Schemas) shall be published in all
135 lower case. Note that some parts of a URI are case sensitive while others are case insensitive, as defined
136 in section 6.2.2.1 "Case Normalization" of [RFC3986].

137 2.2 Versions in URIs

138 This document defines three kinds of versions that may be used in the URIs defined in this document:

- 139 • **compatible version** - the major version number of a version of a DMTF specification as defined
140 in [DSP4004]. A compatible version used in a URI shall refer to the latest published final version
141 of that specification that has the specified major version number.
- 142 • **specific version** - the three-part version number of a version of a DMTF specification as defined
143 in [DSP4004]. A specific version shall refer to the published final version of that specification that
144 has the specified version number.
- 145 • **other version** – any other version. This option should not be used for reference to versions of
146 DMTF specifications and is provided in order to version specifications not owned by the DMTF.

147 As defined in the ABNF syntax in 2.1 (General URI Format), a URI may contain multiple versions and
148 multiple kinds of versions may be mixed in the same URI. An example for a URI with multiple versions is
149 the *WS-CIM Mapping Specification* [DSP0230] which uses a version for the DSP0230 specification itself,
150 and a version for the CIM Schema.

151 2.3 Schema areas

152 This subclause shall list all defined schema areas and the structure of their area-specific portions. If other
153 documents normatively define the format of area-specific portions or parts thereof, then this subclause
154 shall reference those documents and should not repeat those definitions.

155 This subclause shall be kept current, as schema areas are added, changed or deleted.

156 2.3.1 Schema area "wbem"

157 Assigned working group: WIP (WBEM Infrastructure & Protocols)

158 Schema area name:

159 `schema-area = "wbem"`

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

162 `area-specific = "/biosattributeregistry/" biosattributeregistry-format |`
163 `"/messageregistry/" messageregistry-format |`
164 `"/wscim/" wscim-format |`
165 `"/wsman/" wsman-format`

166 2.3.1.1 Schema sub-area "biosattributeregistry"

167 The format of the URI for the schema sub-area "biosattributeregistry" shall have the following format:

168 `biosattributeregistry-format = dsp0xxx-version`

169 Where:

170 `dsp0xxx-version` is the version number of the upcoming *DMTF BIOS Attribute Registry XML*
171 *Schema* specification, either as a compatible version or as a specific version, as defined
172 in 2.2 (Versions in URIs).

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173 Example for the complete URI (compatible version):

174 `http://schemas.dmtf.org/wbem/biosattributeregistry/1`

175 Example for the complete URI (specific version):

176 `http://schemas.dmtf.org/wbem/biosattributeregistry/1.0.1`

177 BIOS Attribute registries published by DMTF shall use the specific version in the URI used to identify the
178 target XML namespace of the XML schema.

179 **2.3.1.2 Schema sub-area "messageregistry"**

180 The format of the URI for the schema sub-area "messageregistry" shall have the following format:

181 `messageregistry-format = dsp0228-version`

182 Where:

183 `dsp0228-version` is the version number of the *DMTF Message Registry XML Schema*
184 specification [DSP0228], either as a compatible version or as a specific version, as
185 defined in 2.2 (Versions in URIs).

186 Example for the complete URI (compatible version):

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

188 Example for the complete URI (specific version):

189 `http://schemas.dmtf.org/wbem/messageregistry/1.0.1`

190 Message registries published by DMTF shall use the specific version in the URI used to identify the target
191 XML namespace of the XML schema.

192 **2.3.1.3 Schema sub-area "wscim"**

193 The format of the URI for the schema sub-area "wscim" is normatively defined in the *DMTF WS-CIM*
194 *Mapping Specification* [DSP0230].

195 See there for examples.

196 DSP0230 defined artifacts published by DMTF shall use specific versions in the URI used to identify the
197 target XML namespace of the XML schema.

198 **2.3.1.4 Schema sub-area "wsman"**

199 The format of the URI for the schema sub-area "wsman" is normatively defined in *DMTF Web Services*
200 *for Management* [DSP0226].

201 See there for examples.

202 DSP0226 defined artifacts published by DMTF shall use specific versions in the URI used to identify the
203 target XML namespace of the XML schema.

204 **2.3.2 Schema area "smash"**

205 Assigned working group: Server Management

206 Schema area name:

207 `schema-area = "smash"`

208 Structure of area-specific portion: The schema area "smash" is divided into sub-areas. The area-specific
209 portion shall have the following format:

210 `area-specific = "/commandresponse/" commandresponse-format`

211 **2.3.2.1 Schema sub-area "commandresponse"**

212 The format of the URI for the schema sub-area "commandresponse" shall have the following format:

213 `commandresponse-format = dsp0224-version "/dsp0224.xsd"`

214 Where:

215 `dsp0224-version` is the version number of the *DMTF SM CLP Command Response XML*
216 *Schema* [DSP0224], either as a compatible version or as a specific version, as defined
217 in 2.2 (Versions in URIs).

218 Note that this URI does not follow the format rules defined in 2.1 (General URI Format) for historical
219 reasons.

220 Example for the complete URI (compatible version):

221 `http://schemas.dmtf.org/smash/commandresponse/1/dsp0224.xsd`

222 Example for the complete URI (specific version):

223 `http://schemas.dmtf.org/smash/commandresponse/1.0.1/dsp0224.xsd`

224 DSP0224 defined artifacts published by DMTF shall use the specific version in the URI used to identify
225 the target XML namespace of the XML schema.

226 **2.3.3 Schema area "stylesheet"**

227 This schema area is not used to construct URIs for XML namespaces. Instead, it is used to construct
228 (resolvable) URLs for publishing XSLT stylesheets, as defined in 5 (Publishing XSLT Stylesheets). There
229 is no working group assigned for this schema area.

230 Schema area name:

231 `schema-area = "stylesheet"`

232 Structure of area-specific portion: The schema area "stylesheet" has no sub-areas. The area-specific
233 portion shall have the following format:

234 `area-specific = ""`

235 **2.4 Recommendations for schema area-specific portion of new URIs**

236 The area-specific portion of the URI should follow the recommendations in this subclause.

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

240 Usage of the DSP number of a specification should be avoided. Instead, names should be assigned for
241 the segments by the working group. Note that this rule only applies to URIs, as defined in 3 (Publishing
242 XML Schemas), the URLs used to publish documents do contain DSP numbers of specifications.

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

- 245 • The CIM Schema
- 246 • Any DSP numbered document
- 247 • Any specification not owned by the DMTF

248 For any version defined in a URI, there should be a compatible and a specific version defined.

249 3 Publishing XML Schemas

250 XML schemas published by DMTF shall use the W3C XML Schema approach defined in [W3C-
251 SCHEMA1] (i.e. .xsd files) to define the schema.

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

253 1. Static XML schemas.

254 A static XML schema is an XML schema whose W3C XML Schema Definition is a DSP
255 numbered document. An example for a static XML schema is the *DMTF Message Registry XML*
256 *Schema Specification* [DSP0228].

257 The release of static XML schemas shall follow the process for DMTF standards defined in the
258 *DMTF Release Process* document [DSP4004], using a file extension of ".xsd". For example:
259 "DSP0228.xsd".

260 A static XML schema shall have a target XML namespace declaration (i.e. the
261 `/schema@targetnamespace` attribute). The format of the URI identifying the target XML
262 namespace of static XML schemas is defined in clause 2 (URI Format for XML Namespaces).

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

264 • Mandatory: The content of the DSP numbered .xsd file (i.e. the XML schema) under a
265 (resolvable) URL defined as follows:

266 `publishing-url-static-schema = schema-uri ".xsd"`

267 where:

268 `schema-uri` is the URI identifying the target XML namespace of that XML
269 schema, as defined in 2 (URI Format for XML Namespaces), where any
270 versions in the URI are either specific versions or other versions (as
271 defined in 2.2 (Versions in URIs)).

272 Example for the complete URL:

273 `http://schemas.dmtf.org/wbem/messageregistry/1.0.1.xsd`

274 • Optional: A DSP numbered document that defines the usage of the XML schema is
275 recommended to be published using the normal process for such documents. Such
276 documents shall not show the XML schema or pieces thereof in a normative way, but
277 they may show pieces of the XML schema in (non-normative) examples.

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

281 Any explanatory web pages close to the URL at which the .xsd file is published, is not
282 recommended to be published in addition.

283 2. Dynamic XML schemas.

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

287 An example is the *DMTF WS-CIM Mapping Specification* [DSP0230] which uses the CIM Schema
288 as input information.

289 The release of any DSP numbered documents related to dynamic XML schema shall follow the
290 process for DMTF standards defined in the *DMTF Release Process* document [DSP4004].

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

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294 The format of the URI identifying the target XML namespace of dynamic XML schemas is defined
295 in clause 2 (URI Format for XML Namespaces).

296 Publishing dynamic XML schemas includes publishing the following entities:

- 297 • Mandatory: The content of each .xsd file (i.e. the XML schema) under a (resolvable) URL
298 that is defined as follows:

299 `publishing-url-dynamic-schema = schema-uri ".xsd"`

300 where:

301 `schema-uri` is the URI identifying the target XML namespace of that schema,
302 as defined in 2 (URI Format for XML Namespaces) , where any versions
303 in the URI are either specific versions or other versions (as defined in 2.2
304 (Versions in URIs)).

305 Example for the complete URL:

306 `http://schemas.dmtf.org/wbem/wscim/1.0.0/
307 cim-schema/2.15.0/CIM_ManagedElement.xsd`

- 308 • Mandatory: One or more DSP numbered documents which normatively define (e.g. using
309 prose text) how to create the XML schemas from some input information.

310 If static XML schemas are needed by such DSP numbered documents, then the static XML
311 schemas shall be published using the rules defined for static XML schemas. An example for this
312 approach is the WS-CIM Mapping Specification (DSP0230), which defines some static XML
313 schemas in addition to the rules for creating dynamic XML schemas representing a subset of the
314 information in the CIM Schema.

315 4 Publishing XML Instance Documents

316 Publishing XML instance documents requires that the corresponding XML schema is publicly accessible,
317 either as a result of publishing an XML schema owned by DMTF as defined in 3 (Publishing XML
318 Schemas), or because an XML schema not owned by DMTF is publicly accessible.

319 If that XML schema is owned by DMTF, it shall be static. If the need arises to also publish XML instance
320 documents of dynamic XML schemas, this document needs to get extended accordingly.

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

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

325 The release of XML instance documents with a static XML schema shall follow the process for DMTF
326 standards defined in the *DMTF Release Process* document [DSP4004], using a file extension of ".xml".
327 For example: "DSP8016.xml".

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

- 330 • Mandatory: The content of the DSP numbered .xml file (i.e. the XML instance document) under a
331 (resolvable) URL that is defined as follows:

332 `publishing-url-xml = schema-uri dsp-number dsp-version ".xml"`

333 where:

334 `schema-uri` is the URI identifying the target XML namespace of the XML schema of
335 that XML instance document, as defined in 2 (URI Format for XML Namespaces),
336 where any versions in the URI are either specific versions or other versions (as
337 defined in 2.2 (Versions in URIs)).

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338 `dsp-number` the DSP number of that XML instance document in lower case (e.g.
339 `"dsp8016"`).

340 `dsp-version` is the specific version of that XML instance document (e.g. "1.0.0").

341 Example for the complete URL:

342 `http://schemas.dmtf.org/wbem/messageregistry/1.0.1/dsp8016/1.0.0.`
343 `xml`

344 • Conditional: The XML schema itself as described in 3 (Publishing XML Schemas), if the XML
345 schema is owned by DMTF.

346 **5 Publishing XSLT Stylesheets**

347 Each XSLT stylesheet published by DMTF shall be a DSP numbered document. An example is the *DMTF*
348 *Message Registry Print List XSL File* [DSP8000].

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

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

352 • Mandatory: The content of the DSP numbered .xsl file (i.e. the XSLT stylesheet) under a
353 (resolvable) URL that is defined as follows:

354 `publishing-url-xml = schema-uri dsp-number dsp-version ".xsl"`

355 where:

356 `schema-uri` is the URI for schema area "stylesheet", as defined in 2.3.3 (Schema area
357 "stylesheet").

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

359 `dsp-version` is the specific version of that XSLT stylesheet (e.g. "1.0.0").

360 Example for the complete URL:

361 `http://schemas.dmtf.org/stylesheet/dsp8000/1.0.0.xsl`

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ANNEX 1 (informative)

Change Log

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

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Version	Date	Description
		<p>be used.</p> <ul style="list-style-type: none"> 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). 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. Word smithing. <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"> Uplevelled RFC for ABNF from RFC2234 to RFC4234 Removed links in Reference section for specifications that are not yet published and where this document covers their publication. 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". Clarified that version numbers shall not have leading zeros or plus signs. Merged ABNF in 2.4 "Recommendations for schema area-specific portion of new URIs" into ABNF in 2.1 "General URI Format". Removed restriction in rules for publishing dynamic XML schemas to apply only to XML schemas created from CIM Schema. Changed publishing place for static XML schemas, XML instance documents and XSLT stylesheets from the DMTF standards page to the schemas.dmtf.org URL. Added examples to publishing URLs.
1.0.0j	08/27/2007	<p>Resolved additional comments from reviewing previous version:</p> <ul style="list-style-type: none"> Added DSP version of XML instance document to publishing URL for XML instance documents. Clarified that the specific version shall be used in XML namespace URIs. Fixed inconsistency with general URI format of empty area-specific portion used by schema area "stylesheet". Clarified in recommendation subclause that rule to avoid DSP numbers only applies to URIs but not to publishing URLs. Corrected date of RFC4234. Some typo fixes, word smithing and formatting.
1.0.0a	10/3/2007	New DSP4009 to reflect a process document

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ANNEX 1 (informative)

Acknowledgments

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