
Web Services for Management (WS-Management) Specification

*Spécification des services Web pour le management
(WS-Management)*



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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
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Published in Switzerland

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Document Number: DSP0226

Date: 2012-08-28

Version: 1.1.1

5 **Web Services for Management (WS-**
6 **Management) Specification**

7 **Document Type: Specification**
8 **Document Status: DMTF Standard**
9 **Document Language: en-US**

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Foreword

195 The *Web Services for Management (WS-Management) Specification* (DSP0226) was prepared by the
196 WS-Management sub-group of the WBEM Infrastructure & Protocols Working Group.

197 This International Standard makes use of functionality similar to the following W3C
198 Recommendations:

- 199 • Web Services Eventing (WS-Eventing)
- 200 • Web Services Transfer (WS-Transfer)
- 201 • Web Services Enumeration (WS-Enumeration)

202 These W3C Recommendations were not available at the time WS-Management was defined, and
203 similar functionality was incorporated directly into provisions of the WS-Management specification.
204 Future revisions of WS-Management might incorporate these functions by External Reference to
205 these W3C Recommendations

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207 systems management and interoperability.

208 Acknowledgements

209 The authors wish to acknowledge the following people.

210 Chairpersons:

- 211 • Josh Cohen – Microsoft
- 212 • Larry Lamers (Vice-Chairman) – VMware

213 Editors:

- 214 • Nathan Burkhart – Microsoft
- 215 • Doug Davis – IBM
- 216 • Raymond McCollum – Microsoft
- 217 • Bryan Murray – HP
- 218 • Brian Reistad – Microsoft

219 Authors:

- 220 • Akhil Arora – Sun Microsystems
- 221 • Vince Brunssen – IBM
- 222 • Mark Carlson – Sun Microsystems
- 223 • Jim Davis – WBEM Solutions
- 224 • Tony Dicenzo – Oracle
- 225 • Mike Dutch – Symantec
- 226 • Zulah Eckert – BEA Systems
- 227 • George Ericson – EMC
- 228 • Wassim Fayed – Microsoft
- 229 • Chris Ferris – IBM
- 230 • Bob Freund – Hitachi Ltd.
- 231 • Eugene Golovinsky – BMC Software
- 232 • Yasuhiro Hagiwara – NEC

- 233 • Steve Hand – Olocity
- 234 • Jackson He – Intel
- 235 • David Hines – Intel
- 236 • Reiji Inohara – NEC
- 237 • Christane Kämpfe – Fujitsu-Siemens Computers
- 238 • Paul Knight – Nortel Networks
- 239 • Vincent Kowalski – BMC Software
- 240 • Heather Kreger – IBM
- 241 • Vishwa Kumbalimutt – Microsoft
- 242 • Sunil Kunisetty – Oracle
- 243 • Richard Landau – Dell
- 244 • Paul Lipton – CA
- 245 • James Martin – Intel
- 246 • Milan Milenkovic – Intel
- 247 • Jeff Mischkinsky – Oracle
- 248 • Paul Montgomery – AMD
- 249 • Jishnu Mukurji – HP
- 250 • Alexander Nosov – Microsoft
- 251 • Abhay Padlia – Novell
- 252 • Gilbert Pilz – Oracle
- 253 • Roger Reich – Symantec
- 254 • Larry Russon – Novell
- 255 • Tom Rutt – Fujitsu Ltd.
- 256 • Jeffrey Schlimmer – Microsoft
- 257 • Dr. Hemal Shah – Broadcom
- 258 • Sharon Smith – Intel
- 259 • Enoch Suen – Dell
- 260 • Vijay Tewari – Intel
- 261 • William Vambenepe – HP
- 262 • Andrea Westerinen – CA, Inc.
- 263 • Kirk Wilson – CA, Inc.
- 264 • Dr. Jerry Xie – Intel

265 **Contributors:**

- 266 • Paul C. Allen – Microsoft
- 267 • Rodrigo Bomfim – Microsoft
- 268 • Don Box – Microsoft
- 269 • Jerry Duke – Intel
- 270 • David Filani – Intel
- 271 • Kirill Gavrylyuk – Microsoft
- 272 • Omri Gazitt – Microsoft
- 273 • Frank Gorishek – AMD
- 274 • Lawson Guthrie – Intel
- 275 • Arvind Kumar – Intel
- 276 • Brad Lovering – Microsoft

- 277 • Pat Maynard – Intel
- 278 • Steve Millet – Microsoft
- 279 • Matthew Senft – Microsoft
- 280 • Barry Shilmover – Microsoft
- 281 • Tom Slaight – Intel
- 282 • Marvin Theimer – Microsoft
- 283 • Dave Tobias – AMD
- 284 • John Tollefsrud – Sun
- 285 • Anders Vinberg – Microsoft
- 286 • Megan Wallent – Microsoft

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Web Services for Management (WS-Management) Specification

289 1 Scope

290 The *Web Services for Management (WS-Management) Specification* describes a Web services
291 protocol based on SOAP for use in management-specific domains. These domains include the
292 management of entities such as PCs, servers, devices, Web services and other applications, and
293 other manageable entities. Services can expose only a WS-Management interface or compose the
294 WS-Management service interface with some of the many other Web service specifications.

295 A crucial application for these services is in the area of systems management. To promote
296 interoperability between management applications and managed resources, this specification
297 identifies a core set of Web service specifications and usage requirements that expose a common set
298 of operations central to all systems management. This includes the ability to do the following:

- 299 • Get, put (update), create, and delete individual resource instances, such as settings and
300 dynamic values
- 301 • Enumerate the contents of containers and collections, such as large tables and logs
- 302 • Subscribe to events emitted by managed resources
- 303 • Execute specific management methods with strongly typed input and output parameters

304 In each of these areas of scope, this specification defines minimal implementation requirements for
305 conformant Web service implementations. An implementation is free to extend beyond this set of
306 operations, and to choose not to support one or more of the preceding areas of functionality if that
307 functionality is not appropriate to the target device or system.

308 This specification intends to meet the following requirements:

- 309 • Constrain Web services protocols and formats so that Web services can be implemented
310 with a small footprint in both hardware and software management services.
- 311 • Define minimum requirements for compliance without constraining richer implementations.
- 312 • Ensure backward compatibility and interoperability with WS-Management version 1.0.
- 313 • Ensure composability with other Web services specifications.

314 2 Normative References

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

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