

**Server Management Working Group
Dated 12/05/2003**

The information provided below is subject to change and reflects the current knowledge of the Working Group.

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| <p>Management Problem(s) and Environment</p> | <p>There is no uniform way of managing heterogeneous servers (i.e. from multiple vendors) independent of machine state, operating system state, server system topology and access mechanisms.</p> <p>There is a need to extend the CIM standard to cover various server system topologies such as blades and virtualized server systems.</p> <p>In addition, there is a need for a lightweight, industry standard human-oriented command line interface that can be mapped to CIM to implement the above.</p> |
| <p>WG Charter</p> | <p>The goals of the Server Management Working Group are to define a platform independent, industry standard management architecture instantiated through wire level protocols built upon IP based technologies that:</p> <ul style="list-style-type: none"> • Extend the CIM schema (presenting the work in parallel to the Sys/Dev WG) to represent new server system topologies • Leverage the CIM/XML protocol and identify enhancements if necessary • Define a CLI protocol (syntax & semantics) • Define profiles for different server system topologies in order to support base-level compliance • Define an architectural model for understanding the semantic behavior of server management components • Demonstrate interoperability <p>The scope includes the following:</p> <ul style="list-style-type: none"> • Server profiles spanning the spectrum of: <ul style="list-style-type: none"> – Stand alone, blades, racks, partitions – Enterprise & Telco – Low cost to mission critical • Enumeration of hardware and hardware related software • OS present/not present, architected transitions independent of OS • Discovery, proxy, aggregation, redirection • Select, control and transfer executable (boot) images • Power control, system control, configuration and monitoring • OS recovery assistance • Boot process visibility • Basic alerts/events • Access to logs – characterize, define content, retrieve and write to logs • View and set status indicators (LED, text LCD, alarms etc.) <p>These management functions must be available through the Command Line Interface & CIM/XML interface with appropriate security required for all functions.</p> |

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| | The focus of the WG is management of server system hardware. This includes interactions with the operating system that are necessary to assist in hardware management. Direct management of a running operating system and its associated applications is out of scope. |
| Alliance Partnerships | We foresee alliance partnerships with the following organizations: <ul style="list-style-type: none"> • OASIS: Web services Manageability, Web Services Technologies, Distributed Management Infrastructure • SNIA: Storage Management Initiative • W3C: Web services architecture and technologies • SA Forum: Service Availability Forum |
| Reliance / Coordination with other WG Models | The Server Management Working Group will work closely with the Architecture, Systems & Devices, Pre-OS, Networking and WBEM Interoperability Working Groups to ensure that the server management model is consistent with future CIM and WBEM directions. |
| Prior Work | Not applicable at this time. |
| Current Work – Overview, Deliverables and Timeline | Phase 1 deliverable: July 1, 2004 In the CIM V2.9 Timeframe the SMWG will deliver: <ul style="list-style-type: none"> • Lightweight command line interface specification • Lightweight CIMOM and supported CIM operations specification • Standard server system topology profiles Phase 2 deliverable: December 31, 2004 <ul style="list-style-type: none"> • Compliance specification • Test cases for interoperability • Interoperability testing |
| DMTF Contacts | Interim chair: Dwight Barron, dwight.barron@hp.com Supporters: Winston Bumpus, winston_bumpus@dell.com Jeffrey Lynch, jjlynch@us.ibm.com David Filani, david.filani@intel.com |
| Link to Subteam Charter(s) | Not applicable at this time. |

To join the DMTF and/or the WG, see <http://www.dmtf.org/join> and <http://www.dmtf.org/apps/org/workgroup/technical/svrmgmt/>.