## Management Problem(s) and Environment
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.

There is a need to extend the CIM standard to cover various server system topologies such as blades and virtualized server systems.

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.

## WG Charter
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:

- 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

The scope includes the following:

- Server profiles spanning the spectrum of:
  - 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.)

These management functions must be available through the Command Line Interface & CIM/XML interface with appropriate security required for all functions.
### Alliance Partnerships

We foresee alliance partnerships with the following organizations:

- 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:

- Lightweight command line interface specification
- Lightweight CIMOM and supported CIM operations specification
- Standard server system topology profiles

**Phase 2 deliverable: December 31, 2004**

- Compliance specification
- Test cases for interoperability
- Interoperability testing

### DMTF Contacts

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### Link to Subteam Charter(s)

Not applicable at this time.

To join the DMTF and/or the WG, see [http://www.dmtf.org/join](http://www.dmtf.org/join) and [http://www.dmtf.org/apps/org/workgroup/technical/svrmgmt/](http://www.dmtf.org/apps/org/workgroup/technical/svrmgmt/).