

**DMTF CIM Architecture Working Group
Dated October 2003**

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

<p align="center">Management Problem(s) and Environment</p>	<p>The DMTF has a number of working groups dedicated to the individual technical standards and initiatives that comprise the DMTF technologies. Specifically, there are many working groups collaborating on aspects of CIM-based management. However, the DMTF requires a single working group dedicated to defining and documenting the core architectural concepts of all the DMTF work, with focus on the specific architectural, design and language issues related to WBEM, CIM and DEN.</p>
<p align="center">WG Charter</p>	<p>The DMTF Architecture Working Group will define and document the issues and propose solutions involving the overall management architecture and the future directions of the DMTF technologies. As with all other working groups, the output of this group is subject to the approval of the DMTF TC.</p> <p>The work of this group will be organized into four major themes:</p> <ol style="list-style-type: none"> 1. Future releases of the CIM Specification including both short term incorporation of changes to create version 2.3 and preparation of major version changes (i.e., version 3). 2. Coordination of the overall CIM-based management architecture, including recommendations regarding the evolution of the CIM schemas, closer correspondence with current UML work, investigation of other technologies such as the XML Metadata Interchange (OMG-XMI) and Meta Object Facility (OMG-MOF) for automating model translation, and definition/clarification of the CIM and DEN components of the CIM-based management architecture. 3. Development and documentation of best design and use practices for CIM schemas, and extensions starting with MOF and UML style guides. 4. Definition of architectural strategies for the future of DMTF technologies, including WBEM, CIM, DMI, ASF, SMBIOS and DEN, in response to requests from the DMTF Working Groups and Technical Committee. <p>The DMTF Architecture Working Group will provide a single place for the following specific activities for WBEM, CIM and DEN:</p> <ol style="list-style-type: none"> 1. Definition, documentation, update and maintenance of the DMTF management architecture including both specifications and technical notes.

	<ol style="list-style-type: none"> 2. Development of a strategy for migration to future versions of WBEM, CIM and DEN, including definition of the proposed changes (detailed documentation and migration plans) in specification format. 3. Update and maintenance of the CIM Specification beginning with version 2.3. 4. Definition and documentation in specification format of general CIM technology extensions (e.g., an object constraint language extension to CIM). 5. Overall direction for alignment of CIM with the UML specifications from the Open Management Group (OMG). 6. Identification and pursuit of relationships necessary to accelerate the adoption of CIM in the marketplace and enhance the DMTF work to avoid duplication of efforts and to create a coherent 'model' view for the consumer. This includes, but is not limited to, the following organizations: <ul style="list-style-type: none"> • OMG (Object Management Group): enhance the overall alignment of CIM with the UML specification. • W3C (World Wide Web Consortium) and OASIS (Organization for the Advancement of Structured Information Standards): advance CIM in the area of Web services. • GGF (Global Grid Forum): advance CIM in the area of Grid services. • TMF (TeleManagement Forum): advance a single information model in the telecommunications industry. <p>The DMTF Architecture Working Group should not produce any specific CIM Schema.</p>
<p>Alliance Partnerships</p>	<p>This working group will work with most of the DMTF's alliance partners including GGF and TMF in pursuit of the objectives stated above, and will attempt to develop and maintain working relationships with other organizations such as OMG where there is no formal alliance partnership.</p>
<p>Reliance/Coordination with other WG Models</p>	<p>The DMTF Architecture Working Group is responsible for defining and documenting the DMTF management architecture and therefore must coordinate with all of the other DMTF Working Groups.</p>
<p>Prior Work</p>	<p>The prior work that forms the starting point for this Working Group includes:</p> <ul style="list-style-type: none"> • The DMTF CIM Specification version 2.2 (plus errata and addendum). • The DMTF Standards Overview Tech Note.

	<ul style="list-style-type: none"> • The preliminary work done by the TC on the definition of a strategy for CIM 3.0. • A preliminary proposal defining an object constraint language submitted to the TC in early 2003.
Current Work – Overview, Deliverables and Timeline	<ol style="list-style-type: none"> 1. Produce and release the CIM Specification version 2.3 update. This document should be made available for TC review in 4Q 2003. 2. Produce CIM Specification v3.0 in 3Q2004, including: <ol style="list-style-type: none"> a. Proposal for the functions and the overall technical and schedule plan for CIM v3.0. b. Definition of impact and migration issues for the CIM Schema to become CIM-v3.0 compliant. c. Release of the CIM 3.0 Specification. 3. Pursue addition of an object constraint language to the CIM repertoire. The target delivery to the TC is 2Q2004. 4. Review the DMTF standard technologies and suggest areas for improved documentation, coordination and coverage. The first aspect of this work is to expand on the standards interplay and architectural positioning described in the "DMTF Standards Overview" tech note. Target delivery of a DMTF architecture white paper is 2Q2004. 5. Document best design practices for CIM-based management. The initial work in this area is to produce MOF and UML style guides, to be available to the TC in 1Q2004.
DMTF Contacts	Jeff Piazza, dmtf-arch-chair@dmtf.org
Link to Subteam Charter(s)	None at present.

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