

**Utility Computing Working Group**  
**Dated 01/04/2004**

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

<b>Management Problem(s) and Environment</b>	<p>Vendors in the computer industry are uniformly embracing the need to deliver systems with a higher degree of management automation that simultaneously provides more highly available applications to consumers. Commonly described as “utility”, “autonomic”, or “on-demand” computing, consumers require that the multi-vendor components that comprise these solutions interoperate for the purpose of management. To fulfill this customer requirement, the industry requires a minimum of highly functional, secure, extensible, and interoperable management interface transports based on a single consistent, correlated, and complete manageability model.</p> <p>To deliver effective and interoperable end-to-end utility computing solutions, a breadth of existing standards organizations need to deliver specifications in conjunction with the DTMF. To facilitate collaboration with these standards organizations and their workgroups, the CIM model must be expressed in UML 1.3 or greater with industry acceptable renderings.</p>
<b>WG Charter</b>	<p>The goals of the Utility Computing Working Group are to:</p> <ol style="list-style-type: none"><li>1. Unify the computer industry on a common manageability model and profiles for utility computing. In support of this goal, the WG will write or collaborate with other standards organizations to create interoperable profiles for utility computing services.</li><li>2. Define how to assemble complete service definitions, that is, the composition of the models, the management building blocks, the business/domain specific functional interfaces, bindings, and transports.</li></ol> <p>Aspects of utility computing that are within the scope of this working group are defined by the GGF OGSA workgroup architecture document on services.</p> <p>This work builds on the existing CIM v2.x Schema. Enhancements to the CIM Schema will be fed back to the DMTF "owning" working groups.</p> <p>It is not a goal of this working group to replace or reproduce the standards and models of other industry organizations.</p>
<b>Alliance Partnerships</b>	<p>We foresee alliance partnerships with the following organizations:</p> <ul style="list-style-type: none"><li>• OASIS: Basic interface building blocks for</li></ul>

	<p>manageability, e.g. identification, state, event format; Common Web Services Technologies, e.g. notification, relationships; Design patterns using building blocks and common technologies; Domain specific management disciplines</p> <ul style="list-style-type: none"> <li>• GGF: Distributed systems management scenarios and domain specific profiles; Distributed System Services, e.g. data replication, file transfer; Domain specific management disciplines, e.g. resource reservation and scheduling</li> <li>• W3C: Web services architecture and description languages</li> <li>• WS-I: Web services manageability profiles</li> </ul>
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<b>Reliance/Coordination with other WG Models</b>	<p>The Utility Computing Working Group will work in conjunction with the Architecture and WBEM Interoperability Working Groups to ensure that the utility computing manageability model is providing requirements and implementation experience to, and consistent with current and future definitions of DMTF specifications.</p> <p>In general, the service models developed will have broad implications across all the workgroups, and hence, will require review by all workgroups.</p> <p>Close coordination is required with the TC and dmtf-arch workgroups to ensure effective use of DMTF models in the utility computing industry. The success of this work group is dependent upon the architecture work group meeting the target date of February/March 2004 in defining the toolset for transitioning the DMTF models to UML 1.3 or greater.</p>
<b>Prior Work</b>	As noted in the charter.
<b>Current Work – Overview, Deliverables and Timeline</b>	<ul style="list-style-type: none"> <li>• Determination of the pertinent classes for utility computing from the CIM v2.9 Schema</li> <li>• Develop a prioritized list of utility computing infrastructure services (ref: GGF) to be included in the CIM Schema (target: March 2004)</li> <li>• Define new CIM classes, properties, methods, etc. in support of utility computing for CIM v2.9 and following releases</li> <li>• Develop draft profiles for those utility computing infrastructure services (ref: GGF) (target: June 2004)</li> <li>• Render the "utility computing" classes of CIM v2.9 and following releases in UML 1.3 or greater (as defined by the</li> </ul>

	<p>Architecture WG), with coordination/approval from the appropriate model workgroups on that conversion (target: June 2004)</p> <ul style="list-style-type: none"> <li>▪ Produce renderings (XSD and MOF) (target: CIM v2.9 final), in conjunction with the WBEM Interoperability WG</li> <li>• Develop utility computing profiles for O.S./server and network (target: CIM v2.10)</li> </ul>
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<b>DMTF Contacts</b>	<p>Interim co-chairs:</p> <p>Ellen Stokes, <a href="mailto:stokese@us.ibm.com">stokese@us.ibm.com</a></p> <p>Roger Reich, <a href="mailto:Roger.Reich@Veritas.com">Roger.Reich@Veritas.com</a></p>
<b>Link to Subteam Charter(s)</b>	Not applicable

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