

# DMTF Architecture Work Group Charter

April 2011

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

## Management Problem(s) and Environment

The DMTF has a number of work groups dedicated to the individual technical standards and initiatives that comprise the DMTF technologies. This work group is dedicated to defining and documenting the architecture and language infrastructure that is the foundation for DMTF management profiles, registries, protocols and schemas.

## Work Group Charter

This DMTF Architecture Work Group is responsible for defining and documenting the architecture and language infrastructure that is the foundation for DMTF management profiles, registries, protocols and schemas.

The work of this group covers the following major topics:

1. Specification of the CIM Infrastructure, (meta-model and qualifiers, and the MOF language)
2. Specification of Generic Operations
3. Specification of the CIM Query Language (CQL)
4. Specification of Standard Message infrastructure
5. Specification of a mapping between the CIM meta-model and the OMG Unified Modeling Language
6. Specification of DMTF management profile infrastructure including artifacts to enable the authoring and production of machine readable profiles
7. Specification of WBEM discovery <sup>1</sup>
8. Specification of management profiles for configuration, monitoring, security, and management of WBEM Servers.
9. Specification of management profiles for common functions.
10. Specification of **standard meta data related to metrics (metric schema) and the semantics of standard metrics (metric registry).**

The DMTF Architecture Work Group defines and documents the issues and proposed solutions involving the overall management architecture and the future directions of the DMTF technologies. This includes:

1. Preparation for and specification of CIM v3 architecture, including development of a strategy for migration from CIM v2.
2. Providing recommendations regarding the evolution of the CIM meta-model and supporting technology extensions.

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<sup>1</sup> Web Based Enterprise Management (WBEM)

- 38 3. Review and approval of new DMTF architectures and technology submissions.  
39 4. Development and documentation of best design and use practices for CIM schemas  
40 (defined by DMTF or elsewhere) and extensions.  
41 5. Developing models (schema and profiles) for metrics and statistical data

## 42 **Alliance Partnerships**

43 This work group will work with most of the DMTF's alliance partnerships in pursuit of the  
44 objectives stated above, and will attempt to develop and maintain work relationships with other  
45 organizations such as OMG where there is no formal alliance partnership.

46 Identification and pursuit of relationships necessary to enhance the DMTF work to avoid  
47 duplication of efforts and to create a coherent 'model' view for the consumer.

48 Relationships are maintained with the following organizations:

- 49 • The OMG (Object Management Group) for the purpose of enhancing the overall  
50 alignment of CIM with the UML specification.
- 51 • The Open Group for the purpose of sharing implementation experience of and  
52 component architectures (e.g. CMPI) for WBEM technologies.
- 53 • The SNIA for the purpose of ongoing coordination of the Management Protocol and  
54 Management Application Work Groups.

## 55 **Reliance/Coordination with other Work Groups**

56 The DMTF Architecture Work Group coordinates with all of the other DMTF Sub-Committees  
57 and Work Groups.

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## 59 **Prior Work**

60 The prior work that forms the starting point for this Work Group includes:

- 61 • The DMTF CIM Specification through version 2.5 (plus errata and addendum).
- 62 • The preliminary work done by the TC and this workgroup on the definition of a strategy  
63 for CIM 3.0.
- 64 • The work done in the former Profile Infrastructure Work Group, the WBEM Infrastructure  
65 Modeling Work Group, the CQL Work Group, Generic Operations Work Group and the  
66 Metrics Work Group.
- 67 • See the Architecture Work Group Plan and Status document for specifications.  
68 ([http://members.dmtf.org/apps/org/workgroup/technical/dmtf-arch/documents.php?folder\\_id=1070](http://members.dmtf.org/apps/org/workgroup/technical/dmtf-arch/documents.php?folder_id=1070))

69 Current Work – Overview, Deliverables and Timeline

70 The current deliverables and timeline for the workgroup are available in the Architecture Work  
71 Group Plan and Status document.

## 72 **Link to Subteam Charter(s)**

73 None.

74 **DMTF Contacts**

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