



CIM Compliance

Specification

DSP0105

STATUS: Final

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ABSTRACT

The CIM Compliance Specification describes the requirements for Managed Object Format (MOF) files to be compliant to the CIM Specification and CIM Standard Schema. This Compliance Specification does not impose any conformance requirements in connection with the means by which a MOF may be imported, exported or otherwise accessed.

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1. Definitions

The following definitions are used in this document:

- *CIM Specification* is the DMTF [Common Information Model \(CIM\) Specification Version 2.2](#) published 14th June 1999, in conjunction with the two addenda documents, [CIM Specification v2.2 version 01](#) and [CIM Specification v2.2 version 02](#) published since the original specification.
- *CIM Standard Class* is as defined in the CIM Specification.
- *CIM Extension Class* is as defined in the CIM Specification.
- *Named Element* is as defined in the CIM Specification.
- *CIM Standard Schema* is a set of CIM Standard Classes consisting of the Core and Common models as defined by the DMTF CIM Schema at a given version. The DMTF CIM Schema is available from the DMTF website at http://www.dmtf.org/standards/standard_cim.php.
- *CIM-compliant MOF* is MOF that is compliant to the CIM Standard Schema and optionally CIM Extension Classes.

2. Conformance Requirements

The conformance requirements for a CIM-compliant MOF are derived from the CIM Specification. The conformance requirements are divided into two categories, CIM Compliance and CIM Extension Class Compliance.

2.1 Conformance Requirements for CIM Compliance:

A CIM-compliant MOF must conform to the requirements below, derived mainly from the CIM Implementation requirements stated in section 1.2.1 of the CIM Specification. Specifically:

1. A CIM-compliant MOF must consist of properly formed MOF constructs. (The definition of properly formed MOF is contained in other sections of the CIM Specification.)
2. CIM Standard Classes instantiated in the MOF must contain as key properties all key properties from the CIM Standard Schema, and as required properties all properties marked as required in the CIM Standard Schema.
3. CIM Standard Classes instantiated in the MOF that contain properties and methods present in the CIM Standard Schema must use the same property types and method signatures as used in the CIM Standard Schema for those properties or methods.

2.2 Conformance Requirements for CIM Extension Class Compliance:

A CIM-compliant MOF may register CIM Extension Classes, in which case they must conform to the requirements of CIM Extensions, as stated in section 2.3 of the CIM Specification. Specifically:

1. CIM Extension Classes must be derived as interface preserving subclasses of classes in the CIM Standard Schema, as described in 2.3.1.
2. CIM Extension Classes must use the DESCRIPTION qualifier to provide descriptions for all Named Elements.

3. Operational Environment

There are no conformance requirements on the operational environment for CIM-compliant MOF.

4. Portability Environment

The Portability Environment is the set of APIs or other services that must be available to applications that wish to make use of a CIM-compliant MOF.

This compliance specification makes no requirements upon the Portability Environment.

5. Overriding Standards

Although several specifications are referenced by the CIM Specification, in each case, the CIM specification defers requirements to these referenced specifications directly rather than replicating them, thus there are no overriding standards for the conformance requirements of a CIM-compliant MOF.

6. Indicators of Compliance

A test report from a currently approved release of the CIM Certification Test Suite is required, indicating that the MOF is conformant with the CIM Standard Schema, and all extensions are conformant CIM Extensions.

7. Migration

As this is the first CIM Compliance Specification, there are no migration issues.