
DMTF Common Information Model (CIM) Specification

Readme

Version 2.16.0

August 2007

This document describes the changes that have been incorporated into the CIM schema for the CIM Version 2.16.0 release.

The *experimental* ZIP file contains entities that were approved for CIM V2.16.0 that did not have sufficient implementation experience to be taken Final. The *final* ZIP file contains entities that have at least two independent implementations. Entities that are designated as final cannot be changed in a backward incompatible way between point releases.

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Contributions to the CIM schema have been provided through the DMTF Alliance Partnerships with the Storage Networking Industry Association (SNIA) and the Open Grid Forum (OGF).

1.0 Installation

To install the CIM V2.16.0 schema:

1. Download the ZIP files from the DMTF CIM standards page (<http://www.dmtf.org/standards/cim/>). The ZIP files can be found under the "CIM Schema and Specifications" section. The release contains both the experimental and final MOFs.

- cimv216Experimental-MOFs.zip
- cimv216Final-MOFs.zip

These files contain all the MOF files that are part of the CIM schema. The experimental ZIP file contains the latest experimental schema. This schema may change in a backward incompatible way based on implementation experience. The final ZIP file contains just the portions of the schema that is in a final state.

- cimv216Experimental-xmlAll.zip
- cimv216Final-xmlAll.zip

These files contain a rendering of the CIM schema in XML into a single file.

- cimv216Experimental-xmlClasses.zip
- cimv216Final-xmlClasses.zip

These files contain a rendering of the CIM schema in XML into individual files, one file per entity.

- cimv216Experimental-XSDClasses.zip
- cimv216Final-XSDClasses.zip

These files contain a rendering of the CIM schema in XSD into individual files, one file per entity.

- cimv216Experimental-DOC.zip
- cimv216Final-DOC.zip

These files contain a rendering of the CIM schema in HTML format.

- cimv216-Final-Experimental-diff.zip
- cimv216-cimv215-Experimental-diff.zip
- cimv216-cimv215-Final-diff.zip

These files contain a comparison of the differences in the CIM schema rendered in HTML format. The files contain the differences between 2.16.0 Final and 2.16.0 Experimental, 2.16.0 and 2.15.0 Experimental and 2.16.0 and 2.15.0 Final respectively.

- cimv216Experimental-Visios.zip
- cimv216Final-Visios.zip

These files contain the UML representations of the CIM schema in Visio format.

2. Unzip the downloaded files. Please be aware that the MOFs will be expanded into the directory that you specify. Subdirectories are created for each separate model area.

2.0 Schema Changes

This section describes the changes that were made for CIM V2.16.0.

Changes for CIM V2.16.0 Final

The table below contains the list of changes for CIM V2.16.0 final.

Class	Change
qualifiers.mof	ARCHCR00099.004.htm Changed EmbeddedInstance flavor from DisableOverride to EnableOverride
Device/CIM_PCIDevice.mof Device/CIM_PCIBridge.mof Device/CIM_PCIController.mof	CIMCoreCR00899.002.htm Adding properties to PCIDevice, revising PCIBridge parent class and properties, adding enumeration values to PCIController and adding new classes PCISwitch, PCIPort and PCIPortGroup
System/CIM_ComputerSystem.mof	CIMCoreCR00908.002.htm Add value to ComputerSystem.Dedicated
Device/CIM_Sensor.mof Device/CIM_NumericSensor.mof	CIMCoreCR00909.001.htm Clarify usage of logical sensors
Core/CIM_EnabledLogicalElement.mof	CIMCoreCR00913.005.htm Remove "No Change" from list of values for RequestedState
Device/CIM_Processor.mof	CIMCoreCR00921.002.htm Add new Processor Family values

Core/CIM_SettingData.mof	CIMCoreCR00937.001.htm Broaden description of SettingData to include current state for Aspect
Device/CIM_Processor.mof	CIMCoreCR00939.001.htm Add new Processor Family values
Device/ CIM_NumericSensor.mof Device/CIM_Sensor.mof	CIMCoreCR00942.000.htm Add Pressure Sensor Support
Core/CIM_ServiceServiceDependency.mof	CIMCoreCR00943.000.htm Broaden usage of ServiceServiceDependency
Interop/CIM_RegisteredProfile.mof	WIPCR00373.001.html Add OGF to organization list
User/CIM_KerberosTicket.mof User/CIM_NamedSharedIKESecret.mof User/CIM_PublicKeyCertificate.mof User/CIM_SharedSecret.mof User/CIM_UnsignedPublicKey.mof User/CIM_CASignsPublicKeyCertificate.mof User/CIM_KDCIssuesKerberosTicket.mof User/CIM_IKESecretIsNamed.mof User/CIM_SharedSecretIsShared.mof User/CIM_LocallyManagedPublicKey.mof User/CIM_ManagedCredential.mof	WIPCR00383.004.htm New Credential class hierarchy resulting in deprecating classes.

Changes for CIM V2.16.0 Experimental

The table below contains the list of changes for CIM V2.16.0 experimental.

Class	Change
Core\CIM_StorageConfigurationCapabilities.mof	CIMCoreCR00873.002.htm Adding
Device/CIM_PCISwitch.mof Device/CIM_PCIPort.mof Device/CIM_PCIPortGroup.mof	CIMCoreCR00899.002.htm Adding properties to PCIDevice, revising PCIBridge parent class and properties, adding enumeration values to PCIController and adding new classes PCISwitch, PCIPort and PCIPortGroup
Core/CIM_PrintOutputTray.mof	CIMCoreCR00901.014.htm Add new class CIM_PrintOutputTray to enhanced printer device model.
Device/CIM_IndicatorLED.mof Device/CIM_IndicatorLEDCapabilities.mof Device/CIM_AssociatedIndicatorLED.mof	CIMCoreCR00907.011.htm Add support for modeling LEDs
Core/CIM_RecordedSetting.mof Core/CIM_ResourcePoolConfigurationService.mof Core/CIM_ResourcePool.mof	CIMCoreCR00910.002.htm Corrections to virtualization MOF
Core/CIM_ManagedSystemElement.mof Core/CIM_EnabledLogicalElement.mof	CIMCoreCR00911.002.html Move status related properties up to CIM_ManagedSystemElement
Core/CIM_EnabledLogicalElement.mof	CIMCoreCR00912.001.htm Add EnabledLogicalElement.AvailableRequestedStates
Core/CIM_VirtualSystemSettingDataComponent.mof	CIMCoreCR00914.002.htm Add new association CIM_VirtualSystemSettingDataComponent
System/CIM_PlatformWatchdogService.mof	CIMCoreCR00915.003.htm Creation of CIM_PlatformWatchdogService and CIM_PlatformWatchdogServiceCapabilities
Core/CIM_StatusCollection.mof	CIMCoreCR00916.003.html Add StatusCollection class
Core/CIM_MemberOfStatusCollection.mof	CIMCoreCR00917.003.html Add CIM_MemberOfStatusCollection class
Core/CIM_EnabledLogicalElement.mof Core/CIM_EnabledLogicalElementCapabilities.mof	CIMCoreCR00918.001.htm Add representation of in progress transition of EnabledState
Core/CIM_VirtualSystemSnapshotCapabilities.mof Core/CIM_SnapshotOfVirtualSystem.mof Core/CIM_LastAppliedSnapshot.mof Core/CIM_MostCurrentSnapshotInBranch.mof Core/CIM_VirtualSystemSnapshotService.mof	CIMCoreCR00919.007.html CIM Schema changes for snapshot support for System Virtualization

Core/CIM_VirtualSystemSnapshotServiceCapabilities.mof Core/CIM_VirtualSystemManagementCapabilities.mof	
Core/CIM_VirtualSystemSettingData.mof	CIMCoreCR00920.006.html CIM Schema changes to extend the list of properties of the CIM_VirtualSystemSettingData class.
Core/CIM_PrintInputTray.mof	CIMCoreCR00930.002.htm Add new class CIM_PrintInputTray to enhanced printer device model.
Networks/RedirectionServiceCapabilities.mof	CIMCoreCR00933.000.htm Add RedirectionServiceCapabilities.mof
Core/CIM_Service.mof Core/CIM_ServiceAffectsElement.mof	CIMCoreCR00934.003.html Add ordering to servicing managed elements during service execution.
Core/CIM_PowerSource.mof Core/CIM_PowerSupply.mof Core/CIM_Battery.mof Device/CIM_SuppliesPower.mof	CIMCoreCR00935.005.html Add a parent class to CIM_PowerSupply and CIM_Battery to represent a generic power source.
Core/CIM_PowerConfigurationService.mof Core/CIM_PowerConfigurationCapabilities.mof	CIMCoreCR00936.004.html Add service and capabilities to configure the system's power topology.
Core/CIM_BasicExecutionService.mof	CIMCoreCR00938.006.htm Add new class for an execution service (OGSA support)
Device/CIM_NumericSensor.mof	CIMCoreCR00949.001.htm Increase precision of reporting NumericSensor accuracy
Event/AbstractIndicationSubscription.mof	DMTFCR01787.000.htm AbstractIndicationSubscription.SubscriptionInfo property introduced in WIPCR00329 is missing
Network/CIM_IPProtocolEndpoint.mof	NetworksCR00093.000.htm Add support for representing IP addresses assigned by RFC3927
System/CIM_BootServiceCapabilities.mof	SMWGCR00120.005.htm Add BootStringsSupported array property to BootServiceCapabilities
Network/RedirectionService.mof Network/TextRedirectionService.mof Network/KVMRedirectionSAP.mof	SMWGCR00126.004.htm Add model extensions to cover the KVM Profile & Other Redirection Types
Core/CIM_AssociatedPowerManagementService.mof	SMWGCR00131.006.htm Add additional enumeration value to CIM_AssociatedPowerManagementService. RequestedPowerState
Metrics/CIM_BaseMetricDefinition.mof	WGAPPCR00059.002.htm Add accuracy to BaseMetricDefinition
Event/CIM_ListenerDestination.mof	WIPCR00363.003.htm Change Destination property definition to IETF URI
User/CIM_RemoteIdentity.mof	WIPCR00374.003.htm Create CIM_RemoteIdentity
Event/CIM_IndicationFilter.mof	WIPCR00381.001.htm Add SourceNamespaces array property to CIM_IndicationFilter
Event/CIM_Indication.mof	WIPCR00382.002.htm Add IndicationFilterName property to CIM_Indication class
Event/CIM_IndicationFilter.mof	WIPCR00390.000.htm Extend IndicationFilter to indicate individual subscribability
User/CIM_KerberosTicket.mof User/CIM_NamedSharedIKESecret.mof User/CIM_PublicKeyCertificate.mof User/CIM_SharedSecret.mof User/CIM_UnsignedPublicKey.mof	WIPCR00383.004.htm New Credential class hierarchy resulting in deprecating classes.
Event/CIM_IndicationServiceCapabilities.mof	WIPCR00391.004.htm Add CIM_IndicationServiceCapabilities.MaxListenerDestinations.
Event/CIM_IndicationServiceCapabilities.mof	WIPCR00396.002.htm Additional Advertisement of Indication Subscription capabilities
User/CIM_SignedCredential.mof	WIPCR00397.006.htm Add X509 specific properties
Event/CIM_FilterCollection.mof	WIPCR00399.000.htm FilterCollection.CollectionName format is incorrect
Event/CIM_IndicationFilter.mof	WIPCR00421.002.htm Additional CQLT support in IndicationFilter
Interop/CIM_ObjectManagerCommunicationMechanism.mof Interop/CIM_CIMXMLCommunicationMechanism.mof	WIPCR00422.002.htm Declare support for behaviors of Pulled Enumerations

Interop/ CIM_ QueryCapabilities.mof	WIP_CQLCR00000.002.htm CQL add Features to QueryCapability
User/CIM_AccountManagementService.mof	WIP_SECCR00000.003.htm Add output parameter "Identities" to experimental method CIM_AccountManagementService.CreateAccount
User\CIM_SignedCredential.mof User\CIM_UnsignedCredential.mof	WIP_SECCR00001.001.htm Add PublicKeyEncoding and OtherPublicKeyEncoding properties to classes CIM_SignedCredential and CIM_UnsignedCredential
User\CIM_SharedSecret.mof	WIP_SECCR00004.001.htm Add octetstring qualifier to CIM_SharedSecret Secret property