DMTF Common Information Model (CIM) Specification

Readme

Version 2.15.0

April 2007

This document describes the changes that have been incorporated into the CIM schema for the CIM Version 2.15.0 release.

The *experimental* ZIP file contains entities that were approved for CIM V2.15.0 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.

any party implementing the standard from any and all claims of infringement by a patent owner for such implementations.

For information about patents held by third-parties which have notified the DMTF that, in their opinion, such patent may relate to or impact implementations of DMTF standards, visit http://www.dmtf.org/about/policies/disclosures.php.

1.0 Installation

To install the CIM V2.15.0 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.

    - cim2150Experimental-MOFs.zip
    - cim2150Final-MOFs.zip

    This file contains 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.

    - cim2150Experimental-xmlAll.zip
    - cim2150Final-xmlAll.zip

    This file contains a rendering of the CIM schema in XML into a single file.

    - cim2150Experimental-xmlClasses.zip
    - cim2150Final-xmlClasses.zip

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

    - cim2150Experimental-Visios.zip
    - cim2150Final-Visios.zip

    This file contains the UML representations of the CIM schema in Visio format.

    - cim2150Experimental-PDFs.zip
    - cim2150Final-PDFs.zip

This file contains the UML representations of the CIM schema in PDF 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 V2.15.0.

Changes for CIM V2.15.0 Final

The table below contains the list of changes for CIM V2.15.0 final.

Class	Change
Qualifiers_optional.mof	ARCHCR00071 Add new DisplayDescription qualifier
Qualifiers.mof	ARCHCR00072 Deprecate units and add programmatic units
Core/CIM_ProductElementComponent.mof	CIMCoreCR00827 Update associations related to Product
System/CIM_ComputerSystem.mof	CIMCoreCR00827 Add enumeration values to Dedicated property of CIM_ComputerSystem for Host-based RAID Controllers and Storage Device Enclosures.
Device/CIM_Processor	CIMCoreCR00868, CIMCoreCR00879, CIMCoreCR00887 Add new processor family value.
Device/CIM_Sensor.mof	CIM_CoreCR00881 Add new enumerations to SensorType
Device/CIM_Processor	CIMCoreCR00885 Match values that SMBIOS used to support Type 4 enum extension.
Device/CIM_ControllerConfigurationService.mof	CIMCoreCR00891 Remove inappropriate 'Required' qualifiers from ControllerConfigurationService methods
Device/CIM_SCSIInitiatorTargetLogicalUnitPath.mof	CIMCoreCR00892 New Parent Class with up-leveling of some properties.
Core/CIM_ProtocolEndpoint.mof	CIMCoreCR00896 Add protocols that are outside the scope of IANA IFType
System/CIM_ComputerSystem.mof	CIMCoreCR00898 Fix description of ComputerSystem.Dedicated
Core/CIM_System.mof System/CIM_ComputerSystem.mof	CIMCoreCR00902 Promote OtherIdentifyingInfo and IdentifyingDescriptions
System/CIM_UnitaryComputerSystem.mof	CIMCoreCR00903 Deprecate CIM_UnitaryComputerSystem
Device/CIM_LogicalDisk.mof	CIMCoreCR00904 Promote LogicalDisk experimental properties and description to Final
System/CIM_ComputerSystem.mof	DMWGCR00030 Add values to Dedicated Property
Network/CIM_X509CredentialFilterEntry.mof	DMTFCR01781 Add leading zero to hex value.
Core/CIM_PowerManagementCapabilities.mof Core/CIM_PowerManagementService.mof	SMWGCR00102 Deprecate CIM_PowerManagementCapabilities.PowerCapabilities, CIM_PowerManagementCapabilities.OtherPowerCapabilitiesDescriptions and CIM_PowerManagementService.SetPowerState() method.
Core\CIM_AffectedJobElement	SVPCCR00026 Support changes to represent System Virtualization

Changes for CIM V2.15.0 Experimental

The table below contains the list of changes for CIM V2.15.0 experimental.

Class	Change
Core/EnabledLogicalElement.mof	CIMCoreCR00874 Add new properties to EnabledLogicalElement to provide useful
Core/ CIM_SettingsDefineState.mof	CIMCoreCR00878 Add SettingsDefineState association
Core/CIM_SettingData.mof Core/CIM_StorageSetting.mof	CIMCoreCR00888 Improve usage of CIM_SettingData to represent a configuration.
Core/CIM_ElementSettingData.mof	CIMCoreCR00889 Clarify usage of CIM_SettingData to represent applied/pending settings
Device/CIM_InitiatorTargetLogicalUnitPath.mof Device/CIM_ATAInitiatorTargetLogicalUnitPath.mof	CIMCoreCR00892 New Parent Class for SCSIInitiatorTargetLogicalUnitPath to accommodate ATA InitiatorTargetLogicalUnitPath.
Device/CIM_AlarmDeviceCapabilities.mof	CIMCoreCR00895 New class to support Alarm Device Profile
Core/CIM_RemoteServiceAccessPoint.mof	CIMCoreCR00895 Extend CIM_RemoteServiceAccessPoint.AccessContext with additional values.
Security/CIM_IPPacketFilterIndication.mof Security/CIM_SecurityIndication.mof Security/CIM_IPNetworkSecurityIndication.mof	DMTFCR01782 Get rid of extra comments / #pragma.
Core\CIM_VirtualSystemManagementCapabilities.mof	DMTFCR01783 Change IndicationsSupported from boolean to uint16
Core\CIM_ResourcePoolConfigurationCapabilities.mof Core\CIM_ResourcePoolConfigurationService.mof	DMTFCR01784 Reconcile names of methods to make them consistent between mofs
Networs/CIM_Network.mof	NetworksCR00092 Modify CreateNetworkPipe() to take multiple SAPs and to return a Job
Core/CIM_PowerManagementCapabilities.mof Core/CIM_PowerManagementService.mof	SMWGCR00103 Modify the enumerations and Model Correspondence of CIM_PowerManagementCapabilities.PowerStatesSupported. Modify the description of CIM_PowerManagementService.RequestPowerStateChange()
Core\CIM_VirtualSystemManagementService.mof Core\CIM_VirtualSystemManagementCapabilities Core\CIM_AggregatedVirtualSystemManagementService	SVPCCR00026 CIM Schema changes for System Virtualization Profile
CIM_ElementAllocatedFromPool.mof CIM_HostedResourcePool.mof CIM_RecordedSetting.mof CIM_ResourceAllocationFromPool.mof CIM_ResourceAllocationSettingData.mof CIM_ResourcePool.mof CIM_ResourcePoolConfigurationCapabilities.mof CIM_ResourcePoolConfigurationService.mof CIM_StoragePool.mof CIM_HostedStoragePool.mof CIM_AllocatedFromStoragePool.mof	SVPCCR00032 Introduce ResourcePool and related resource allocation classes
Metric/CIM_AggregationMetricDefinition.mof Metric/CIM_AggregationMetricValue.mof	WGAPPCR00056 Add watermark support to metrics model
Metric/CIM_MetricService.mof Metric/CIM_MetricDefForME.mof Metric/CIM_MetricServiceCapabilities.mof Metric/CIM_BaseMetricDefinition.mof	WGAPPCR00057 Add support for controlling Metrics
Event/ CIM_FilterCollection.mof	WIPCR00328 Create CIM_FilterCollection
Event/CIM_IndicationSubscription.mof Event/CIM_AbstractIndicationSubscription.mof,	WIPCR00329 Insert abstract subscription, add new filter subscription subclass
Interop/CIM_Error.mof	WIPCR00347 Align PerceivedSeverity property in CIM_Error with CIM_Indication and CIM_AlertIndication
User/CIM_RoleBasedManagementCapabilties.mof	WIPCR00348 Add CIM_RoleBasedManagementCapabilties class

Interop/CIM_Error.mof Interop/CIM_AlertIndication.mof	WIPCR00352 Clarify usage of MessageArguments
Event/CIM_IndicationService.mof Event/CIM_IndicationServiceSettingData.mof Event/CIM_IndicationServiceCapabilities.mof	WIPCR00354 Update IndicationService to align with SettingData and add Capabilities
Application/CIM_MemoryCheck.mof Application/CIM_DiskSpaceCheck.mof Application/CIM_FileSpecification.mof Application/CIM_SwapSpaceCheck.mof Device/CIM_ADSLModem.mof Device/CIM_ADSLModem.mof Device/CIM_AGPVideoController.mof Device/CIM_AGPVideoController.mof Device/CIM_AGPVideoDisplayController.mof Device/CIM_AGPVideoDisplayController.mof Device/CIM_BlockStorageStatisticalData.mof Device/CIM_BlockStorageStatisticalData.mof Device/CIM_BlockStorageStatisticalData.mof Device/CIM_Memory.mof Device/CIM_Memory.mo Device/CIM_ADSLModem.mof Device/CIM_IBPort.mof Device/CIM_MediaAccessDevice.mof Device/CIM_PCIBridge.mof Device/CIM_PCIController.mof Device/CIM_PCIDevice.mof Device/CIM_PCIDevice.mof Device/CIM_PointingDevice.mof Device/CIM_PrintJob.mof Device/CIM_PrintQueue.mof Device/CIM_Printer.mof Device/CIM_Unimodem.mof IPsecPolicy/CIM_IKEProposal.mof IPsecPolicy/CIM_PreconfiguredSAAction.mof IPsecPolicy/CIM_SANegotiationAction.mof Network/CIM_AverageRateMeterService.mof Network/CIM_BoundedPrioritySchedulingElement.mof Network/CIM_EWMAMeterService.mof Network/CIM_MPLSProtocolEndpoint.mof Network/CIM_MPLSProtocolEndpoint.mof Network/CIM_MPLSQosPRTrfcProf.mof Network/CIM_MPLSTunnel.mof Network/CIM_MPLSTunnel.mof Network/CIM_MPLSTunnel.mof Network/CIM_REDDropperService.mof Network/CIM_REDDropperService.mof Network/CIM_SATransform.mof Network/CIM_SecurityAssociationEndpoint.mof Network/CIM_TokenBucketMeterService.mof Network/CIM_TokenBucketMeterService.mof Network/CIM_TokenBucketMeterService.mof Network/CIM_TokenBucketMeterService.mof Physical/CIM_MemoryCapacity.mof Physical/CIM_MemoryCapacity.mof Physical/CIM_Chassis.mof Physical/CIM_ChassisInRack.mof Physical/CIM_Rack.mof System/CIM_OperatingSystem.mof System/CIM_OperatingSystem.mof System/CIM_OperatingSystem.mof System/CIM_OperatingSystem.mof System/CIM_OperatingSystem.mof System/CIM_OperatingSystem.mof System/CIM_OperatingSystem.mof System/CIM_OperatingSystem.mof System/CIM_UnixProcessStatisticalInformation.mof System/CIM_UnixProcessStatisticalInformation.mof System/CIM_UnixProcessStatisticalInformation.mof System/CIM_UnixProcessStatisticalInformation.mof System/CIM_UnixProcessStatisticalInformation.mof	ARCHCR00089.004.htm Add PUnit qualifier values to Units qualifier values

System/CIM_UnixProcessStatisticalInformation.mof System/CIM_UnixProcessStatisticalInformation.mof System/CIM_UnixProcessStatisticalInformation.mof System/CIM_UnixProcessStatisticalInformation.mof System/CIM_UnixProcessStatisticalInformation.mof	