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Physical Computer System View Profile

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Foreword

The *Physical Computer System View Profile* (DSP1108) was prepared by the Server Desktop Mobile Platforms Working Group of the DMTF.

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Introduction

The information in this specification should be sufficient for a provider or consumer of this data to identify unambiguously the classes, properties, methods, and values that shall be instantiated and manipulated to represent and manage a physical computer system and its associated management information.

The target audience for this specification is implementers who are writing CIM-based providers or consumers of management interfaces that represent the components described in this document.

Document conventions

Typographical conventions

The following typographical conventions are used in this document:

- Document titles are marked in *italics*.
- Important terms that are used for the first time are marked in *italics*.
- Terms include a link to the term definition in the "Terms and definitions" clause, enabling easy navigation to the term definition.
- ABNF rules are in `monospaced font`.

ABNF usage conventions

Format definitions in this document are specified using ABNF (see RFC5234), with the following deviations:

- Literal strings are to be interpreted as case-sensitive Unicode characters, as opposed to the definition in RFC5234 that interprets literal strings as case-insensitive US-ASCII characters.

Physical Computer System View Profile

1 Scope

The *Physical Computer System View Profile* describes a view of the management capability of referencing profiles by adding the capability to represent a physical computer system view of a managed computer system. This profile includes a specification of the physical computer system view, extrinsic methods for management operations, and its associated relationships to referencing profiles. This profile is not intended to provide all details of referenced profiles.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated or versioned references, only the edition cited (including any corrigenda or DMTF update versions) applies. For references without a date or version, the latest published edition of the referenced document (including any corrigenda or DMTF update versions) applies.

DMTF DSP0004, *CIM Infrastructure Specification 2.6*,
http://www.dmtf.org/standards/published_documents/DSP0004_2.6.pdf

DMTF DSP0200, *CIM Operations over HTTP 1.3,*
http://www.dmtf.org/standards/published_documents/DSP0200_1.3.pdf

DMTF DSP0223, *Generic Operations 1.0*,
http://www.dmtf.org/standards/published_documents/DSP0223_1.0.pdf

DMTF DSP1001, *Management Profile Specification Usage Guide 1.0*,
http://www.dmtf.org/standards/published_documents/DSP1001_1.0.pdf

DMTF DSP1009, *Sensors Profile 1.0*,
http://dmtf.org/sites/default/files/standards/documents/DSP1009_1.0.pdf

DMTF DSP1009, *Sensors Profile 1.1*,
http://dmtf.org/sites/default/files/standards/documents/DSP1009_1.1.pdf

DMTF DSP1010, *Record Log Profile 1.0*,
http://www.dmtf.org/sites/default/files/standards/documents/DSP1010_1.0.pdf

DMTF DSP1010, *Record Log Profile 2.0*,
http://www.dmtf.org/sites/default/files/standards/documents/DSP1010_2.0.pdf

DMTF DSP1011, *Physical Asset Profile 1.0,*
http://www.dmtf.org/sites/default/files/standards/documents/DSP1011_1.0.pdf

DMTF DSP1012, *Boot Control Profile 1.0*,
http://dmtf.org/sites/default/files/standards/documents/DSP1012_1.0.pdf

DMTF DSP1022, *CPU Profile 1.0*,
http://dmtf.org/sites/default/files/standards/documents/DSP1022_1.0.pdf

DMTF DSP1023, *Software Inventory Profile 1.0*,
http://dmtf.org/sites/default/files/standards/documents/DSP1023_1.0.pdf

DMTF DSP1025, *Software Update Profile 1.0*,
http://dmtf.org/sites/default/files/standards/documents/DSP1025_1.0.pdf

DMTF DSP1026, *System Memory Profile 1.0*,
http://dmtf.org/sites/default/files/standards/documents/DSP1026_1.0.pdf

DMTF DSP1029, *OS Status Profile 1.0,*
http://dmtf.org/sites/default/files/standards/documents/DSP1029_1.0.pdf

DMTF DSP1029, *OS Status Profile 1.1,*
http://dmtf.org/sites/default/files/standards/documents/DSP1029_1.1.pdf

DMTF DSP1033, *Profile Registration Profile 1.0,*
http://www.dmtf.org/standards/published_documents/DSP1033_1.0.pdf

DMTF DSP1033, *Profile Registration Profile 1.1,*
http://www.dmtf.org/standards/published_documents/DSP1033_1.1.pdf

DMTF DSP1052, *Computer System Profile 1.0,*
http://www.dmtf.org/sites/default/files/standards/documents/DSP1052_1.0.pdf

DMTF DSP1085, *Power Utilization Management Profile 1.0*,
http://dmtf.org/sites/default/files/standards/documents/DSP1085_1.0.pdf

IETF RFC5234, *ABNF: Augmented BNF for Syntax Specifications, January 2008*,
http://tools.ietf.org/html/rfc5234

ISO/IEC Directives, Part 2, *Rules for the structure and drafting of International Standards,*
http://isotc.iso.org/livelink/livelink.exe?func=ll&objId=4230456&objAction=browse&sort=subtype

3 Terms and definitions

In this document, some terms have a specific meaning beyond the normal English meaning. Those terms are defined in this clause.

The terms "shall" ("required"), "shall not," "should" ("recommended"), "should not" ("not recommended"), "may," "need not" ("not required"), "can" and "cannot" in this document are to be interpreted as described in ISO/IEC Directives, Part 2, Annex H. The terms in parenthesis are alternatives for the preceding term, for use in exceptional cases when the preceding term cannot be used for linguistic reasons. Note that ISO/IEC Directives, Part 2, Annex H specifies additional alternatives. Occurrences of such additional alternatives shall be interpreted in their normal English meaning.

The terms "clause," "subclause," "paragraph," and "annex" in this document are to be interpreted as described in ISO/IEC Directives, Part 2, Clause 5.

The terms "normative" and "informative" in this document are to be interpreted as described in ISO/IEC Directives, Part 2, Clause 3. In this document, clauses, subclauses, or annexes labeled "(informative)" do not contain normative content. Notes and examples are always informative elements.

The terms defined in DSP0004, DSP0223, DSP1001, and DSP1033 apply to this document. The following additional terms are used in this document.

3.1
conditional
indicates requirements to be followed strictly to conform to the document when the specified conditions are met

3.2
mandatory
indicates requirements to be followed strictly to conform to the document and from which no deviation is permitted

3.3
optional
indicates a course of action permissible within the limits of the document

3.4
referencing profile
indicates a profile that owns the definition of this class and can include a reference to this profile in its "Referenced Profiles" table

3.5
unspecified
indicates that this profile does not define any constraints for the referenced CIM element or operation

4 Symbols and abbreviated terms

The abbreviations defined in DSP0004, DSP0223, and DSP1001 apply to this document. The following additional abbreviations are used in this document.

4.1
BIOS
Basic Input Output System

4.2
EFI
Extensible Firmware Interface

4.3
FRU
Field Replaceable Unit

4.4
SKU
Stock Keeping Unit

5 Synopsis

Profile name: Physical Computer System View

Version: 1.0.3

Organization: DMTF

CIM schema version: 2.36

Central class: CIM_PhysicalComputerSystemView

Scoping class: CIM_ComputerSystem

The *Physical Computer System View Profile* extends the management capability of referencing profiles by adding the capability to represent a physical computer system view of a managed computer system. This profile includes a specification of the physical computer system view, extrinsic methods for management operations, and its associated relationships to referencing profiles.

Table 1 identifies profiles on which this profile has a dependency.

Table 1 – Referenced profiles

Profile Name	Organization	Version	Requirement	Description
Profile Registration	DMTF	1.0	Mandatory	None
Profile Registration	DMTF	1.1	Optional	None
Computer System	DMTF	1.0	Optional	None
Power Utilization Management	DMTF	1.0	Optional	None
Sensors	DMTF	1.0	Optional	None
Sensors	DMTF	1.1	Optional	None
Record Log	DMTF	1.0	Optional	None
Boot Control	DMTF	1.0	Optional	None
Software Inventory	DMTF	1.0	Optional	None
System Memory	DMTF	1.0	Optional	None
Physical Asset	DMTF	1.0	Optional	None
OS Status	DMTF	1.0	Optional	None
OS Status	DMTF	1.1	Optional	None
CPU	DMTF	1.0	Optional	None
Software Update	DMTF	1.0	Optional	None

6 Description

The *Physical Computer System View Profile* describes a physical computer system and associated management information in a managed computer system.

Figure 1 represents the class schema for the *Physical Computer System View Profile*. For simplicity, the CIM_ prefix has been removed from the names of the classes.

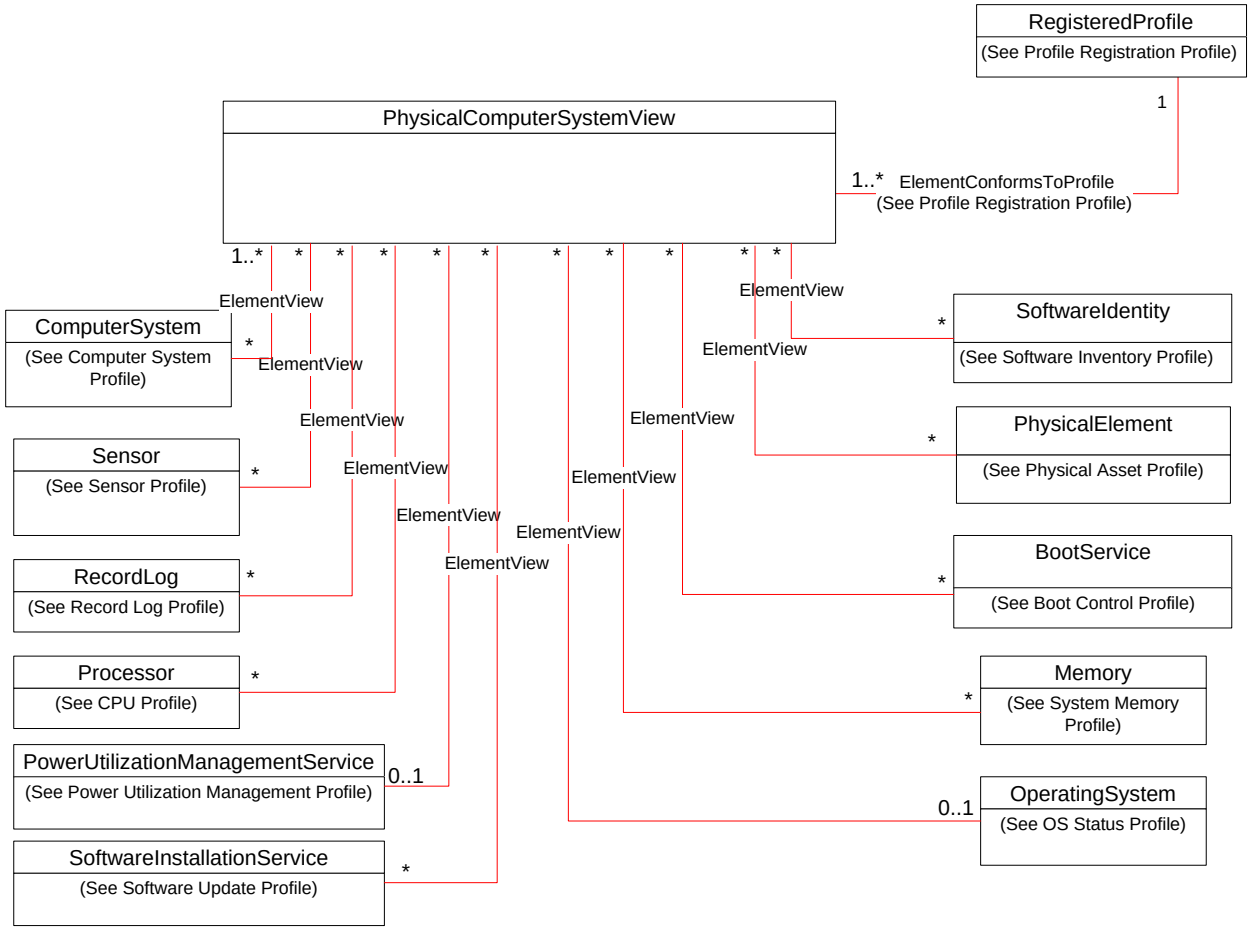

Figure 1 – Physical Computer System View Profile: Class diagram

7 Implementation

This clause details the requirements related to the arrangement of instances and properties of instances for implementations of this profile.

7.1 Representing a physical computer system view

A view of the managed computer system shall be represented by an instance of CIM_PhysicalComputerSystemView. The properties of the instance of CIM_PhysicalComputerSystemView shall reflect the current state and configuration of a managed computer system conforming to the referenced profiles.

When the ImplementedFeatures property of the CIM_RegisteredProfile instance contains the value listed in Table 2 below, the corresponding CIM_PhysicalComputerSystemView property shall conform to requirements for the corresponding property listed in the table as specified by the referenced profile.

7.1.1 Representing information from multiple instances of the same class

A subset of properties for CIM_PhysicalComputerSystemView may represent information from multiple instances of same class. Indexed Arrays are used in CIM_PhysicalComputerSystemView for such properties. The value in the array correspondence column in Table 2 identifies the class whose multiple instances are represented by the corresponding array property in CIM_PhysicalComputerSystemView.

7.1.1.1 Properties of each instance

The same index in properties with array correspondence with the same class shall represent a view of a single instance of that class.

7.1.1.2 Property correspondence

The elements of properties with array correspondence with a class shall correspond to the respective properties of the corresponding instance of that class as in Table 2.

7.1.1.3 Matching property values to normalized instances

For all properties with array correspondence with a class as in Table 2, the value at each index shall match the value of the corresponding property of the corresponding instance of that class.

294 **Table 2 – CIM_PhysicalComputerSystemView property model correspondence**

Implemented Feature Value	CIM_PhysicalComputerSystemView Property	Origin Class/Property or Model Correspondence	Referenced Profile
DMTF:Physical AssetView	FRUInfoSupported	CIM_PhysicalAssetCapabilities.FRUInfoSupported for CIM_Chassis	DSP1011 1.0 Clause 10.2
	Tag	CIM_Chassis.Tag	DSP1011 1.0 Clause 10.2
	Manufacturer	CIM_Chassis.Manufacturer	DSP1011 1.0 Clause 10.2
	Model	CIM_Chassis.Model	DSP1011 1.0 Clause 10.2
	SKU	CIM_Chassis.SKU	DSP1011 1.0 Clause 10.2
	SerialNumber	CIM_Chassis.SerialNumber	DSP1011 1.0 Clause 10.2
	Version	CIM_Chassis.Version	DSP1011 1.0 Clause 10.2
	PartNumber	CIM_Chassis.PartNumber	DSP1011 1.0 Clause 10.2
DMTF:CPUView	NumberOfProcessors	Number of CIM_Processor instances associated to associated CIM_ComputerSystem	DSP1022 1.0 Clause 10.11
	NumberOfProcessorCores	CIM_ProcessorCapabilities.NumberOfProcessorCores	DSP1022 1.0 Clause 10.12
	NumberOfProcessorThreads	CIM_ProcessorCapabilities.NumberOfHardwareThreads	DSP1022 1.0 Clause 10.12
	ProcessorFamily	CIM_Processor.Family	DSP1022 1.0 Clause 10.11
	ProcessorCurrentClockSpeed	CIM_Processor.CurrentClockSpeed	DSP1022 1.0 Clause 10.11
	ProcessorMaxClockSpeed	CIM_Processor.MaxClockSpeed	DSP1022 1.0 Clause 10.11
DMTF:SystemMemoryView	MemoryBlockSize	CIM_Memory.BlockSize	DSP1026 1.0 Clause 10.3
	MemoryNumberOfBlocks	CIM_Memory.NumberOfBlocks	DSP1026 1.0 Clause 10.3
	MemoryConsumableBlocks	CIM_Memory.ConsumableBlocks	DSP1026 1.0 Clause 10.3
DMTF:SoftwareInventoryView	CurrentBIOSMajorVersion	CIM_SoftwareIdentity.MajorVersion representing the BIOS/EFI	DSP1023 1.0 Clause 10.1
	CurrentBIOSMinorVersion	CIM_SoftwareIdentity.MinorVersion representing the BIOS/EFI	DSP1023 1.0 Clause 10.1
	CurrentBIOSRevisionNumber	CIM_SoftwareIdentity.Revision Number representing the BIOS/EFI	DSP1023 1.0 Clause 10.1

Implemented Feature Value	CIM_PhysicalComputerSystemView Property	Origin Class/Property or Model Correspondence	Referenced Profile
	CurrentBIOSBuildNumber	CIM_SoftwareIdentity.BuildNumber representing the BIOS/EFI	DSP1023 1.0 Clause 10.1
	CurrentBIOSVersionString	CIM_SoftwareIdentity.VersionString representing the BIOS/EFI	DSP1023 1.0 Clause 10.1
	CurrentManagementFirmwareMajorVersion	CIM_SoftwareIdentity.MajorVersion representing the management firmware	DSP1023 1.0 Clause 10.1
	CurrentManagementFirmwareMinorVersion	CIM_SoftwareIdentity.MinorVersion representing the management firmware	DSP1023 1.0 Clause 10.1
	CurrentManagementFirmwareRevisionNumber	CIM_SoftwareIdentity.RevisionNumber representing the management firmware	DSP1023 1.0 Clause 10.1
	CurrentManagementFirmwareBuildNumber	CIM_SoftwareIdentity.BuildNumber representing the management firmware	DSP1023 1.0 Clause 10.1
	CurrentManagementFirmwareElementName	CIM_SoftwareIdentity.ElementName representing the management firmware	DSP1023 1.0 Clause 10.1
	CurrentManagementFirmwareVersionString	CIM_SoftwareIdentity.VersionString representing the management firmware	DSP1023 1.0 Clause 10.1
DMTF:OSView	OSType	CIM_OperatingSystem.OSType	DSP1029 1.0 Clause 10.1
	OSEnabledState	CIM_OperatingSystem.EnabledState	DSP1029 1.0 Clause 10.1
	OSVersion	CIM_OperatingSystem.Version	DSP1029 1.1 Clause 10.1
DMTF:ComputerSystemView	OtherIdentifyingInfo	CIM_ComputerSystem.OtherIdentifyingInfo	DSP1052 1.0 Clause 10.1
	IdentifyingDescriptions	CIM_ComputerSystem.IdentifyingDescriptions	DSP1052 1.0 Clause 10.1
	Dedicated	CIM_ComputerSystem.Dedicated	DSP1108 1.0 Clause 7.1.2.10.1
	OtherDedicatedDescriptions	CIM_ComputerSystem.OtherDedicatedDescriptions	DSP1108 1.0 Clause 7.1.2.10.2
	EnabledState	CIM_ComputerSystem.EnabledState	DSP1052 1.0 Clause 10.1
	RequestedState	CIM_ComputerSystem.RequestedState	DSP1052 1.0 Clause 10.1

Implemented Feature Value	CIM_PhysicalComputerSystem View Property	Origin Class/Property or Model Correspondence	Referenced Profile
	OperationalStatus	CIM_ComputerSystem.OperationalStatus	DSP1052 1.0 Clause 10.1
	HealthState	CIM_ComputerSystem.HealthState	DSP1052 1.0 Clause 10.1
DMTF:Power Utilization ManagementView	PowerUtilizationModesSupported	CIM_PowerUtilizationManagementCapabilities.PowerUtilizationModesSupported	DSP1085 1.0 Clause 10.2
	PowerUtilizationMode	CIM_PowerUtilizationManagementService.PowerUtilizationMode	DSP1085 1.0 Clause 10.1
	PowerAllocationLimit	CIM_PowerAllocationSettingData.Limit	DSP1085 1.0 Clause 10.6
DMTF:Numeric SensorView	NumericSensorElementName	CIM_NumericSensor.ElementName	DSP1009 1.0 Clause 10.2
	NumericSensorEnabledState	CIM_NumericSensor.EnabledState	DSP1009 1.0 Clause 10.2
	NumericSensorContext	CIM_NumericSensor.SensorContext	DSP1009 1.1 Clause 10.2
	NumericSensorHealthState	CIM_NumericSensor.HealthState	DSP1009 1.0 Clause 10.2
	NumericSensorCurrentState	CIM_NumericSensor.CurrentState	DSP1009 1.0 Clause 10.2
	NumericSensorPrimaryStatus	CIM_NumericSensor.PrimaryStatus	DSP1009 1.0 Clause 10.2
	NumericSensorBaseUnits	CIM_NumericSensor.BaseUnits	DSP1009 1.0 Clause 10.2
	NumericSensorUnitModifier	CIM_NumericSensor.UnitModifier	DSP1009 1.0 Clause 10.2
	NumericSensorRateUnits	CIM_NumericSensor.RateUnits	DSP1009 1.0 Clause 10.2
	NumericSensorCurrentReading	CIM_NumericSensor.CurrentReading	DSP1009 1.0 Clause 10.2
	NumericSensorSensorType	CIM_NumericSensor.SensorType	DSP1009 1.0 Clause 10.2
	NumericSensorOtherSensorTypeDescription	CIM_NumericSensor.OtherSensorTypeDescription	DSP1009 1.0 Clause 10.2
	NumericSensorUpperThresholdNonCritical	CIM_NumericSensor.UpperThresholdNonCritical	DSP1009 1.0 Clause 10.2
	NumericSensorUpperThresholdFatal	CIM_NumericSensor.UpperThresholdFatal	DSP1009 1.0 Clause 10.2
	NumericSensorUpperThresholdCritical	CIM_NumericSensor.UpperThresholdCritical	DSP1009 1.0 Clause 10.2

Implemented Feature Value	CIM_PhysicalComputerSystemView Property	Origin Class/Property or Model Correspondence	Referenced Profile
	NumericSensorLowerThresholdNonCritical	CIM_NumericSensor.LowerThresholdNonCritical	DSP1009 1.0 Clause 10.2
	NumericSensorLowerThresholdFatal	CIM_NumericSensor.LowerThresholdFatal	DSP1009 1.0 Clause 10.2
	NumericSensorLowerThresholdCritical	CIM_NumericSensor.LowerThresholdCritical	DSP1009 1.0 Clause 10.2
DMTF:Record LogView	LogInstanceID	CIM_RecordLog.InstanceID	DSP1010 1.0 Clause 10.5
	LogMaxNumberOfRecords	CIM_RecordLog.MaxNumberOfRecords	DSP1010 1.0 Clause 10.5
	LogCurrentNumberOfRecords	CIM_RecordLog.CurrentNumberOfRecords	DSP1010 1.0 Clause 10.5
	LogOverWritePolicy	CIM_RecordLog.OverwritePolicy	DSP1010 1.0 Clause 10.5
	LogState	CIM_RecordLog.LogState	DSP1010 1.0 Clause 10.5
DMTF:Boot ControlView	StructuredBootString	CIM_BootSourceSetting.StructuredBootString	DSP1012 1.0 Clause 10.6
	OneTimeBootSource	n/a	DSP1108 1.0 Clause 7.1.2.9.2

7.1.2 Additional requirements

This subclause details additional requirements for some properties of CIM_PhysicalComputerSystemView.

7.1.2.1 CIM_PhysicalComputerSystemView.InstanceID

The InstanceID is the property that shall be used to opaquely and uniquely identify an instance of this class within the scope of the instantiating Namespace. This property shall not correspond to the InstanceID property of CIM_ComputerSystem.

7.1.2.2 Representing system processor information

When implemented according to Table 2, the intent of this set of properties is to model the central processing unit.

The NumberOfProcessors property represents the number of homogenous processors on this physical computer system. Other types of processors (including GPUs) shall not be represented in the NumberOfProcessors property of CIM_PhysicalComputerSystemView.

The NumberOfProcessorThreads property shall correspond to the NumberOfHardwareThreads property in the CIM_ProcessorCapabilities class defined in DSP1022.

The properties of the central processing unit of the physical computer system shall be represented as properties defined in Table 3 from DSP1022.

When one or more instances of CIM_Processor are instantiated and represented in the view class, each CIM_Processor instance should be associated with the CIM_PhysicalComputerSystemView instance through an instance of CIM_ElementView where the Antecedent property is a reference to the corresponding CIM_Processor instance and the Dependent property is a reference to the CIM_PhysicalComputerSystemView instance.

Table 3 – Property origins for processor

CIM_PhysicalComputerSystemView property name	CIM_Processor property name (origin)
ProcessorFamily	Family
ProcessorMaxClockSpeed	MaxClockSpeed

7.1.2.3 Representing system memory information

When implemented according to Table 2, the properties of the memory of the physical computer system shall be represented as properties defined in Table 4 from DSP1026. When the instance of CIM_Memory representing total system memory is instantiated and represented in the view class, the CIM_Memory instance should be associated with the CIM_PhysicalComputerSystemView instance through an instance of CIM_ElementView where the Antecedent property is a reference to the CIM_Memory instance and the Dependent property is a reference to the CIM_PhysicalComputerSystemView instance.

Table 4 – Property origins for memory

CIM_PhysicalComputerSystemView property name	CIM_Memory property name (origin)
MemoryBlockSize	BlockSize
MemoryNumberOfBlocks	NumberOfBlocks
MemoryConsumableBlocks	ConsumableBlocks

7.1.2.4 Representing system software inventory

When implemented according to Table 2, the properties of the current BIOS or EFI firmware of the physical computer system shall be represented as properties defined in Table 5. The current BIOS or EFI firmware property values shall correspond to an instance of CIM_SoftwareIdentity where the Classifications property contains a value of 10 (Firmware) or 11 (BIOS/FCode). If instantiated, this corresponding instance of CIM_SoftwareIdentity shall be associated with the underlying instance of CIM_ComputerSystem by an instance of CIM_ElementSoftwareIdentity where the ElementSoftwareStatus property has a value of 2 (Current).

When an instance of CIM_SoftwareIdentity representing the current BIOS or EFI firmware is instantiated and represented in the view class, the CIM_SoftwareIdentity instance should be associated with the CIM_PhysicalComputerSystemView instance through an instance of CIM_ElementView where the Antecedent is a reference to the CIM_SoftwareIdentity instance and the Dependent property is a reference to the CIM_PhysicalComputerSystemView instance.

340 **Table 5 – Property origins for current BIOS or EFI firmware**

CIM_PhysicalComputerSystemView property name	CIM_SoftwareIdentity property name (origin)
CurrentBIOSMajorVersion	MajorVersion
CurrentBIOSMinorVersion	MinorVersion
CurrentBIOSRevisionNumber	RevisionNumber
CurrentBIOSBuildNumber	BuildNumber
CurrentBIOSVersionString	VersionString

341 The properties of the current management firmware of the physical computer system shall be represented
342 as properties defined in Table 6 from DSP1023. The current management firmware property values shall
343 correspond to the instance of CIM_SoftwareIdentity referenced by the instance of
344 CIM_ElementSoftwareIdentity where the ElementSoftwareStatus property has a value of 2 (Current).

345 When an instance of CIM_SoftwareIdentity representing the current management firmware is instantiated
346 and represented in the view class, the CIM_SoftwareIdentity instance should be associated with the
347 CIM_PhysicalComputerSystemView instance through an instance of CIM_ElementView where the
348 Antecedent is a reference to the CIM_SoftwareIdentity instance and the Dependent property is a
349 reference to the CIM_PhysicalComputerSystemView instance.

350 **Table 6 – Property origins for current management firmware**

CIM_PhysicalComputerSystemView property name	CIM_SoftwareIdentity property name (origin)
CurrentManagementFirmwareMajorVersion	MajorVersion
CurrentManagementFirmwareMinorVersion	MinorVersion
CurrentManagementFirmwareRevisionNumber	RevisionNumber
CurrentManagementFirmwareBuildNumber	BuildNumber
CurrentManagementFirmwareVersionString	VersionString
CurrentManagementFirmwareElementName	ElementName

351 #### 7.1.2.5 Representing operating system information

352 This subclause describes the requirements for representing the running operating system for the
353 CIM_PhysicalComputerSystemView class.

354 When implemented according to Table 2, the properties of the operating system of the physical computer
355 system shall be represented as properties as defined in Table 7 from DSP1029. When an instance of
356 CIM_OperatingSystem is instantiated and represented in the view class, the CIM_OperatingSystem
357 instance should be associated with the CIM_PhysicalComputerSystemView instance through an instance
358 of CIM_ElementView where the Antecedent property is a reference to the CIM_OperatingSystem
359 instance and the Dependent property is a reference to the CIM_PhysicalComputerSystemView instance.

360 **Table 7 – Property origins for the operating system**

CIM_PhysicalComputerSystemView property name	CIM_OperatingSystem property name (origin)
OSEnabledState	EnabledState
OSVersion	Version
OSType	OSType

361 #### 7.1.2.6 Representing power utilization information

362 When implemented according to Table 2, the PowerAllocationLimit property shall correspond to the Limit
363 property of the CIM_PowerAllocationSettingData class defined in DSP1085 with the added
364 "PowerAllocation" prefix to logically group properties related to power utilization and avoid naming
365 collision.

366 The power allocation limit of the physical computer system shall be represented as the property as
367 defined in Table 8 from DSP1085. When an instance of CIM_PowerAllocationSettingData is instantiated
368 and represented in the view class, the CIM_PowerUtilizationManagementService instance should be
369 associated with the CIM_PhysicalComputerSystemView instance through an instance of
370 CIM_ElementView where the Antecedent property is a reference to the
371 CIM_PowerUtilizationManagementService instance and the Dependent property is a reference to the
372 CIM_PhysicalComputerSystemView instance.

373 **Table 8 – Property origins for the power allocation limit**

CIM_PhysicalComputerSystemView property name	CIM_PowerAllocationSettingData property name (origin)
PowerAllocationLimit	Limit

374 #### 7.1.2.7 Representing system numeric sensors

375 When implemented according to Table 2, the properties of a numeric sensor of the physical computer
376 system shall be represented as elements of a group of indexed array properties as defined in Table 9
377 from DSP1009. For these properties, the array elements with same index shall present a view of the
378 same numeric sensor. When an instance of CIM_NumericSensor is instantiated and represented in the
379 view class, the CIM_NumericSensor instance should be associated with the
380 CIM_PhysicalComputerSystemView instance through an instance of CIM_ElementView where the
381 Antecedent property is a reference to the CIM_NumericSensor instance and the Dependent property is a
382 reference to the CIM_PhysicalComputerSystemView instance.

383 **Table 9 – Property origins for numeric sensors**

CIM_PhysicalComputerSystemView property name	CIM_NumericSensor property name (origin)
NumericSensorElementName[]	ElementName
NumericSensorEnabledState[]	EnabledState
NumericSensorHealthState[]	HealthState
NumericSensorCurrentState[]	CurrentState
NumericSensorPrimaryStatus[]	PrimaryStatus
NumericSensorBaseUnits[]	BaseUnits
NumericSensorUnitModifier[]	UnitModifier
NumericSensorRateUnits[]	RateUnits
NumericSensorCurrentReading[]	CurrentReading
NumericSensorSensorType[]	SensorType
NumericSensorOtherSensorTypeDescription[]	OtherSensorTypeDescription
NumericSensorUpperThresholdNonCritical[]	UpperThresholdNonCritical
NumericSensorUpperThresholdFatal[]	UpperThresholdFatal
NumericSensorUpperThresholdCritical[]	UpperThresholdCritical
NumericSensorLowerThresholdNonCritical[]	LowerThresholdNonCritical
NumericSensorLowerThresholdFatal[]	LowerThresholdFatal
NumericSensorLowerThresholdCritical[]	LowerThresholdCritical
NumericSensorContext[]	SensorContext

384 #### 7.1.2.8 Representing system record logs

385 When implemented according to Table 2, the properties of a record log of the physical computer system
386 shall be represented as elements of a group of indexed array properties as defined in Table 10 from
387 DSP1010. For these properties, the array elements with same index shall present a view of the same
388 record log.

389 Instances of CIM_RecordLog that contain information about the underlying computer system should be
390 represented in the view class.

391 When instantiated, the CIM_RecordLog instance shall be associated with the
392 CIM_PhysicalComputerSystemView instance through an instance of CIM_ElementView where the
393 Antecedent property is a reference to the CIM_RecordLog instance and the Dependent property is a
394 reference to the CIM_PhysicalComputerSystemView instance.

395 **Table 10 – Property origins for record logs**

CIM_PhysicalComputerSystemView property name	CIM_RecordLog property name (origin)
LogInstanceID[]	InstanceID
LogMaxNumberOfRecords[]	MaxNumberOfRecords
LogCurrentNumberOfRecords[]	CurrentNumberOfRecords
LogOverWritePolicy[]	OverwritePolicy
LogState[]	LogState

396 #### 7.1.2.9 Representing system boot configuration

397 When implemented according to Table 2, the enabled boot sources of the boot configuration of the
398 physical computer system shall be represented as elements of an ordered array property as defined in
399 Table 11 from DSP1012.

400 When an instance of CIM_BootSourceSetting is instantiated and represented in the view class, the
401 CIM_BootService instance should be associated with the CIM_PhysicalComputerSystemView instance
402 through an instance of CIM_ElementView where the Antecedent property is a reference to the
403 CIM_BootService instance and the Dependent property is a reference to the
404 CIM_PhysicalComputerSystemView instance.

405 **Table 11 – Property origin for boot sources**

CIM_PhysicalComputerSystemView property name	CIM_BootSourceSetting property name (origin)
StructuredBootString[]	StructuredBootString
OneTimeBootSource	n/a

406 ##### 7.1.2.9.1 CIM_PhysicalComputerSystemView.StructuredBootString

407 This property represents the boot sources that are available to be used for the next one-time boot of the
408 physical computer system.

409 ##### 7.1.2.9.2 CIM_PhysicalComputerSystemView.OneTimeBootSource

410 This property represents the boot source that is used for the next one-time boot of the physical computer
411 system. The value of this property is an index into the StructuredBootString property. A value of NULL
412 shall represent that the one-time boot source is not configured.

413 #### 7.1.2.10 Representing system identity information

414 ##### 7.1.2.10.1 CIM_PhysicalComputerSystemView.Dedicated

415 When implemented according to Table 2, the Dedicated property shall indicate the purposes to which the
416 physical computer system is dedicated, if any, and what functionality is provided. See the specialized
417 profiles of DSP1052 for requirements (for example, DSP1004 and DSP1058).

418 ##### 7.1.2.10.2 CIM_PhysicalComputerSystemView.OtherDedicatedDescriptions

419 When implemented according to Table 2, the OtherDedicatedDescriptions property shall contain strings
420 describing how or why the physical computer system is dedicated when the Dedicated property includes
421 “Other” (value=2). See the specialized profiles of DSP1052 for requirements (for example, DSP1004 and
422 DSP1058).

7.1.2.11 Representing system FRU information

7.1.2.11.1 CIM_PhysicalComputerSystemView.FRUInfoSupported

When implemented according to Table 2, the FRUInfoSupported property shall correspond to the value of the CIM_PhysicalAssetCapabilities.FRUInfoSupported property value associated to the CIM_Chassis instance.

8 Methods

This clause details the requirements for supporting intrinsic operations and extrinsic methods for the CIM elements defined by this profile.

8.1 CIM_PhysicalComputerSystemView.RequestStateChange( )

When the ImplementedFeatures property of the CIM_RegisteredProfile instance contains "DMTF:ComputerSystemView", RequestStateChange( ) shall be implemented and the implemented method shall not return a value of 1 (Method is unsupported).

Invocation of the RequestStateChange( ) method changes the physical computer system's state to the value specified in the RequestedState parameter. A return code value of zero shall indicate that the requested state change was initiated successfully.

Detailed requirements of the RequestStateChange( ) method are specified in Table 12 and Table 13.

No standard messages are defined.

Invoking the RequestStateChange( ) method multiple times could result in earlier requests being overwritten or lost.

See CIM_ComputerSystem.RequestStateChange( ) in DSP1052 for additional details.

Table 12 – CIM_PhysicalComputerSystemView.RequestStateChange( ) method: Return code values

Value	Description
0	Request was successfully executed.
2	Error occurred.
4096	Job started: REF returned to started CIM_ConcreteJob.

446 **Table 13 – CIM_PhysicalComputerSystemView.RequestStateChange( ) method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	RequestedState	uint16	Valid state values (mapped to CIM_ComputerSystem.RequestStateChange( )) 2 (Enabled) – On 3 (Disabled) – Off-Soft 9 (Quiesce) – Sleep 11 (Reset) – Power-Cycle (Off-Soft)
IN	TimeoutPeriod	datetime	Client specified maximum amount of time the transition to a new state is supposed to take: 0 or NULL – No time requirements <interval> – Maximum time allowed
OUT	Job	CIM_ConcreteJob REF	Returned if job started

447 ## 8.2 CIM_PhysicalComputerSystemView.ClearLog( )

448 When the ImplementedFeatures property of the CIM_RegisteredProfile instance contains
449 "DMTF:RecordLogView", ClearLog( ) may be implemented.

450 Invocation of the ClearLog( ) method deletes all the entries of the specified record log of the physical
451 computer system identified by the LogInstanceID parameter. A return code value of zero shall indicate
452 that the clearing of the log entries was initiated successfully.

453 Detailed requirements of the ClearLog( ) method are specified in Table 14 and Table 15.

454 No standard messages are defined.

455 **Table 14 – CIM_PhysicalComputerSystemView.ClearLog( ) method: Return code values**

Value	Description
0	Request was successfully executed.
1	Method is unsupported.
2	Error occurred.

456 **Table 15 – CIM_PhysicalComputerSystemView.ClearLog( ) method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	LogInstanceID	String	Identifier of record log that is requested to be cleared

457 ## 8.3 CIM_PhysicalComputerSystemView.InstallSoftwareFromURI( )

458 When the ImplementedFeatures property of the CIM_RegisteredProfile instance contains
459 "DMTF:SoftwareInventoryView", InstallSoftwareFromURI( ) may be implemented.

460 Invocation of the InstallSoftwareFromURI( ) method starts a job to install software from the designated
461 URI to the physical computer system. A return code value of zero shall indicate that the installation of
462 software was initiated successfully. Based on the payloads, implementations shall determine whether the
463 installation is intended for BIOS or Management Firmware.

464 Detailed requirements of the InstallSoftwareFromURI( ) method are specified in Table 16 and Table 17.

465 No standard messages are defined.

466 See CIM_SoftwareInstallationService.InstallFromURI( ) in DSP1025 for additional details.

467 **Table 16 – CIM_PhysicalComputerSystemView.InstallSoftwareFromURI( ) method: Return code**
468 **values**

Value	Description
0	Job completed with no error.
1	Method is unsupported.
2	Error occurred.
4096	Job started: REF returned to started CIM_ConcreteJob.

469 **Table 17 – CIM_PhysicalComputerSystemView.InstallSoftwareFromURI( ) method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	URI	string	A URI for the software.
IN	InstallOptions[]	uint16	Options to control the install process. See CIM_SoftwareInstallationService.InstallFrom URI( ) in DSP1025 for additional details.
IN	Classifications[]	uint16	Identify the classification of software to install. See CIM_SoftwareIdentity.Classifications in DSP1023 for additional details.
IN	InstallOptionsValues[]	string	InstallOptionsValues is an array of strings providing additional information to InstallOptions for the method to install the software. See CIM_SoftwareInstallationService.InstallFrom URI( ) in DSP1025 for additional details.
OUT	Job	CIM_ConcreteJob REF	Returned if job started

470 8.4 CIM_PhysicalComputerSystemView.SetOneTimeBootSource( )

471 When the ImplementedFeatures property of the CIM_RegisteredProfile instance contains
472 “DMTF:BootControlView”, SetOneTImeBootSource( ) may be implemented.

473 Invocation of the SetOneTImeBootSource( ) method sets the boot source for the next boot only. A return
474 code value of zero shall indicate that the new one time boot source was set successfully.

475 If the StructuredBootString parameter contains a value not contained in the StructuredBootString property
476 of the CIM_PhysicalComputerSystemView instance, then the method shall return 2 (Error Occurred).

477 Detailed requirements of the SetOneTimeBootSource( ) method are specified in Table 18 and Table 19.

478 No standard messages are defined.

Table 18 – CIM_PhysicalComputerSystemView.SetOneTimeBootSource( ) method: Return code values

Value	Description
0	Completed with no error.
1	Method is unsupported.
2	Error occurred.
4096	Job started: REF returned to started CIM_ConcreteJob.

Table 19 – CIM_PhysicalComputerSystemView.SetOneTimeBootSource( ) method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	StructuredBootString	string	A StructuredBootString value
OUT	Job	CIM_ConcreteJob REF	Returned if job started

8.5 Profile conventions for operations

For each profile class (including associations), the implementation requirements for operations, including those in the following default list, are specified in class-specific subclauses of this clause.

The default list of operations is as follows:

- GetInstance
- EnumerateInstances
- EnumerateInstanceNames
- Associators
- AssociatorNames
- References
- ReferenceNames

8.6 CIM_PhysicalComputerSystemView

Table 20 lists operations that either have special requirements beyond those from DSP0200 or shall not be supported.

Table 20 – Operations: CIM_PhysicalComputerSystemView

Operation	Requirement	Description
InvokeMethod	Conditional	If “DMTF:ComputerSystemView”, “DMTF:RecordLogView”, “DMTF:BootControlView”, or “DMTF:SoftwareUpdateView” is an implemented feature, this operation shall be supported. See 8.

8.7 CIM_ElementView

All operations in the default list in 8.5 shall be implemented as defined in DSP0200.

9 Use cases

This clause contains object diagrams and use cases for the *Physical Computer System View Profile*.

9.1 Miscellaneous object diagrams

The object diagram in Figure 2 shows one possible method for advertising profile conformance. The instances of CIM_RegisteredProfile are used to identify the version of the *Physical Computer System View Profile* with which an instance of CIM_PhysicalComputerSystemView and its associated instances are conformant. An instance of CIM_RegisteredProfile exists for each profile that is instrumented in the system. An instance of CIM_RegisteredProfile identifies the “DMTF Physical Computer System View Profile version 1.0.0”. This diagram represents a simple managed computer system that only implements the Profile Registration Profile and the Physical Computer System View Profile. The implementation of Physical Computer System View Profile indicates that properties and methods related to Computer System, CPU, Software Inventory, Physical Asset, Sensors, and Record Log are implemented as advertised by using the ImplementedFeatures property of the instance of CIM_RegisteredProfile.

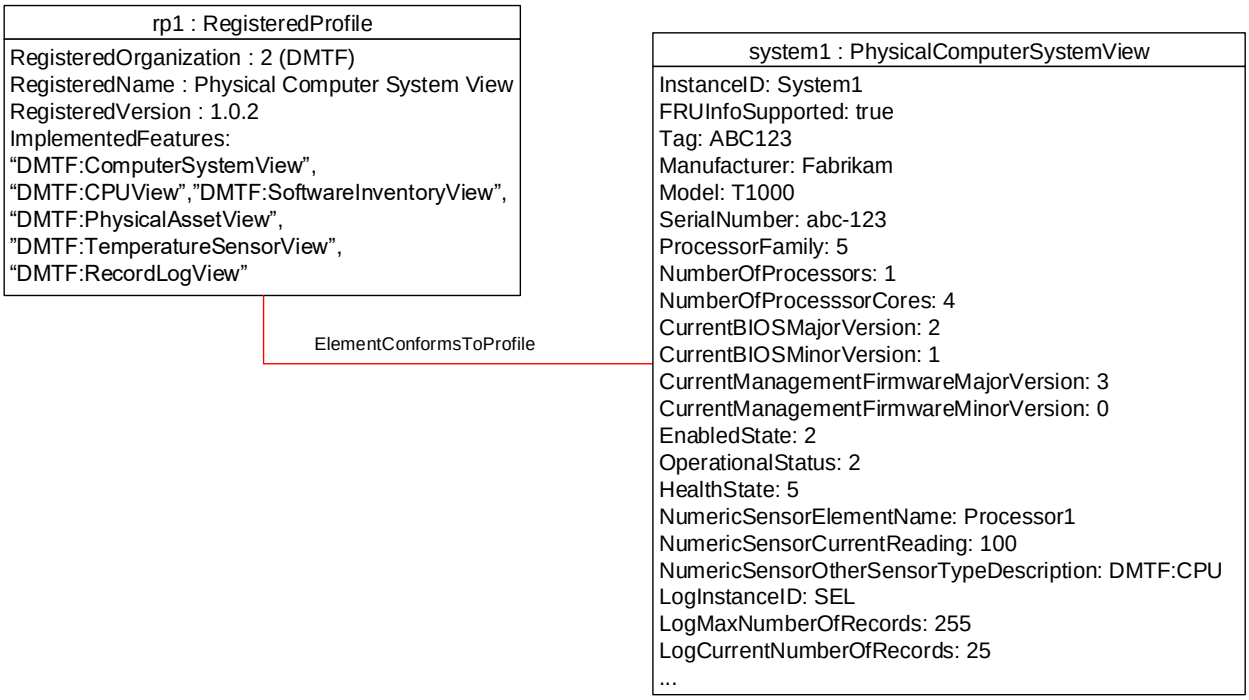

Figure 2 – Simple PhysicalComputerSystemView implementation

9.2 Small footprint managed computer system with additional CIM Schema implemented

The object diagram in Figure 3 shows a small footprint managed computer system that implements the same features as the managed computer system in Figure 2, but also implements CIM Schema that is associated to specific properties. This managed computer system does not claim conformance to additional profiles, but exposes additional properties/methods through the CIM classes associated to the instance of CIM_PhysicalComputerSystemView.

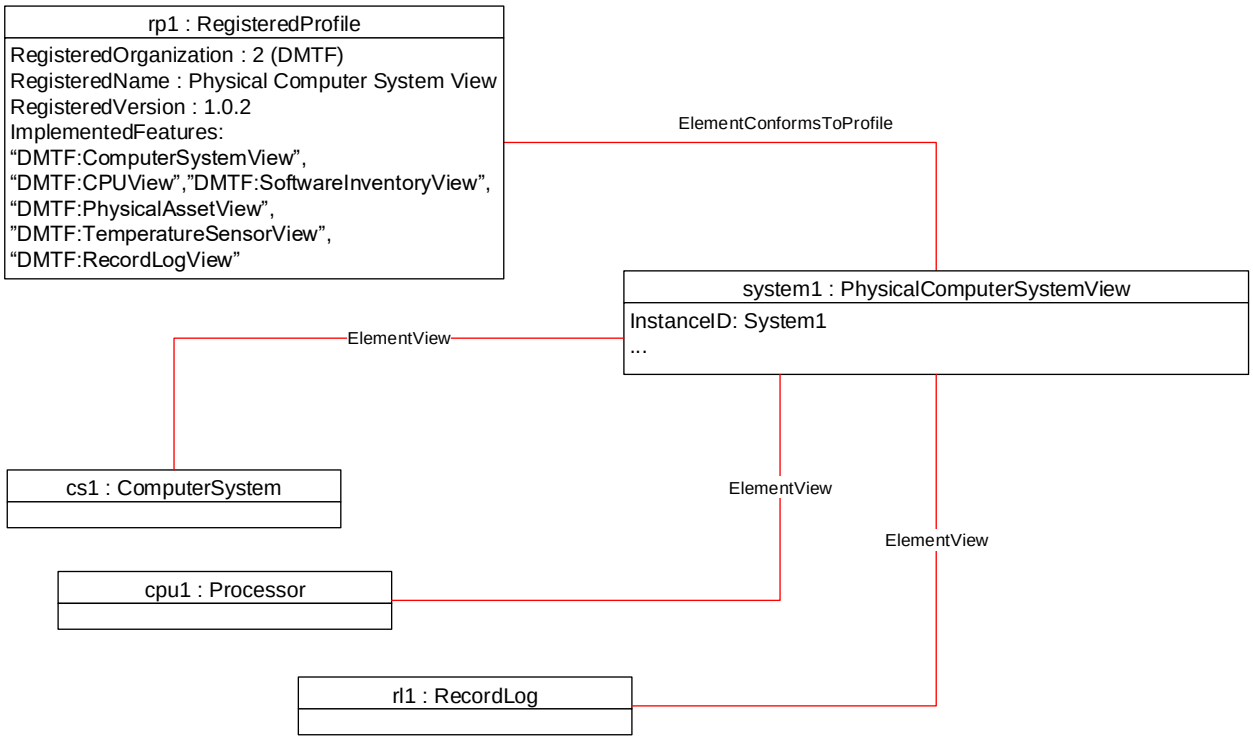

Figure 3 – Small footprint PhysicalComputerSystemView implementation

9.3 Large managed computer system with additional CIM Profiles implemented

The object diagram in Figure 4 shows a large managed computer system that implements the same features as the managed computer system in Figure 3, but also implements CIM Schema that is conformant to CIM Profiles providing richer management capabilities.

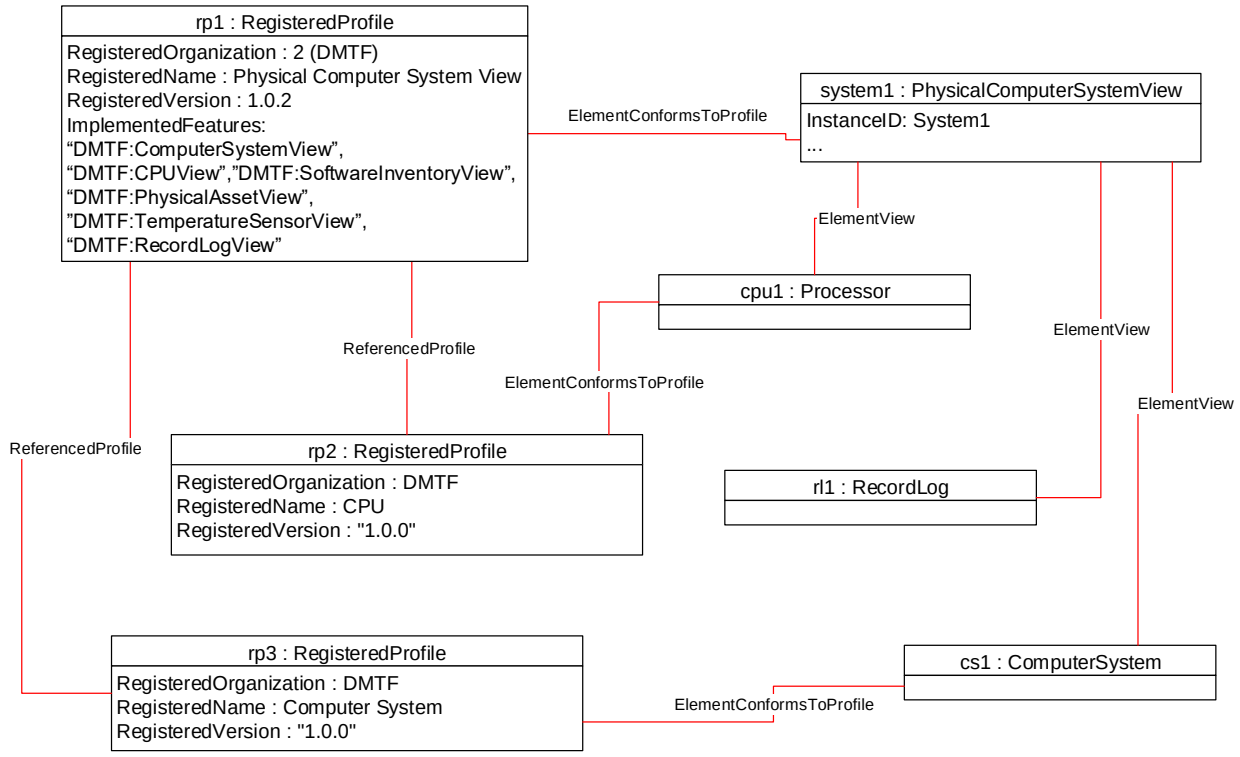

Figure 4 – Rich PhysicalComputerSystemView implementation

9.4 Managed system exposing multiple temperature sensors

The object diagram in Figure 5 shows a managed computer system that implements multiple temperature sensors for Inlet, CPU, and Base Board. Although the instances of CIM_NumericSensor and corresponding association are not required, they illustrate how to represent multiple numeric sensors as an indexed array in the CIM_PhysicalComputerSystemView instance.

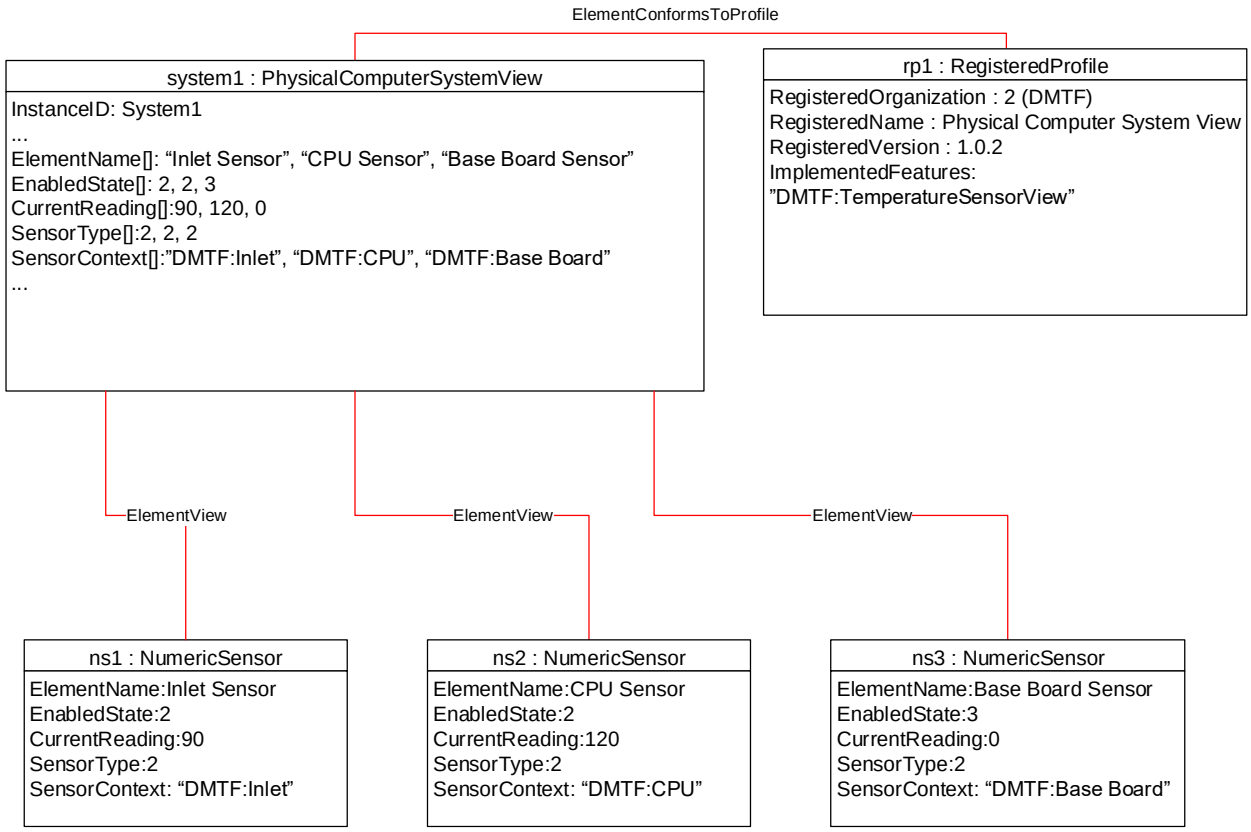

Figure 5 – PhysicalComputerSystemView implementation of multiple temperature sensors

9.5 Determine the enabled state of the physical computer system

To determine the enabled state:

1) Verify that the managed computer system implements the DMTF:ComputerSystemView feature by reading the ImplementedFeatures property of the CIM_RegisteredProfile instance.

2) Read the EnabledState property of the instance of CIM_PhysicalComputerSystemView.

9.6 Change the enabled state of the physical computer system

To change the enabled state:

1) Verify that the managed computer system implements the DMTF:ComputerSystemView feature by reading the ImplementedFeatures property of the CIM_RegisteredProfile instance.

2) Invoke the RequestStateChange( ) method of the instance of CIM_PhysicalComputerSystemView providing the new requested state.

3) See Table 13 for the supported list of requested enabled states.

9.7 Get properties of a specific record log of the physical computer system

To get the properties of a specific record log:

1) Verify that the managed computer system implements the DMTF:RecordLogView feature by reading the ImplementedFeatures property of the CIM_RegisteredProfile instance.

2) Identify the index to the specific log that matches the LogInstanceID.

3) Use this index to read the ordered arrays MaxNumberOfRecords, CurrentNumberOfRecords, OverWritePolicy, and LogState for that specific record log.

9.8 Browse the records of a log of the physical computer system

To browse log entries:

1) Verify that the managed computer system implements the DMTF:RecordLogView feature by reading the ImplementedFeatures property of the CIM_RegisteredProfile instance.

2) Verify that an instance of CIM_RegisteredProfile for Record Log Profile exists.

3) Traverse the association to the CIM_RecordLog instance with the LogInstanceID by using the CIM_ElementView association class.

4) Enumerate instances of CIM_LogEntry that are associated through the CIM_LogManagesRecord association to the given instance of CIM_RecordLog.

9.9 Monitor temperature sensor readings of the physical computer system

To monitor CPU temperature sensor readings:

1) Verify that the managed computer system implements the DMTF:NumericSensorView feature by reading the ImplementedFeatures property of the CIM_RegisteredProfile instance.

2) Identify the index to a specific sensor that contains “DMTF:CPU” as the value for NumericSensorContext.

3) Use this index to read the ordered arrays NumericSensorBaseUnits, NumericSensorUnitModifier, NumericSensorRateUnits, and NumericSensorCurrentReading to compute the reading value for that specific sensor.

9.10 Configure a source of the physical computer system for next reboot only

To configure the boot source for next reboot only:

1) Verify that the managed computer system implements the DMTF:BootControlView feature by reading the ImplementedFeatures property of the CIM_RegisteredProfile instance.

2) Invoke the SetOneTimeBootSource( ) method of the instance of CIM_PhysicalComputerSystemView to reflect the desired boot source based on an index value from the StructedBootString array.

9.11 Update the BIOS firmware of the physical computer system

To update the BIOS firmware:

1) Verify that the managed computer system implements the DMTF:SoftwareUpdateView feature by reading the ImplementedFeatures property of the CIM_RegisteredProfile instance.

2) Invoke the InstallSoftwareFromURI( ) method of the instance of CIM_PhysicalComputerSystemView providing the classification value of 6 (Firmware/BIOS), location of the software, and required options.

10 CIM Elements

Table 21 shows the instances of CIM Elements for this profile. Instances of the CIM Elements shall be implemented as described in Table 21.

Table 21 – CIM Elements: Physical Computer System View Profile

Element Name	Requirement	Description
Classes		
CIM_PhysicalComputerSystemView	Mandatory	See 10.1.
CIM_RegisteredProfile	Mandatory	See 10.2.
CIM_ElementView	Optional	See 10.3
CIM_ElementConformsToProfile	Mandatory	See 10.4
Indications		
None defined in this profile		

10.1 CIM_PhysicalComputerSystemView

CIM_PhysicalComputerSystemView describes a physical computer system and associated management information in a managed computer system.

Table 22 – Class: CIM_PhysicalComputerSystemView

Elements	Requirement	Description
InstanceID	Mandatory	Key. See 7.1.2.1.
OtherIdentifyingInfo	Conditional	See Table 2.
IdentifyingDescriptions	Conditional	See Table 2.
EnabledState	Mandatory	See Table 2.
RequestedState	Conditional	See Table 2.
OperationalStatus	Mandatory	See Table 2.
HealthState	Mandatory	See Table 2.
Dedicated	Mandatory	See Table 2.
OtherDedicatedDescriptions	Conditional	See Table 2.
FRUInfoSupported	Conditional	See Table 2.
Tag	Conditional	See Table 2.
Manufacturer	Conditional	See Table 2.
Model	Conditional	See Table 2.
SKU	Conditional	See Table 2.
SerialNumber	Conditional	See Table 2.
Version	Conditional	See Table 2.

Elements	Requirement	Description
PartNumber	Conditional	See Table 2.
PowerUtilizationModesSupported	Conditional	See Table 2.
PowerUtilizationMode	Conditional	See Table 2.
PowerAllocationLimit	Conditional	See Table 2.
NumericSensorElementName	Conditional	See Table 2.
NumericSensorEnabledState	Conditional	See Table 2.
NumercSensorHealthState	Conditional	See Table 2.
NumericSensorCurrentState	Conditional	See Table 2.
NumericSensorPrimaryStatus	Conditional	See Table 2.
NumericSensorBaseUnits	Conditional	See Table 2.
NumericSensorUnitModifier	Conditional	See Table 2.
NumericSensorRateUnits	Conditional	See Table 2.
NumericSensorCurrentReading	Conditional	See Table 2.
NumericSensorSensorType	Conditional	See Table 2.
NumericSensorOtherSensorTypeDescription	Conditional	See Table 2.
NumericSensorContext	Conditional	See Table 2.
NumericSensorUpperThresholdNonCritical	Conditional	See Table 2.
NumericSensorUpperThresholdCritical	Conditional	See Table 2.
NumericSensorUpperThresholdFatal	Conditional	See Table 2.
NumericSensorLowerThresholdNonCritical	Conditional	See Table 2.
NumericSensorLowerThresholdCritical	Conditional	See Table 2.
NumericSensorLowerThresholdFatal	Conditional	See Table 2.
LogInstanceID	Conditional	See Table 2.
LogMaxNumberOfRecords	Conditional	See Table 2.
LogCurrentNumberOfRecords	Conditional	See Table 2.
LogOverWritePolicy	Conditional	See Table 2.
LogState	Conditional	See Table 2.
StructuredBootString	Conditional	See Table 2.
OneTimeBootSource	Conditional	See Table 2.
NumberOfProcessors	Conditional	See Table 2.
NumberOfProcessorCores	Conditional	See Table 2.
NumberOfProcessorThreads	Conditional	See Table 2.
ProcessorFamily	Conditional	See Table 2.
ProcessorCurrentClockSpeed	Conditional	See Table 2.
ProcessorMaxClockSpeed	Conditional	See Table 2.

Elements	Requirement	Description
MemoryBlockSize	Conditional	See Table 2.
MemoryNumberOfBlocks	Conditional	See Table 2.
MemoryConsumableBlocks	Conditional	See Table 2.
CurrentBIOSMajorVersion	Conditional	See Table 2.
CurrentBIOSMinorVersion	Conditional	See Table 2.
CurrentBIOSRevisionNumber	Conditional	See Table 2.
CurrentBIOSBuildNumber	Conditional	See Table 2.
CurrentBIOSVersionString	Conditional	See Table 2.
CurrentManagementFirmwareMajorVersion	Conditional	See Table 2.
CurrentManagementFirmwareMinorVersion	Conditional	See Table 2.
CurrentManagementFirmwareRevisionNumber	Conditional	See Table 2.
CurrentManagementFirmwareBuildNumber	Conditional	See Table 2.
CurrentManagementFirmwareElementName	Conditional	See Table 2.
CurrentManagementFirmwareVersionString	Conditional	See Table 2.
OSType	Conditional	See Table 2.
OSVersion	Conditional	See Table 2.
OSEnabledState	Conditional	See Table 2.
RequestStateChange( )	Mandatory	See 8.1.
ClearLog( )	Conditional	See 8.2.
InstallSoftwareFromURI( )	Conditional	See 8.3.
SetOneTimeBootSource( )	Conditional	See 8.4.

10.2 CIM_RegisteredProfile

CIM_RegisteredProfile identifies the *Physical Computer System View Profile* in order for a client to determine whether an instance of CIM_PhysicalComputerSystemView is conformant with this profile. The CIM_RegisteredProfile class is defined by the *Profile Registration Profile* (DSP1033). With the exception of the mandatory values specified for the properties in Table 23, the behavior of the CIM_RegisteredProfile instance is in accordance with DSP1033.

Table 23 – Class: CIM_RegisteredProfile

Elements	Requirement	Description
RegisteredName	Mandatory	This property shall have a value of "Physical Computer System View".
RegisteredVersion	Mandatory	This property shall have a value of "1.0.3".
RegisteredOrganization	Mandatory	This property shall have a value of 2 (DMTF).

Elements	Requirement	Description
ImplementedFeatures	Mandatory	This property shall contain “DMTF:ComputerSystemView”. This property may contain one or more of these values: “DMTF:RecordLogView”, “DMTF:NumericSensorView”, “DMTF:CPUView”, “DMTF:BootControlView”, ”DMTF:SoftwareInventoryView”, ”DMTF:PhysicalAssetView”, ”DMTF:SystemMemoryView”, ”DMTF:PowerUtilizationManagementView”, ”DMTF:OSView”, ”DMTF:SoftwareUpdateView”. Presences of values in this property only indicate implemented properties/methods in CIM_PhysicalComputerSystemView and do not indicate conformance to additional CIM Profiles.

10.3 CIM_ElementView

CIM_ElementView associates additional CIM Schema to the CIM_PhysicalComputerSystemView instance.

Table 24 – Class: CIM_ElementView

Elements	Requirement	Description
Antecedent	Mandatory	This property shall be a reference to the CIM_ManagedElement that is an instance in the normalized representation of the managed resource.
Dependent	Mandatory	This property shall be a reference to the CIM_PhysicalComputerSystemView instance.

10.4 CIM_ElementConformsToProfile

CIM_ElementConformsToProfile associates the instance of CIM_RegisteredProfile to the CIM_PhysicalComputerSystemView instance.

Table 25 – Class: CIM_ElementConformsToProfile

Elements	Requirement	Description
ConformantStandard	Mandatory	This property shall be a reference to the CIM_RegisteredProfile instance for the Physical Computer System View Profile.
ManagedElement	Mandatory	This property shall be a reference to the CIM_PhysicalComputerSystemView instance.

612 # ANNEX A
613 # (informative)
614 # Change log

Version	Date	Description
1.0.0	2013-08-22	
1.0.1	2014-05-22	This errata addresses these issues: • Added clarifying language that RequestStateChange() shall not return 1 (Method is unsupported) as it is mandatory to be implemented. In addition, removed return value 1 (Method is unsupported) from Table 12 • Clarified language that all other methods may be implemented and not conditional as requirements are based on referenced profiles • Corrected language of use cases referring to power state to enabled state • Fixed incorrect table reference in 9.6
1.0.2	2017-03-18	This errata addresses these issues: • Updated RegisteredVersion to reflect errata version number in Section 10.2, and • Updated RegisteredOrganization description to reflect correct value for DMTF in Section 10.2. • Updated use cases to reflect the above fixes.
1.0.3	2022-01-01	This errata addresses these issues: • Reference to added Profile Registration Profile 1.1 • Profile Registration Profile 1.1 added to referenced profiles.

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