Author : DMTF Application Working Group Date : 07 September 2006 Page 1: Software Feature, Software Element, and Installed Software Page 2 : Software Element Checks Page 3 : Software Element Actions Page 4: Associated System Software Features and Elements Page 5: BIOS and Device Driver Software Page 6 : Application RunTime Model CIM_SoftwareFeatureServiceImplementation Page 7 : Aggregation Hierarchy Page 8: Association Hierarchy CIM_Dependency CIM_ManagedElement CIM_Component Inheritance (See Core Model) Association CIM_LogicalIdentity W Association with WEAK reference Aggregation CIM_MemberOfCollection Aggregation with WEAK reference Composition Aggregation ★ Equivalent to: 0 .. n CIM_ManagedSystemElement CIM_Collection CIM_Product (E) Experimental Class or Property (See Core Model) (See Core Model) (D) Deprecated Class or Property CIM_InstalledProduct CIM_LogicalElement CIM_InstalledProductImage ProductIdentifyingNumber:string {Key, Propagated} (See Core Model) ProductName:string {Key, Porpagated} ProductVendor:string {Key, Propagated} ProductVersion:string {Key, Propagated} SystemID: string {Key} CollectionID: string {Key} Name: string CIM_Product Software Features CIM_EnabledLogicalElement (See Core Model) CIM_CollectedSoftwareElements CIM_CollectedSoftwareFeatures CIM_SoftwareFeatureSAPImplementation CIM Service CIM_ServiceAccessPoint CIM System CIM SoftwareElement CIM_Software CIM_SoftwareFeature (See Core Model) (See Core Model) ElementComponent (See Core Model) * Name:string {Key, Override} IdentifyingNumber:string {Key, Propagated} Version:string {Key} CIM_Software ProductName:string {Key, Propagated} CIM SoftwareElement SoftwareElementState:uint16 {Key, Enum} FeatureComponent Vendor:string {Key, Propagated} SoftwareElementID:string {Key} SAPImplementation Version:string (Key, Propagated) TargetOperatingSystem:uint16 (Key, Enum) Name:string {Key, Override} CIM_FRUIncludesSoftwareFeature CIM_SoftwareFeatureSoftwareElements OtherTargetOS:string CIM SoftwareElement Manufacturer:string ServiceImplementation BuildNumber:string CIM_ApplicationSystem SerialNumber:string CodeSet:string Distribution: uint16 (enum) IdentificationCode:string CIM_ApplicationSystem EnabledState: uint16 (enum, override) LanguageEdition:string SoftwareFeature StartupTime: datetime ServingStatus: uint16 (enum) LastServingStatusUpdate: datetime CIM_SoftwareFeaturetServiceImplementation 0..1 StartApplication():uint16 CIM FRU StopApplication():uint16 (See Core Model) CIM_ApplicationSystemDirectory CIM_Directory (See System Model)

Title

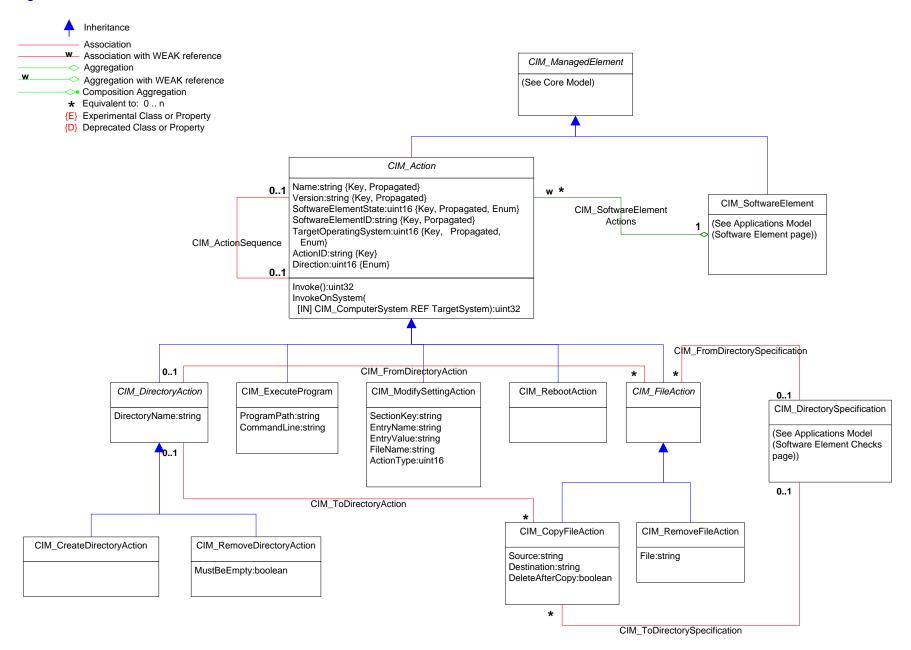
File

: Application Model Specification V2.13

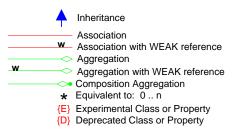
: CIM_Application.vsd

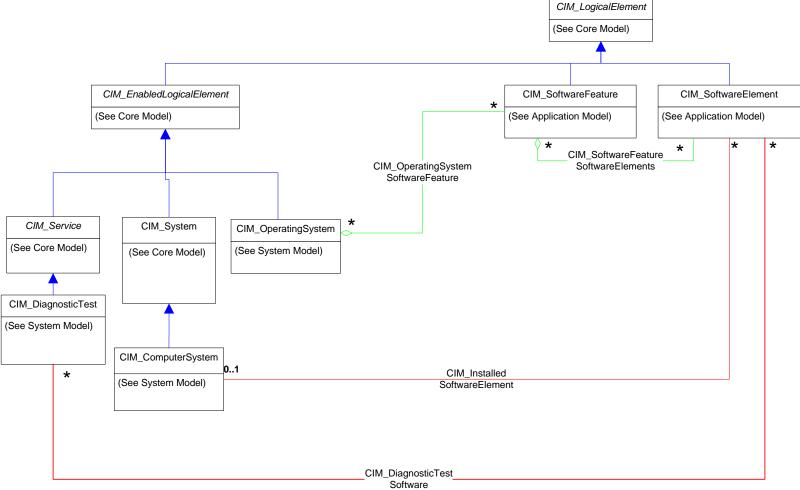
Inheritance Page 2 : Software Element Checks Association W Association with WEAK reference Aggregation Aggregation with WEAK reference Composition Aggregation * Equivalent to: 0 .. n (E) Experimental Class or Property CIM_ManagedElement (D) Deprecated Class or Property (See Core Model) CIM Check CIM_SoftwareElement Name:string {Key, Propagated} Version:string (Key, Propagated) (See Applications Model SoftwareElementState:uint16 {Key, Propagated} (Software Element page)) SoftwareElementID:string {Key, Propagated} CIM_Software Element Checks W TargetOperatingSystem:uint16 {Key, Propagated, Enum} CheckID:string {Key} CheckMode:boolean Invoke():uint32 InvokeÖnSystem([IN] CIM_ComputerSystem REF TargetSystem):uint32 CIM_DiskSpaceCheck CIM VersionCompatibilityCheck CIM_MemoryCheck CIM_SoftwareElementVersionCheck CIM_FileSpecification CIM_DirectorySpecification AvailableDiskSpace:uint64 MemorySize:uint64 AllowDownVersion:boolean SoftwareElementName:string FileName:string {Units} DirectoryType:uint16 AllowMultipleVersions:boolean (Units) LowerSoftwareElementVersion:string CreateTimeStamp:datetime DirectoryPath:string Reinstall:boolean UpperSoftwareElementVersion:string FileSize:uint64 SoftwareElementStateDesired:uint16 {Enum} CheckSum:uint32 TargetOperatingSystemDesired:uint16 {Enum} CRC1:uint32 0..1 CRC2:uint32 MD5Checksum:string CIM_SettingCheck CIM_SwapSpaceCheck SectionKey:string CIM_DirectorySpecificationFile CIM_OSVersionCheck CIM ArchitectureCheck EntryName:string SwapSpaceSize:uint64 EntryValue:string (Units) MinimumVersion:string CheckType:uint16 {enum} ArchitectureType:uint16 {Enum} MaximumVersion:string FileName:string

Page 3 : Software Element Actions

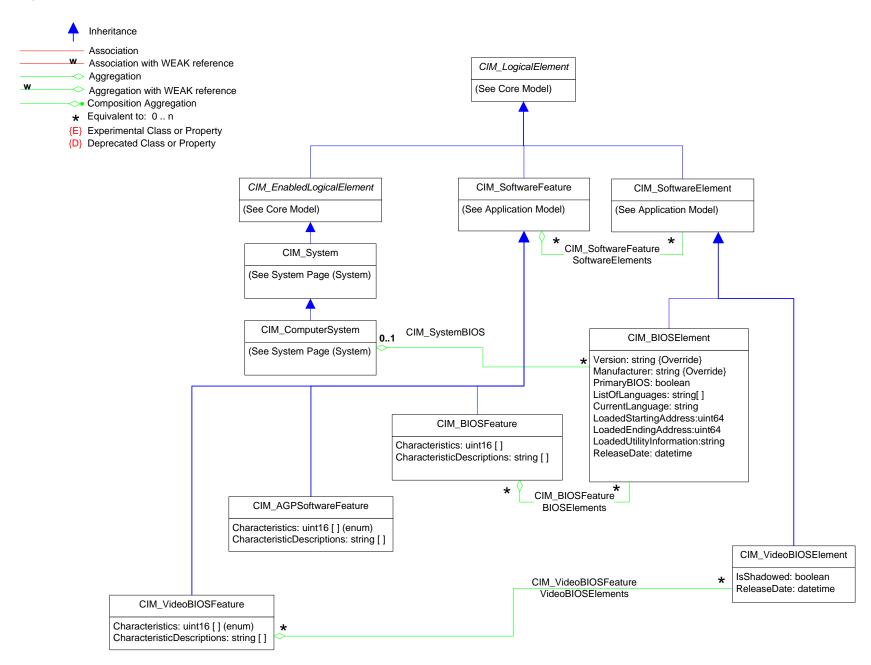


Page 4 : Associated System Software Features and Elements

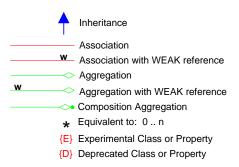


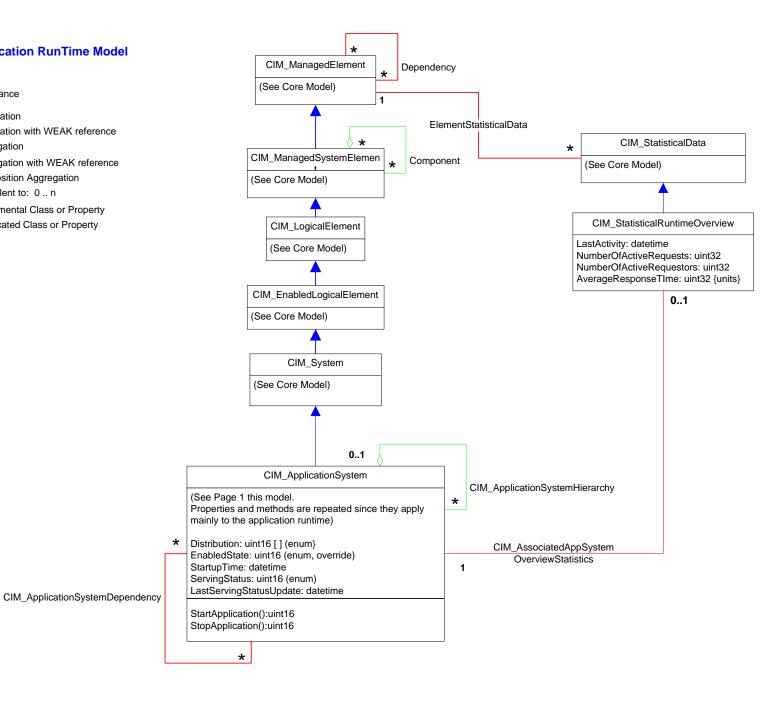


Page 5 : BIOS and Device Driver Software

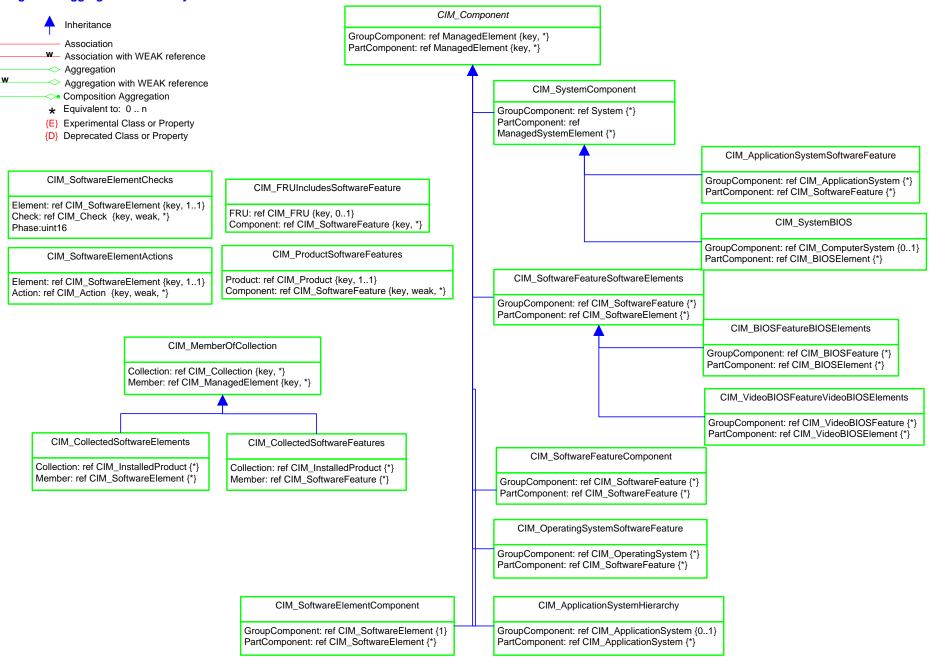


Page 6 : Application RunTime Model

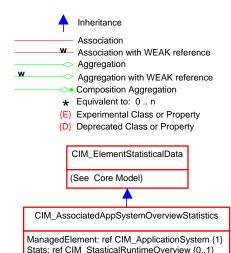




Page 7 : Aggregation Hierarchy



Page 8 : Association Hierarchy



CIM_DirectorySpecificationFile

DirectorySpecification: ref CIM_DirectorySpecification {key, 0..1} FileSpecification: ref CIM_FileSpecification {key}

CIM_ToDirectorySpecification

DestinationDirectory: ref CIM_DirectorySpecification {key, 0..1} FileName: ref CIM_CopyFileAction {key}

CIM_FromDirectorySpecification

SourceDirectory: ref CIM_DirectorySpecification {key, 0..1} FileName: ref CIM_FileAction {key}

CIM_ToDirectoryAction

DestinationDirectory: ref CIM_DirectoryAction {key, 0..1} FileName: ref CIM_CopyFileAction {key}

CIM_FromDirectoryAction

SourceDirectory: ref CIM_DirectoryAction {key, 0..1} FileName: ref CIM_FileAction {key}

CIM ActionSequence

Next: ref CIM_Action {key, 0..1} Prior: ref CIM_Action {key, 0..1}

CIM_InstalledSoftwareElement

Software: ref CIM_SoftwareElement {key} System: ref CIM_ComputerSystem {key, 0..1}

CIM_InstalledProductImage

Product: ref CIM_Product {key, 1..1} Collection: ref CIM_InstalledProduct {key, weak, *}

CIM_ApplicationSystemDirectory

Antecedent: ref CIM_Directory {key, *}
Dependent: ref CIM_ApplicationSystem{key, *}
Name, string {Key}
ApplicationDirectoryUses: uint16 [] (enum)

OtherUseDescriptions: string []

CIM_Dependency

Antecedent: ref ManagedElement {key, *}
Dependent: ref ManagedElement {key, *}

CIM_SoftwareElementSAPImplementation

Antecedent: ref CIM_SoftwareElement {*}
Dependent: ref CIM_ServiceAccessPoint {*}

CIM_SoftwareElementServiceImplementation

Antecedent: ref CIM_SoftwareElement {*}
Dependent: ref CIM_Service {*}

CIM_SoftwareFeatureSAPImplementation

Antecedent: ref CIM_SoftwareFeature {*}
Dependent: ref CIM_ServiceAccessPoint {*}

CIM_SoftwareFeatureServiceImplementation

Antecedent: ref CIM_SoftwareFeature {*}
Dependent: ref CIM_Service {*}

CIM_DiagnosticTestSoftware {D}

Antecedent: ref CIM_SoftwareFeature {*, D}
Dependent: ref CIM_DiagnosticTest {*, D}

CIM_ApplicationSystemDependency

Antecedent: ref CIM_RuntimeApplicationSystem {*}
Dependent: ref CIM_RuntimeApplicationSystem {*}]