CIM SoftwareElement
(See Applications Model (Software Element page))

CIM_DirectorySpecification
DirectoryType: uint16
DirectoryPath: string

CIM_FileSpecification
FileName: string
CreateTimeStamp: datetime
FileSize: uint64
Checksum: string
CRC1: uint32
CRC2: uint32
MD5Checksum: string

CIM_ArchitectureCheck
ArchitectureType: uint16 {Enum}

CIM_MemoryCheck
MemorySize: uint64 {Units}

CIM_DiskSpaceCheck
AvailableDiskSpace: uint64 {Units}

CIM_SWAPSpaceCheck
SwapSpaceSize: uint64 {Units}

CIM_OSVersionCheck
MinimumVersion: string
MaximumVersion: string

CIM_SoftwareElementVersionCheck
SoftwareElementName: string
LowerSoftwareElementVersion: string
UpperSoftwareElementVersion: string
SoftwareElementStateDesired: uint16 {Enum}
TargetOperatingSystemDesired: uint16 {Enum}

CIM_SettingCheck
SectionKey: string
EntryName: string
EntryValue: string

CIM_CacheFileSpecification
AllowDownVersion: boolean
AllowMultipleVersions: boolean
Reinstall: boolean

CIM_VersionCompatibilityCheck
Name: string {Key, Propagated}
Version: string {Key, Propagated}
SoftwareElementState: uint16 {Key, Propagated}
SoftwareElementID: string {Key, Propagated}
TargetOperatingSystem: uint16 {Key, Propagated, Enum}

CIM_SoftwareElementChecks
CheckID: string {Key}
CheckMode: boolean
Invoke(): uint32
InvokeOnSystem([IN] CIM_ComputerSystem REF TargetSystem): uint32

CIM_DirectorySpecificationFile
* 0..1

Inheritance
Association
Association with WEAK reference
Aggregation
Aggregation with WEAK reference
Composition Aggregation
Equivalent to: 0 .. n

(E) Experimental Class or Property
(D) Deprecated Class or Property
Page 4 : Associated System Software Features and Elements

- **Inheritance**
- **Association**
- **Association with WEAK reference**
- **Aggregation**
- **Aggregation with WEAK reference**
- **Composition Aggregation**
- **Equivalent to: 0 .. n**
- **(E) Experimental Class or Property**
- **(D) Deprecated Class or Property**

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**CIM_LogicalElement**

(See Core Model)

**CIM_EnabledLogicalElement**

(See Core Model)

**CIM_Service**

(See Core Model)

**CIM_DiagnosticTest**

(See System Model)

**CIM_System**

(See Core Model)

**CIM_ComputerSystem**

(See System Model)

**CIM_OperatingSystem**

(See Core Model)

**CIM_OperatingSystemSoftwareFeature**

**CIM_InstalledSoftwareElement**

**CIM_DiagnosticTestSoftware**

**CIM_SoftwareFeature**

(See Application Model)

**CIM_SoftwareElement**

(See Application Model)
**Page 5 : BIOS and Device Driver Software**

- **CIM_LogicalElement**
  - (See Core Model)

- **CIM_System**
  - (See System Page (System))

- **CIM_ComputerSystem**
  - (See System Page (System))
  - 0..1 CIM_SystemBIOS

- **CIM_BIOSFeature**
  - Characteristics: uint16 [] (enum)
  - CharacteristicDescriptions: string []

- **CIM_AGPSoftwareFeature**
  - Characteristics: uint16 [] (enum)
  - CharacteristicDescriptions: string []

- **CIM_VideoBIOSFeature**
  - Characteristics: uint16 [] (enum)
  - CharacteristicDescriptions: string []

- **CIM_BIOSElement**
  - Version: string (Override)
  - Manufacturer: string (Override)
  - PrimaryBIOS: boolean
  - ListIOLanguages: string []
  - CurrentLanguage: string
  - LoadedStartingAddress:uint64
  - LoadedEndingAddress:uint64
  - LoadedUtilityInformation:string
  - ReleaseDate: datetime
  - SystemBIOSMajorRelease: uint8 (E)
  - SystemBIOSMinorRelease: uint8 (E)
  - EmbeddedControllerFirmwareMajorRelease: uint8 (E)
  - EmbeddedControllerFirmwareMinorRelease: uint8 (E)
  - RegistryURIs[]: string

- **CIM_VideoBIOSElement**
  - IsShadowed: boolean
  - ReleaseDate: datetime
Application RunTime Model

Properties and methods are repeated since they apply mainly to the application runtime.

**Distribution**: uint16 [] (enum)
**EnabledState**: uint16 (enum, override)
**StartupTime**: datetime
**ServingStatus**: uint16 (enum)
**LastServingStatusUpdate**: datetime

**StartApplication()**: uint16
**StopApplication()**: uint16
**CIM_Component**

- GroupComponent: ref ManagedElement (key, *)
- PartComponent: ref ManagedElement (key, *)

**CIM_SystemComponent**

- GroupComponent: ref System (*)
- PartComponent: ref ManagedSystemElement (*)

**CIM_ApplicationSystemSoftwareFeature**

- GroupComponent: ref CIM_ApplicationSystem (*)
- PartComponent: ref CIM_SoftwareFeature (*)

**CIM_SystemBIOS**

- GroupComponent: ref CIM_ComputerSystem (0..1)
- PartComponent: ref CIM_BIOSElement (*)

**CIM_BIOSFeatureBIOSElements**

- GroupComponent: ref CIM_BIOSFeature (*)
- PartComponent: ref CIM_BIOSElement (*)

**CIM_VideoBIOSFeatureVideoBIOSElements**

- GroupComponent: ref CIM_VideoBIOSFeature (*)
- PartComponent: ref CIM_VideoBIOSElement (*)

**CIM_OperatingSystemSoftwareFeature**

- GroupComponent: ref CIM_OperatingSystem (*)
- PartComponent: ref CIM_SoftwareFeature (*)

**CIM_SoftwareFeatureComponent**

- GroupComponent: ref CIM_SoftwareFeature (1)
- PartComponent: ref CIM_SoftwareFeature (*)

**CIM_SoftwareElementComponent**

- GroupComponent: ref CIM_SoftwareElement (1)
- PartComponent: ref CIM_SoftwareElement (*)

**CIM_ApplicationSystemHierarchy**

- GroupComponent: ref CIM_ApplicationSystem (0..1)
- PartComponent: ref CIM_ApplicationSystem (*)

**CIM_CollectSoftwareElements**

- Collection: ref CIM_CollectedSoftwareElement (*)
- Member: ref CIM_SoftwareElement (*)

**CIM_CollectSoftwareFeatures**

- Collection: ref CIM_CollectedSoftwareFeature (1)
- Member: ref CIM_SoftwareFeature (*)

**CIM_MemberOfCollection**

- Collection: ref CIM_Collection (key, *)
- Member: ref CIM_ManagedElement (key, *)

**CIM_FRUIncludesSoftwareFeature**

- FRU: ref CIM_FRU (key, 0..1)
- Component: ref CIM_SoftwareFeature (key, *)

**CIM_SoftwareElementChecks**

- Element: ref CIM_SoftwareElement (key, 1..1)
- Check: ref CIM_Check (key, weak, *)
- Phase: uint16