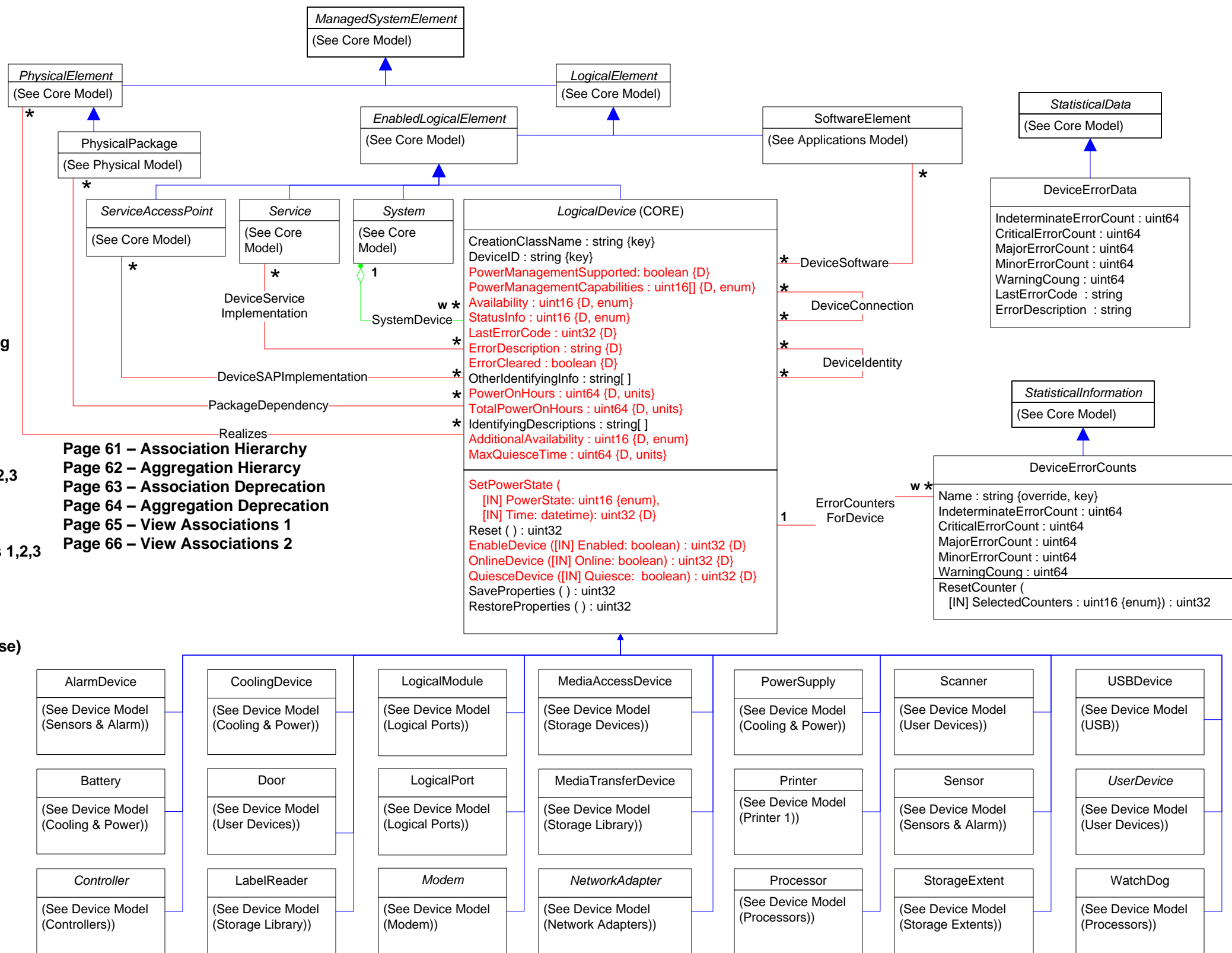








Title : Device Specification 2.40.0
Filename : CIM_Device.vsd
Author : DMTF Core Schema WG
Date : 16 Jan 2014

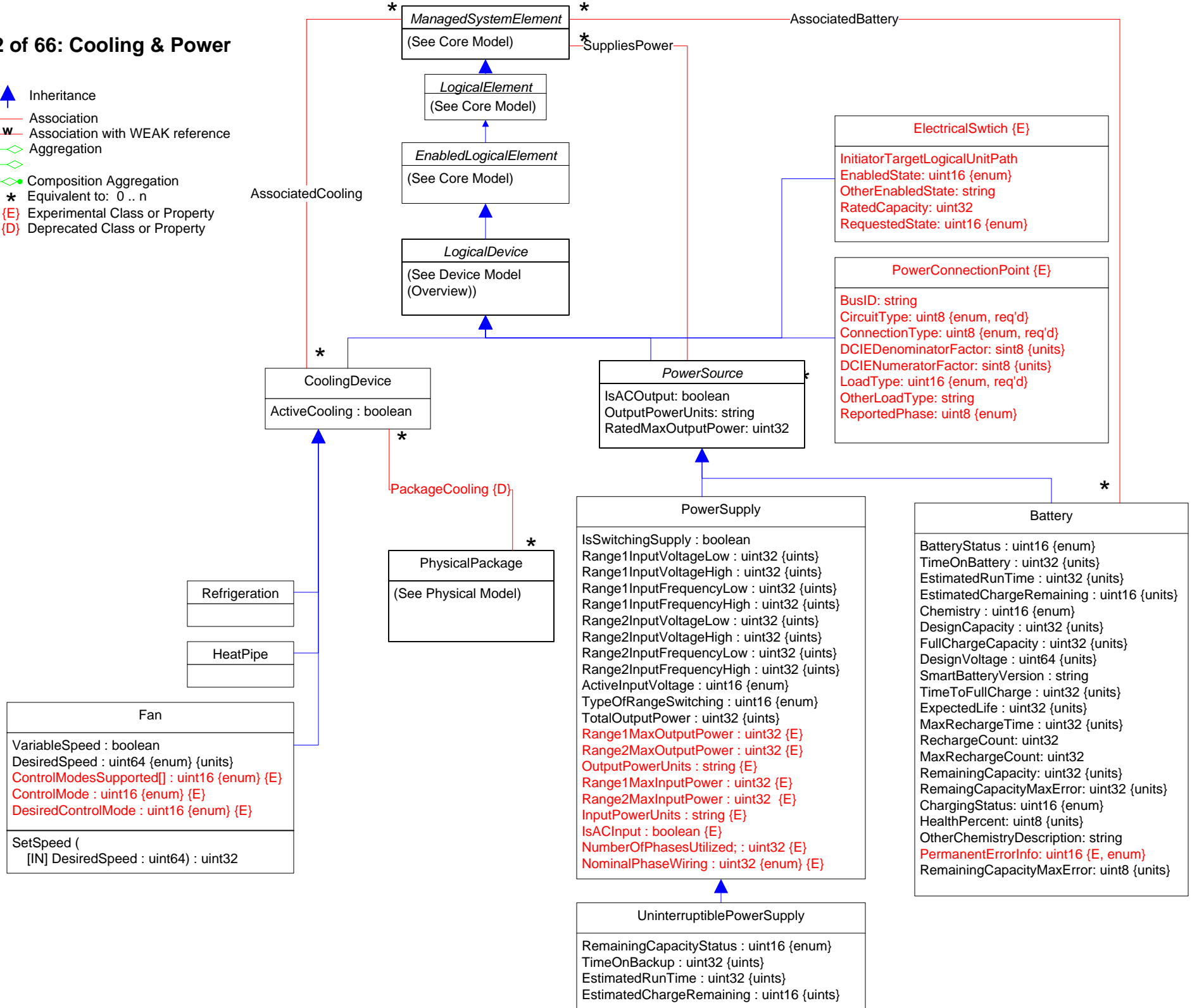
Page 1 – Overview
Page 2 – Cooling & Power
Page 3 – Processors
Page 4 – Controllers
Page 5 – Video Controllers
Page 6 – PCI Controllers
Page 7,8,9 – Logical Ports 1,2,3
Page 10 – Logical Port Group
Page 11 – Protocol Controllers
Page 12 – Network Adapters
Page 13 – Network Adapter Statistics
Page 14 – Fibre Channel
Page 15 – Fibre Channel Statistics
Page 16 – Fibre Channel Services & Zoning
Page 17 – InfiniBand
Page 18 – Storage Devices
Page 19 – Storage Multipath
Page 20,21 – Storage Extents 1,2
Page 22 – Storage Name Binding
Page 23 – SCC Extent Model
Page 24,25,26,27,28 – Storage Services 1,2,3
Page 29 – Storage Tiers 1
Page 30 – Storage Tiers 2
Page 31 – Storage Groups
Page 32,33,34,35,36 – Storage Capabilities 1,2,3
Page 37 – Storage Settings
Page 38,39 – Storage Statistics 1,2
Page 40 – Storage Library
Page 41,42 – Storage Views 1,2
Page 43 – User Devices (Keyboards, Mouse)
Page 44 – Displays
Page 45 – Memory
Page 46 – Modems
Page 47,48,49 – Printing 1,2,3
Page 50 – Sensors & Alarm
Page 51 – 7 USB
Page 52 – Disk Group
Page 53 – Device Sharing
Page 54 – LED
Page 55 – WiFi Services
Page 56 – VTL Statistics
Page 57 – Dependency (1) [A - Ba]
Page 58 – Dependency (2) [D - Pi]
Page 59 – Dependency (3) [Po - S]
Page 60 – Dependency (4) [Po - S]

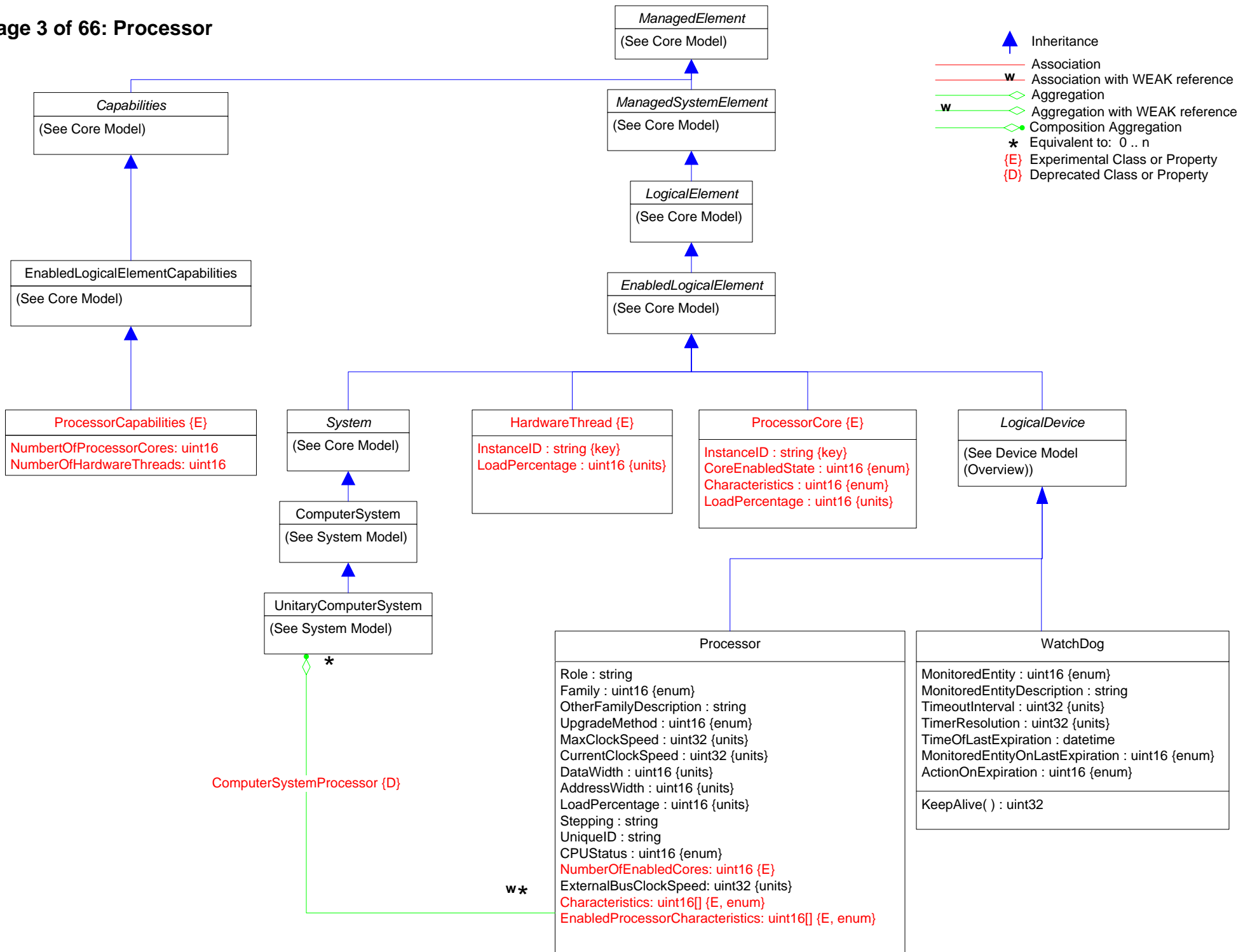
Page 61 – Association Hierarchy
Page 62 – Aggregation Hierarchy
Page 63 – Association Deprecation
Page 64 – Aggregation Deprecation
Page 65 – View Associations 1
Page 66 – View Associations 2












Page 2 of 66: Cooling & Power

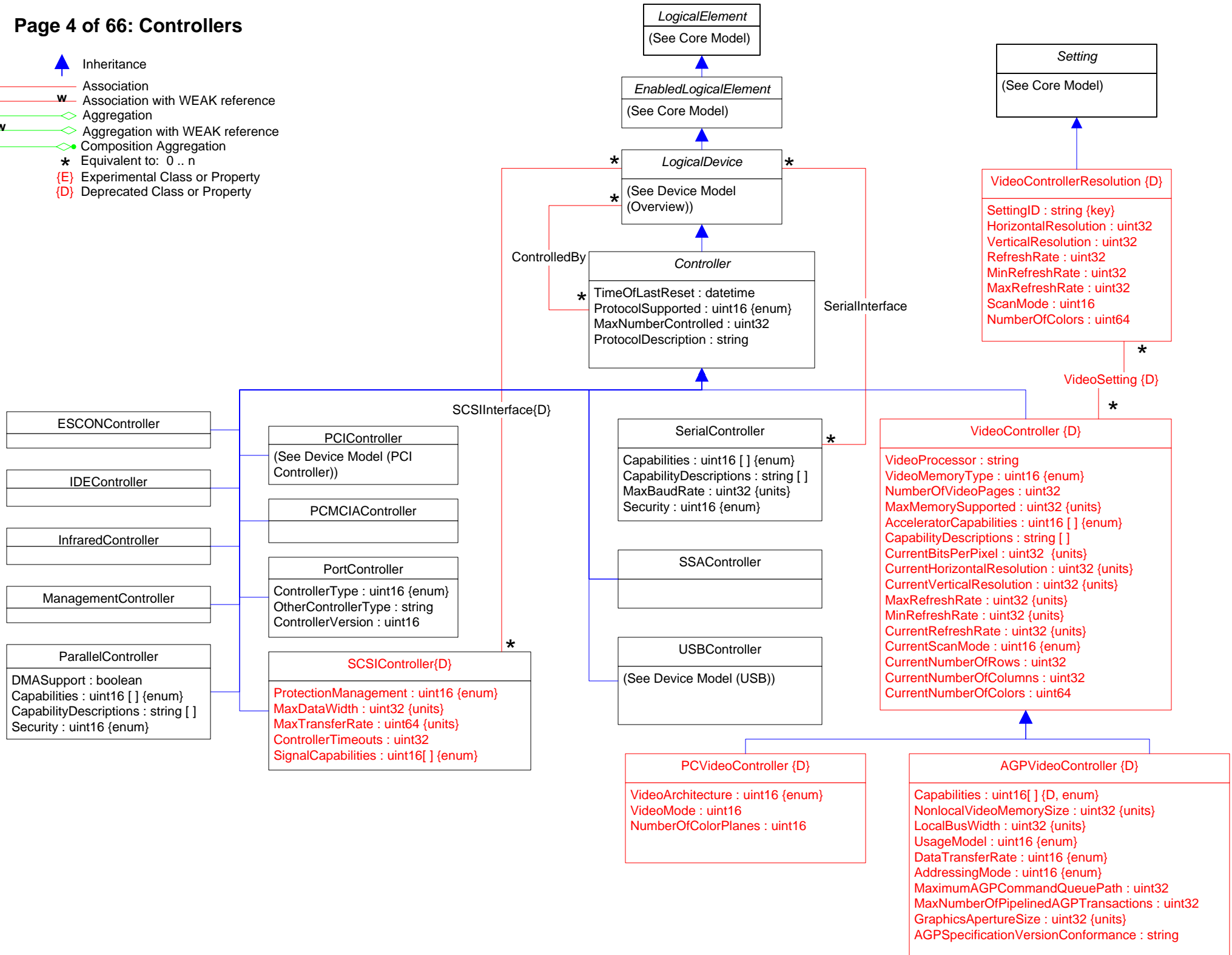
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Composition Aggregation
-  Equivalent to: 0..n
- (E) Experimental Class or Property
- (D) Deprecated Class or Property












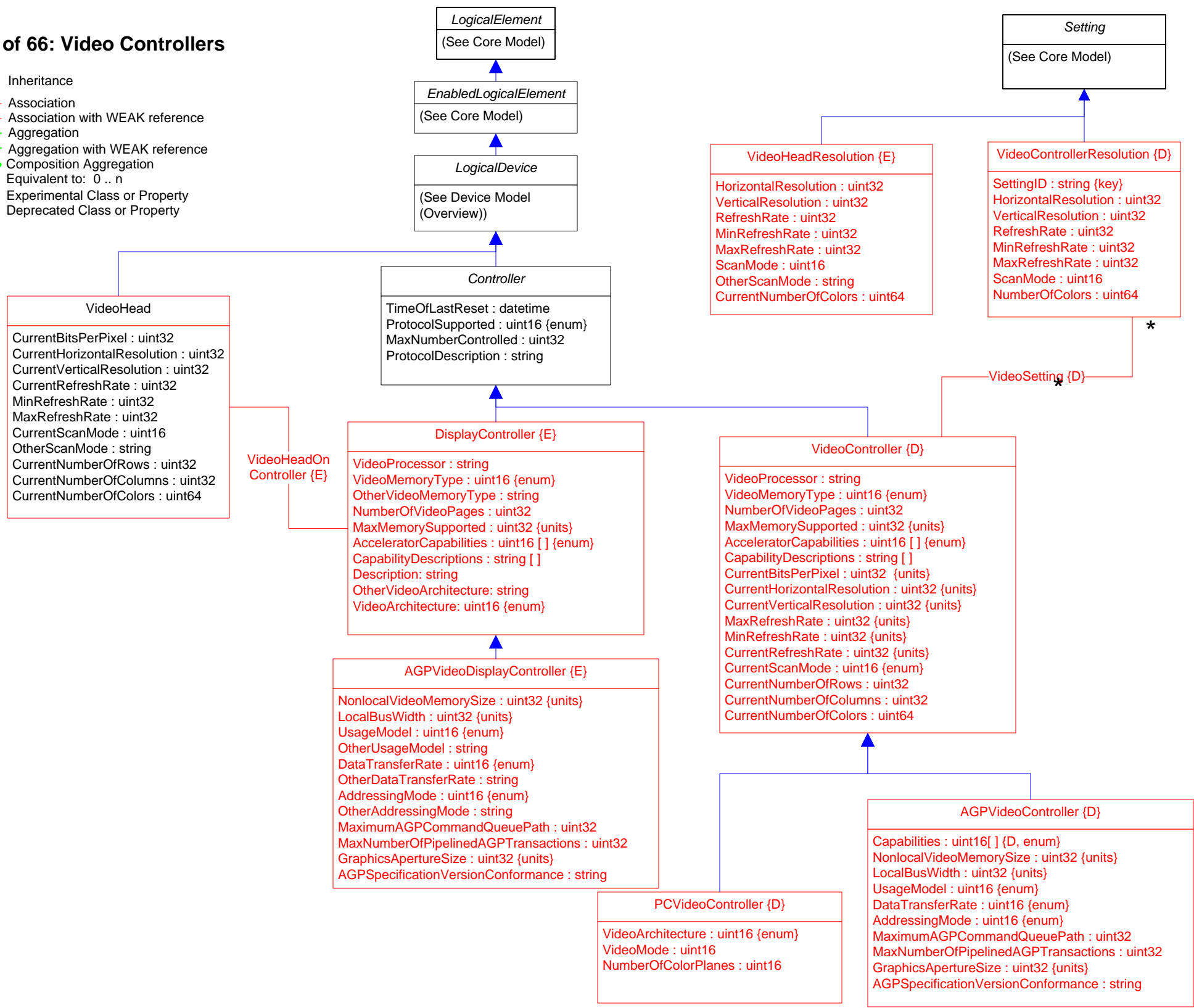


Page 4 of 66: Controllers










-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property

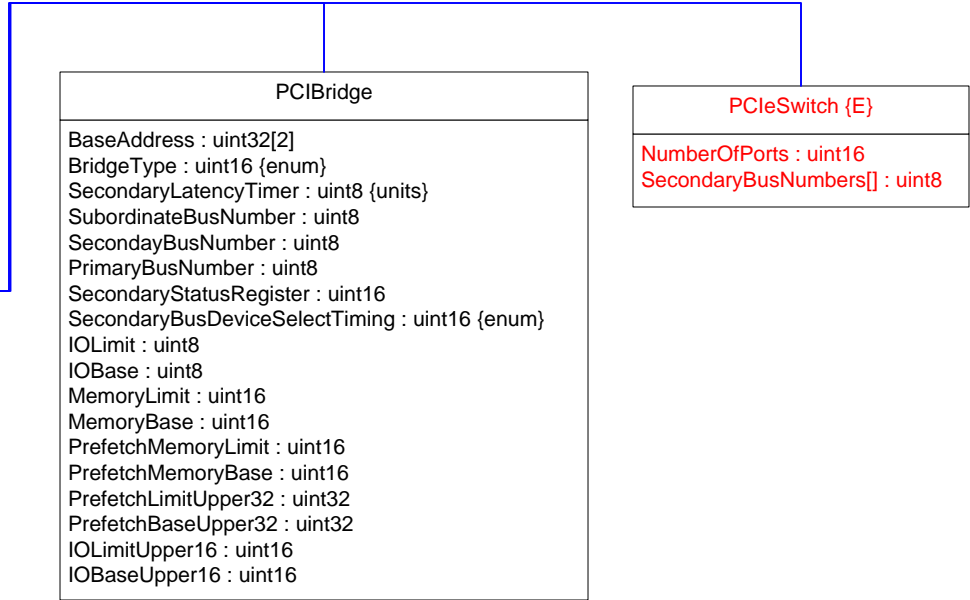
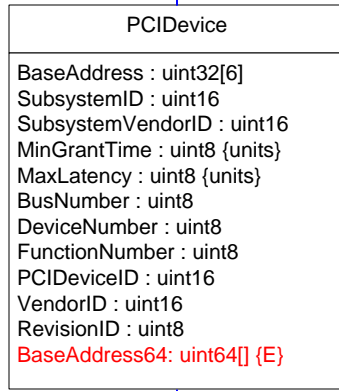
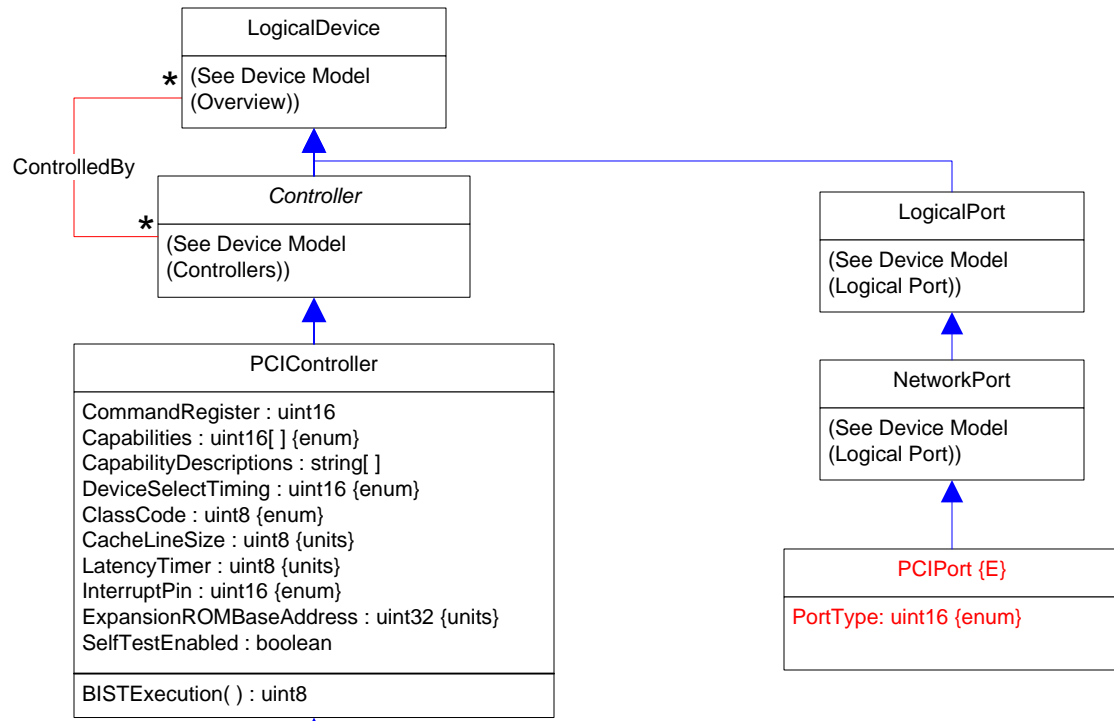
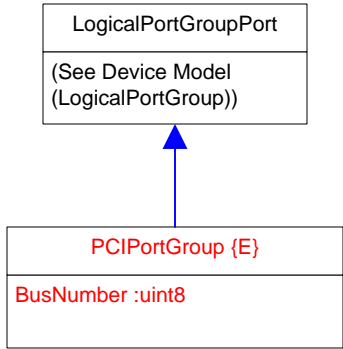


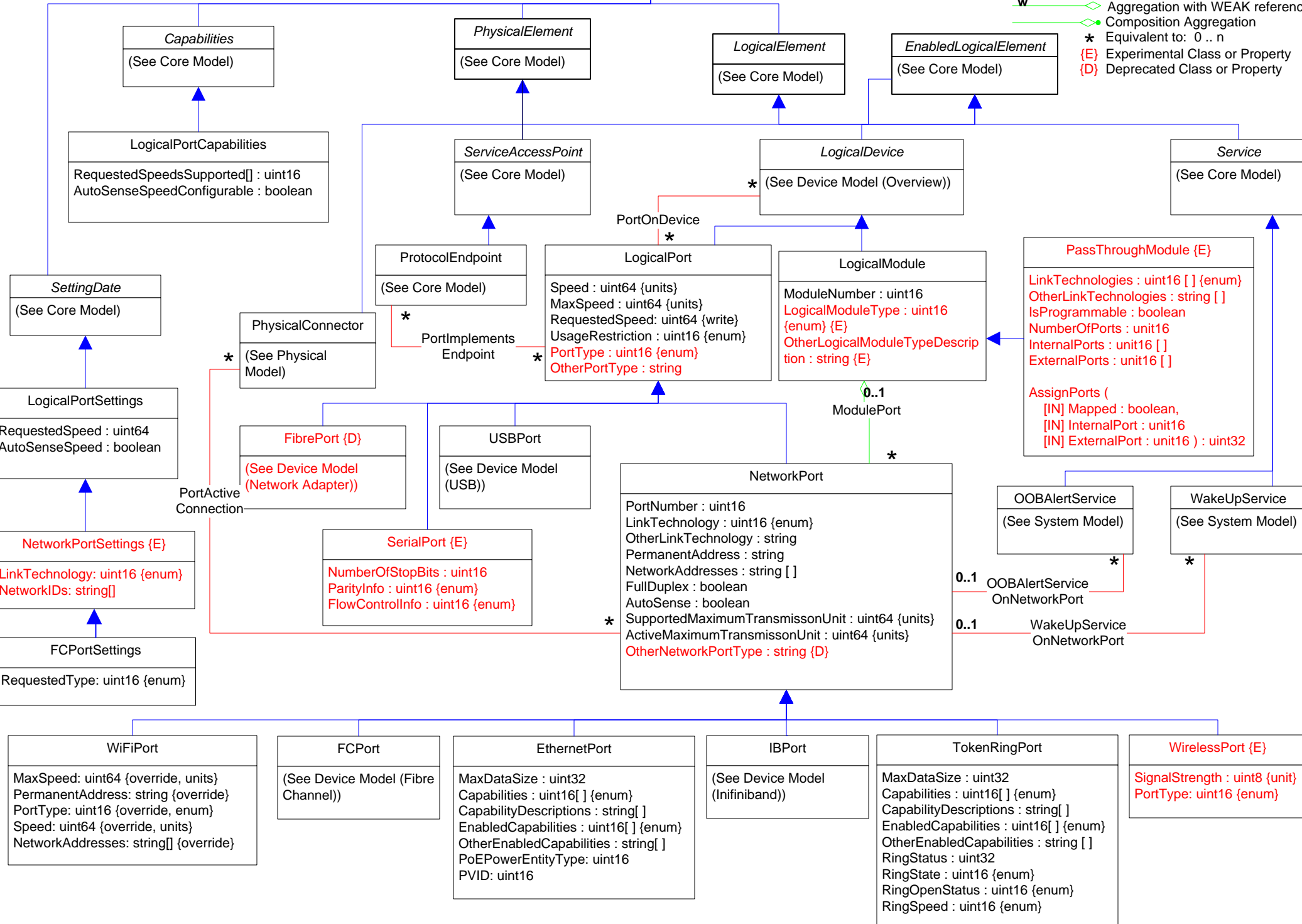
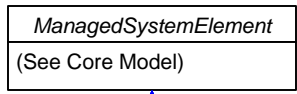
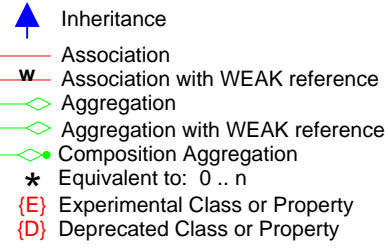
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property












Page 6 of 66: PCI Controllers

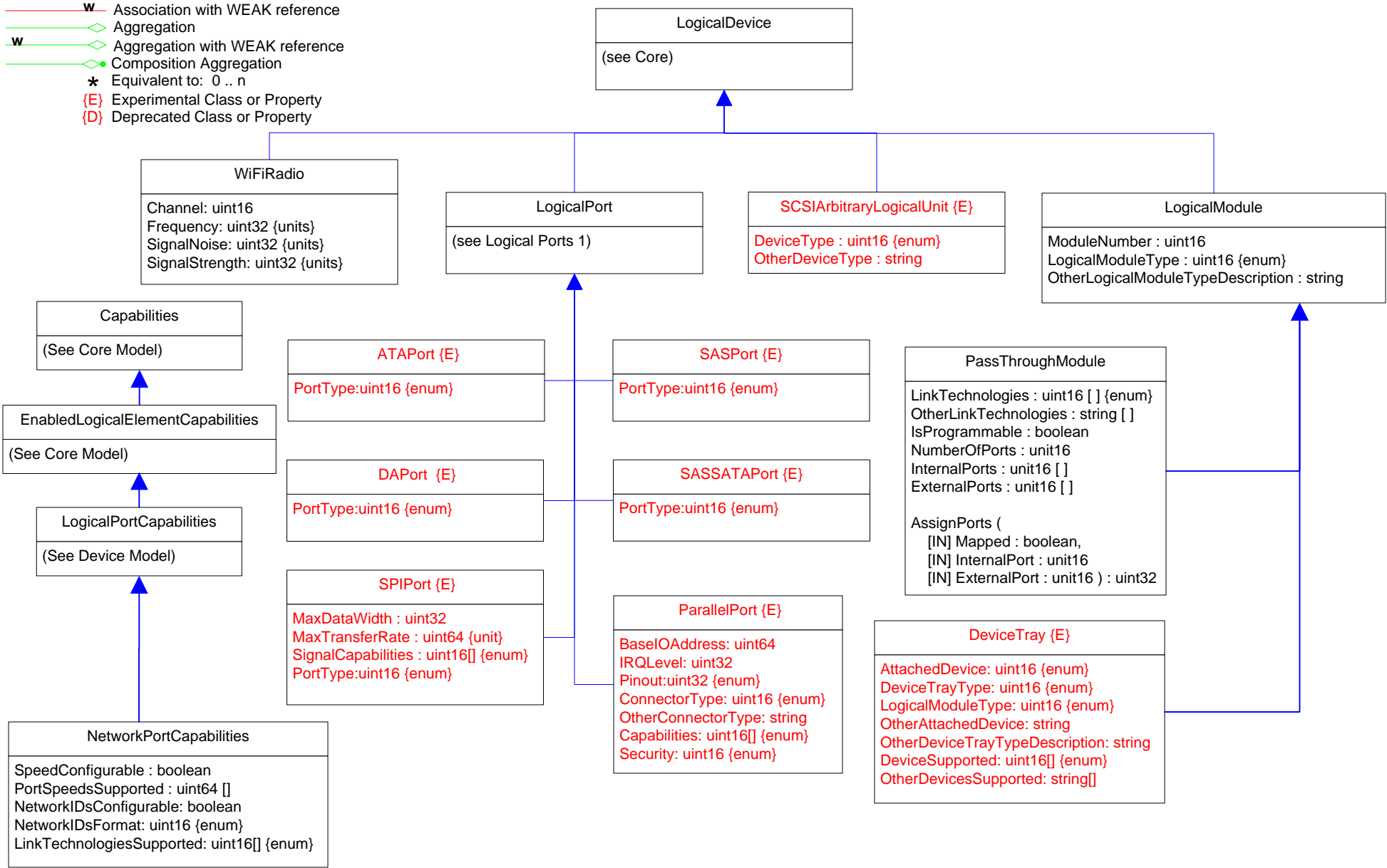
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n
-  Experimental Class or Property
-  Deprecated Class or Property












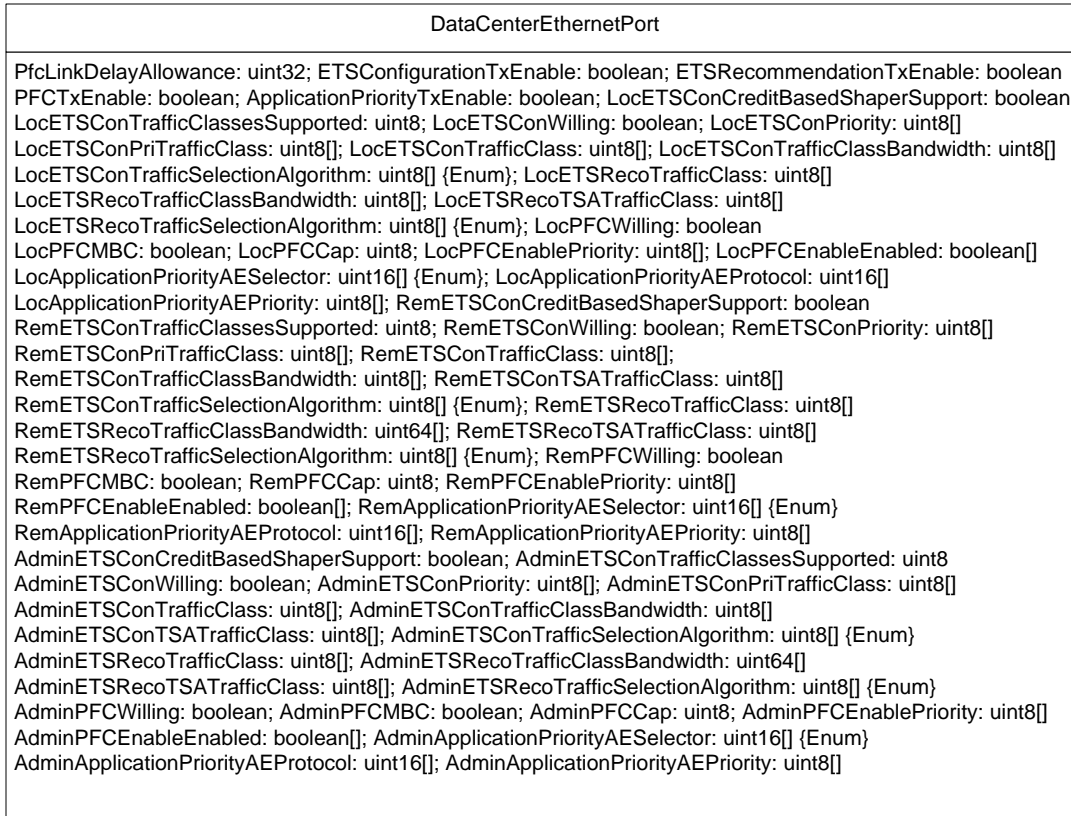
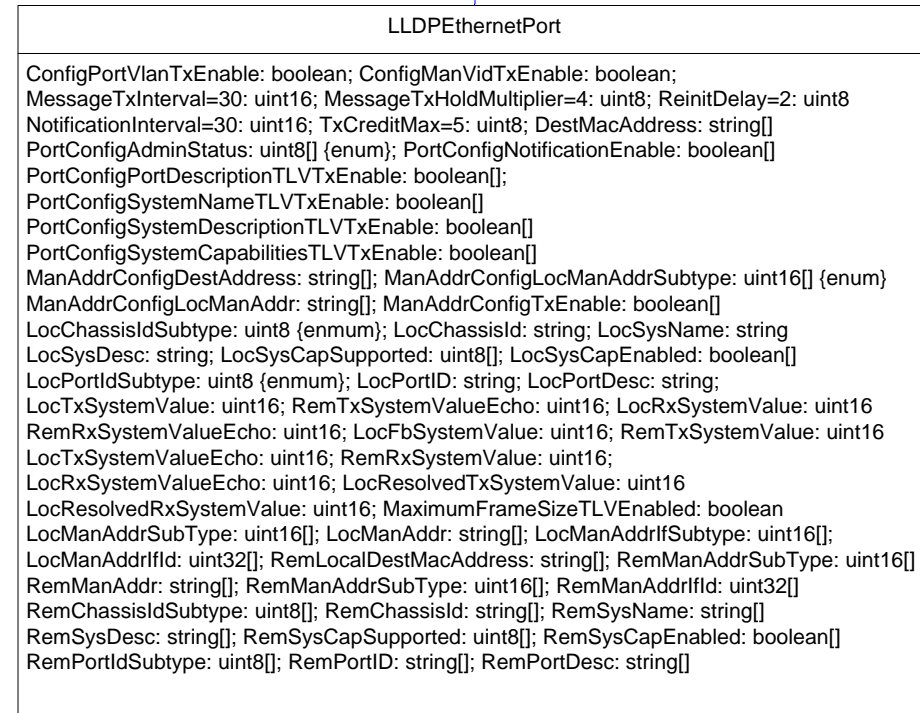
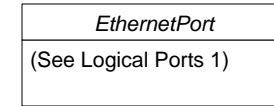


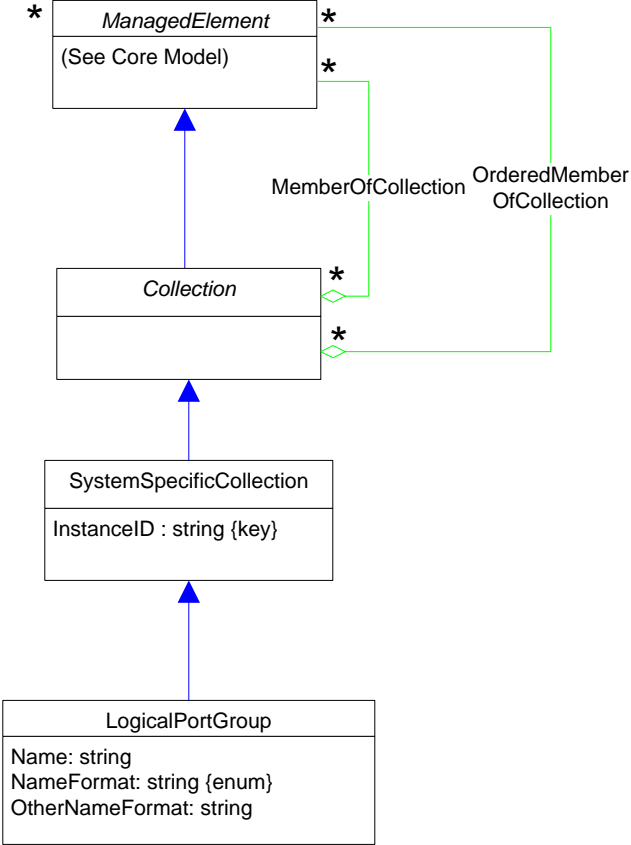
Page 8 of 66: Logical Ports 2










-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property

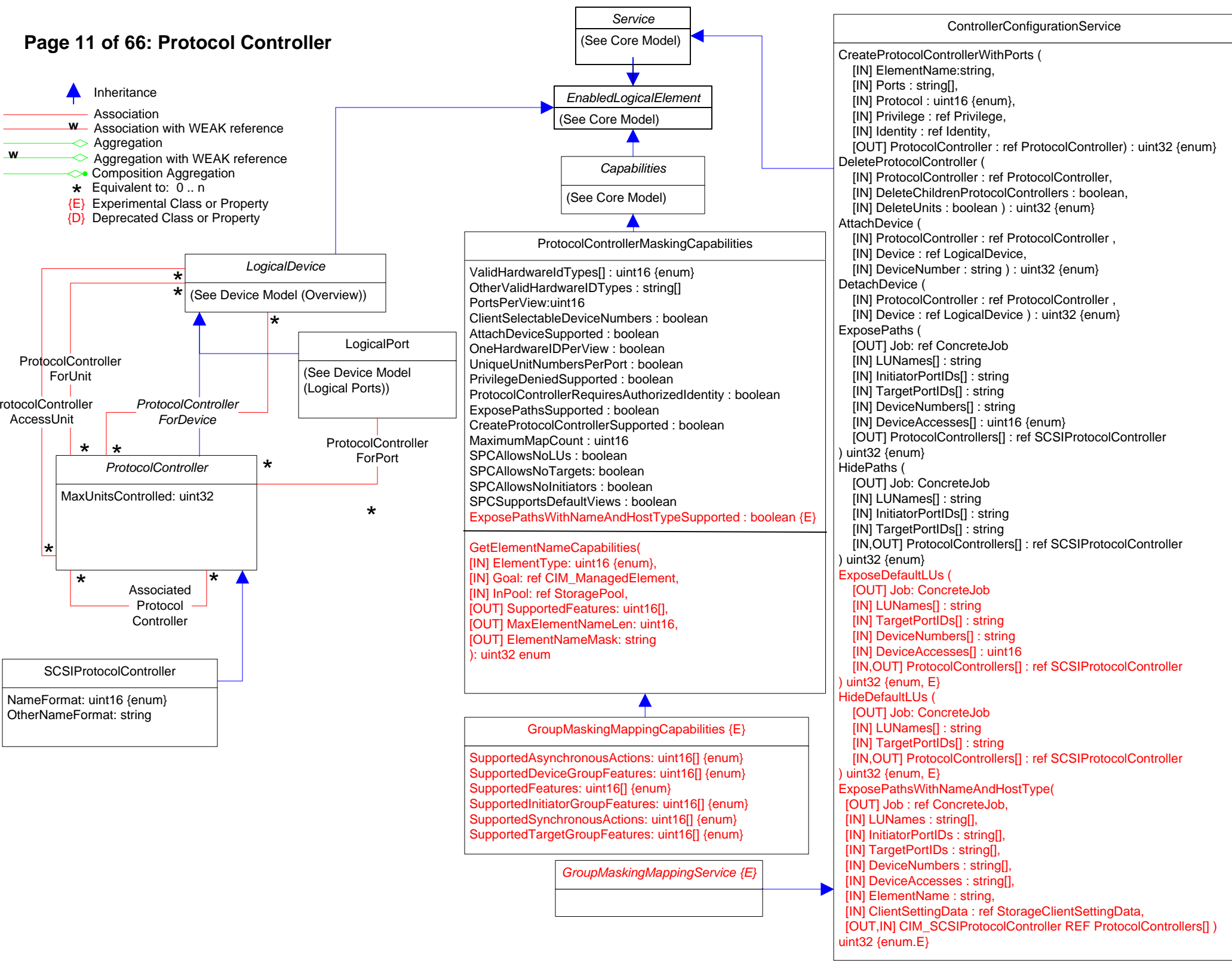


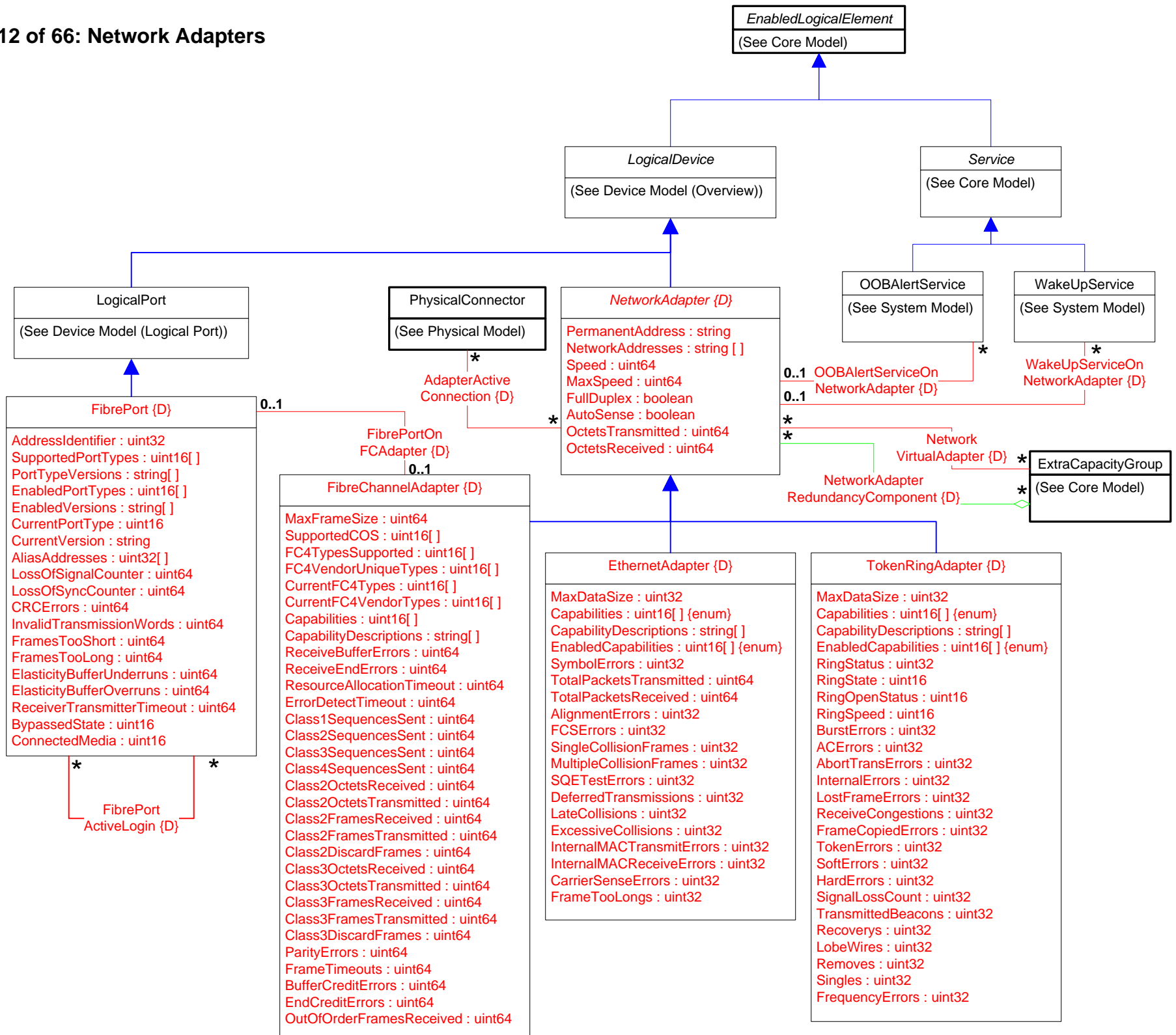
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property

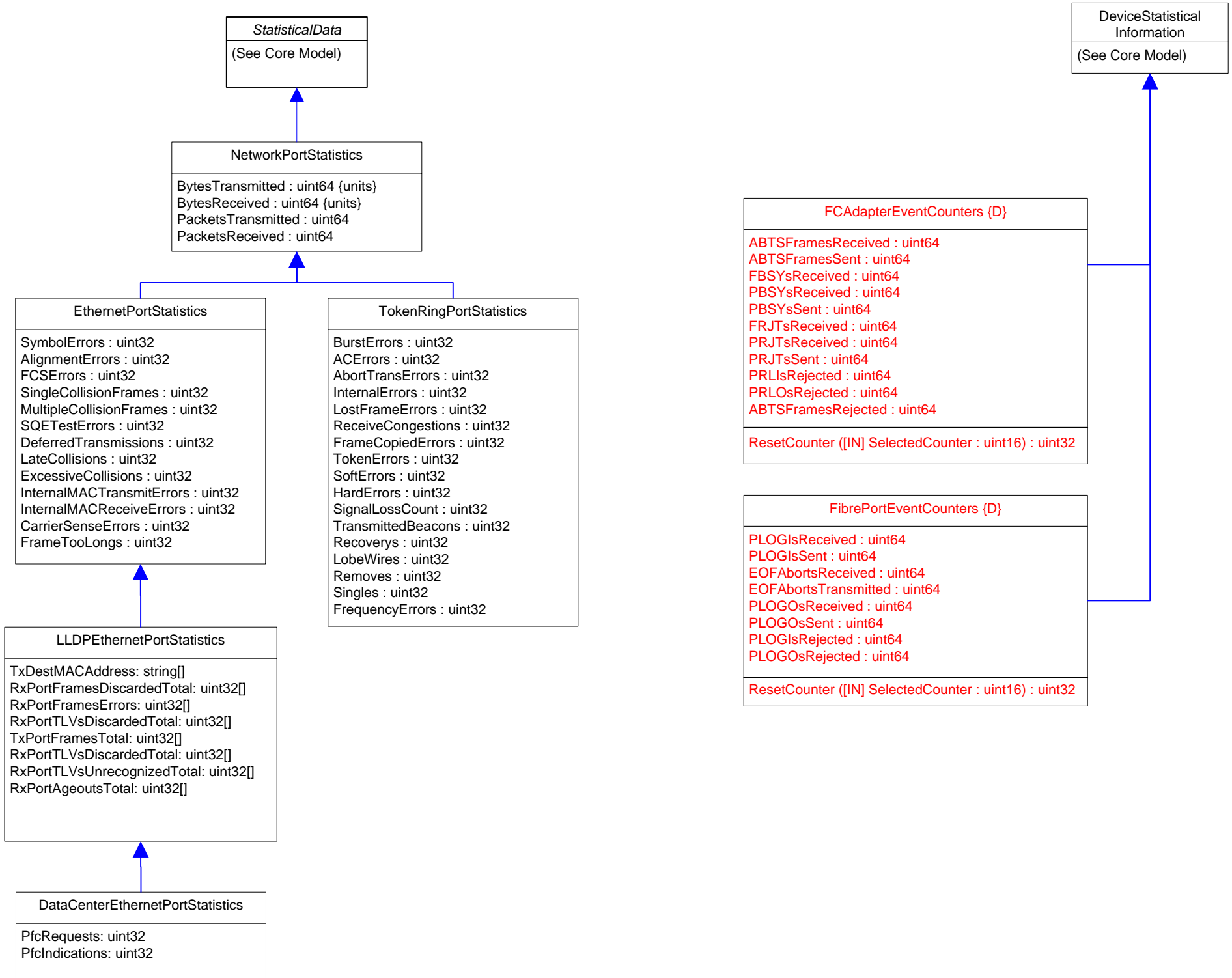













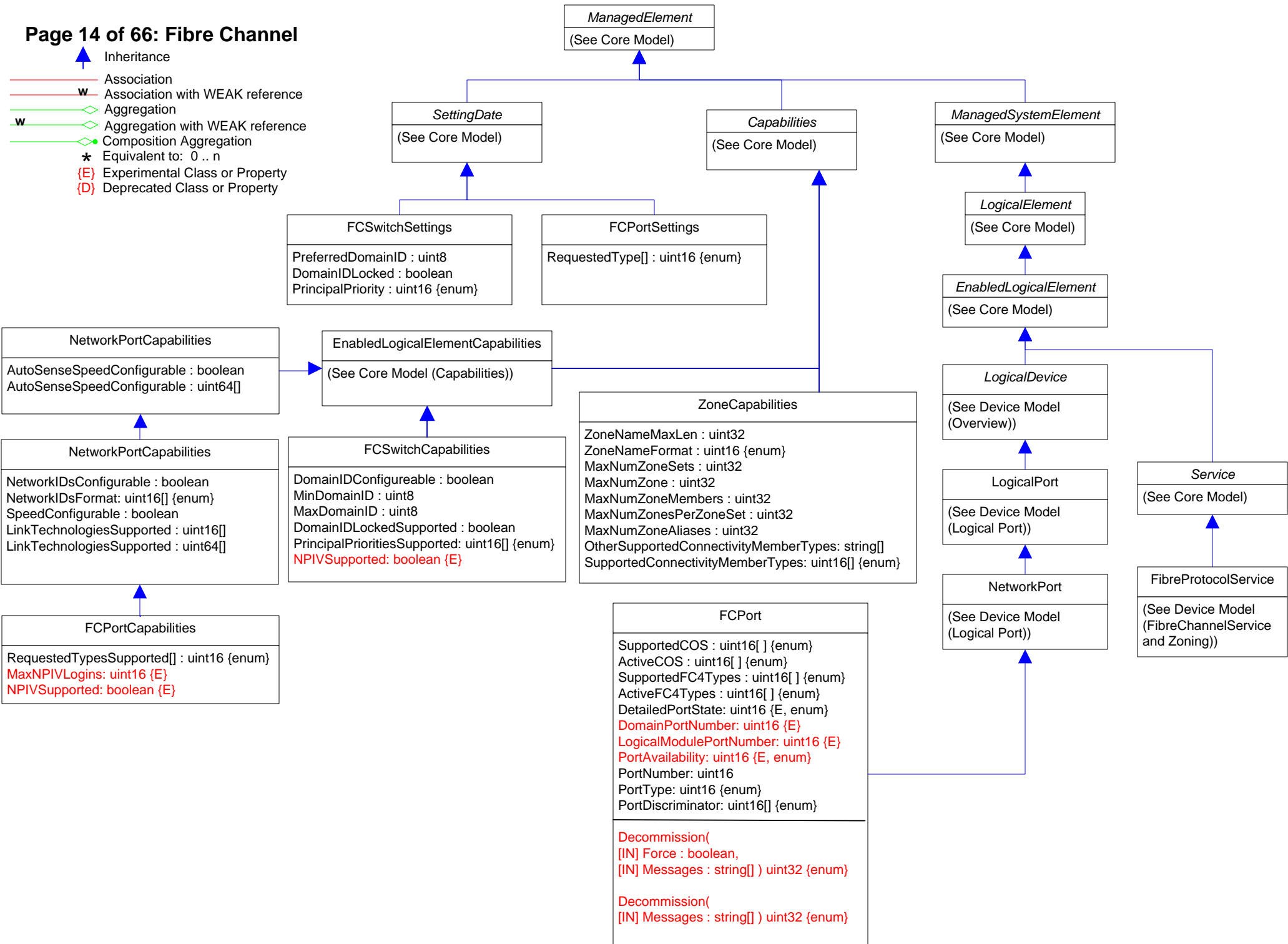
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  {E} Experimental Class or Property
-  {D} Deprecated Class or Property

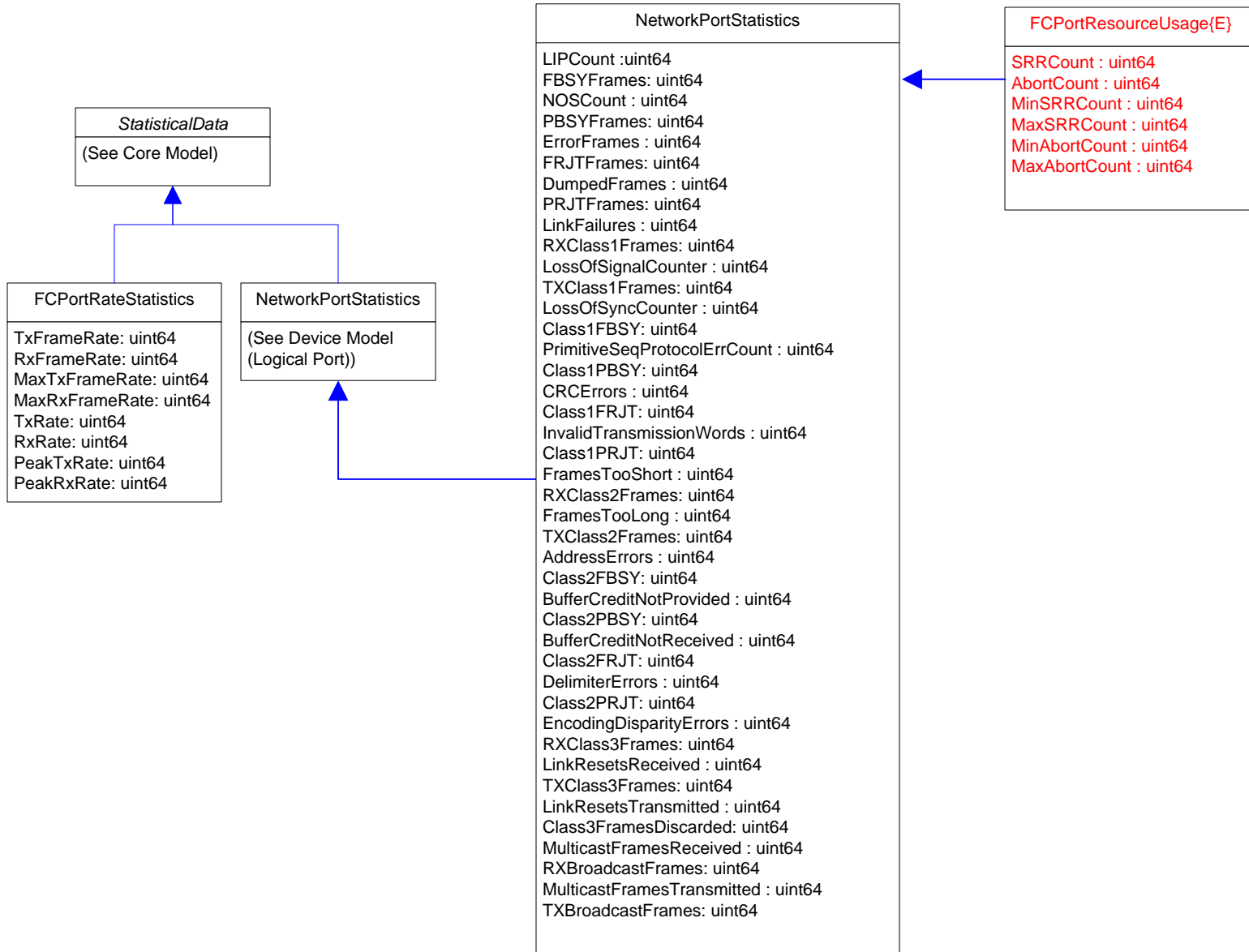













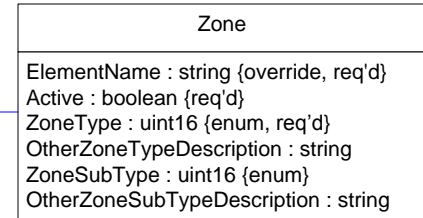
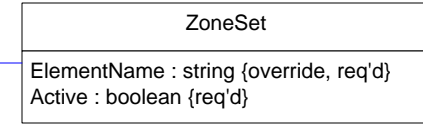
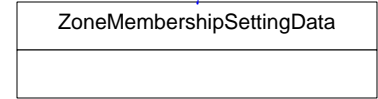
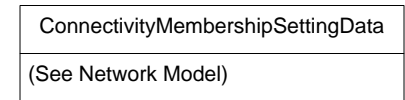
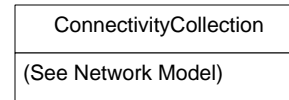
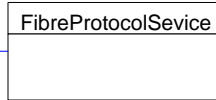
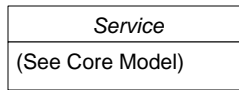
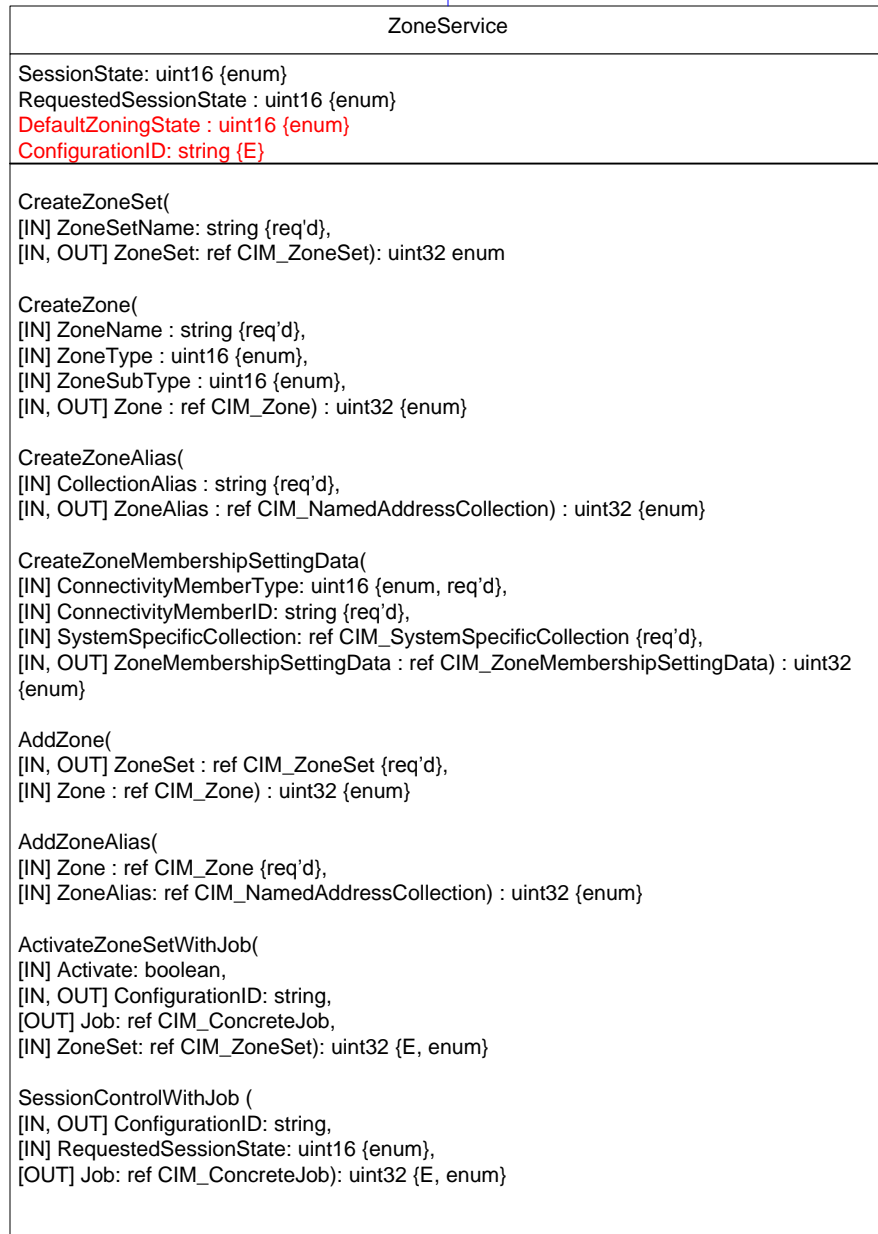











-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property

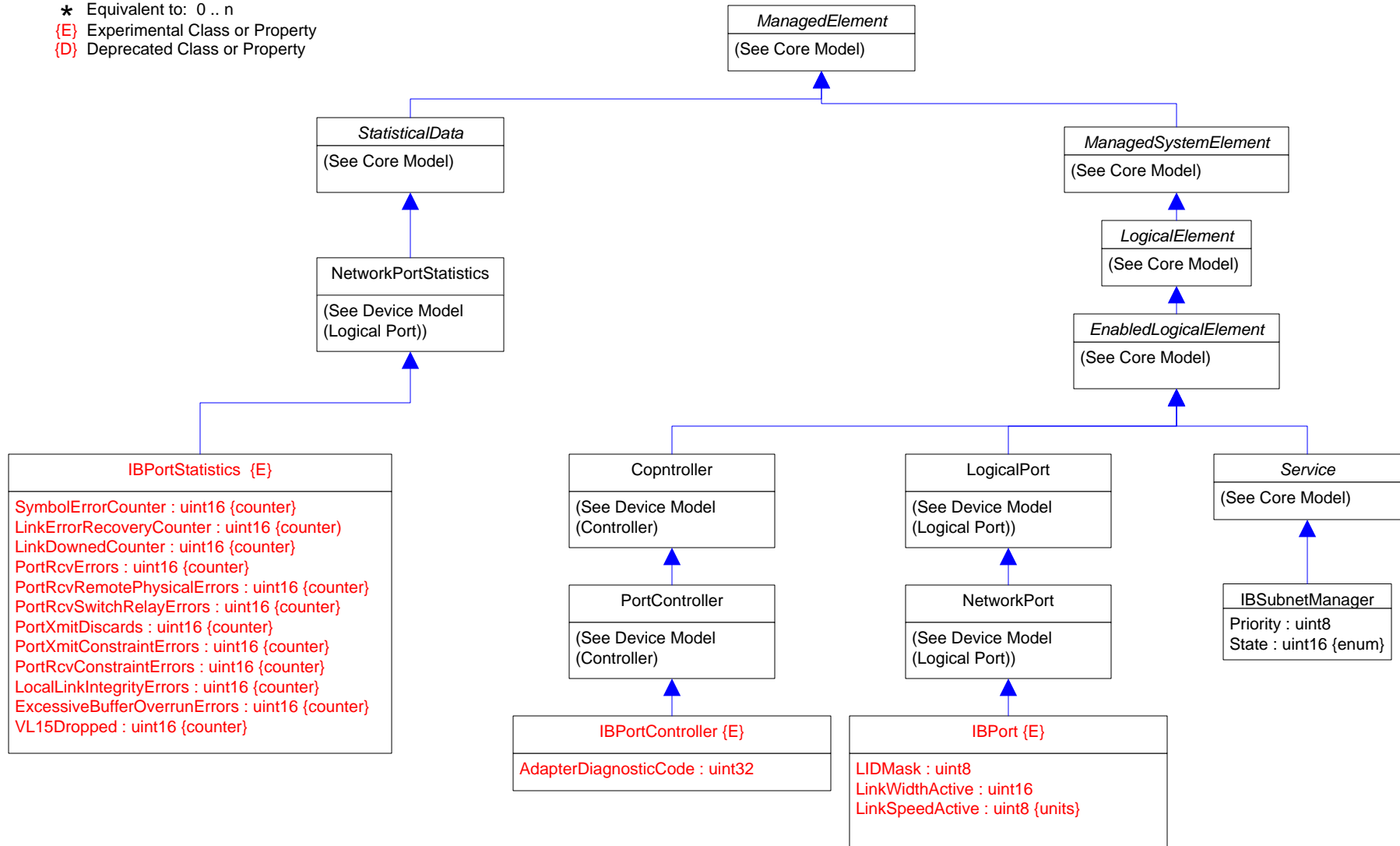













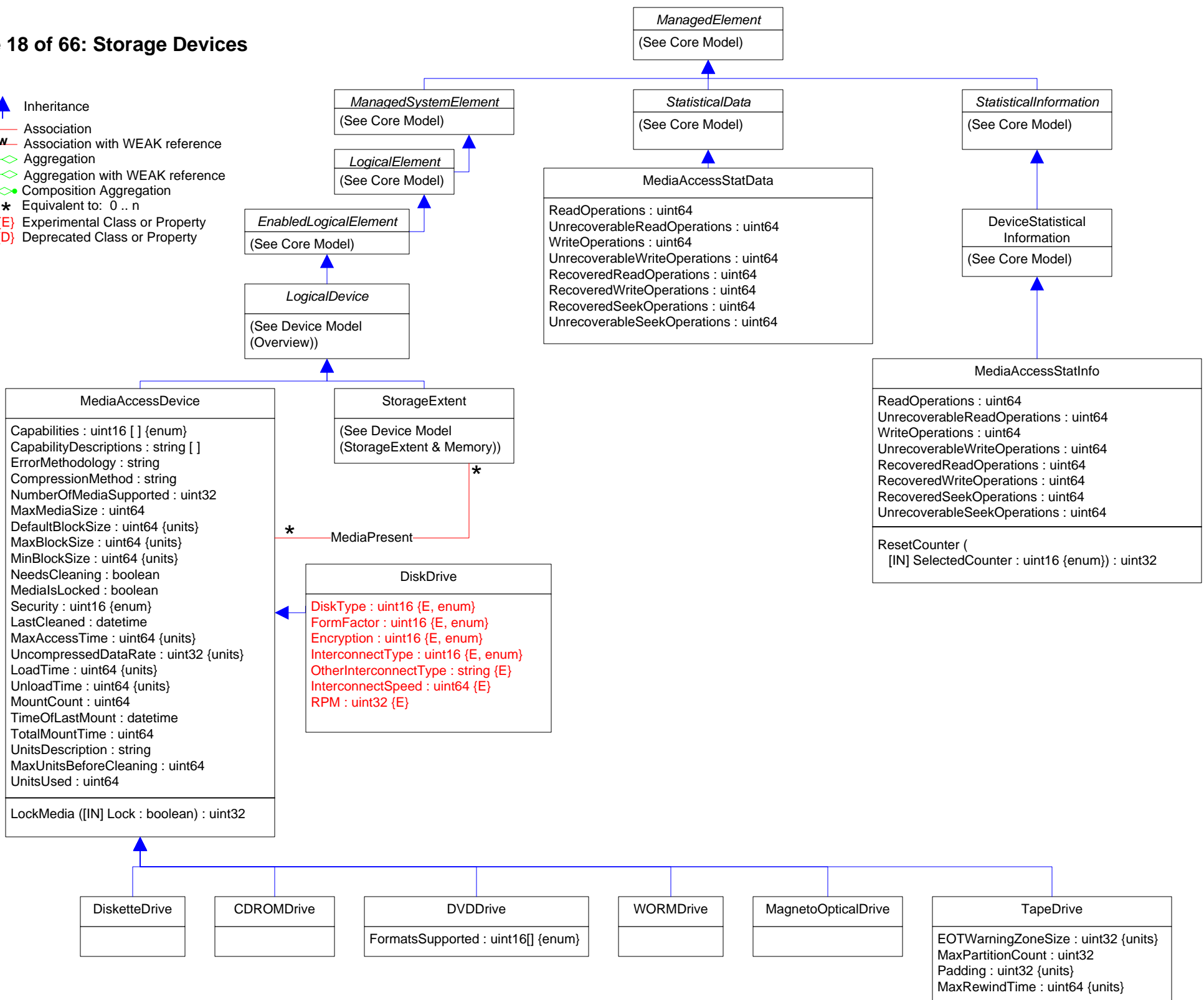
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property




-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property



-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n
-  Experimental Class or Property
-  Deprecated Class or Property



Page 19 of 66: Storage Multipath

-  Inheritance
- Association
- Association with WEAK reference
- Aggregation
- Aggregation with WEAK reference
- Composition Aggregation
- Equivalent to: 0 .. n
- Experimental Class or Property
- Deprecated Class or Property

SystemSpecificCollection
(See Core Model)

Service
(See Core Model)

Capabilities
(See Core Model)

SCSITargetPortGroup

AccessState : uint16 {enum}
 SupportsLuAssignment : boolean
 ExplicitFailover : boolean
 Preferred : boolean
 Identifier : uint16

SCSIPathConfigurationService

SetTPGAccess (
 [IN] LogicalUnit : ref LogicalDevice
 [IN] TargetPortGroups : ref SCSITargetPortGroup []
 [IN] AccessStates {enum}
) : uint32 {enum}
 SetLoadBalanceAlgorithm (
 [IN] LogicalDevice : ref LogicalDevice
 [IN] LoadBalanceAlgorithm : uint16 {enum}
 [IN] OtherLoadBalanceAlgorithmDescription : string
) : uint32 {enum}
 AssignLogicalUnitToPortGroup (
 [IN] LogicalUnit : ref LogicalDevice
 [IN] TargetPortGroup : ref SCSITargetPortGroup
) : uint32 {enum}
 SetOverridePath (
 [IN] Path : ref SCSIInitiatorTargetLogicalUnitPath
) : uint32 {enum}
 CancelOverridePath (
 [IN] LogicalUnit: ref LogicalDevice
) : uint32 {enum}

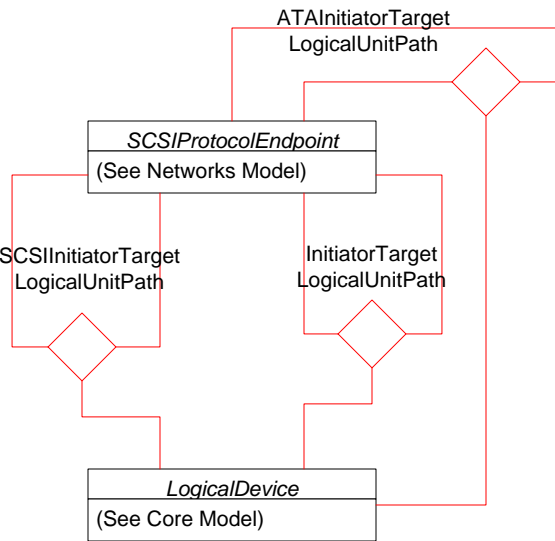
SCSIMultipathConfigurationCapabilities










SupportedLoadBalanceTypes : uint16 {enum}
 OtherSupportedLoadBalanceAlgorithmNames : string []
 OtherSupportedLoadBalanceVendorNames : string []
 CanSetTPGAccess : boolean
 CanOverridePaths : boolean
 ExposesPathDeviceFiles : boolean
 DeviceNameFilespace : string
 OnlySupportsSpecifiedProducts : boolean
 MaximumWeight : uint32
 PollingRateMax : uint32
 CurrentPollingRate: uint32
 AutoFailbackSupport : uint16 {Enum}
 AutoFailbackEnabled : boolean
 DefaultLoadBalanceType : uint16 {enum}

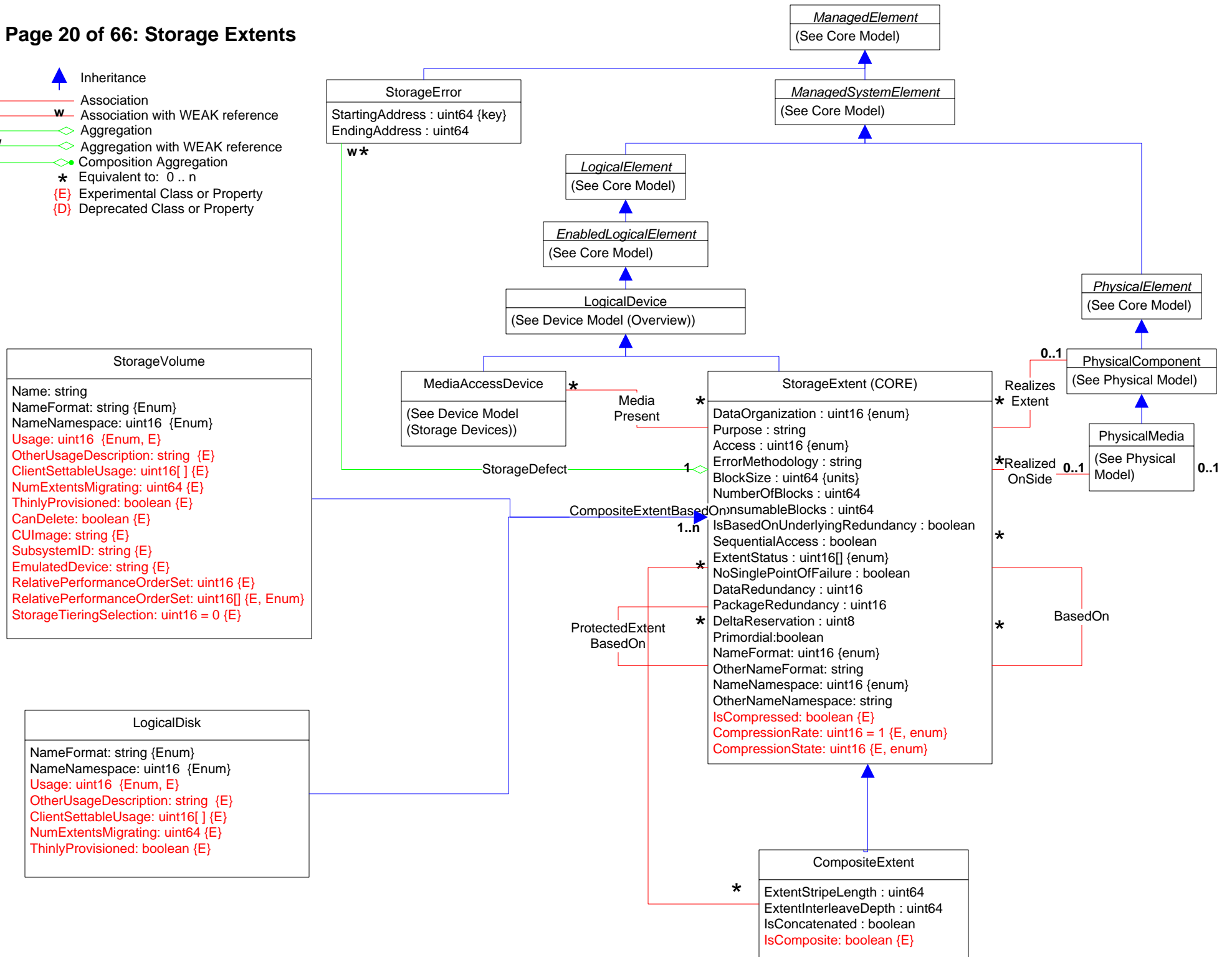
SettingData
(See Core Model)

SCSIMultipathSettings

Asymmetric: boolean
 AutoFailbackEnabled: uint16 {enum}
 CurrentLoadBalanceType: uint16 {enum}
 CurrentPollingRate: uint32
 OtherCurrentLoadBalanceType: string
 PollingRateMax: uint32



-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n
-  Experimental Class or Property
-  Deprecated Class or Property



Capabilities
(See core model)

DiskPartitionConfigurationCapabilities {E}
 PartitionStyle : uint16 {enum}
 ValidSubPartitionStyles : uint16 [] {enum}
 OtherValidSubPartitionStyles : string []
 Version : uint16
 MaxNumberOfPartitions : uint16
 SupportedSynchronousActions: uint16[] {enum}
 MaxCapacity : uint64
 OverlapAllowed : boolean
 PartitionTableSize : uint32

StorageElementCompositionCapabilities {E}
 MaxCompositeElements: uint64
 MaxCompositeSize: uint64
 SupportsCompositeNaming: boolean
 SupportsComposites: boolean
 SupportsRepresentativeElement: boolean
 CompositeSourcesSupported: uint16[] {enum}
 CompositeCharacteristics: uint16[] {enum}
 CompositeMethodsSupported: uint16[] {enum}
 SupportedAsynchronousActions: uint16[] {enum}
 SupportedStorageElements: uint16[] {enum}
 SupportedSynchronousActions: uint16[] {enum}

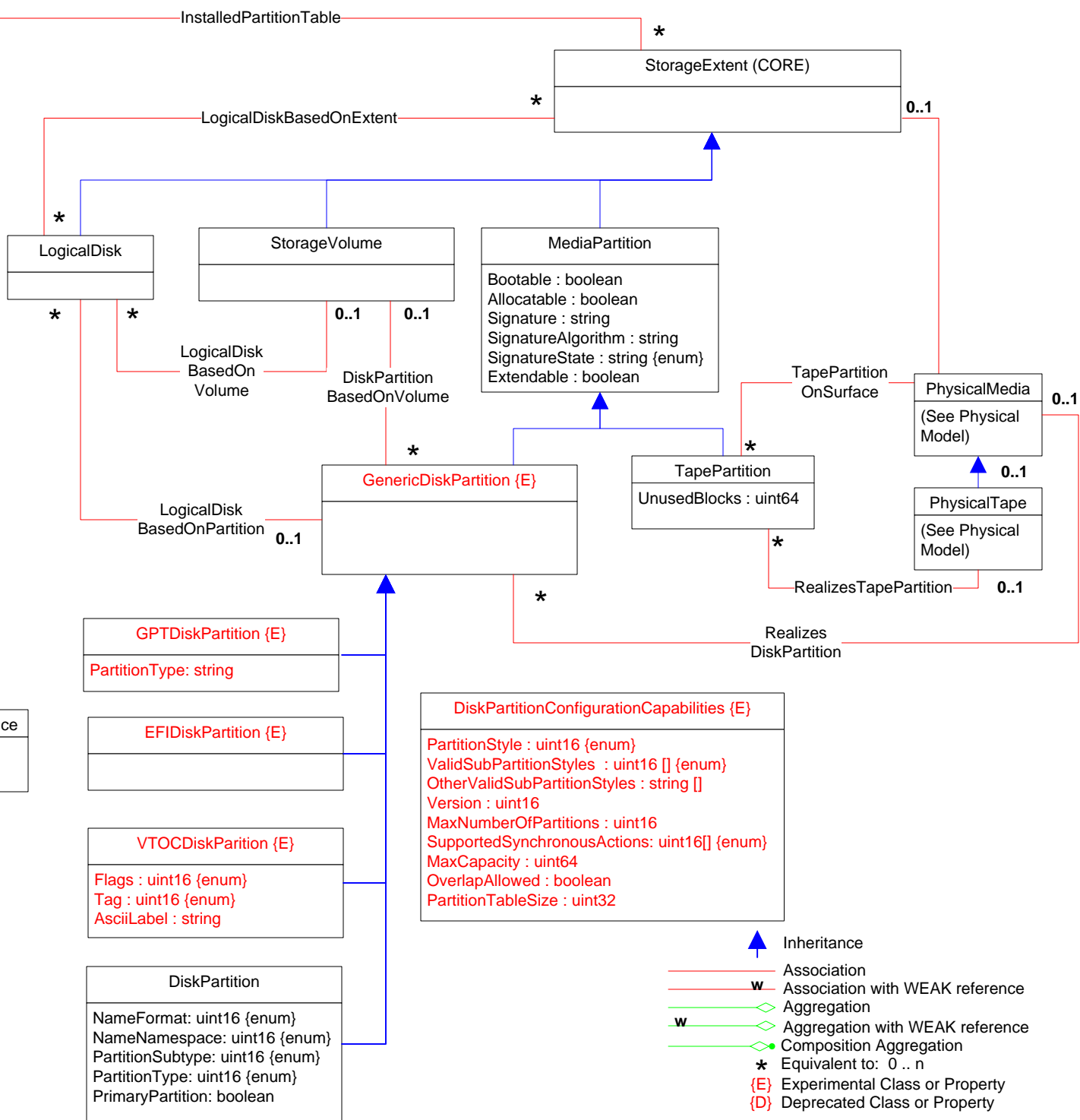
Service
(See Core model)

StorageElementCompositionService










DiskPartitionConfigurationService {E}
 PartitioningSchemes : uint16 {enum}

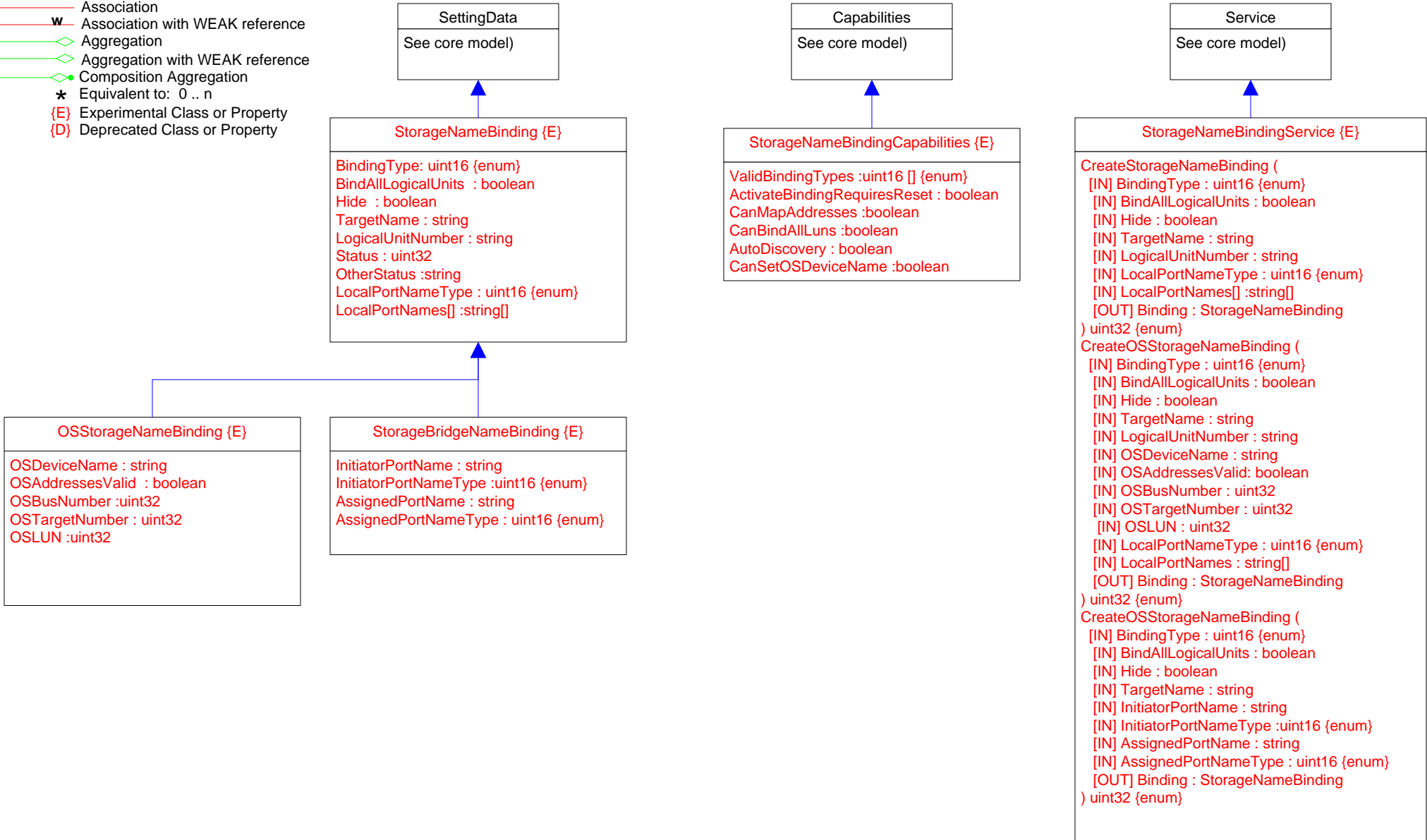
SetPartitionStyle (
 [IN] Extent : ref StorageExtent
 [IN] PartitionStyle : ref DiskPartitionConfigurationCapabilities
) : uint32 {enum}

CreateOrModifyPartition (
 [IN] Extent : ref StorageExtent
 [IN] StartingAddress : uint64
 [IN] EndingAddress : uint64
 [IN] DeviceFileName : string
 [IN] Partition: ref GenericDiskPartition
) : uint32 {enum}



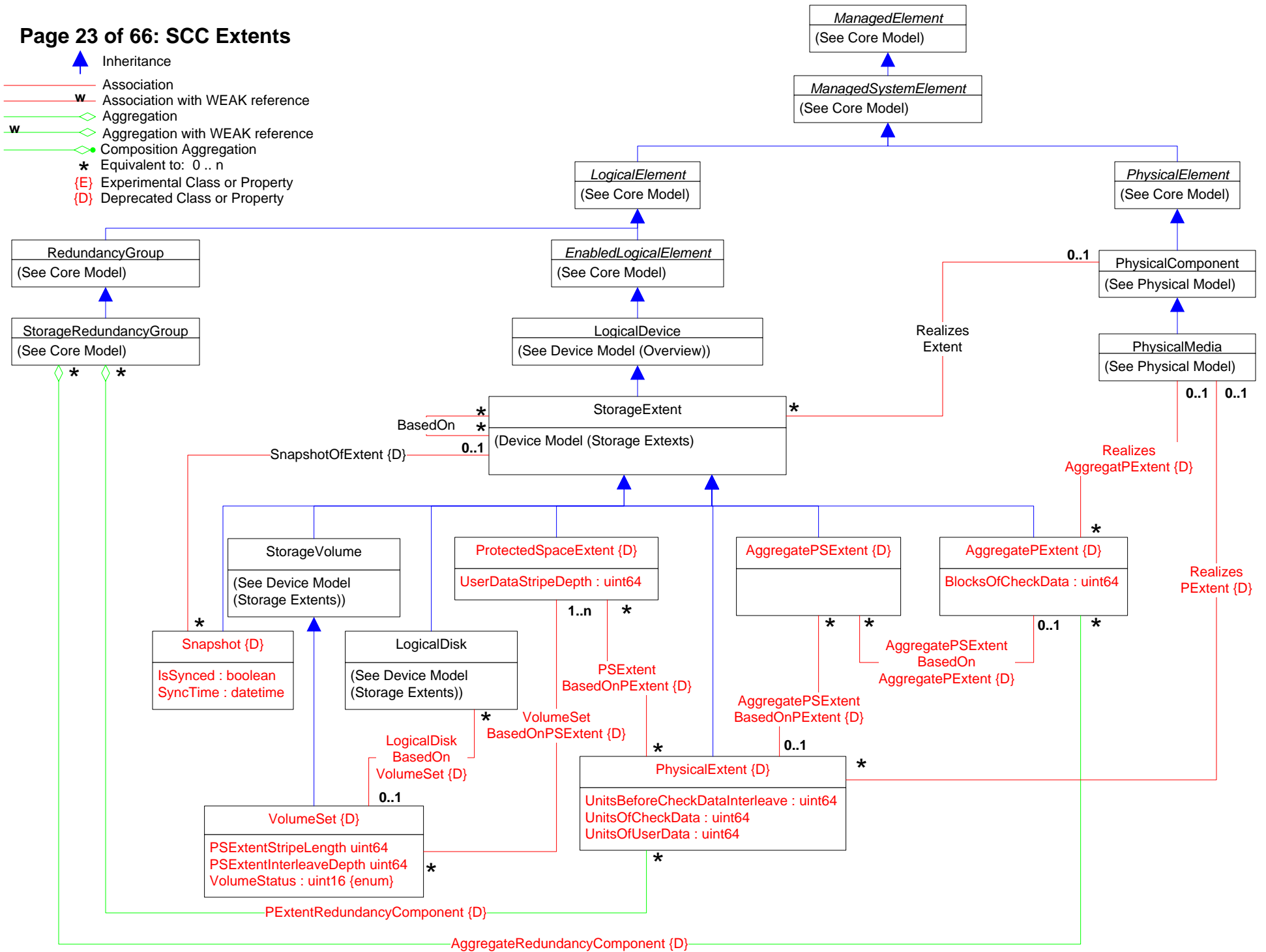
Page 22 of 66: StorageNameBinding

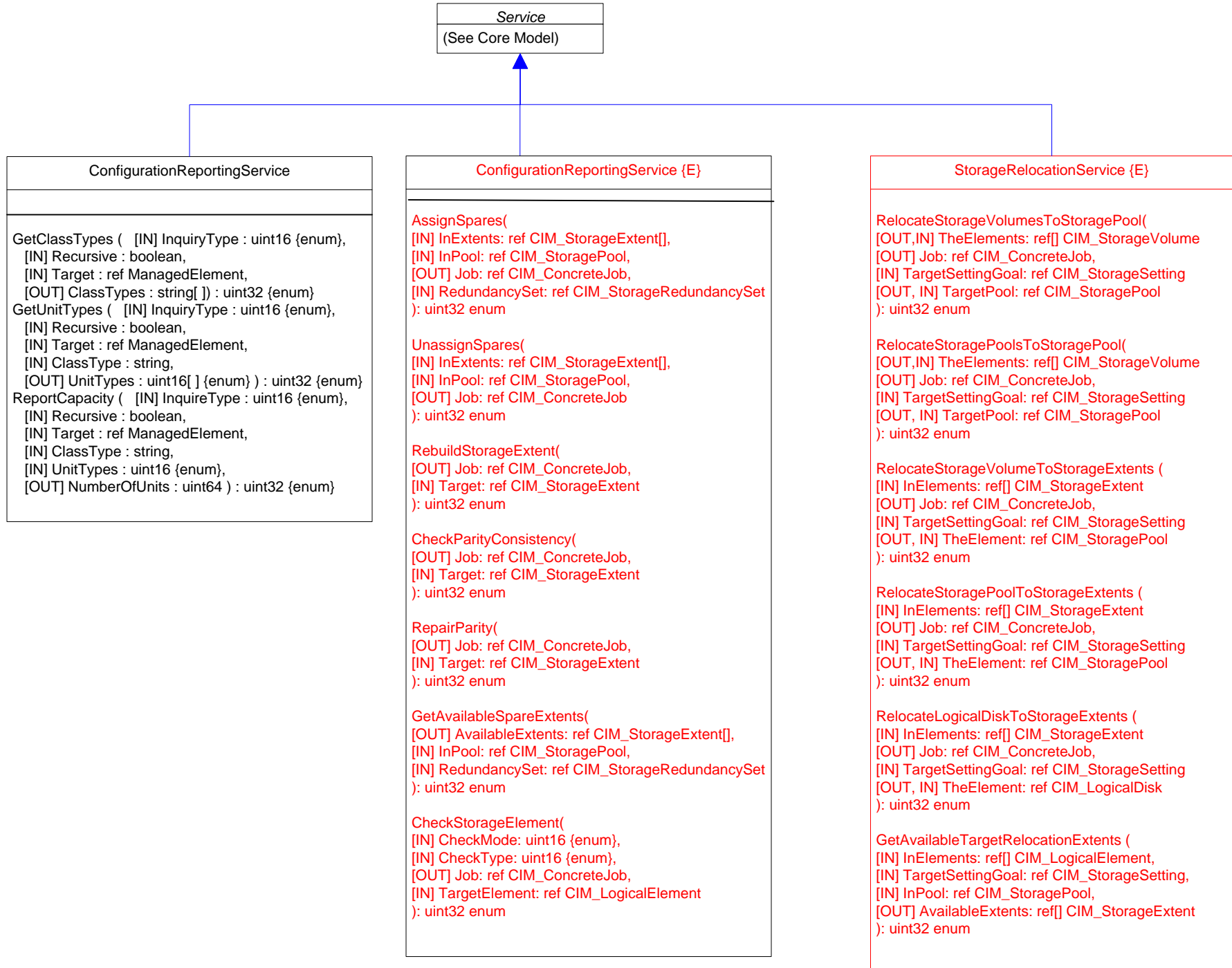
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n
-  Experimental Class or Property
-  Deprecated Class or Property

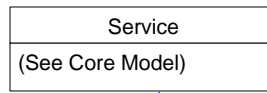


Page 23 of 66: SCC Extents

- ▲ Inheritance
- Association
- w Association with WEAK reference
- ◊ Aggregation
- ◊w Aggregation with WEAK reference
- ◊● Composition Aggregation
- ★ Equivalent to: 0..n
- {E} Experimental Class or Property
- {D} Deprecated Class or Property





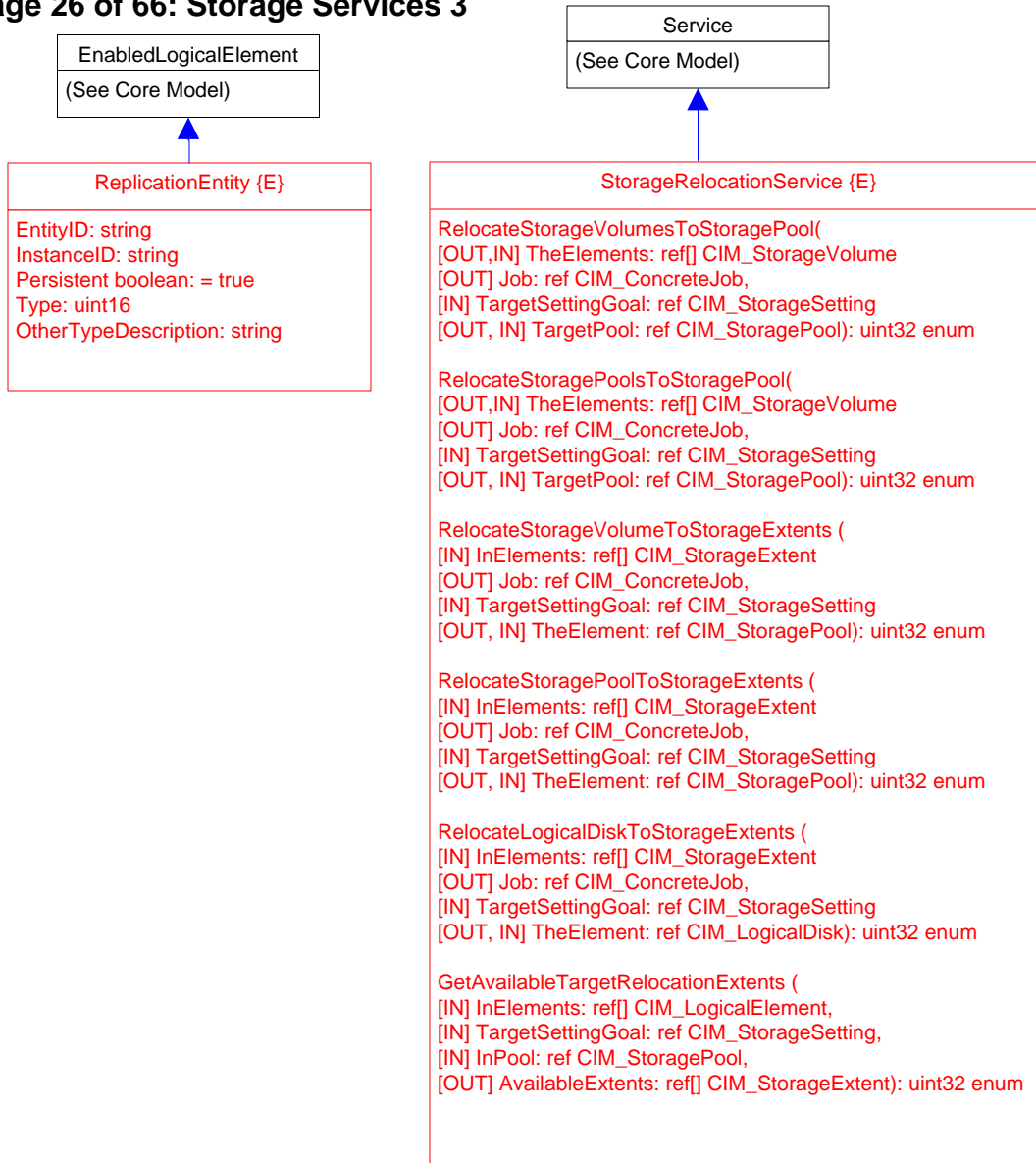


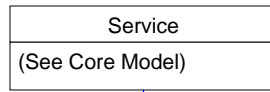
StorageConfigurationService {E}

```

CreateOrModifyStoragePool(
  [IN] string ElementName, [OUT] CIM_ConcreteJob ref Job, [IN] CIM_ManagedElement ref Goal, [IN] uint64 Size, [IN] string InPools[], [IN] string InExtents[], [OUT, IN] Pool: ref CIM_StoragePool ); uint32 (enum)
CreateOrModifyElementFromStoragePool(
  [IN] string ElementName, [IN] uint16 ElementType, [IN] Job: ref CIM_ConcreteJob, [IN] Goal: ref CIM_ManagedElement, [IN] uint64 Size, [IN] InPool: ref CIM_StoragePool, [OUT, IN] TheElement: ref CIM_LogicalElement ); uint32 (enum)
DeleteStoragePool(
  [IN] Job: ref CIM_ConcreteJob, [IN] Pool: ref CIM_StoragePool ); uint32 (enum)
ReturnToStoragePool(
  [IN] Job: ref CIM_ConcreteJob, [IN] TheElement: ref CIM_LogicalElement ); uint32 (enum)
CreateReplica(
  [IN] string ElementName, [IN] Job: ref CIM_ConcreteJob, [IN] SourceElement: ref CIM_LogicalElement, [IN] TargetElement: ref CIM_LogicalElement, [IN] TargetSettingGoal" ref CIM_ManagedElement, [IN] TargetPool: ref CIM_StoragePool, [IN] uint16 CopyType (enum)); uint32 (enum)
ModifySynchronization(
  [IN] uint16 Operation, enum, [IN] Job: ref CIM_ConcreteJob, [IN] Synchronization: ref CIM_StorageSynchronized ); uint32 (enum)
AttachReplica(
  [IN] Job: ref CIM_ConcreteJob, [IN] SourceElement: ref CIM_ManagedElement, [IN] TargetElement: ref CIM_ManagedElement, [IN] uint16 CopyType {enum}); uint32 (enum)
AttachOrModifyReplica(
  [IN] Job: ref CIM_ConcreteJob, [IN] SourceElement: ref CIM_ManagedElement, [IN] TargetElement: ref CIM_ManagedElement, [IN] uint16 CopyType, {enum} [IN] string Goal, [IN] ReplicationPipe: ref CIM_NetworkPipe ); uint32 (enum)
CreateOrModifyReplicationPipe(
  [IN] string PipeElementName, [IN] SourceSystem: ref CIM_ComputerSystem, [IN] TargetSystem: ref CIM_ComputerSystem, [IN] SourceEndpoint: ref CIM_ProtocolEndpoint[], [[IN] TargetEndpoint: ref CIM_ProtocolEndpoint[], [IN] string Goal, [OUT, IN] ReplicationPipe: ref CIM_NetworkPipe ); uint32 (enum)
CreateReplicationBuffer(
  [IN] Job: ref CIM_ConcreteJob, [IN] Host: ref CIM_ManagedElement, [IN] TargetElement: ref CIM_StorageExtent, [IN] TargetPool: ref CIM_StoragePool, [IN] ReplicaBuffer: ref CIM_Memory ); uint32 (enum)
CreateOrModifyElementFromElements(
  [IN] string ElementName, [IN] uint16 ElementType, {enum}, [IN] Job: ref CIM_ConcreteJob, [IN] Goal: ref CIM_ManagedElement, [IN] uint64 Size, [IN] InElements: ref CIM_StorageExtent[], [OUT, IN] TheElement: ref CIM_LogicalElement ); uint32 (enum)
ScsiScan(
  [OUT, IN] CIM_ConcreteJob ref Job, [IN] uint16 ConnectionType, {enum}, [IN] string OtherConnectionType, [IN] Initiators: ref CIM_SCSIProtocolEndpoint[], [IN] string Targets[], [IN] string LogicalUnits[] ); uint32 (enum)
RequestUsageChange(
  [IN] uint16 Operation, {enum}, [IN] uint16 UsageValue, [IN] string OtherUsageDescription, [IN] Job: ref CIM_ConcreteJob, [IN] TheElement: ref CIM_LogicalElement ); uint32 (enum)
GetElementsBasedOnUsage(
  [IN] uint16 ElementType, {enum}, [IN] uint16 Usage, [IN] uint16 Criteria, {enum}, [IN] ThePool: ref CIM_StoragePool, [IN] TheElements: ref CIM_ManagedSystemElement[]; uint32 (enum)
AssignStorageResourceAffinity(
  [IN] uint16 ResourceType, [IN] Job: ref CIM_ConcreteJob, [IN] StorageProcessor: ref CIM_ComputerSystem, [IN] StorageResources: ref CIM_LogicalElement[]; uint32 (enum)
CreateElementsFromStoragePools(
  [IN] string ElementNames[], [IN] uint16 ElementType, {enum}, [IN] uint64 ElementCount, [OUT] Job: ref CIM_ConcreteJob, [IN] Goal: ref CIM_SettingData, [IN] uint64 Size, [IN] InPools: ref CIM_StoragePool[], [IN] Collections: ref CIM_Collection, [IN] TheElements: ref CIM_LogicalElement[]; uint32 (enum)
ReturnElementsToStoragePool(
  [IN] uint16 Options, {enum}, [IN] Job: ref CIM_ConcreteJob, [IN] TheElements: ref CIM_LogicalElement[]; uint32 (enum)

```





ReplicationService {E}

CreateGroup([IN] GroupName: string,[IN] Members: ref[] CIM_LogicalElement,[IN] Persistent: boolean,[IN] DeleteOnEmptyElement: boolean,[IN] DeleteOnUnassociated: boolean,[OUT] ServiceAccessPoint: ref[] CIM_ReplicationGroup,[IN] ReplicationSettingData: string): uint32 enum

DeleteGroup([IN] ReplicationGroup: ref CIM_ReplicationGroup,[IN] ServiceAccessPoint: ref CIM_ServiceAccessPoint,[IN] RemoveElements: boolean,[IN] ReplicationSettingData: string): uint32 enum

AddMembers([IN] Members: ref[] CIM_LogicalElement,[IN] ReplicationGroup: ref CIM_ReplicationGroup,[IN] ServiceAccessPoint: ref CIM_ServiceAccessPoint,[IN] ReplicationSettingData: string): uint32 enum

RemoveMembers([IN] Members: ref[] CIM_LogicalElement,[IN] DeleteOnEmptyElement: boolean,[IN] ReplicationGroup: ref CIM_ReplicationGroup,[IN] ReplicationSettingData: string): uint32 enum

CreateElementReplica([IN] ElementName: string,[IN] SyncType: string {enum},[IN] Mode: string {enum},[IN] SourceElement: ref CIM_LogicalElement,[IN] SourceAccessPoint: ref CIM_ServiceAccessPoint,[OUT,IN] TargetElement: ref CIM_LogicalElement,[IN] ReplicationSettingData: string,[OUT,IN] Synchronization: ref CIM_Synchronized,[IN] TargetSettingGoal: ref CIM_SettingData,[IN] TargetPool: ref CIM_ResourcePool,[IN] WaitForCopyState: uint16,[IN] ConnectivityCollection: ref CIM_ConnectivityCollection): uint32 enum

CreateGroupReplica([IN] RelationshipName: string,[IN] SyncType: uint16 {enum},[IN] Mode: uint16 {enum},[IN] SourceGroup: ref CIM_ReplicationGroup,[IN] SourceElement: ref CIM_LogicalElement,[IN] SourceAccessPoint: ref CIM_ServiceAccessPoint,[IN] TargetGroup: ref CIM_ReplicationGroup,[IN] TargetElementCount: uint64,[IN] TargetAccessPoint: ref CIM_ServiceAccessPoint,[IN] Consistency: uint16 {enum},[IN] ReplicationSettingData: string,[OUT] Job: ref CIM_ConcreteJob,[OUT] Synchronization: ref CIM_Synchronized,[IN] TargetSettingGoal: ref CIM_SettingData,[IN] TargetPool: ref CIM_ResourcePool,[IN] WaitForCopyState: uint16,[IN] ConnectivityCollection: ref CIM_ConnectivityCollection): uint32 enum

CreateSynchronizationAspect([IN] Name: string,[IN] SyncType: uint16 {enum},[IN] Mode: uint16 {enum},[IN] SourceGroup: ref CIM_ReplicationGroup,[IN] SourceElement: ref CIM_ManagedElement,[IN] SourceAccessPoint: ref CIM_ServiceAccessPoint,[IN] Consistency: uint16 {enum},[IN] ReplicationSettingData: string,[OUT] Job: ref CIM_ConcreteJob,[OUT] SettingsState: ref CIM_SettingsDefineState): uint32 enum

ModifyReplicaSynchronization([IN] Operation: uint16 {enum},[IN] Synchronization: ref CIM_Synchronized,[IN] ReplicationSettingData: string,[IN] SyncPair: ref[] CIM_StorageSynchronized,[IN] SyncPair: ref[] CIM_Synchronized,[OUT] Job: ref CIM_ConcreteJob,[OUT] SettingsState: ref CIM_SettingsDefineState[IN] Force: boolean,[IN] WaitForCopyState: uint16): uint32 enum

ModifyListSynchronization([IN] Operation: uint16 {enum},[IN] Synchronization: ref[] CIM_Synchronized,[IN] ReplicationSettingData: string,[OUT] Job: ref CIM_ConcreteJob,[OUT] SettingsState: ref CIM_SettingsDefineState,[IN] Force: boolean,[IN] WaitForCopyState: uint16): uint32 enum

ModifySettingsDefineState([IN] Operation: uint16 {enum},[IN] SettingsState: ref CIM_SettingsDefineState,[IN,OUT] TargetElement: ref CIM_LogicalElement,[IN,OUT] TargetGroup: ref CIM_ReplicationGroup,[IN] TargetElementCount: string,[IN] TargetAccessPoint: ref CIM_ServiceAccessPoint,[IN] Synchronization: ref[] CIM_Synchronized,[IN] ReplicationSettingData: string,[OUT] Job: ref CIM_ConcreteJob,[IN] TargetSettingGoal: ref CIM_SettingData,[IN] TargetPool: ref CIM_ResourcePool,[IN] WaitForCopyState: uint16): uint32 enum

GetAvailableTargetElements([IN] SourceElement: ref CIM_LogicalElement,[IN] SyncType: uint16 {enum},[IN] Mode: uint16,[IN] ReplicationSettingData: string,[IN] TargetAccessPoint: ref CIM_ServiceAccessPoint,[IN] TargetSettingGoal: ref[] CIM_SettingData,[IN] TargetPools: ref[] CIM_ResourcePool,[OUT] Job: ref CIM_ConcreteJob,[IN] Candidates: ref[] CIM_LogicalElement): uint32 enum

GetPeerSystems([IN] Options: uint16,[OUT] Job: ref CIM_ConcreteJob,[OUT] Systems: ref[] CIM_ComputerSystem): uint32 enum

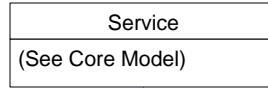
GetReplicationRelationships([IN] Type: uint16 (enum),[IN] SyncType: uint16 (enum),[IN] Mode: uint16 (enum),[IN] Locality: uint16 (enum),[IN] CopyState: uint16 (enum),[OUT] Job: ref CIM_ConcreteJob,[OUT] Synchronizations: ref[] CIM_Synchronized): uint32 enum

GetServiceAccessPoints([IN] System: ref CIM_ComputerSystem,[OUT] Job: ref CIM_ConcreteJob,[OUT] ComputerSystem: ref[] CIM_ServiceAccessPoint): uint32 enum

AddReplicationEntity([IN] ReplicationEntity: string,[IN] Persistent: boolean,[IN] InstanceNamespace: string,[OUT] ReplicationEntityPath: ref CIM_ReplicationEntity): uint32 enum

AddServiceAccessPoint([IN] ServiceAccessPoint: string,[IN] InstanceNamespace: string,[OUT] ServiceAccessPointPath: ref CIM_ServiceAccessPoint): uint32 enum

AddSharedSecret([IN] SharedSecret: string,[IN] ServiceAccessPoint: ref CIM_ServiceAccessPoint,[IN] InstanceNamespace: string,[OUT] SharedSecretPath: ref CIM_SharedSecret): uint32 enum



ReplicationService {E} (continued)

CreateListReplica([IN] ElementNames: string[],[IN] SyncType: uint16 {enum},[IN] Mode: uint16 {enum},[IN] SourceElements: ref[] CIM_LogicalElement,[IN] SourceAccessPoint: ref CIM_ServiceAccessPoint,[IN] TargetElements: ref[] CIM_LogicalElement,[IN] TargetAccessPoint: ref CIM_ServiceAccessPoint,[IN] ReplicationSettingData: string,[OUT] Job: ref CIM_ConcreteJob,[OUT] Synchronizations: ref[] CIM_Synchronized,[IN] TargetSettingGoal: ref CIM_SettingData,[IN] TargetPool: ref CIM_ResourcePool,[IN] WaitForCopyState: uint16,[IN] ConnectivityCollection: ref CIM_ConnectivityCollection,): uint32 enum

CreateGroupReplicaFromElements([IN] RelationshipName: string,[IN] SyncType: uint16 {enum},[IN] Mode: uint16 {enum},[IN] SourceElements: ref[] CIM_LogicalElement,[IN] SourceGroupName: string,[IN] SourceAccessPoint: ref CIM_ServiceAccessPoint,[IN,OUT] TargetGroup: ref CIM_ReplicationGroup,[IN] TargetAccessPoint: ref CIM_ServiceAccessPoint,[IN] Consistency: uint16 {enum},[IN] ReplicationSettingData: string,[OUT] Job: ref CIM_ConcreteJob,[OUT] Synchronization: ref CIM_Synchronized[IN] TargetSettingGoal: ref CIM_SettingData,[IN] TargetPool: ref CIM_ResourcePool,[IN] WaitForCopyState: uint16): uint32 enum

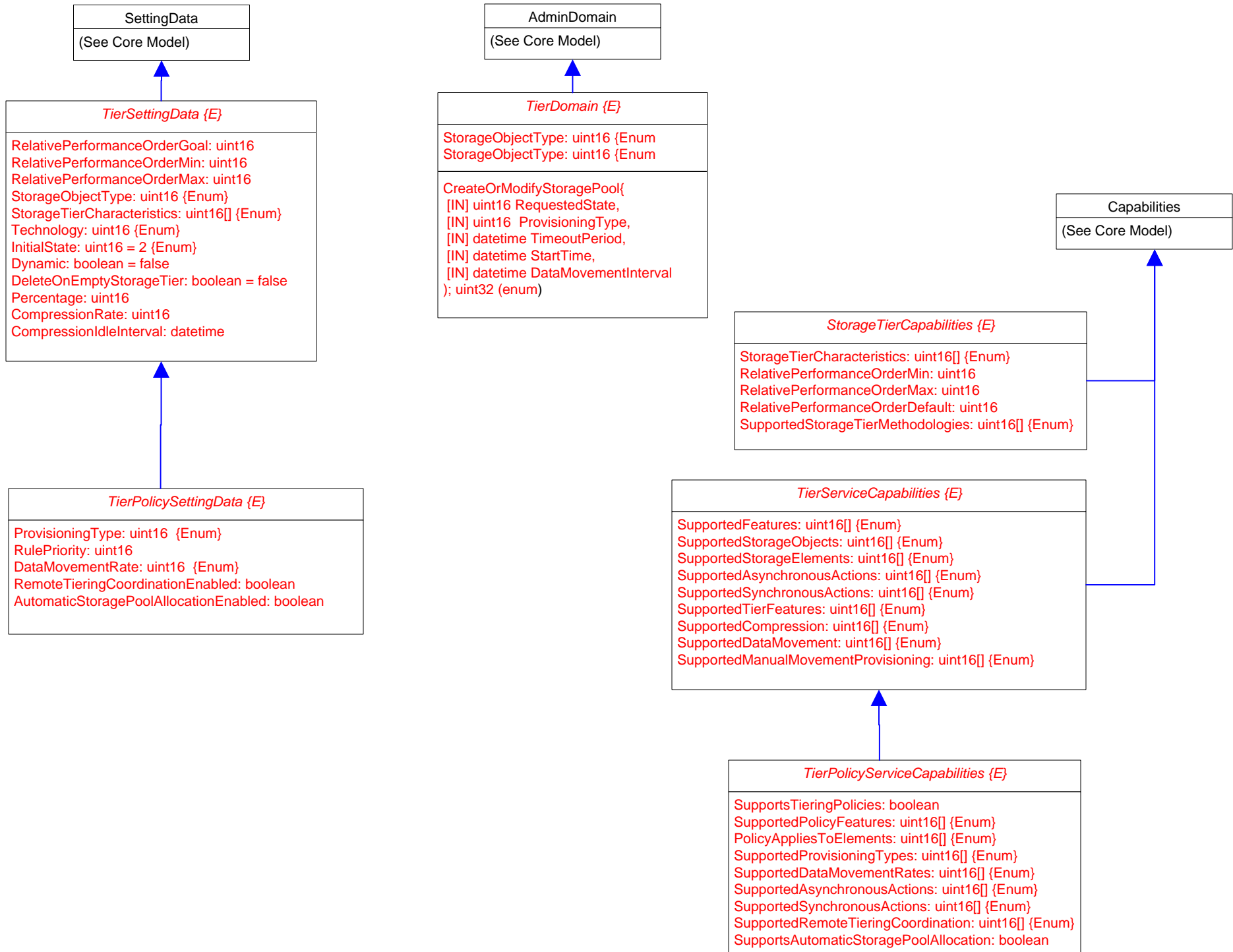
GetReplicationRelationshipInstances([IN] Type: uint16 {enum},[IN] SyncType: uint16 {enum},[IN] Mode: uint16 {enum},[IN] Locality: uint16 {enum},[IN] CopyState: uint16,[OUT] Job: ref CIM_ConcreteJob,[OUT] Synchronization: ref CIM_Synchronized[IN] TargetSettingGoal: ref CIM_SettingData,[IN] TargetPool: ref CIM_ResourcePool,[IN] Synchronizations: string[]): uint32 enum

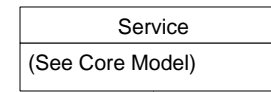
ModifyListSettingsDefineState([IN] Operation: uint16 {enum},[IN] SettingsState: ref CIM_SettingsDefineState,[IN] TargetElements: ref[] CIM_LogicalElement,[IN,OUT] TargetGroup: ref CIM_ReplicationGroup,[IN] TargetElementCount: uint64,[IN] TargetAccessPoint: ref CIM_ServiceAccessPoint,[IN,OUT] Synchronization: ref[] CIM_Synchronized[IN] ReplicationSettingData: string,[OUT] Job: ref CIM_ConcreteJob,[IN] TargetSettingGoal: ref CIM_SettingData,[IN] TargetPool: ref CIM_ResourcePool,[IN] WaitForCopyState: uint16): uint32 enum

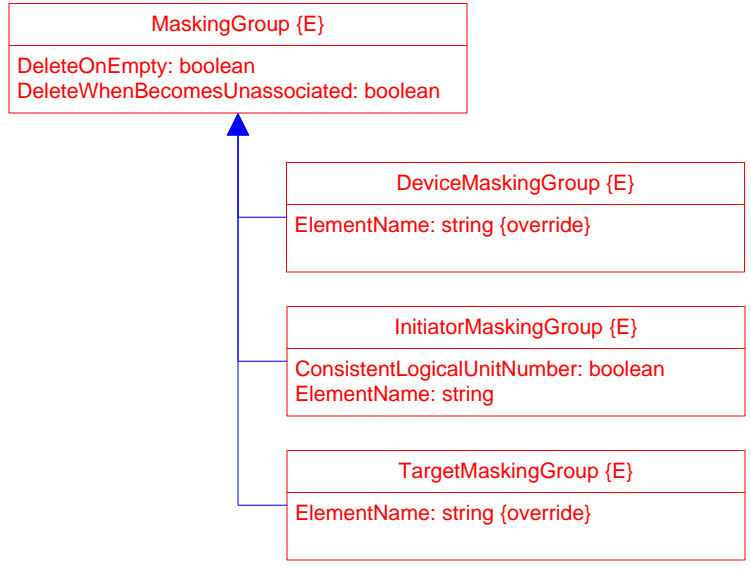
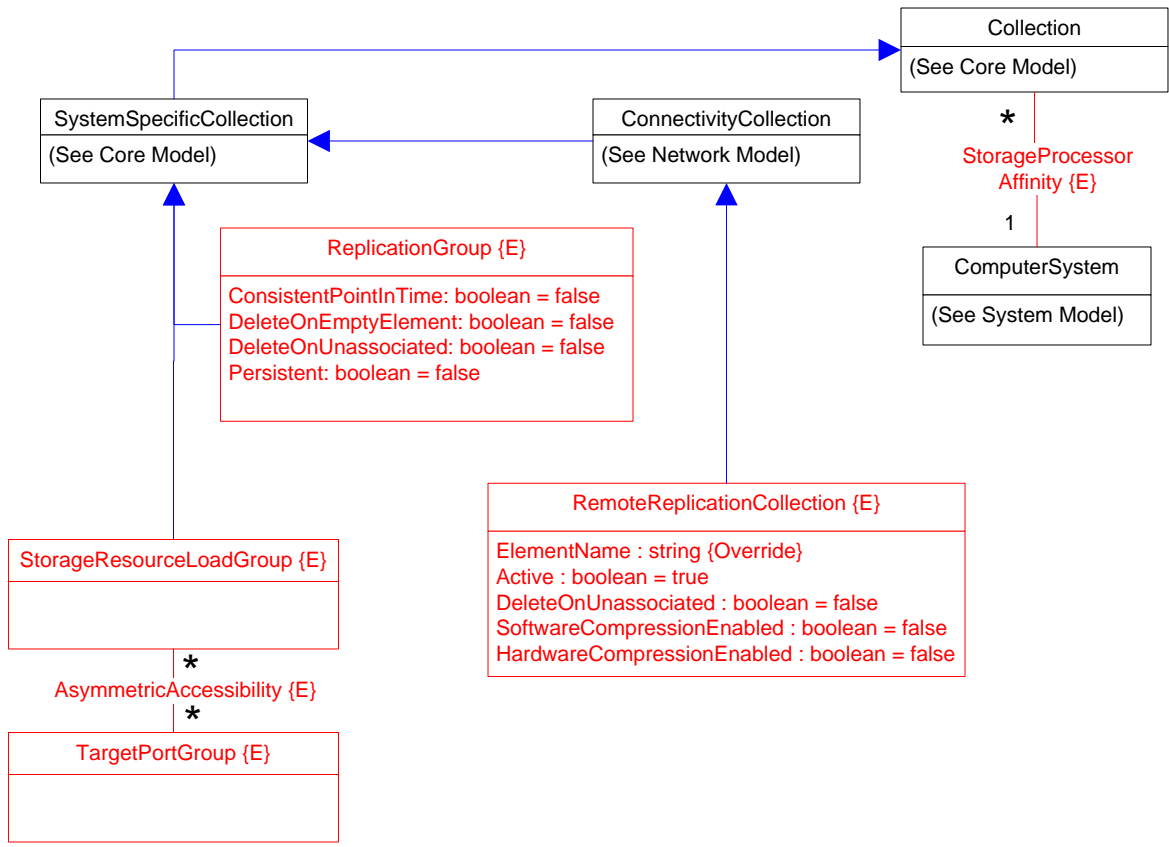
AddToRemoteReplicationCollection([IN] LocalAccessPoints: ref[] CIM_ServiceAccessPoint,[IN] RemoteAccessPoints: ref CIM_ServiceAccessPoint[IN] RemoteComputerSystem: ref CIM_ComputerSystem,[OUT] Job: ref CIM_ConcreteJob,[IN] ConnectivityCollection: ref CIM_ConnectivityCollection): uint32 enum

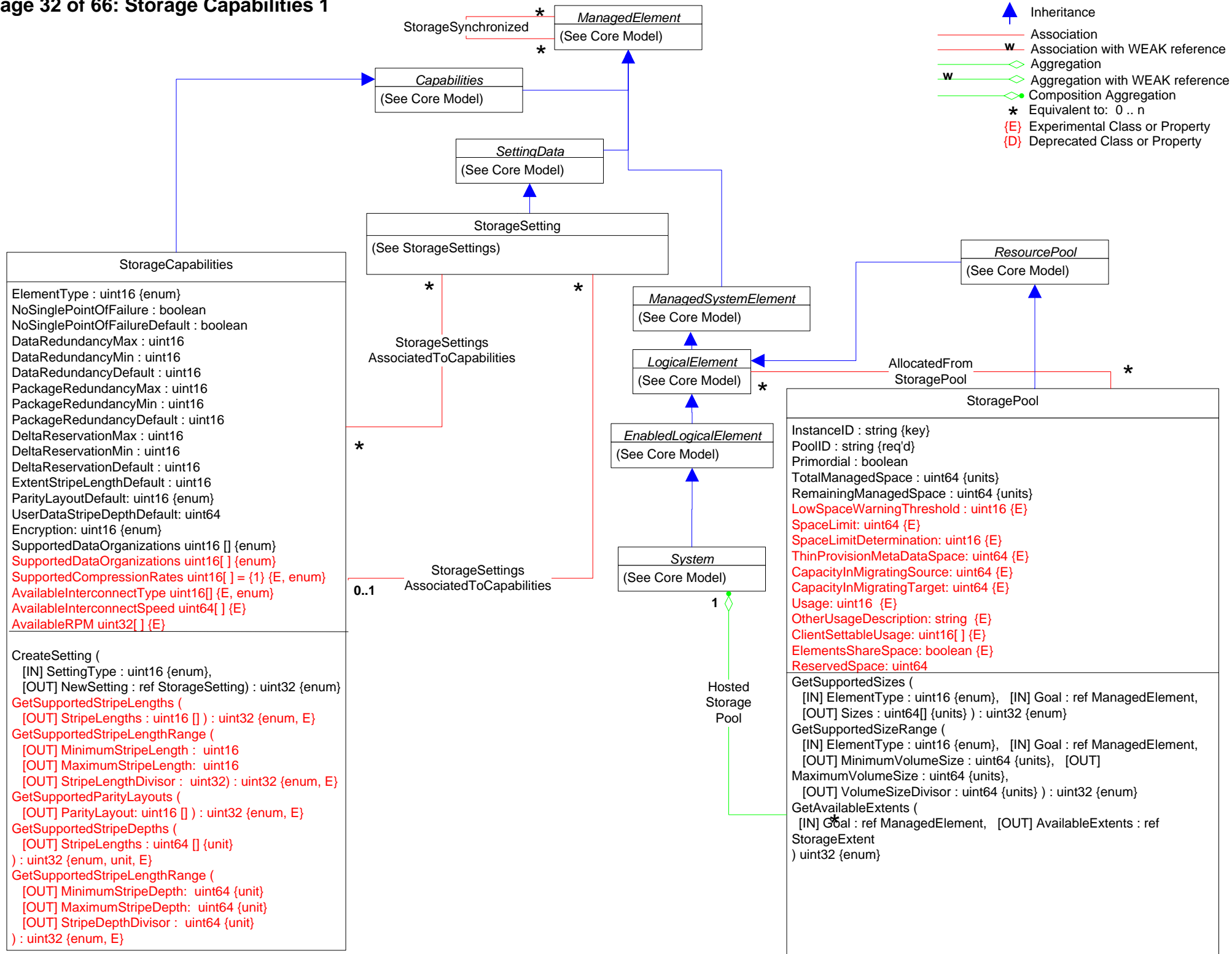
CreateRemoteReplicationCollection([IN] ElementName: string,[IN] LocalAccessPoints: ref CIM_ServiceAccessPoint,[IN] RemoteAccessPoints: ref CIM_ServiceAccessPoint,[IN] RemoteComputerSystem: ref CIM_ComputerSystem,[IN] Active: boolean,[IN] DeleteOnUnassociated: boolean,[OUT] Job: ref CIM_ConcreteJob,[IN] ConnectivityCollection: ref CIM_ConnectivityCollection,[IN] ReplicationSettingData: string): uint32 enum

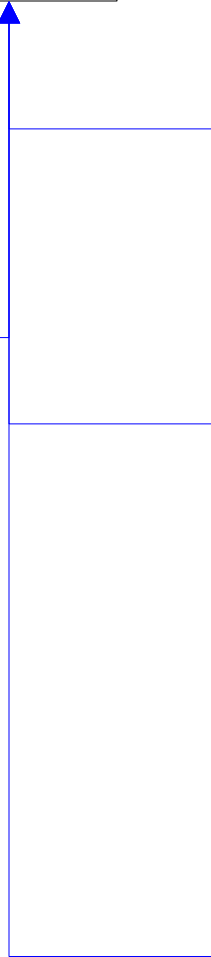
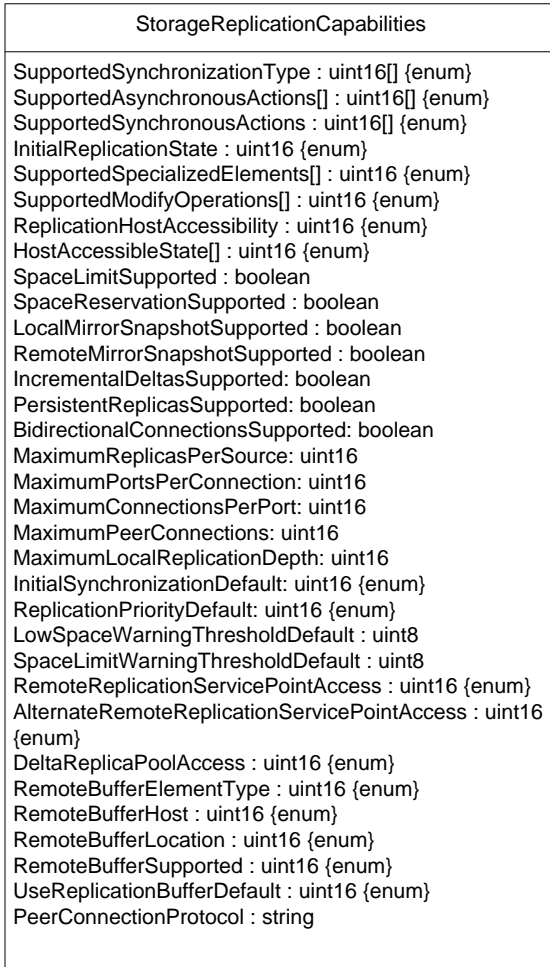
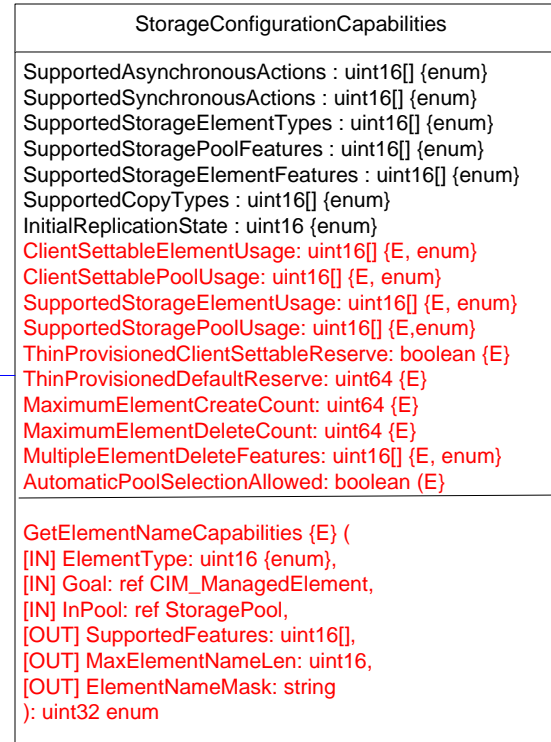
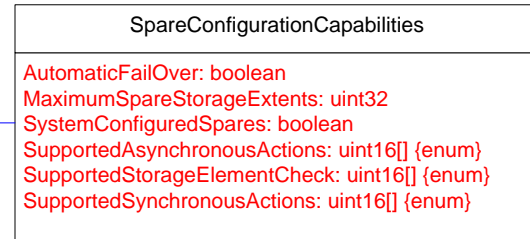
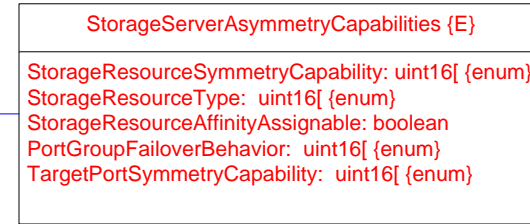
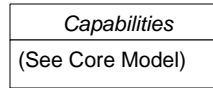
RemoveFromRemoteReplicationCollection([IN] LocalAccessPoints: ref CIM_ServiceAccessPoint,[IN] RemoteAccessPoints: ref CIM_ServiceAccessPoint,[IN] RemoteComputerSystem: ref CIM_ComputerSystem,[OUT] Job: ref CIM_ConcreteJob,[IN] ConnectivityCollection: ref CIM_ConnectivityCollection): uint32 enum

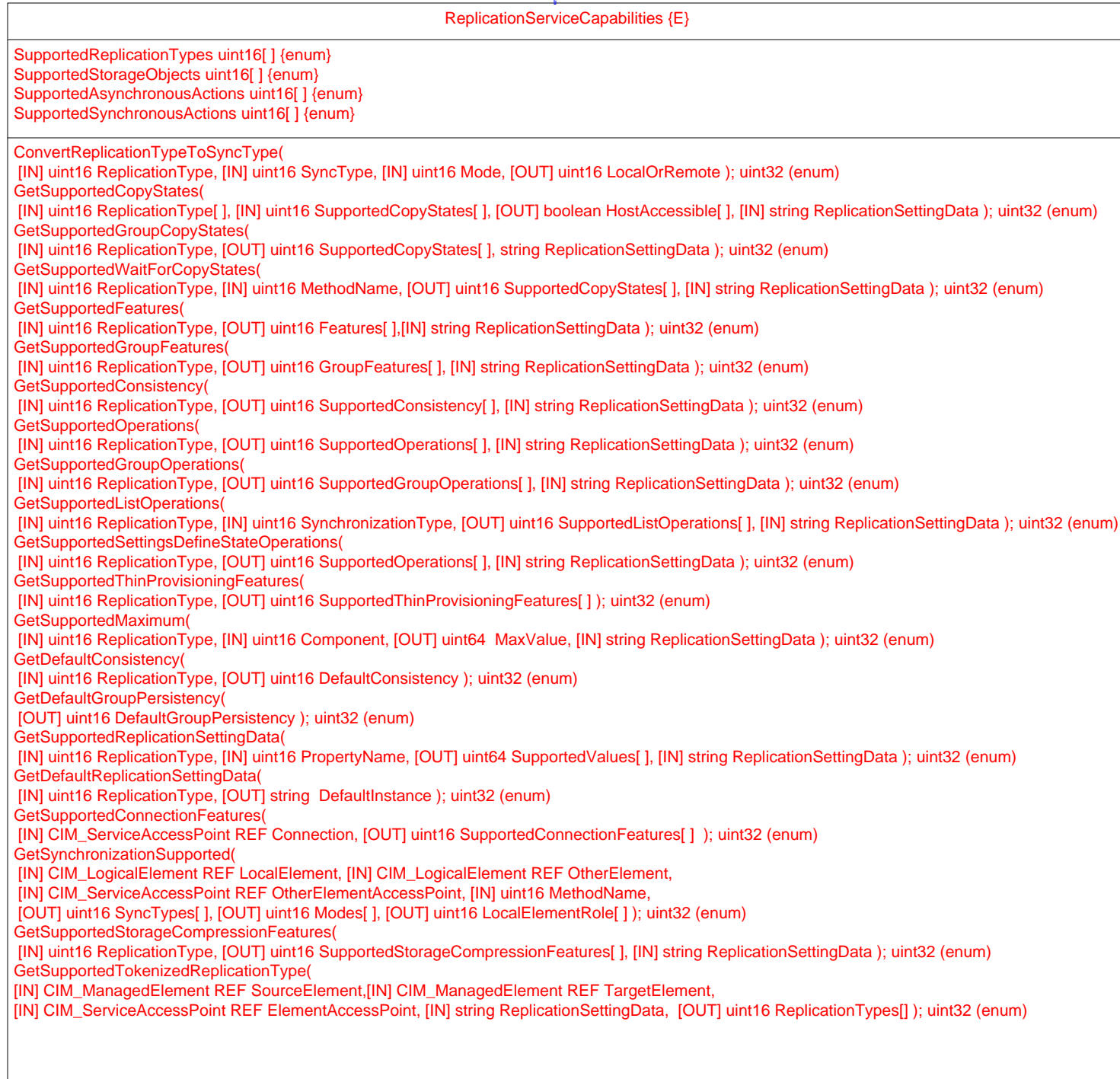
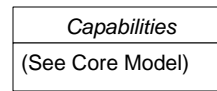


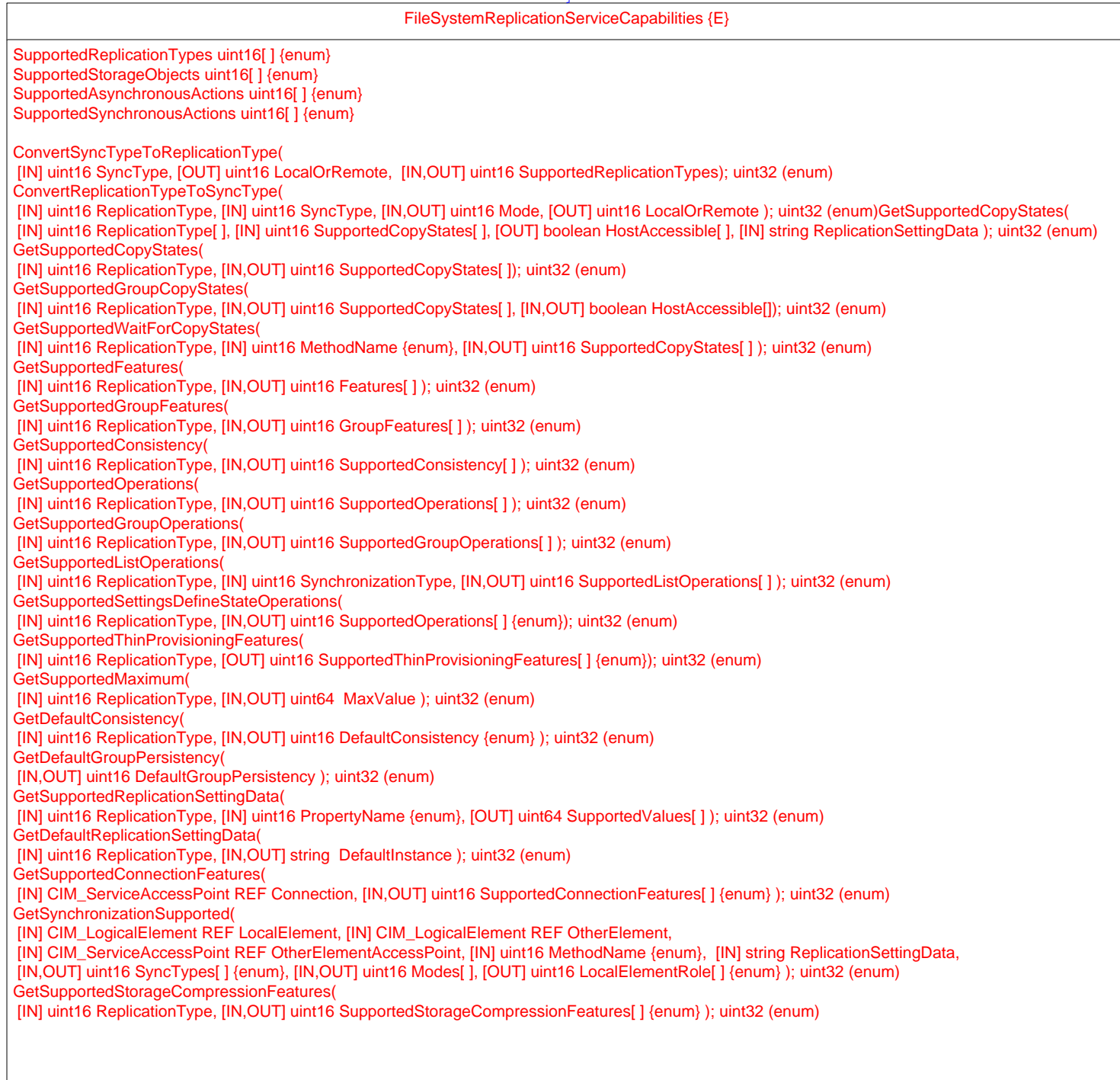
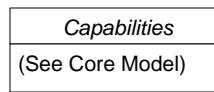


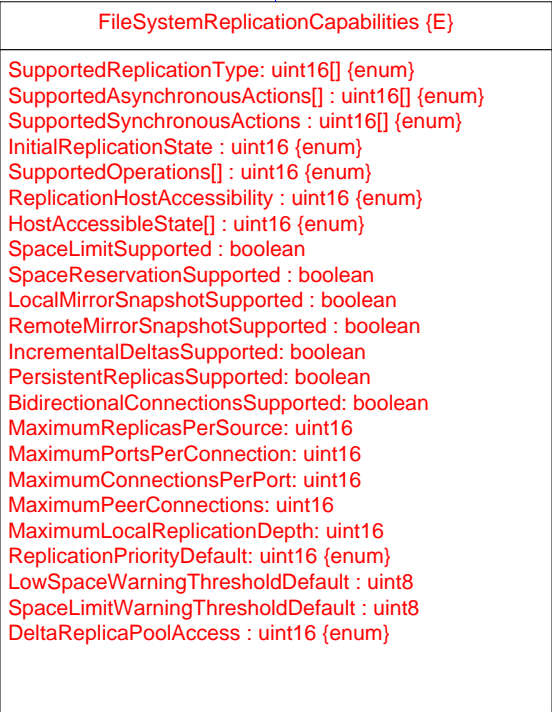
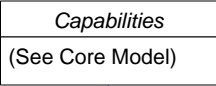


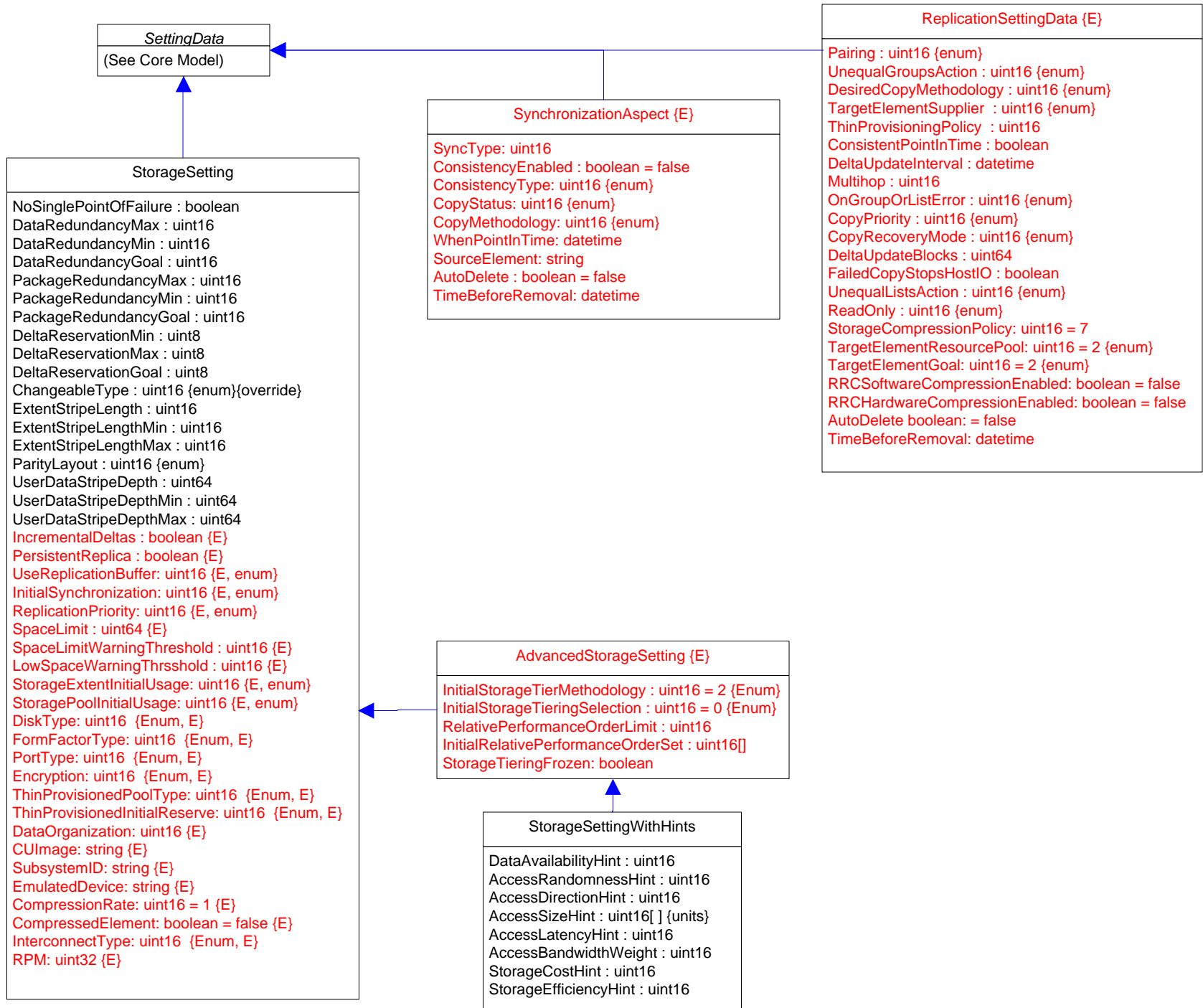












- ▲ Inheritance
- Association
- w Association with WEAK reference
- ◇ Aggregation
- w◇ Aggregation with WEAK reference
- ◇ Composition Aggregation
- * Equivalent to: 0..n
- {E} Experimental Class or Property
- {D} Deprecated Class or Property

ManagedElement
(See Core Model)

Collection
(See Core Model)

SystemSpecificCollection
(See Core Model)

StatisticsCollection {E}
(See Core Model)

BlockStatisticsManifestCollection
IsDefault : boolean

StatisticalData
See core model)

QueryStatisticsCollection {E}

Query : string
 QueryLanguage : uint16 {enum}
 SelectEncoding : uint16 {enum}
 SelectedNames : string
 SelectedTypes : string
 SelectedValues : string
 SelectedRateNames : string
 SelectedRateTypes : string
 SelectedRateValues : string

BlockStorageStatisticalData

ElementType : uint16
 TotalIOs : uint64 {counter}
 KBytesTransferred : uint64 {counter, unit}
 KBytesWritten : uint64 {counter, unit}
 IOTimeCounter : uint64 {counter}
 ReadIOs : uint64 {counter}
 ReadHitIOs : uint64 {counter}
 ReadIOTimeCounter : uint64 {counter}
 ReadHitIOTimeCounter : uint64 {counter}
 KBytesRead : uint64 {counter, unit}
 WriteIOs : uint64 {counter}
 WriteHitIOs : uint64 {counter}
 WriteIOTimeCounter : uint64 {counter}
 WriteHitIOTimeCounter : uint64 {counter}
 IdleTimeCounter : uint64 {counter}
 MaintOp : uint64 {counter}
 MaintTimeCounter : uint64 {counter}
 RateElementType : uint16 {enum, E}
 TotalIOsRate : real32 {E}
 KBytesTransferredRate : real32 {E}
 KBytesWrittenRate : real32 {E}
 ReadIOsRate : real32 {E}
 ReadHitIOsRate : real32 {E}
 KBytesReadRate : real32 {E}
 WriteIOsRate : real32 {E}
 WriteHitIOsRate : real32 {E}
 MaintOpRate : real32 {E}

BlockStatisticsManifest

InstanceID : string
 ElementType : uint16 {enum}
 IncludeStartStatisticTime : boolean {enum}
 IncludeStatisticsTime : boolean
 IncludeTotalIOs : boolean
 IncludeKBytesTransferred : boolean
 IncludeIOTimeCounter : boolean
 IncludeReadIOs : boolean
 IncludeReadHitIOs : boolean
 IncludeReadIOTimeCounter : boolean
 IncludeReadHitIOTimeCounter : boolean
 IncludeWriteIOs : boolean
 IncludeWriteHitIOs : boolean
 IncludeWriteHitIOTimeCounter : boolean
 IncludeKBytesWritten : boolean
 IncludeIdleTimeCounter : boolean
 IncludeMaintOp : boolean
 IncludeMaintTimeCounter : boolean
 IncludeKBytesRead : boolean
 IncludeStartStatisticTime : boolean
 InstanceID : string {key}
 IncludeWriteIOTimeCounter : boolean
 CSVSequence[] : string {E}
 RateElementType : uint16 {enum, E}
 CSVRateSequence : string[] {E}
 IncludeRateIntervalStartTime : boolean {E}
 IncludeRateIntervalEndTime : boolean {E}
 IncludeKBytesTransferredRate : boolean {E}
 IncludeReadIOsRate : boolean {E}
 IncludeReadHitIOsRate : boolean {E}
 IncludeKBytesReadRate : boolean {E}
 IncludeWriteHitIOsRate : boolean {E}
 IncludeKBytesWrittenRate : boolean {E}
 IncludeMaintOpRate : boolean {E}

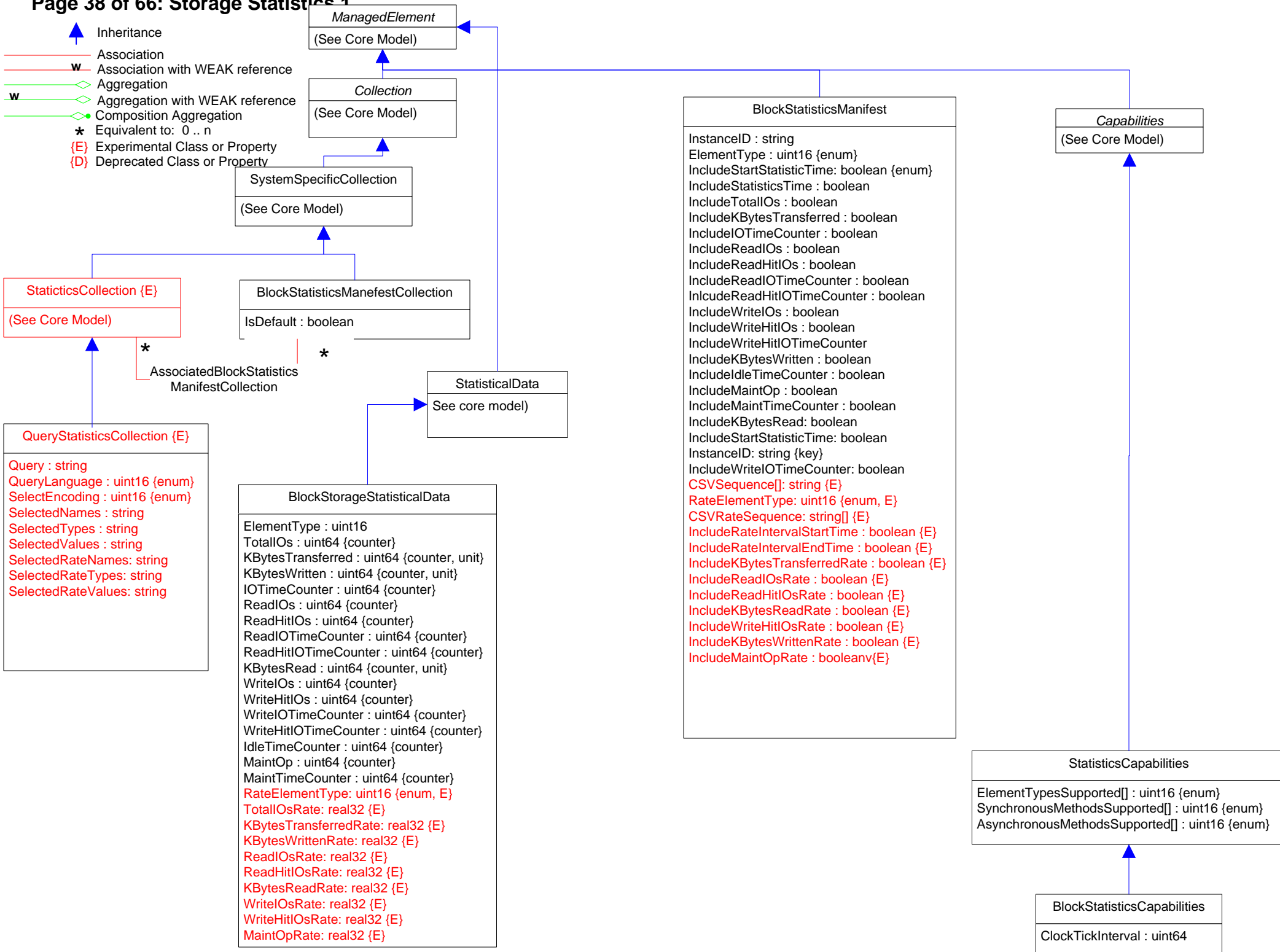
Capabilities
(See Core Model)

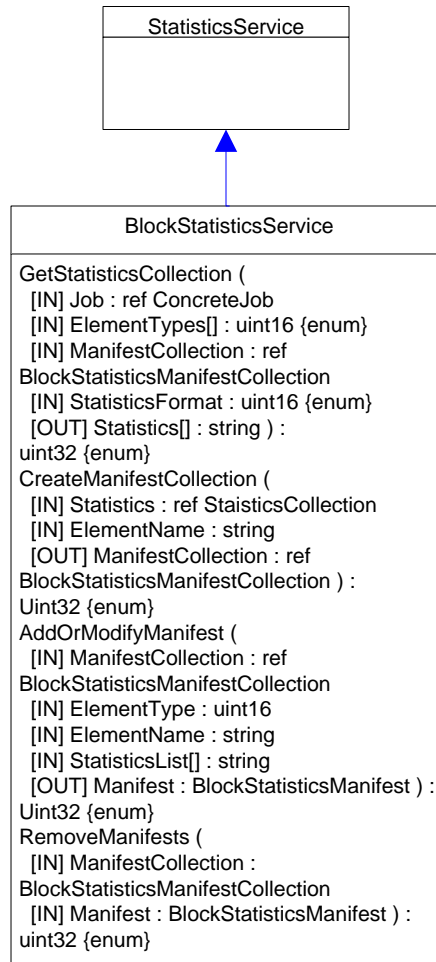
StatisticsCapabilities

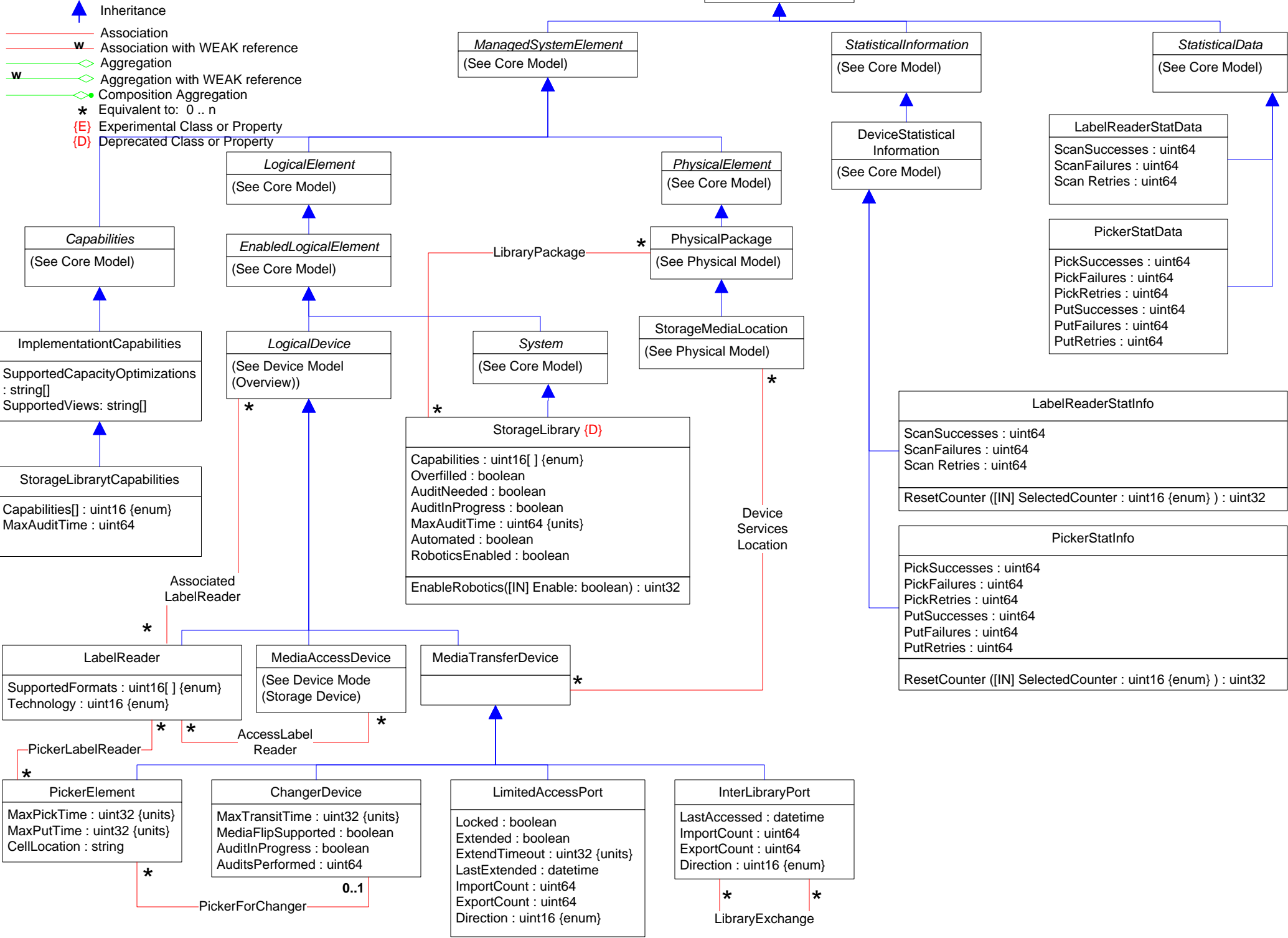
ElementTypesSupported[] : uint16 {enum}
 SynchronousMethodsSupported[] : uint16 {enum}
 AsynchronousMethodsSupported[] : uint16 {enum}

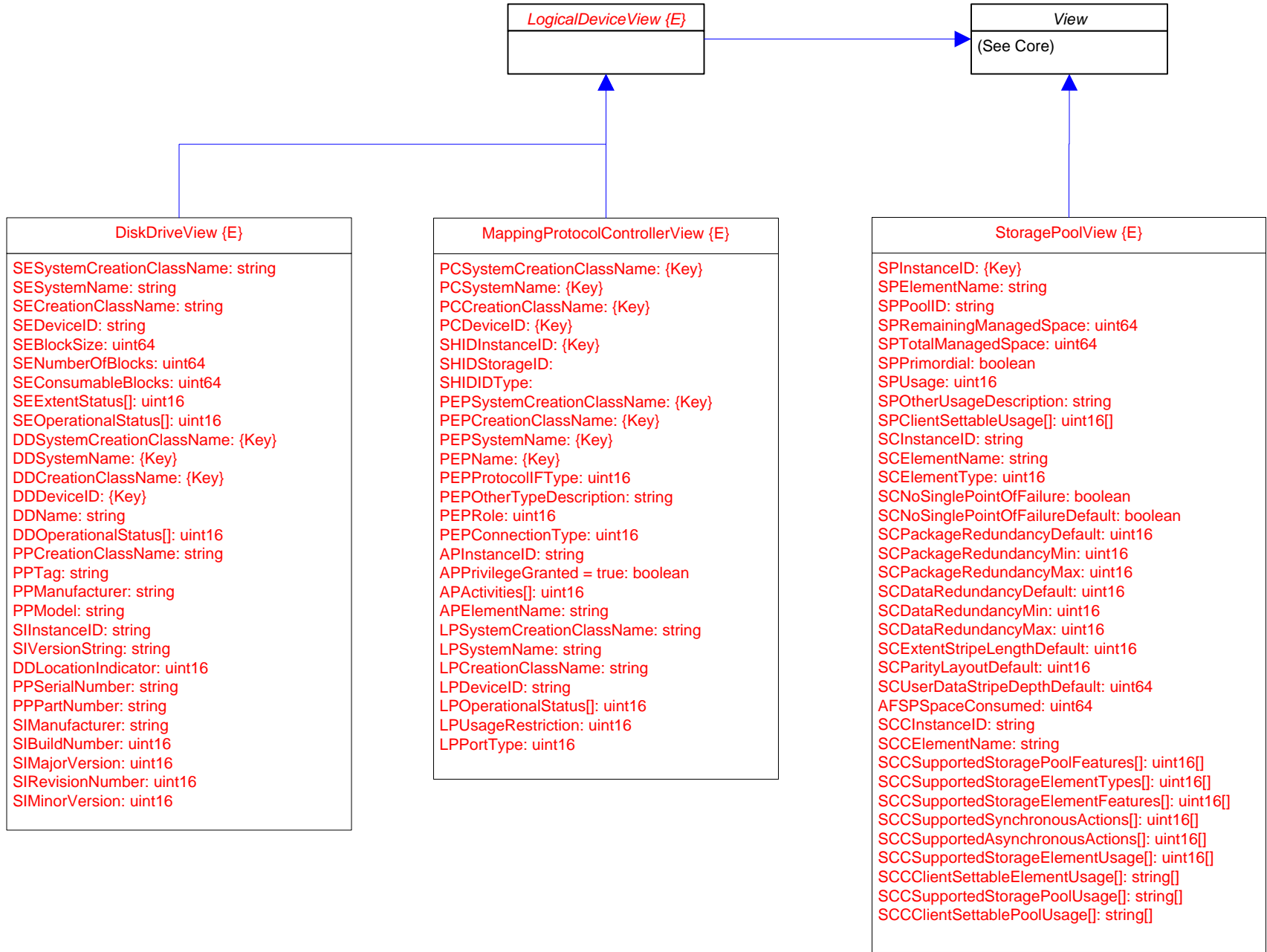
BlockStatisticsCapabilities

ClockTickInterval : uint64

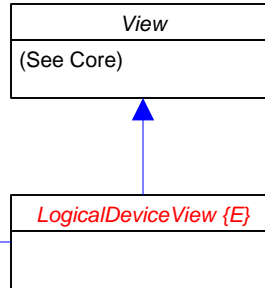




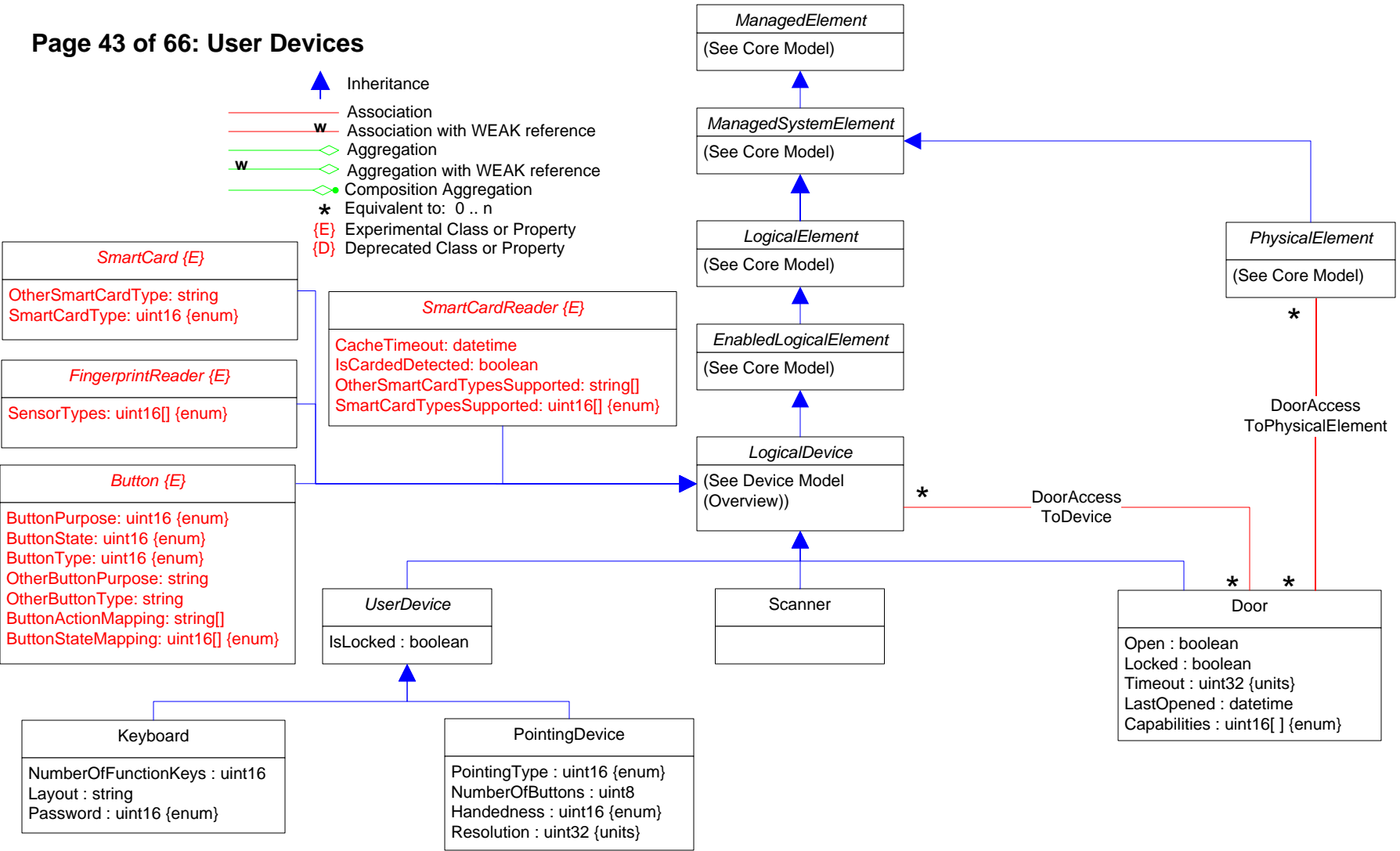
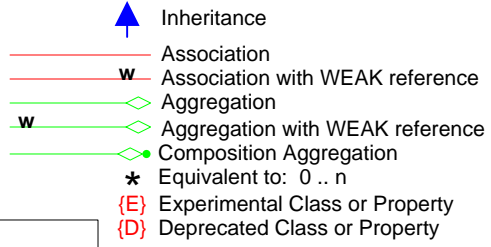











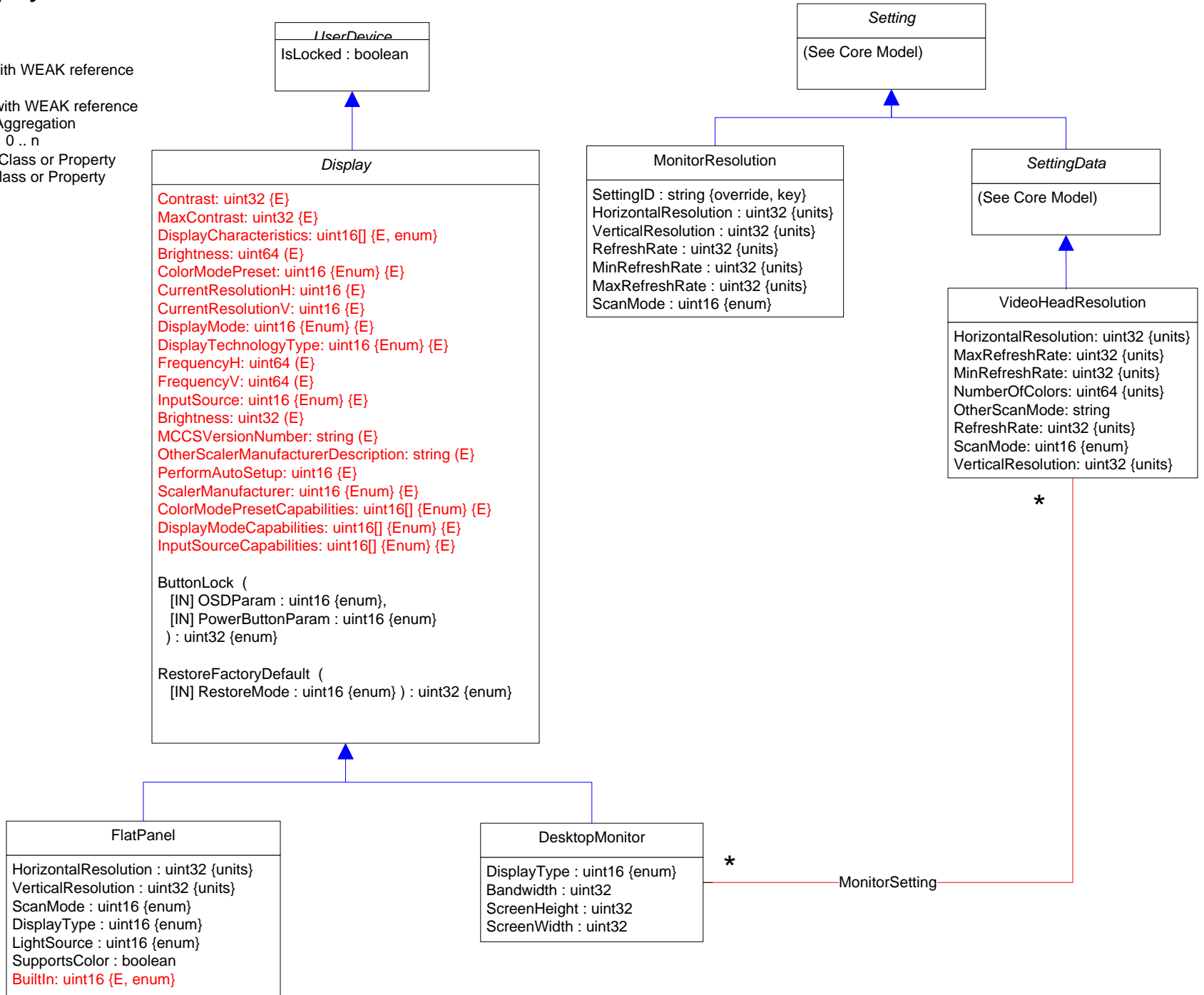
VolumeView {E}
SVSystemCreationClassName: {Key}
SVSystemName: {Key}
SVCreationClassName: {Key}
SVDeviceID: {Key}
SVName: string
SVNameFormat: uint16
SVNameNamespace: uint16
SVExtentStatus[]: uint16
SVOperationalStatus[]: uint16
SVBlockSize: uint64
SVNumberOfBlocks: uint64
SVConsumableBlocks: uint64
SVIsBasedOnUnderlyingRedundancy: boolean
SVNoSinglePointOfFailure: boolean
SVDataRedundancy: uint16
SVPackageRedundancy: uint8
SVDeltaReservation: uint8
SVUsage: uint16
SVOtherUsageDescription: string
SVClientSettableUsage[]: uint16
SSInstanceID: string
SSElementName: string
SSNoSinglePointOfFailure: boolean
SSDataRedundancyMin: uint16
SSDataRedundancyMax: uint16
SSDataRedundancyGoal: uint16
SSPackageRedundancyMin: uint16
SSPackageRedundancyMax: uint16
SSPackageRedundancyGoal: uint16
SSChangeableType: uint16
AFSPSpaceConsumed: uint64
SPInstanceID: {Key}
SPPoolID: string
SVOtherIdentifyingInfo[]: string
SVIdentifyingDescriptions[]: string
SVElementName: string
SVPrimordial: boolean
SVExtentDiscriminator[]: string
SSExtentStripeLength: uint16
SSExtentStripeLengthMin: uint16
SSExtentStripeLengthMax: uint16
SSParityLayout: uint16
SSUserDataStripeDepth: uint64
SSUserDataStripeDepthMin: uint64
SSUserDataStripeDepthMax: uint64
SSStoragePoolInitialUsage: uint16
SSStorageExtentInitialUsage: uint16
SVIsComposite: boolean



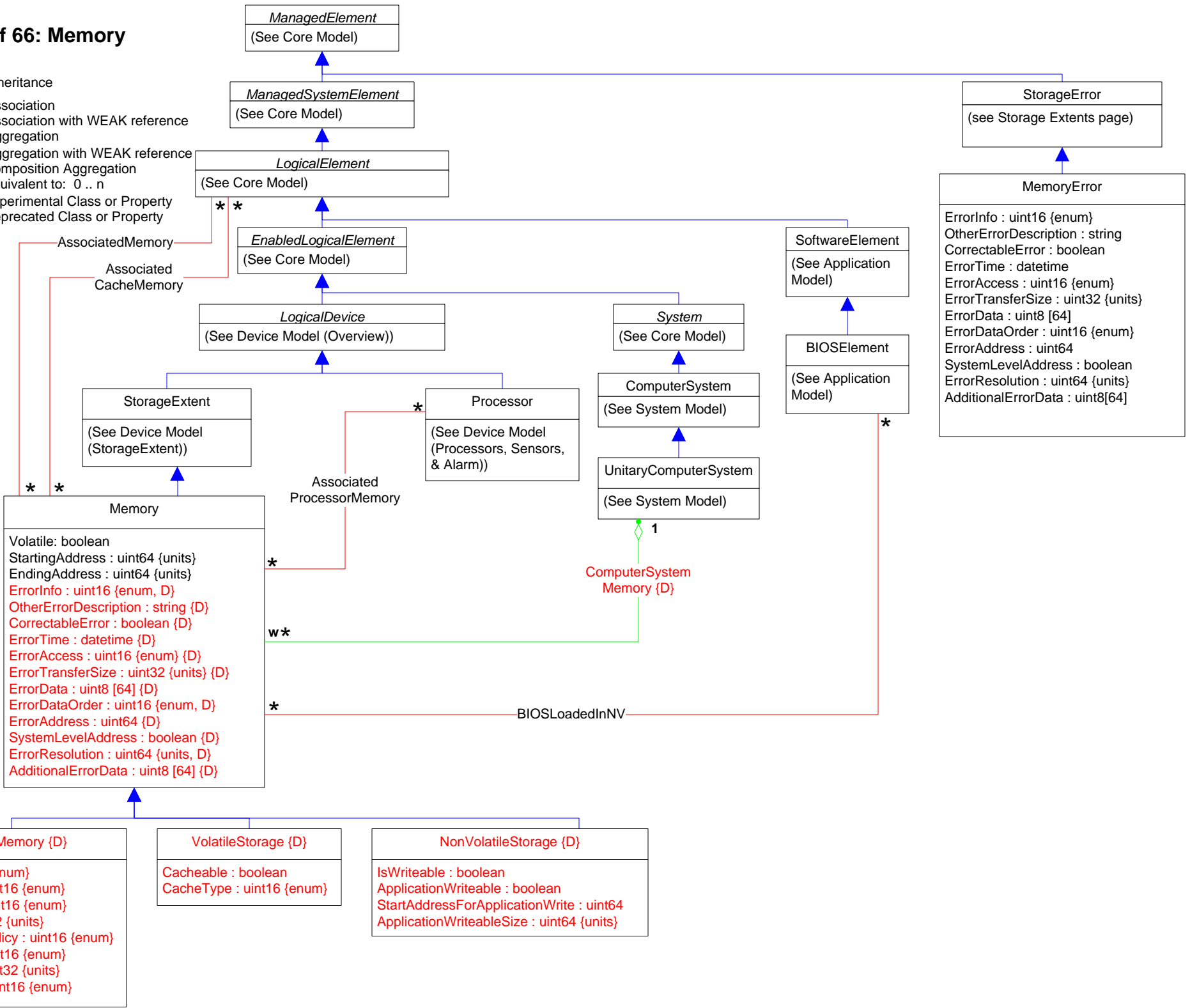
ReplicaPairView {E}
SVSourceSystemCreationClassName: string
SVSourceSystemName: string
SVSourceCreationClassName: string
SVSourceDeviceID: string
SVSourceName: string
SVSourceNameFormat: uint16
SVSourceNameNamespace: uint16
SVSourceExtentStatus: uint16[]
SVSourceOperationalStatus: uint16[]
SVSourceBlockSize: uint64
SVSourceNumberOfBlocks: uint64
SVSourceConsumableBlocks: uint64
SVSourcePrimordial: boolean
SVSourceIsBasedOnUnderlyingRedundancy: boolean
SVSourceNoSinglePointOfFailure: boolean
SVSourceDataRedundancy: uint16
SVSourcePackageRedundancy: uint16
SVSourceDeltaReservation: uint8
SVSourceExtentDiscriminator: string[]
SVSourceOtherIdentifyingInfo: string[]
SVSourceIdentifyingDescriptions: string[]
SVSourceElementName: string
SVSourceUsage: uint16
SVSourceOtherUsageDescription: string
SVSourceClientSettableUsage: uint16[]
SSWhenSynced: datetime
SSSyncMaintained: boolean
SSCopyType: uint16
SSSyncState: uint16
SSCopyPriority: uint16
SSSyncType: uint16
SSMode: uint16
SSProgressStatus:
SVTargetSystemCreationClassName: {Key}
SVTargetSystemName: {Key}
SVTargetCreationClassName: {Key}
SVTargetDeviceID: {Key}
SVTargetName: string
SVTargetNameFormat: uint16
SVTargetNameNamespace: uint16
SVTargetExtentStatus: uint16
SVTargetOperationalStatus: uint16[]
SVTargetBlockSize: uint64
SVTargetNumberOfBlocks: uint64
SVTargetConsumableBlocks: uint64
SVTargetPrimordial: boolean
SVTargetIsBasedOnUnderlyingRedundancy: boolean
SVTargetNoSinglePointOfFailure: boolean
SVTargetDataRedundancy: uint16
SVTargetPackageRedundancy: uint16
SVTargetDeltaReservation: uint8
SVTargetExtentDiscriminator: string
SVTargetOtherIdentifyingInfo: string
SVTargetIdentifyingDescriptions: string[]
SVTargetElementName: string
SVTargetUsage: uint16
SVTargetOtherUsageDescription: string
SVTargetClientSettableUsage: uint16[]












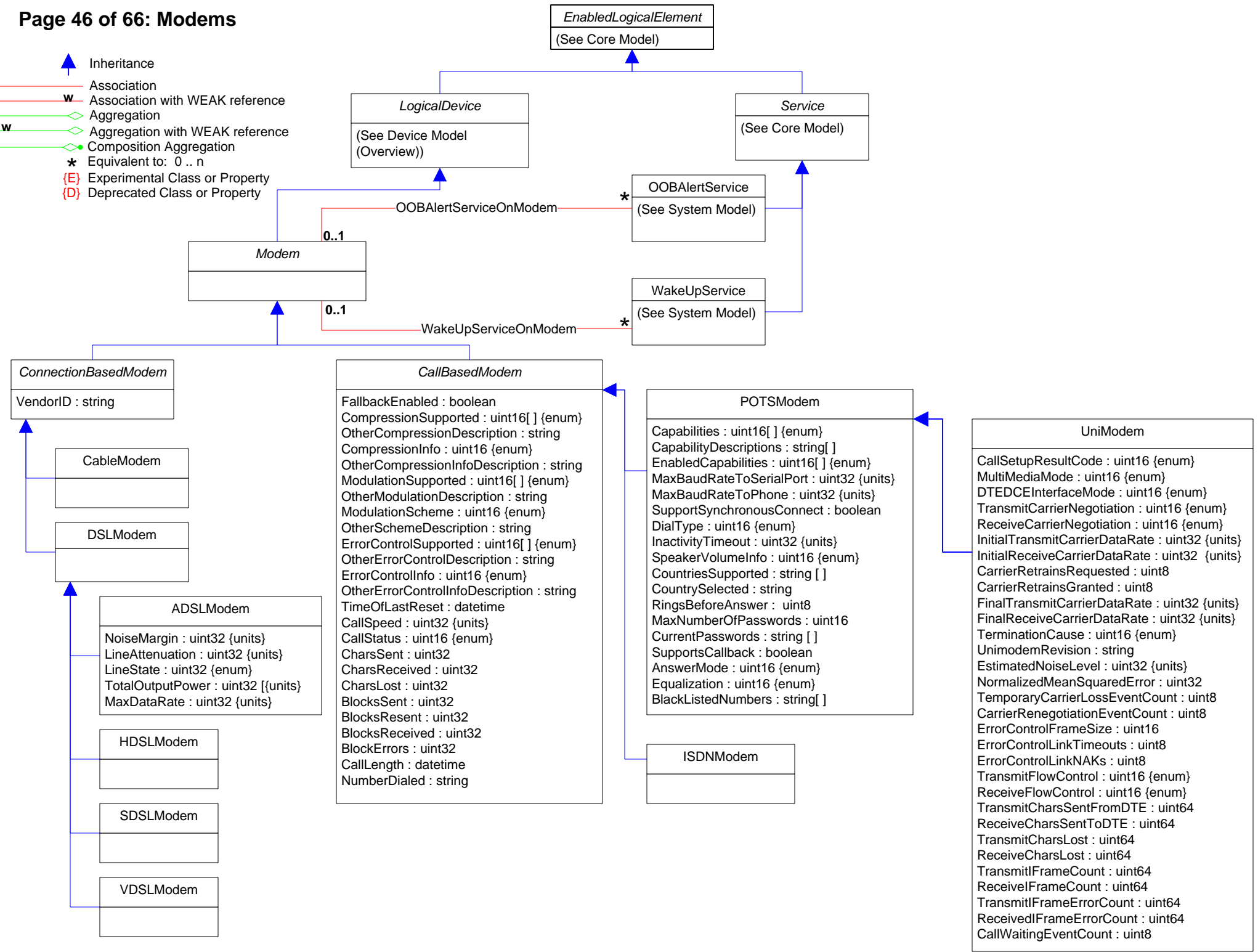
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n
- {E} Experimental Class or Property
- {D} Deprecated Class or Property

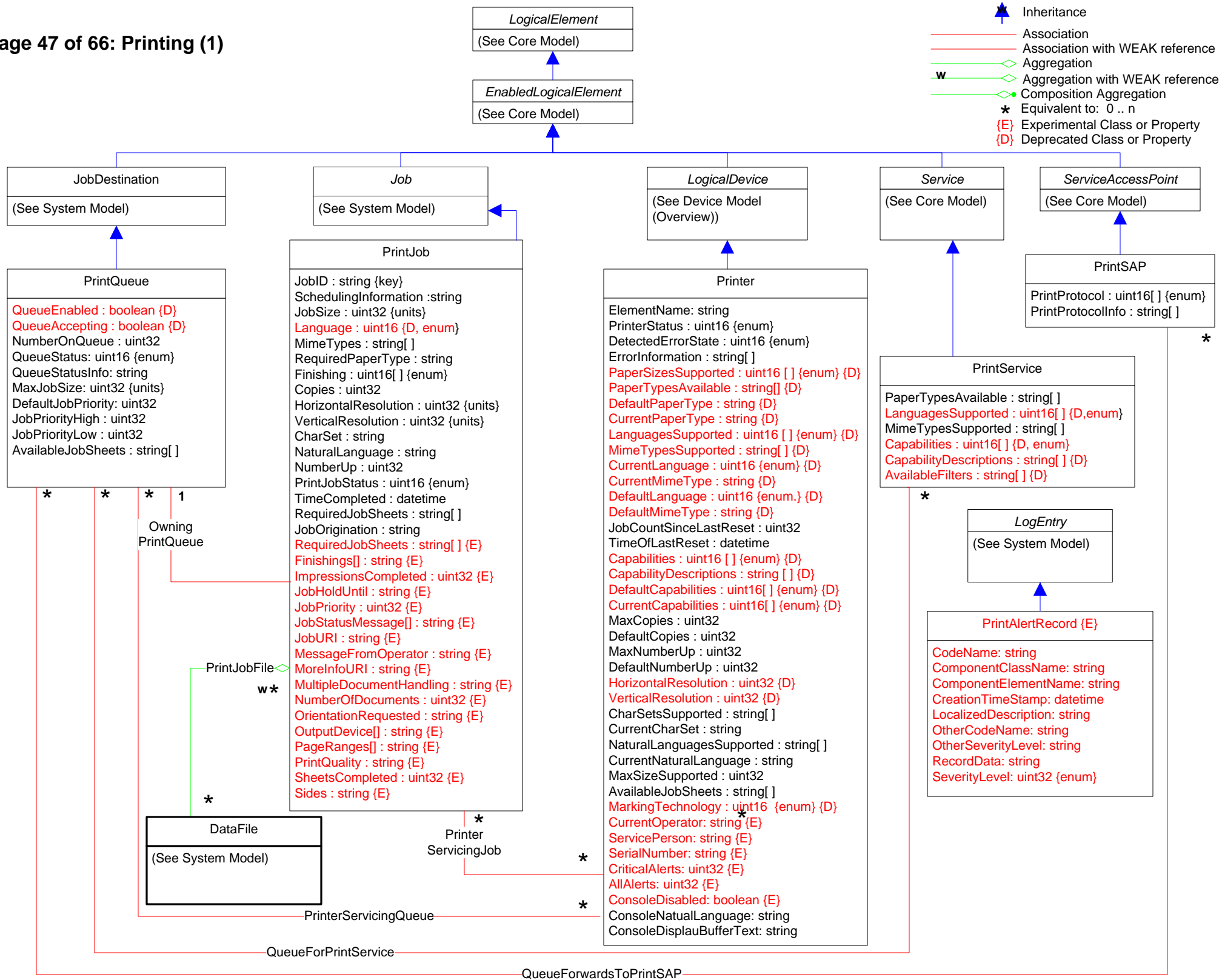


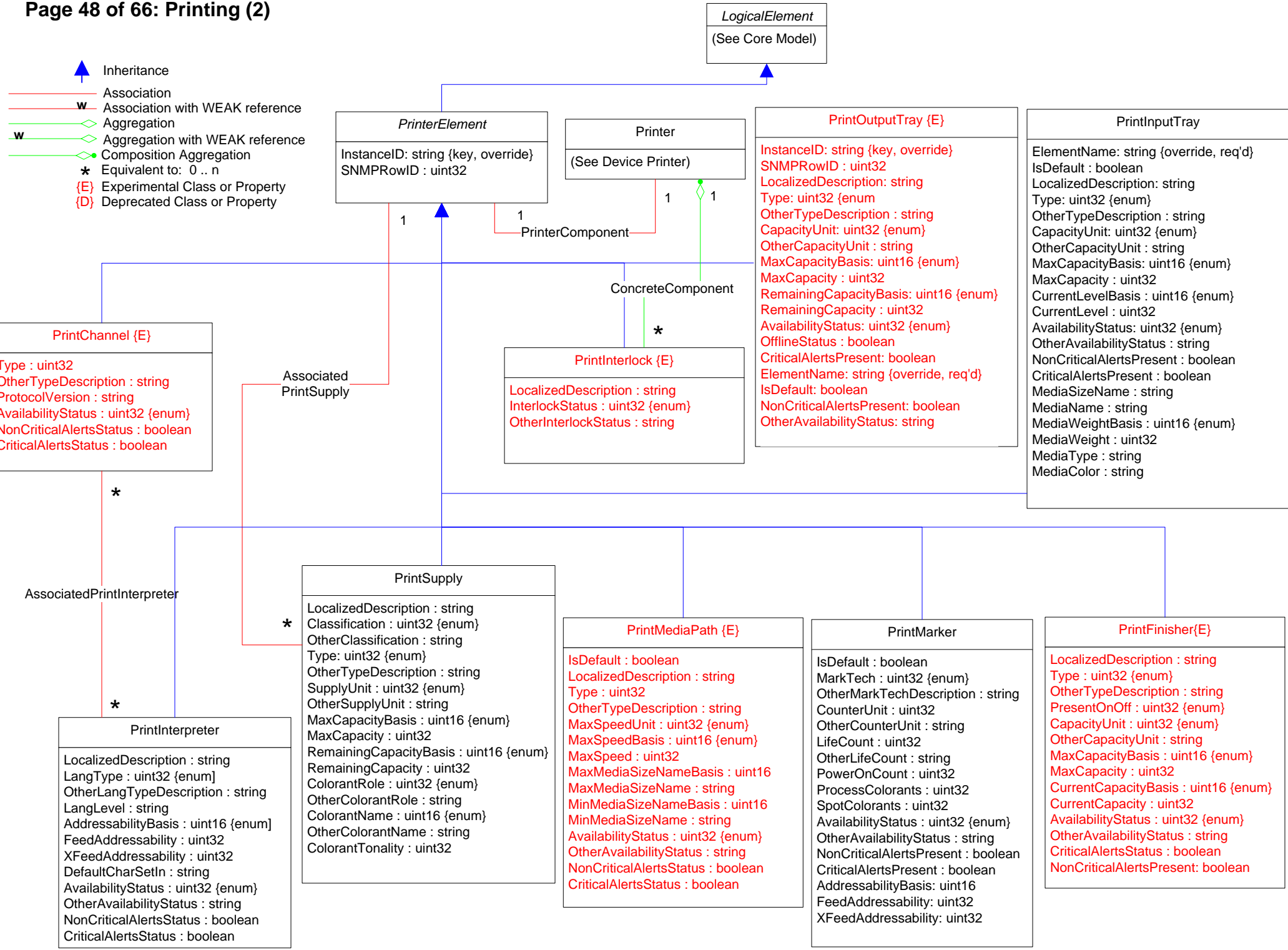
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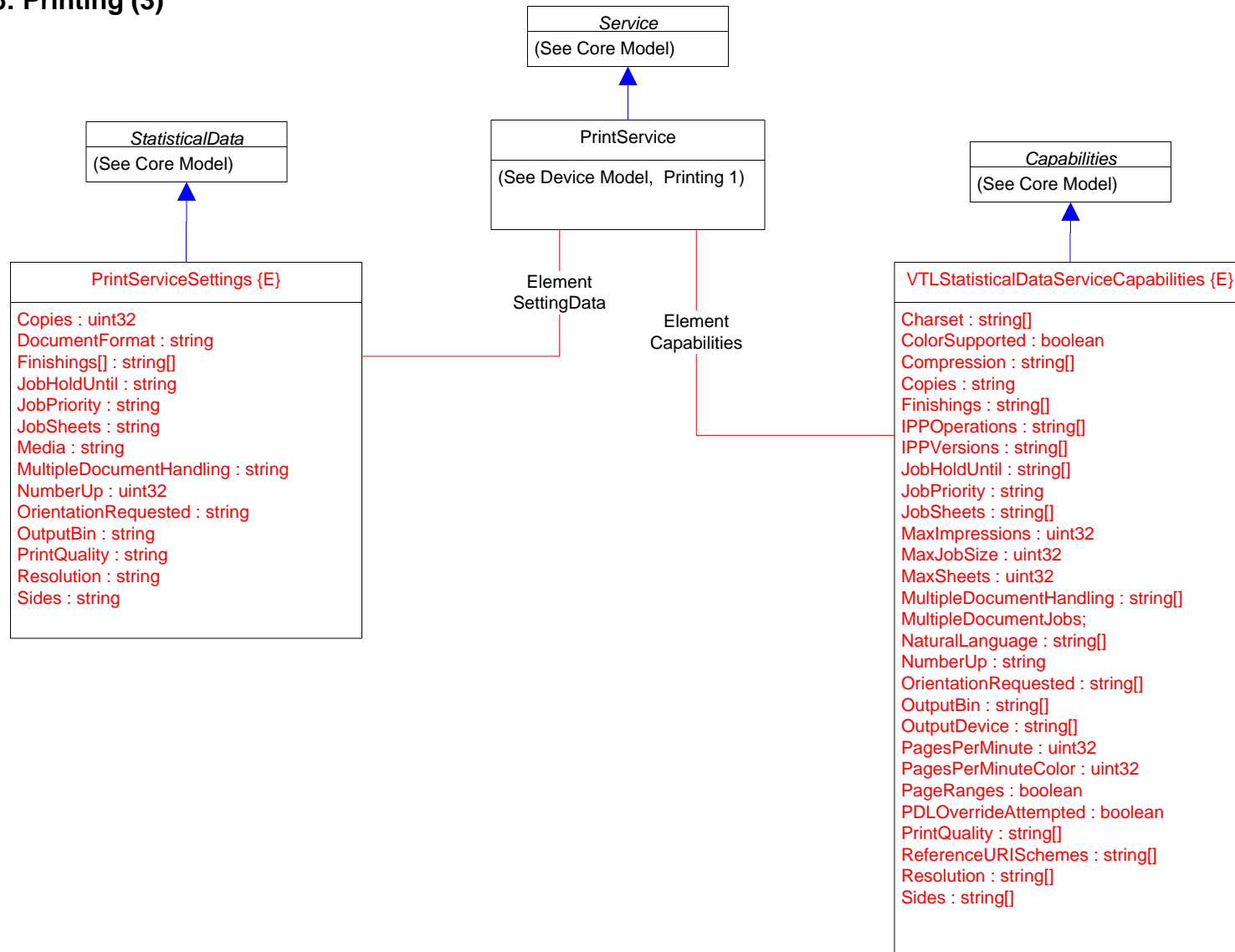







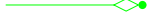



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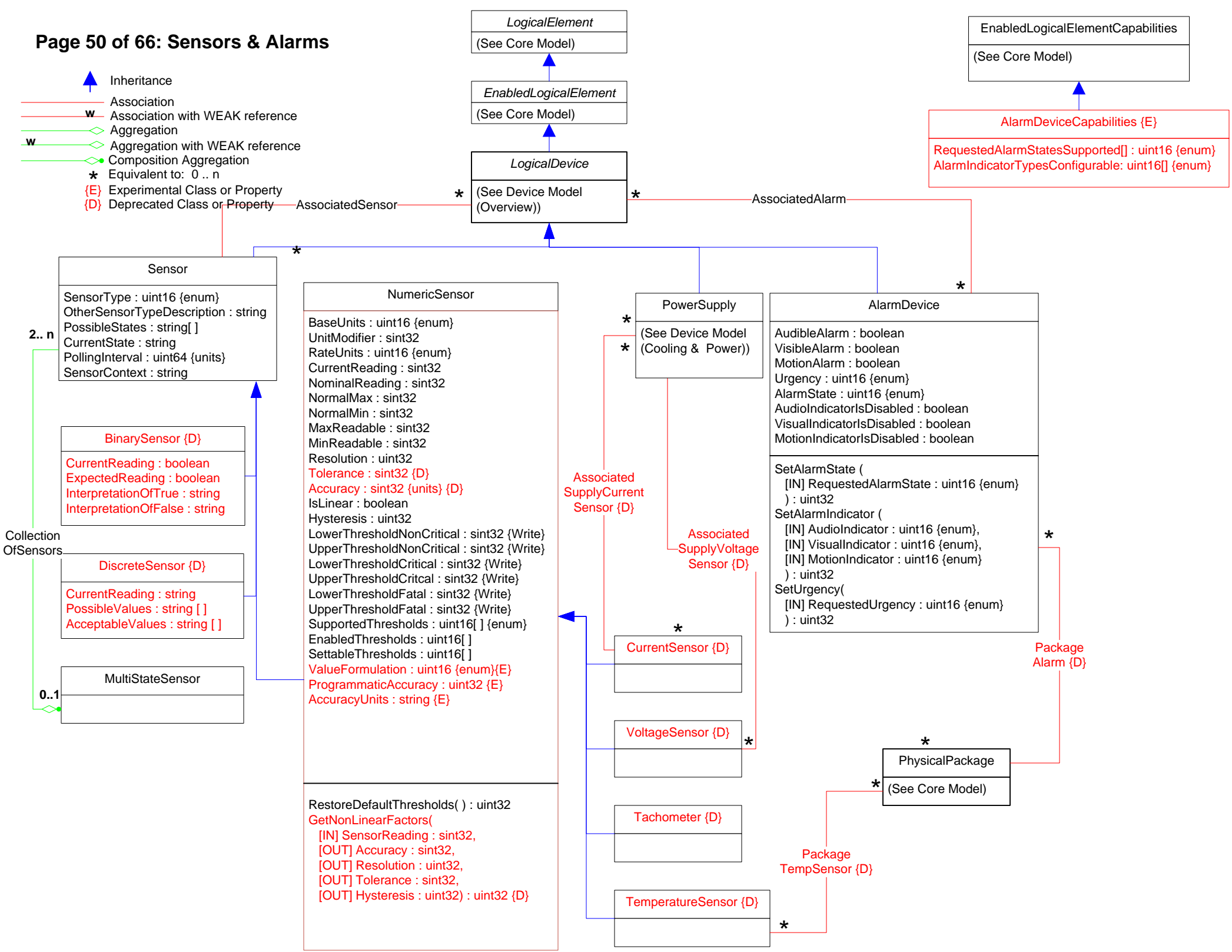











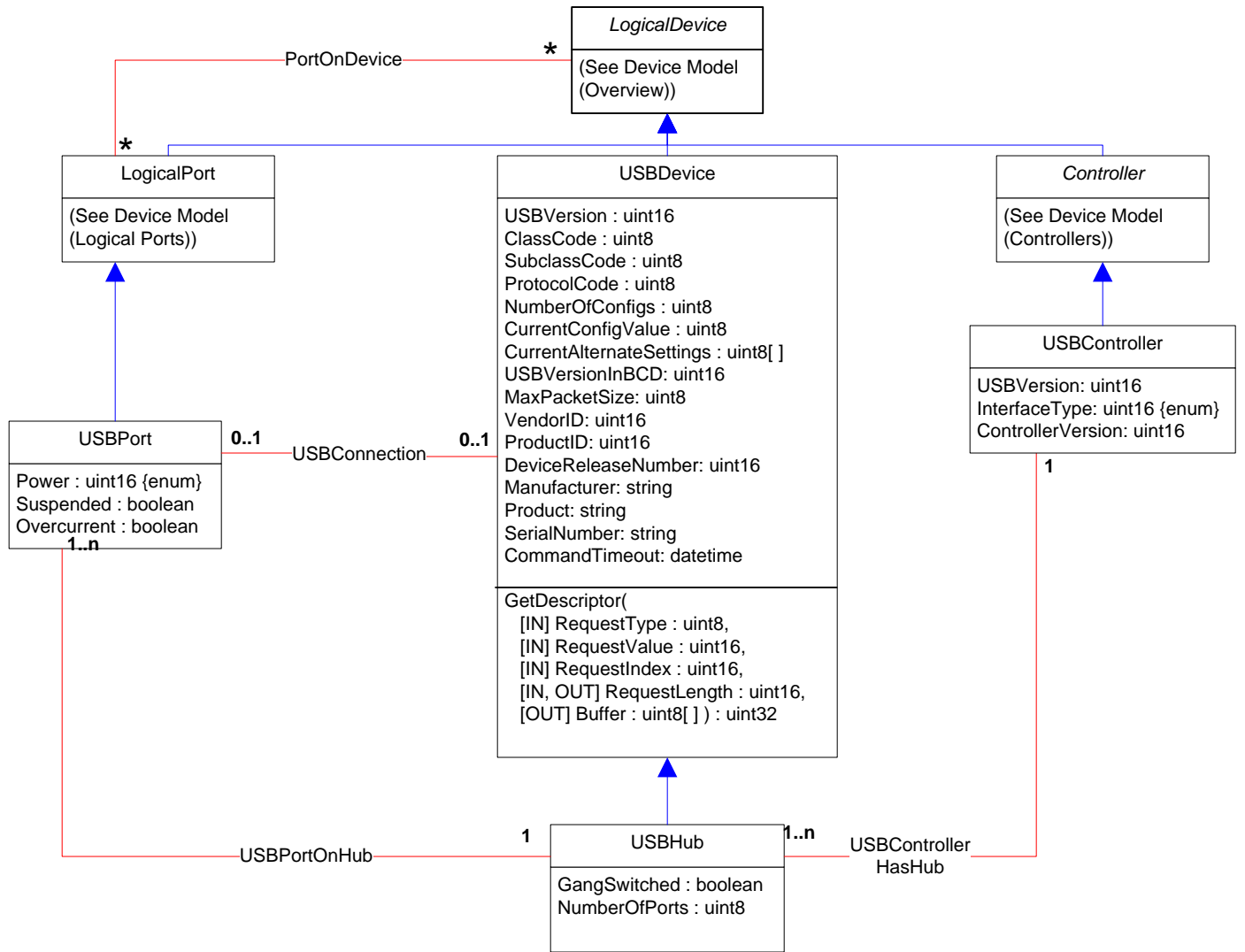





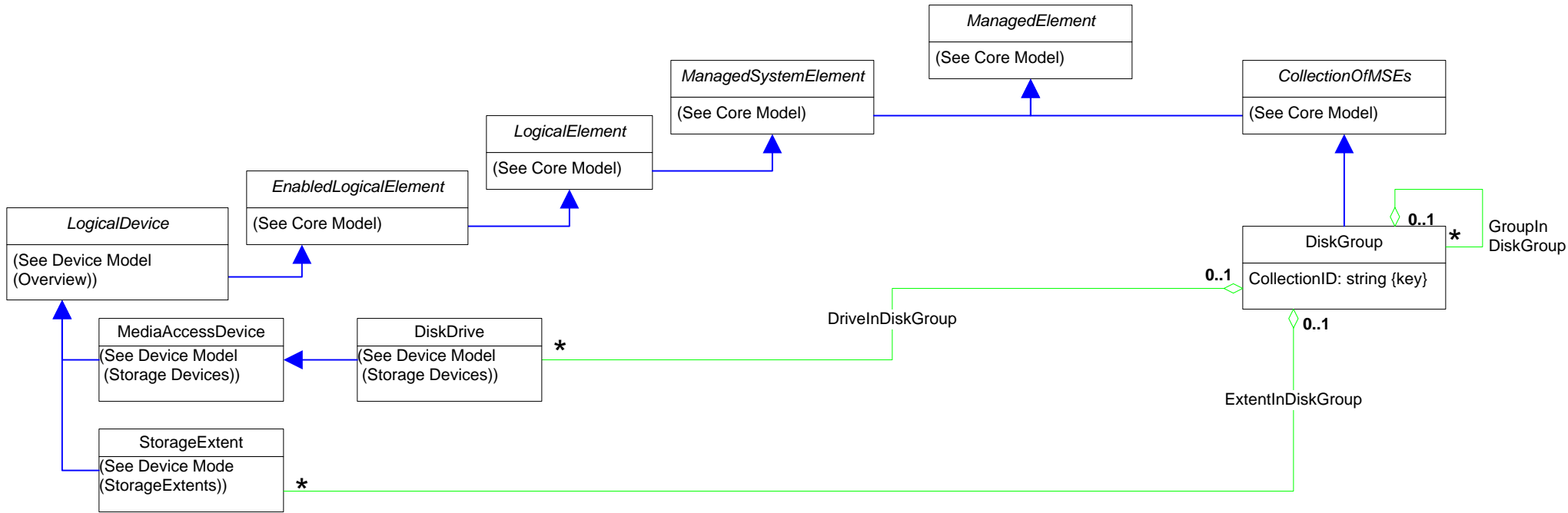
-  Inheritance
-  Association
-  Association with WEAK reference
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-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  {E} Experimental Class or Property
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-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n

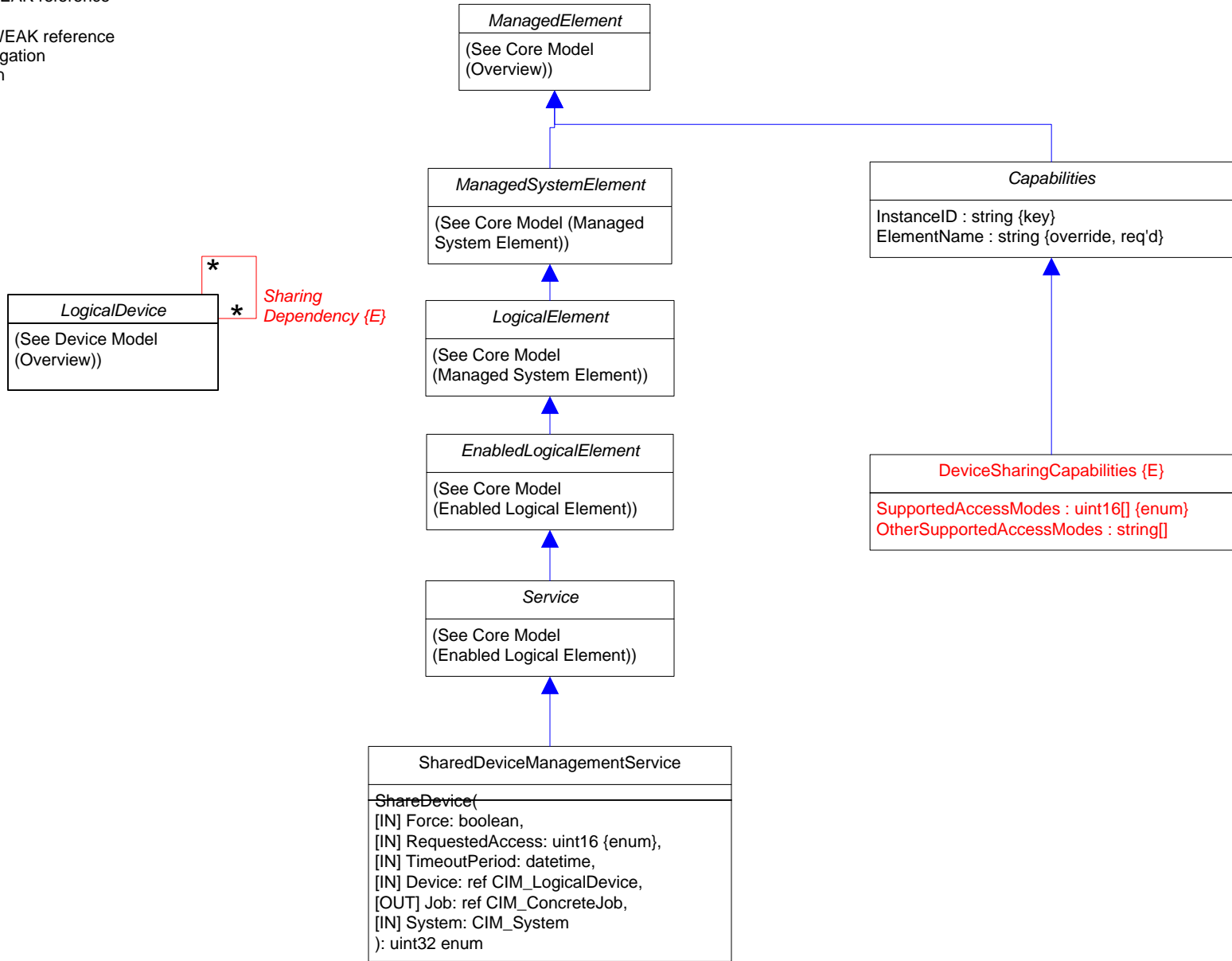






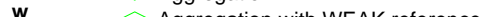
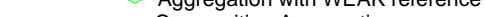

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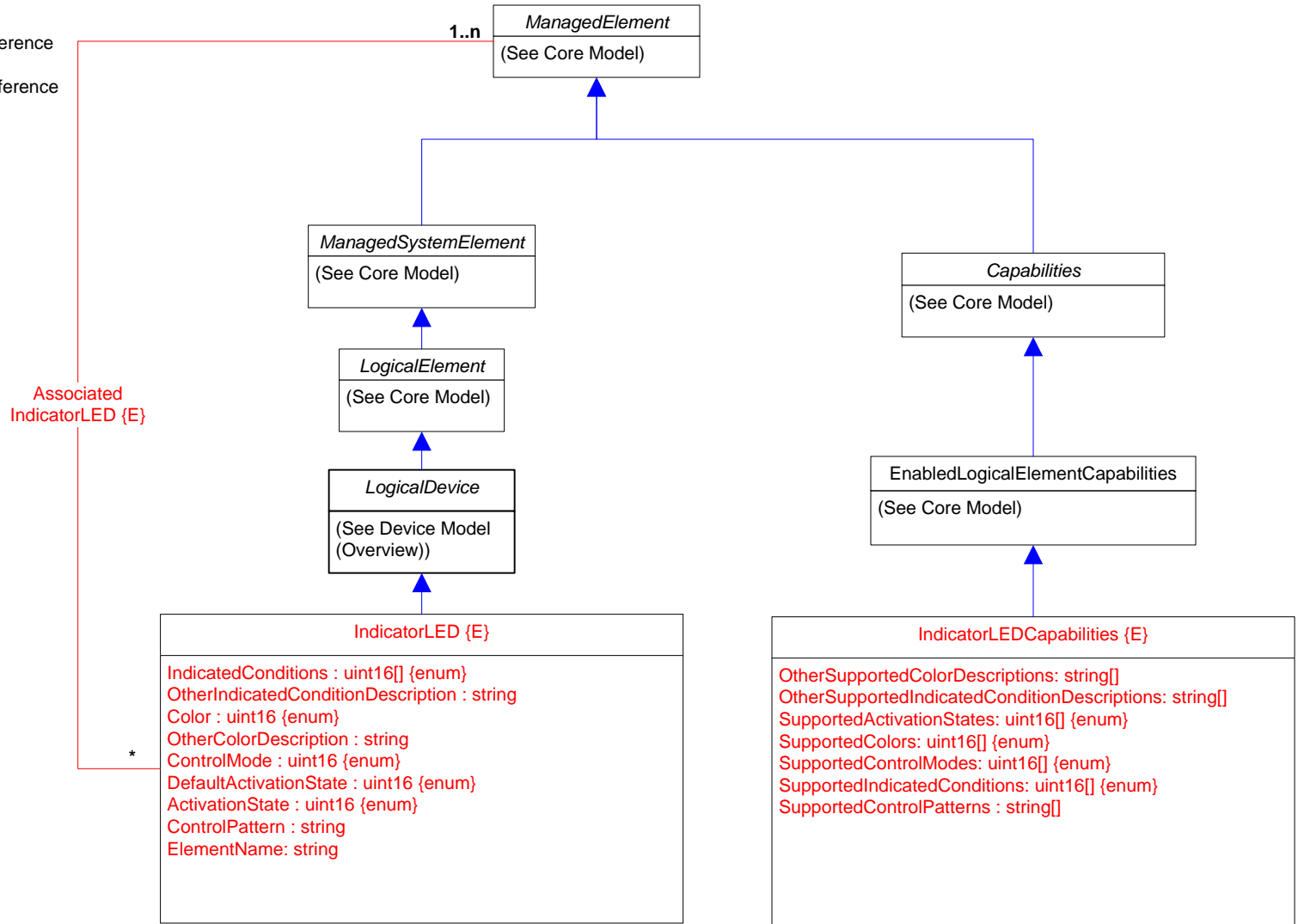











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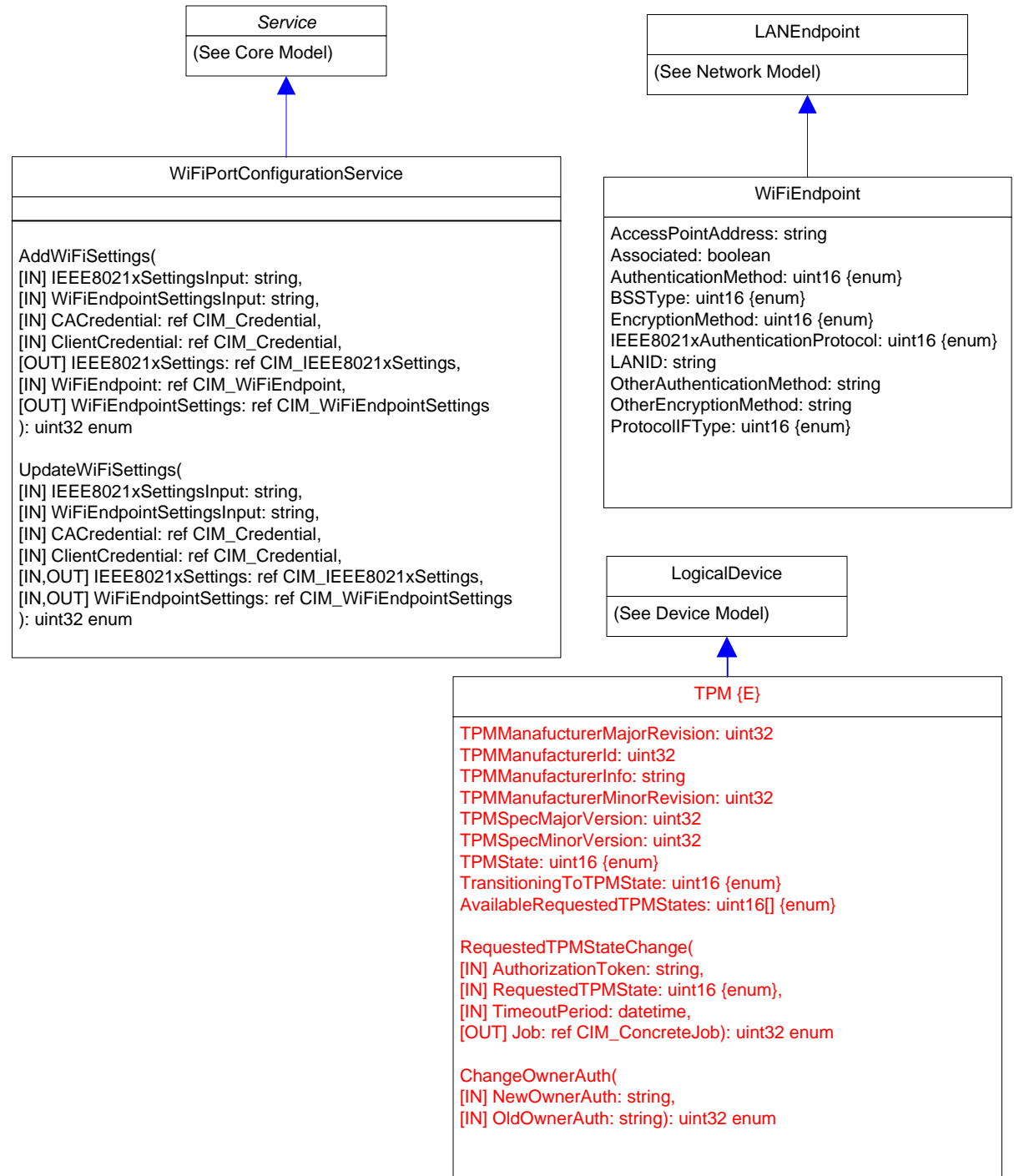
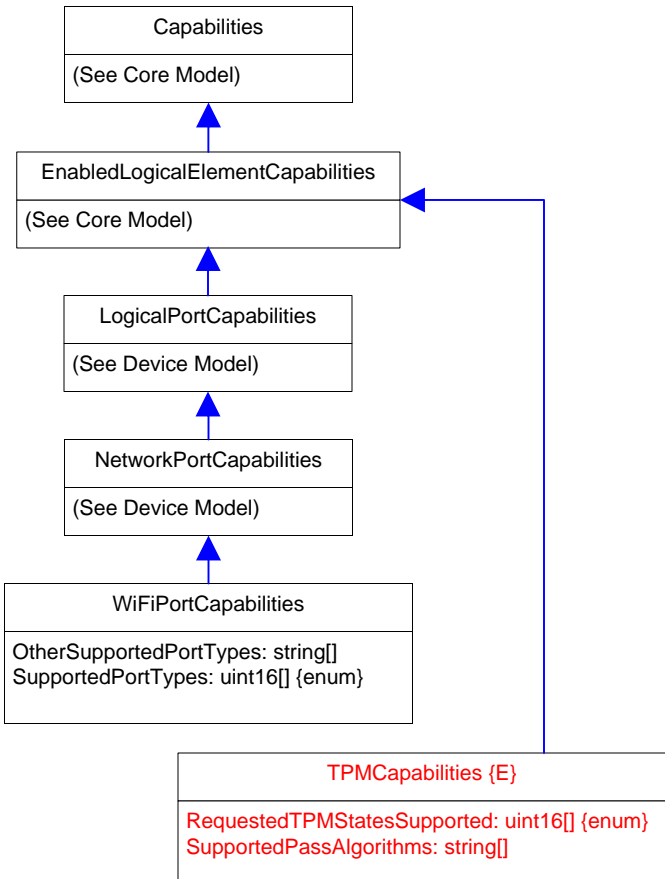
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n

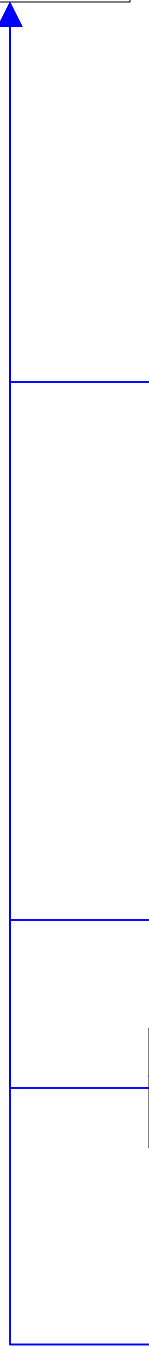
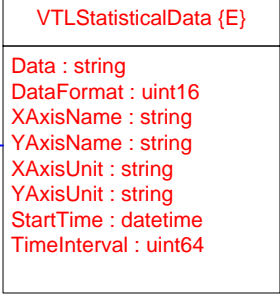
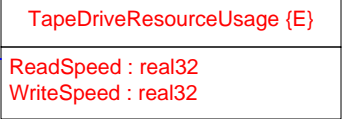
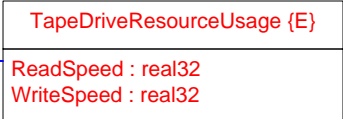
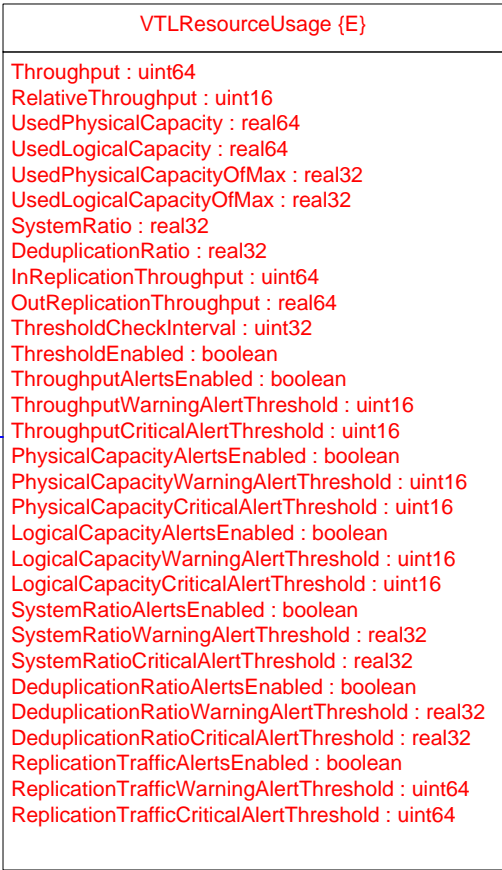
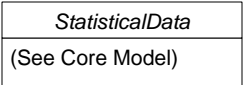
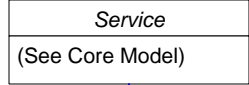


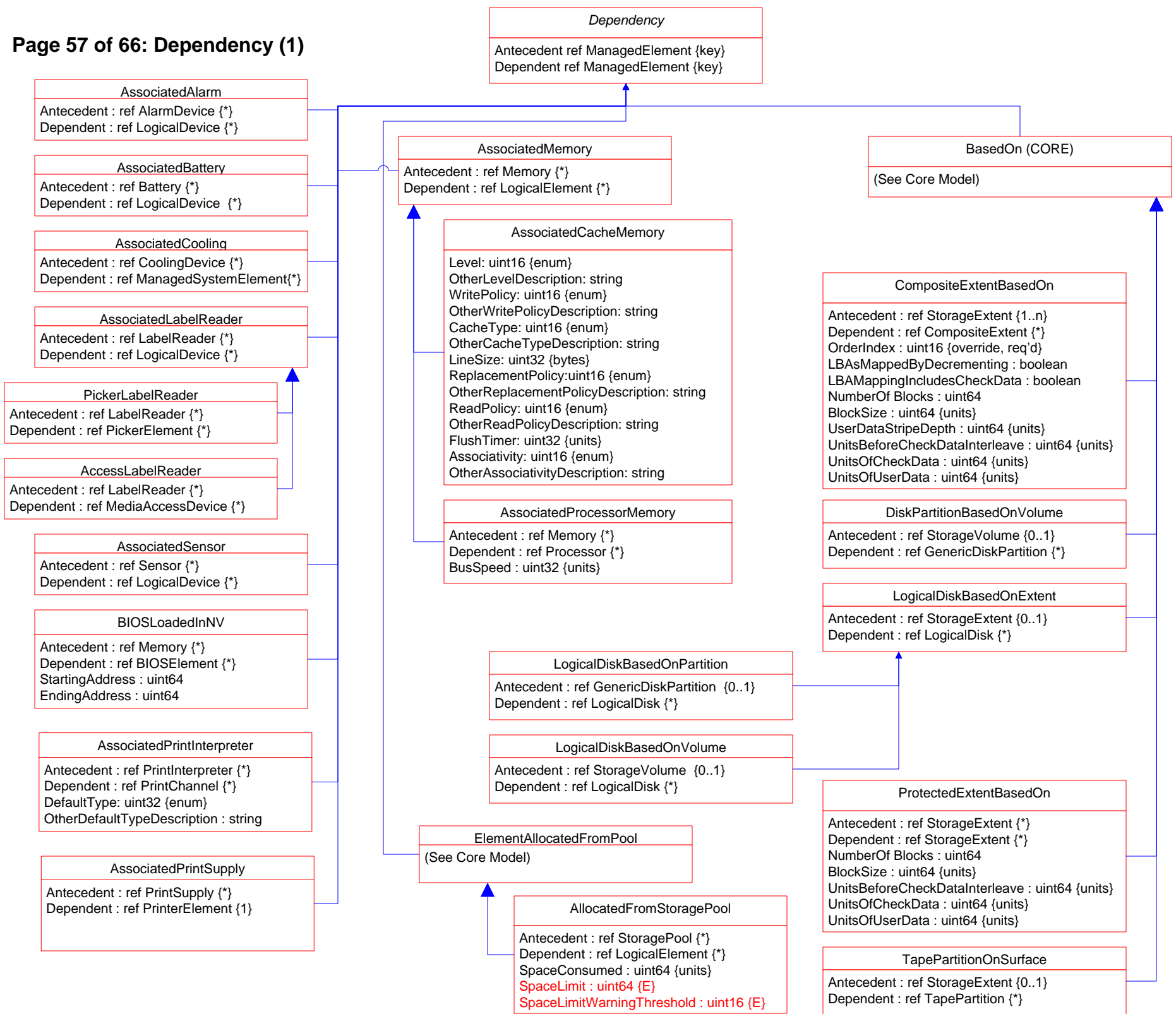
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n

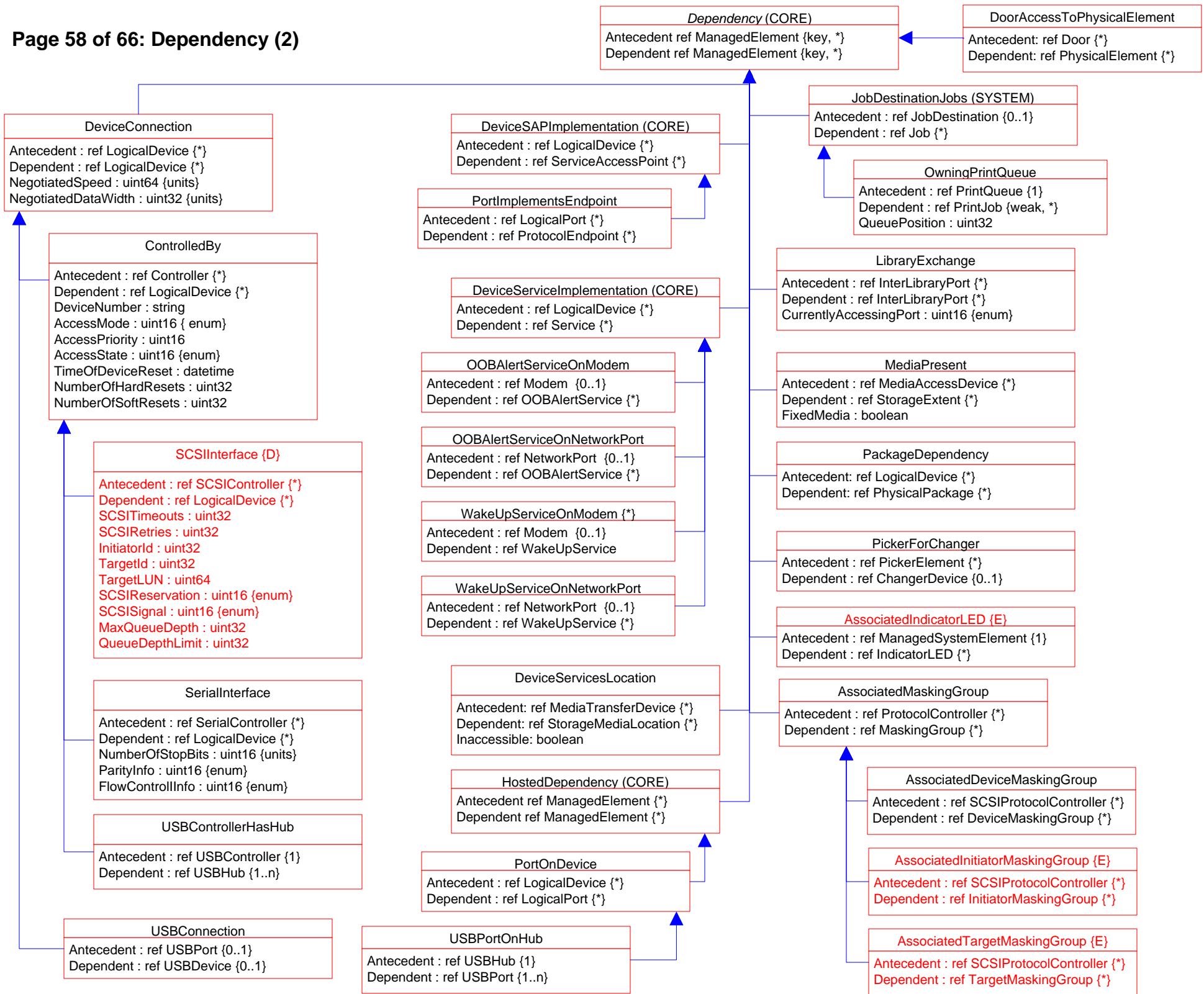


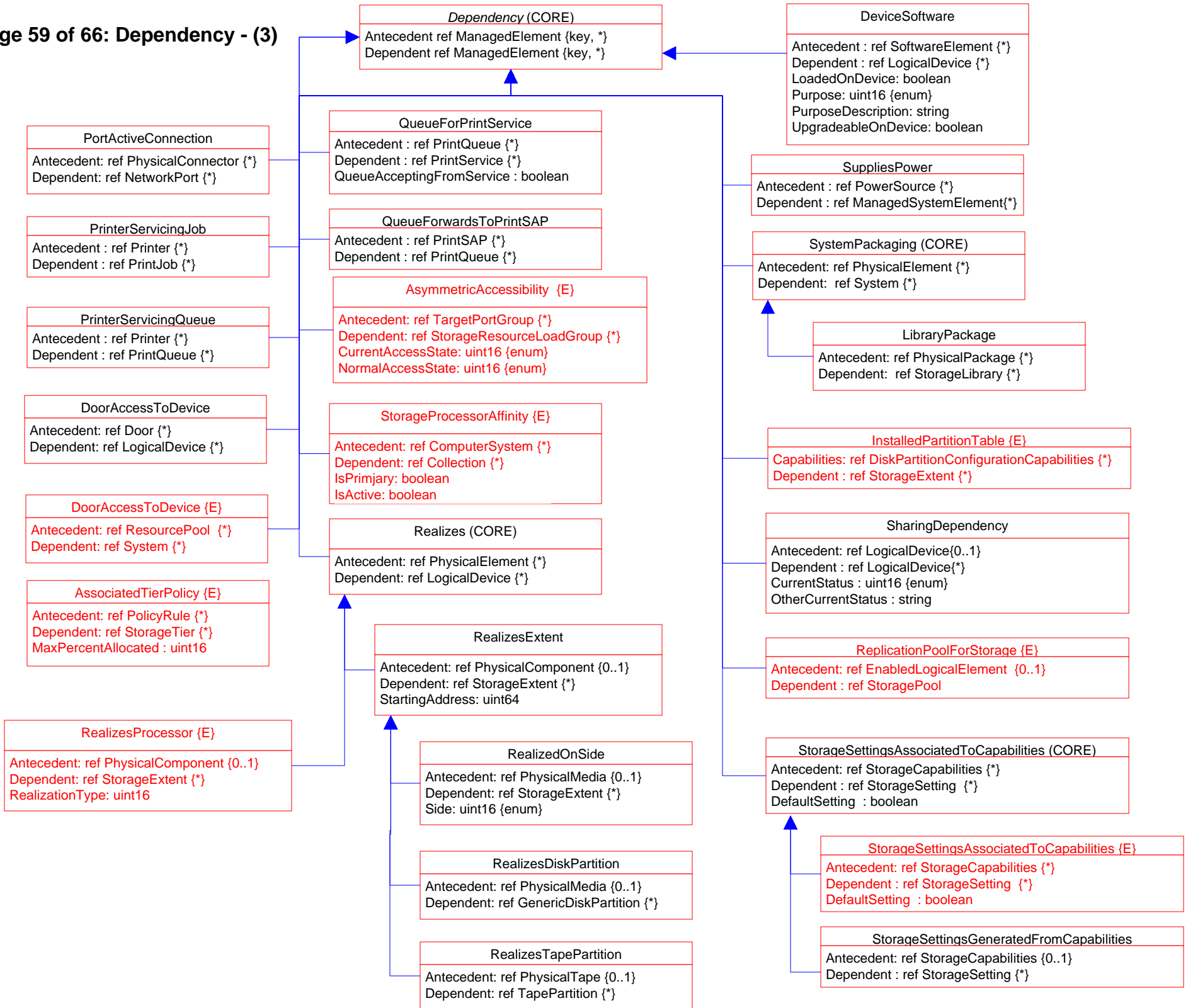
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property

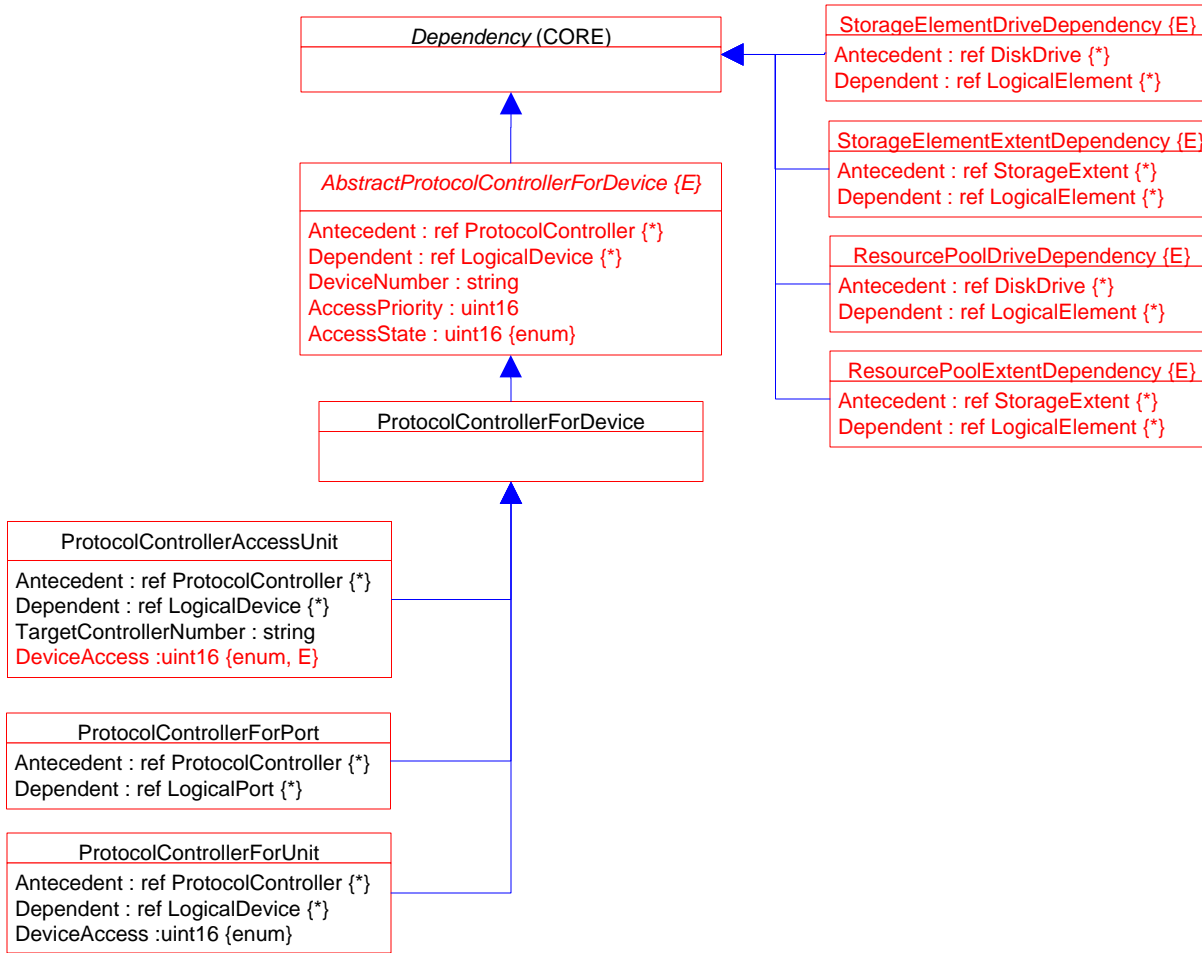




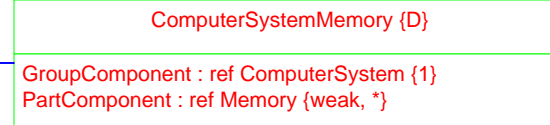
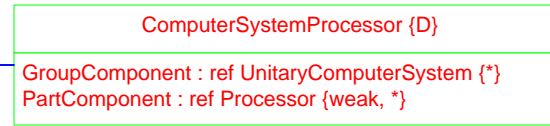
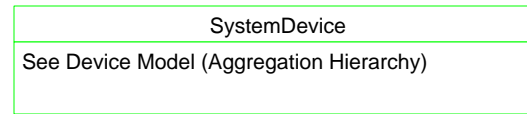
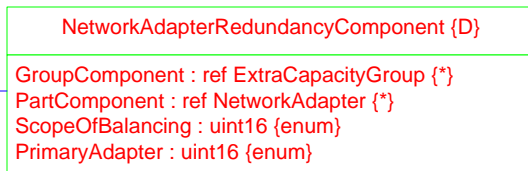
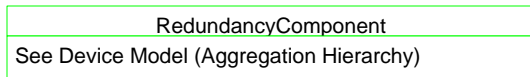
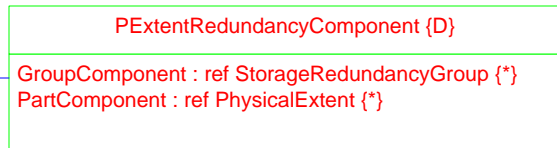
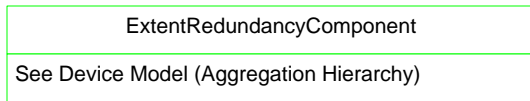




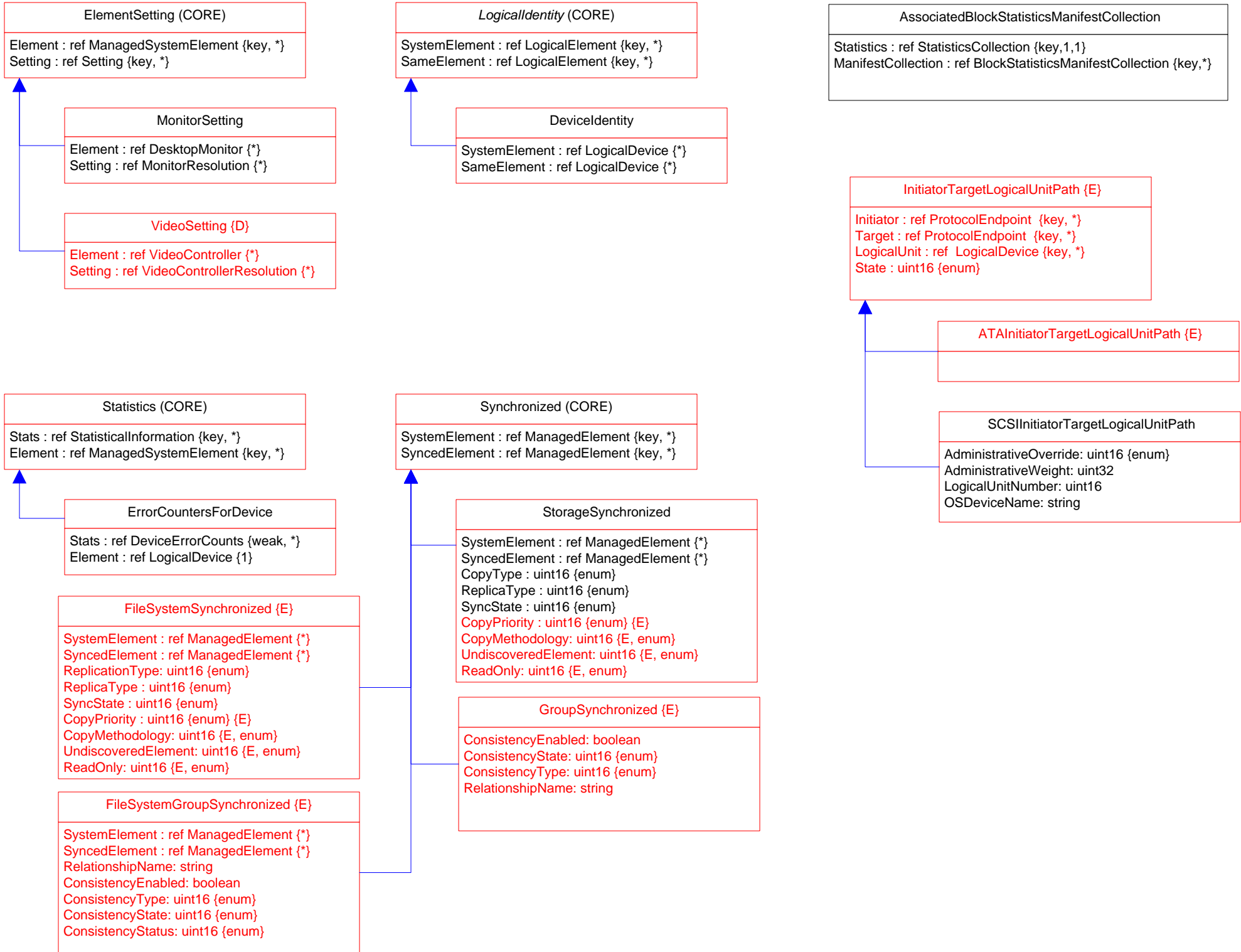




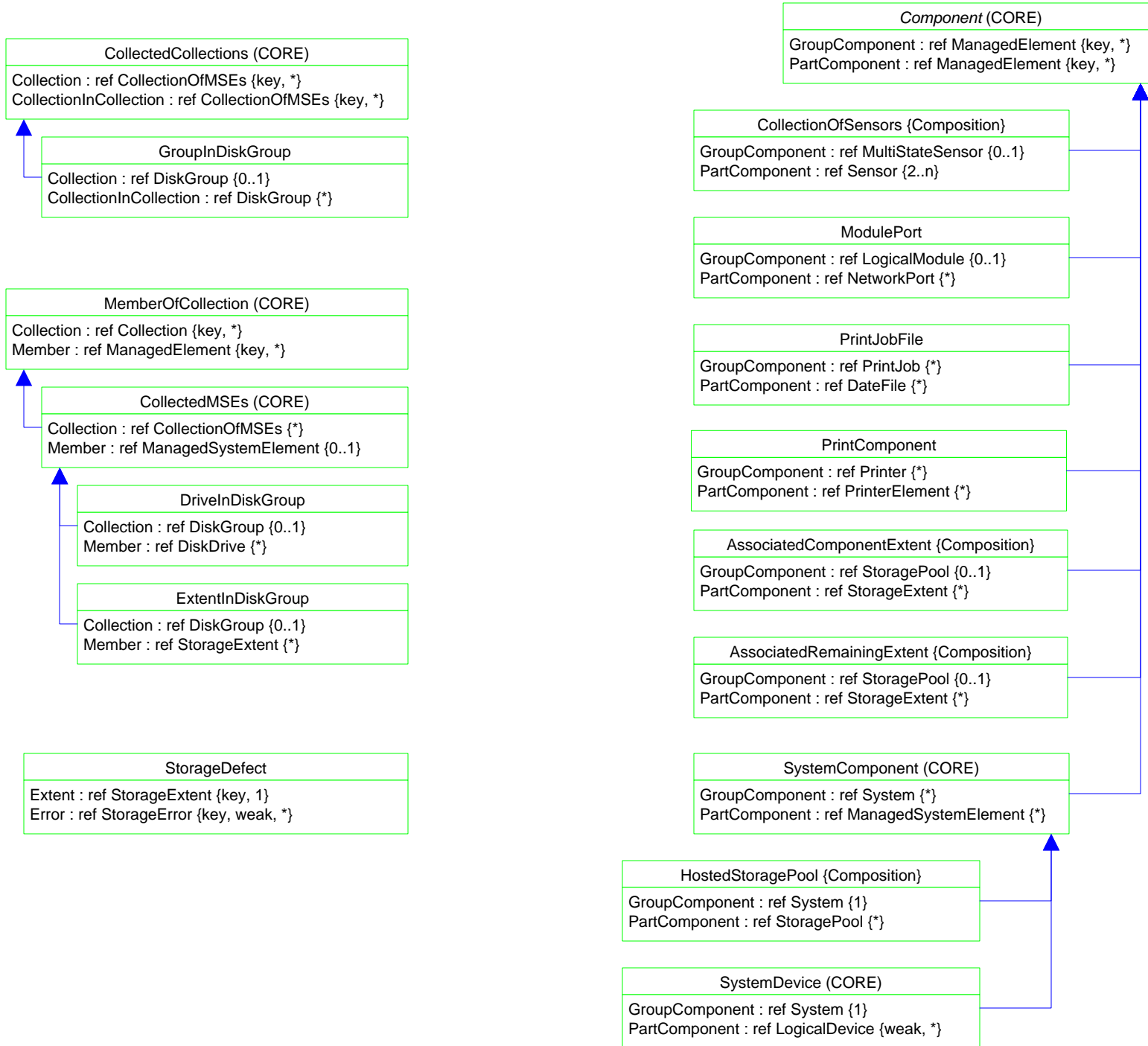
Page 61 of 66: Aggregation Deprecation



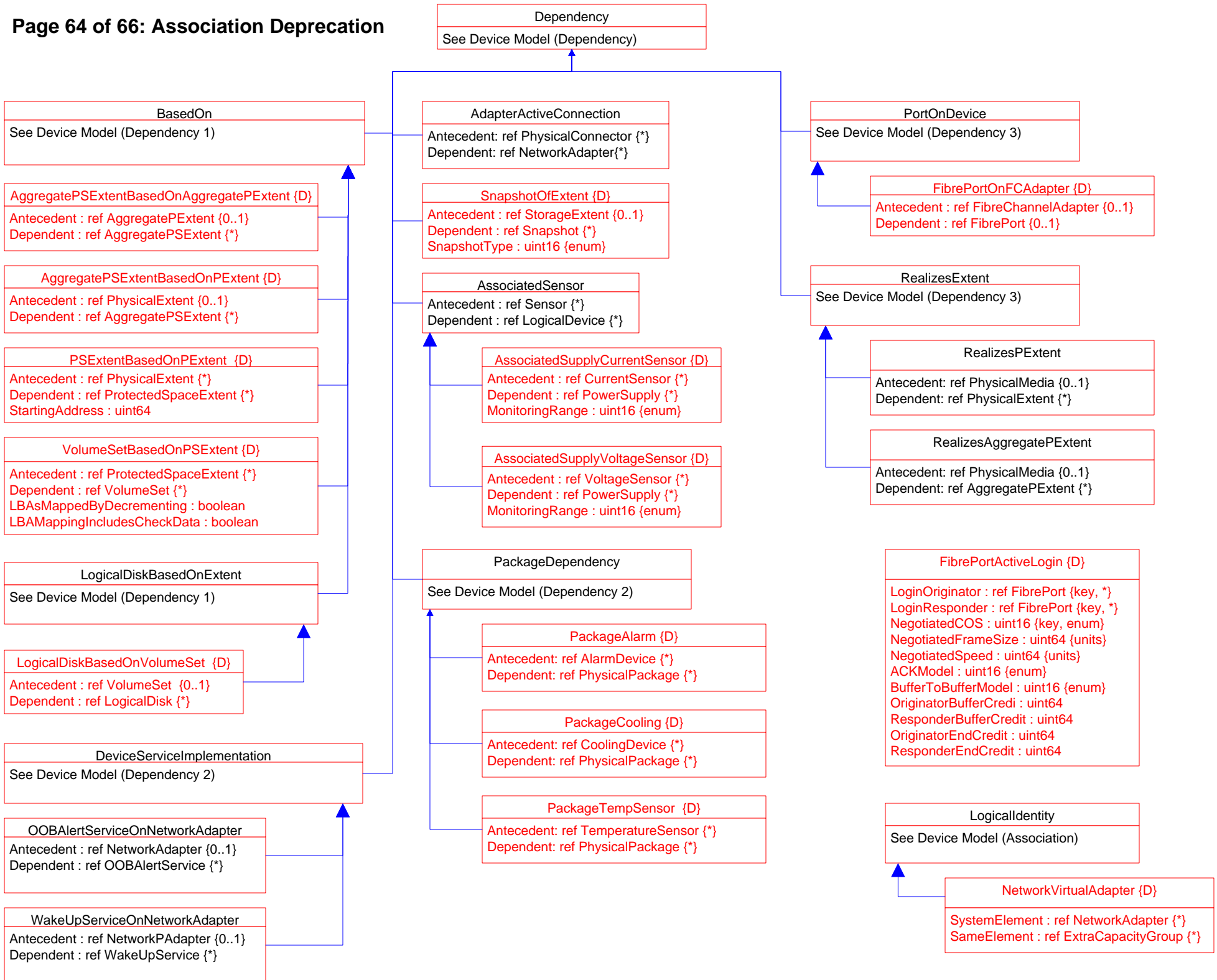
Page 62 of 66: Association Hierarchy

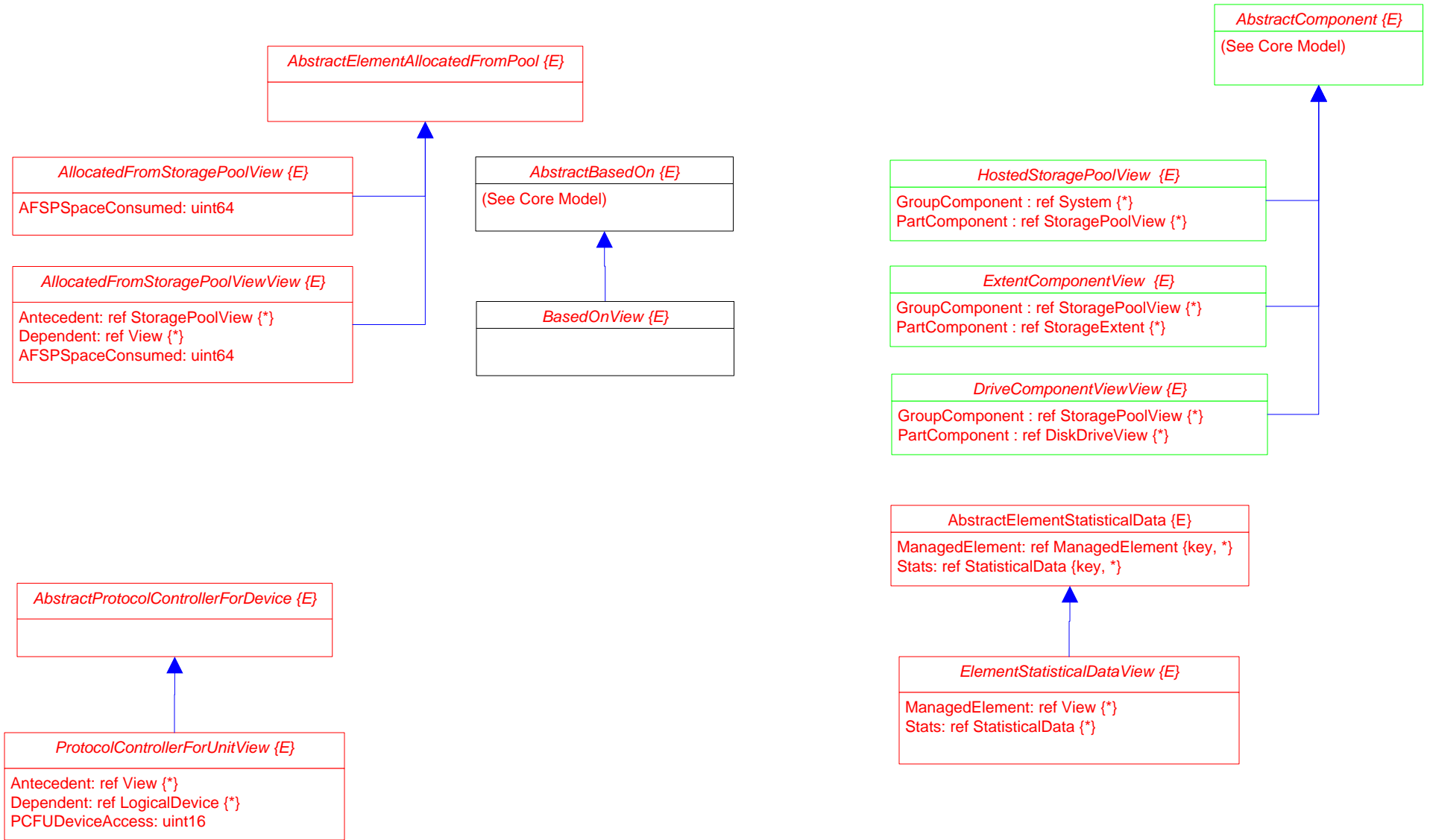


Page 63 of 66: Aggregation Hierarchy



Page 64 of 66: Association Deprecation





MaskingMappingExposedDeviceView {E}

ProtocolEndpoint: ref ProtocolEndpoint {*}
LogicalDevice: ref LogicalDevice {*}
SPCSystemCreationClassName: string
SPCSystemName: string
SPCCreationClassName: string
SPCDeviceID: string
PCFUDeviceNumber: string
PCFUDeviceAccess: uint16

MaskingMapView {E}

StorageHardwareID: ref StorageHardwareID{*}
LogicalDevice: ref LogicalDevice {*}
ProtocolEndpoint: ref ProtocolEndpoint{*}
SHIDStorageID: string
SHIDIDType: uint16
LDDeviceID: string
SPEPSystemCreationClassName: string
SPEPCreationClassName: string
SPEPSystemName: string
SPEPName: string
SPEPProtocolIFTType:
SPEPOtherTypeDescription: string
SPEPConnectionType:
SPEPRole: uint16
APIInstanceID: string
APPPrivilegeGranted:
APActivities[]: uint16
APElementName: string
SPCSystemCreationClassName: string
SPCCreationClassName: string
SPCSystemName: string
SPCDeviceID: string
PCFUDeviceNumber: string
PCFUDeviceAccess: uint16