

Title : Device Specification 2.28.0

Filename : CIM_Device.vsd

Author : DMTF Core Schema WG

Date : 10 January 2011

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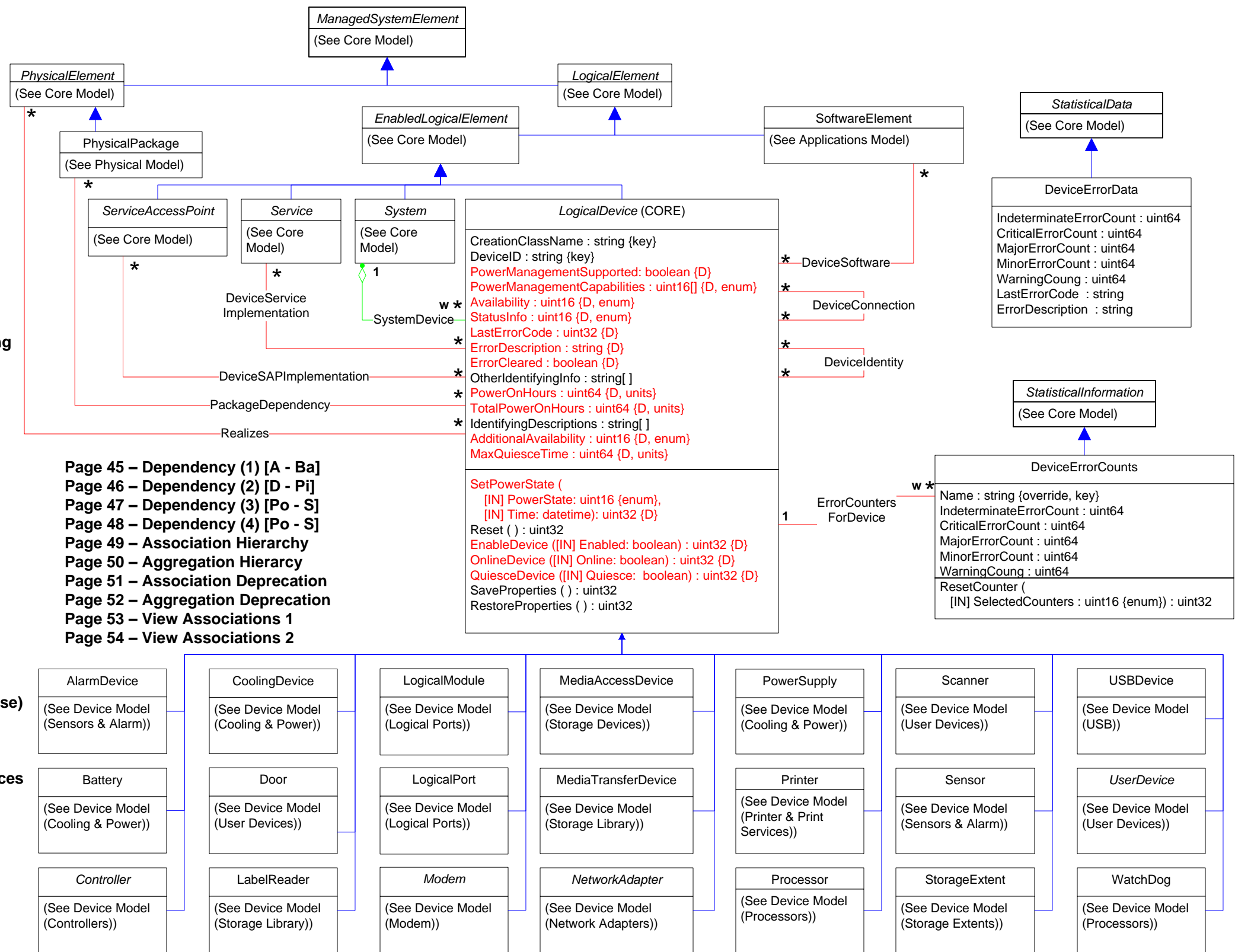
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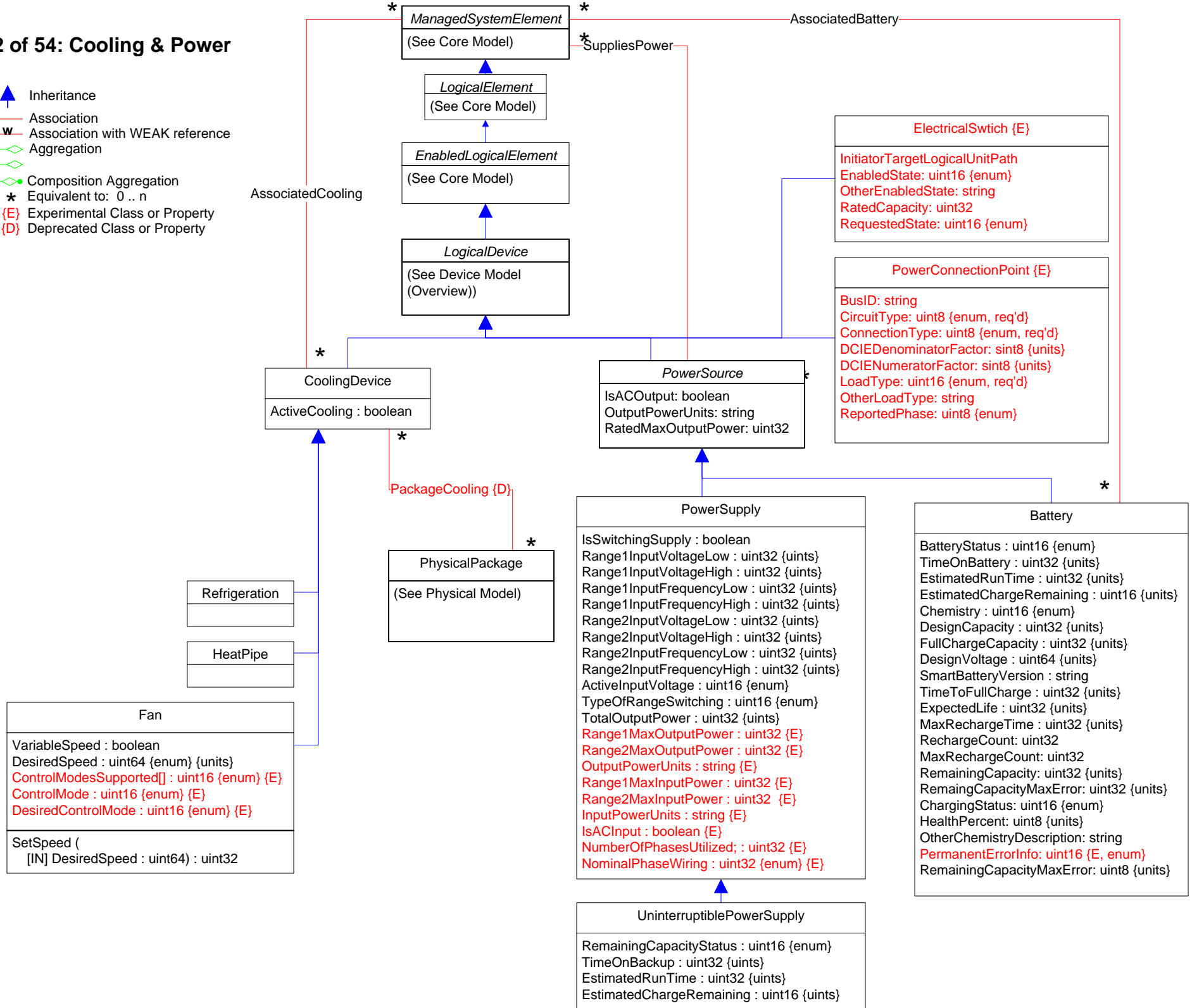
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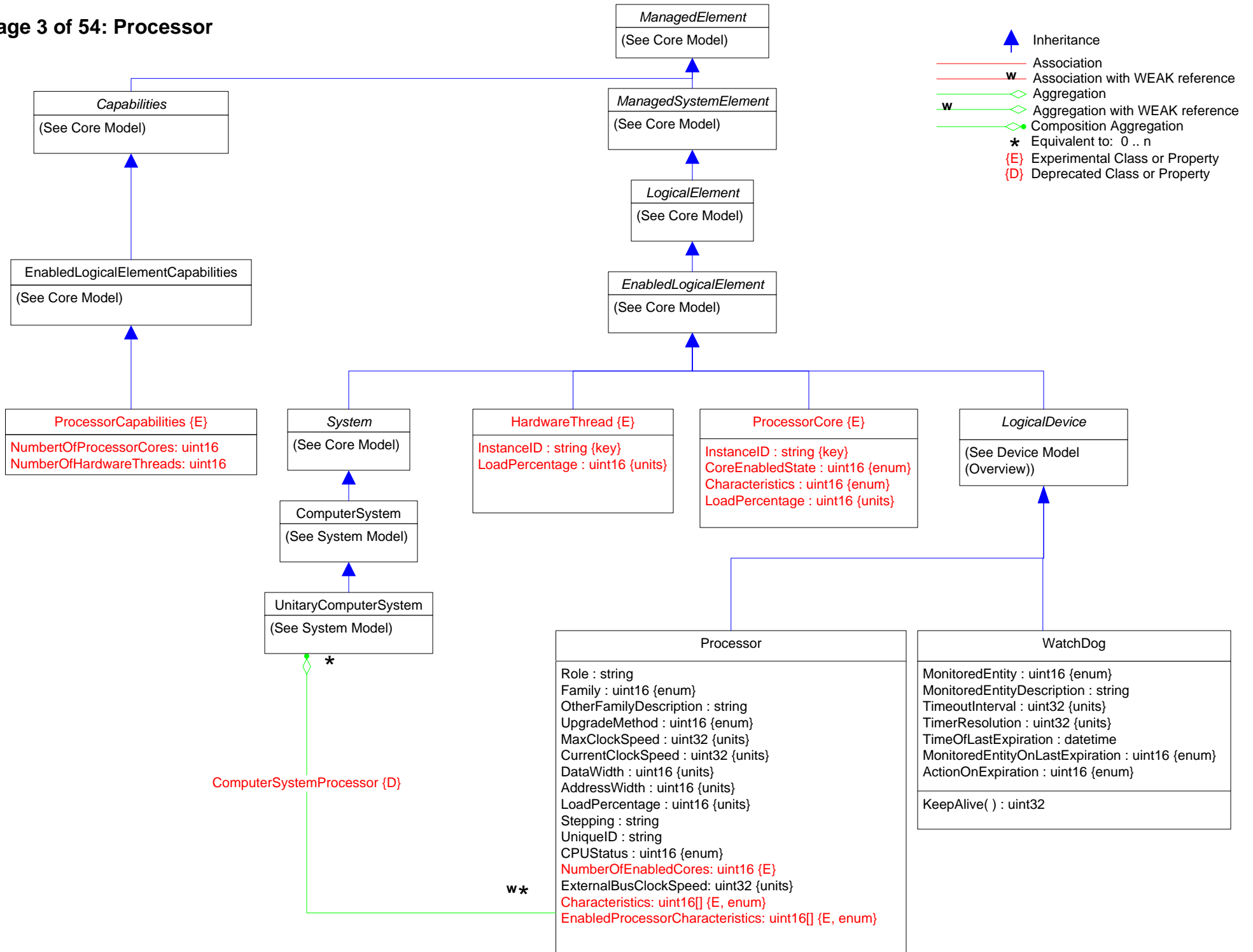
Page 44 – WiFi Services



Page 2 of 54: Cooling & Power

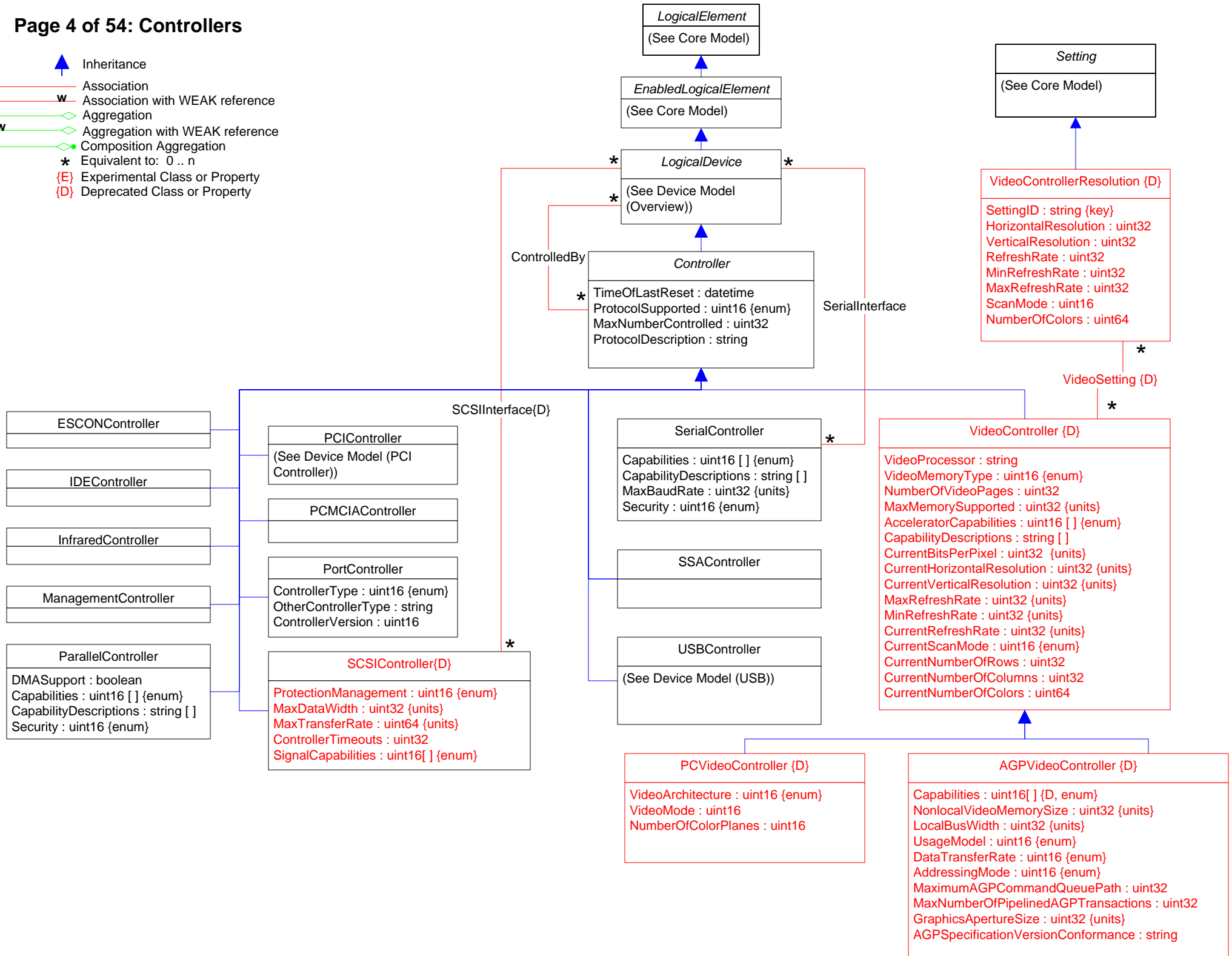
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Composition Aggregation
-  Equivalent to: 0..n
- (E) Experimental Class or Property
- (D) Deprecated Class or Property












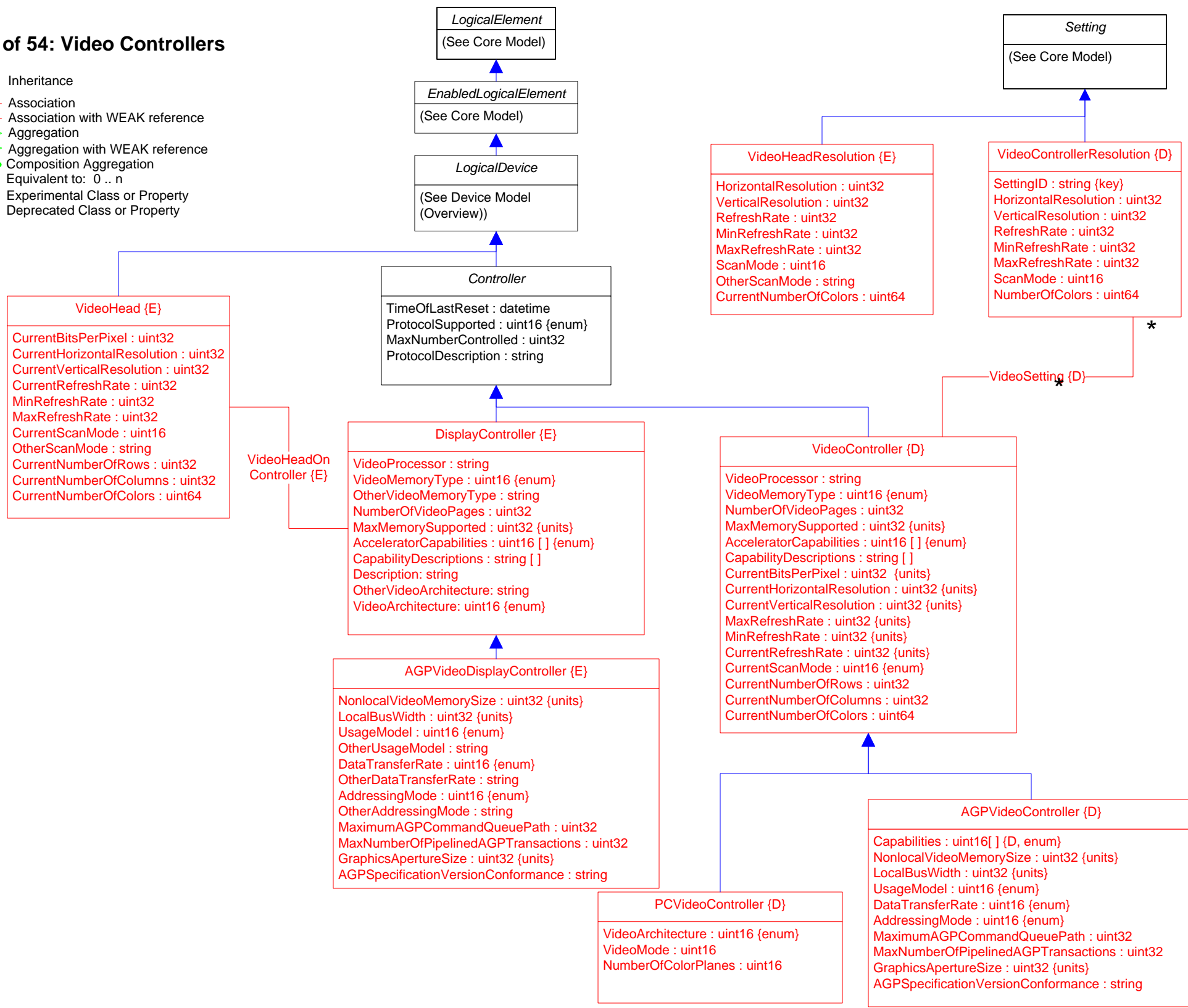


Page 4 of 54: Controllers










- Inheritance
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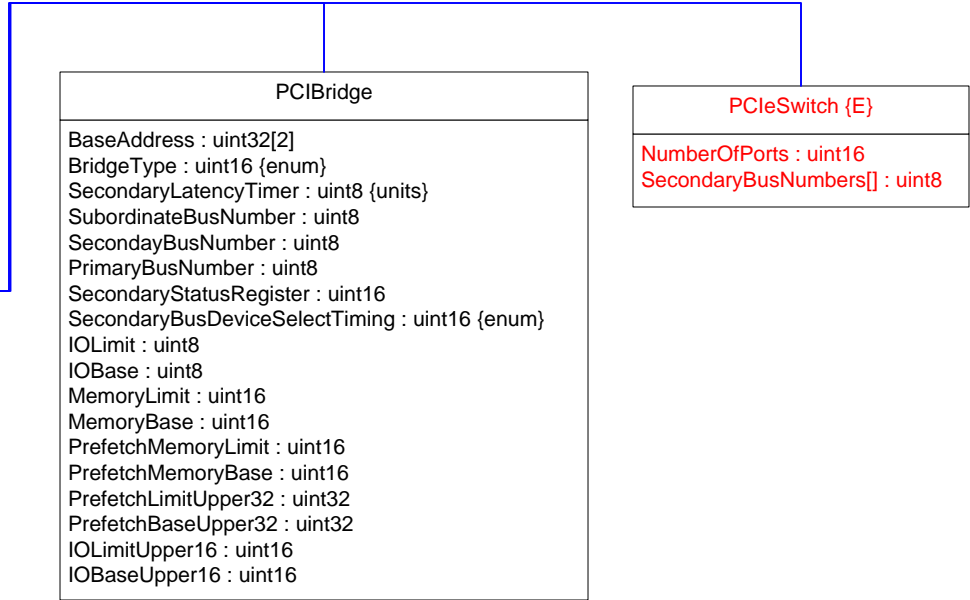
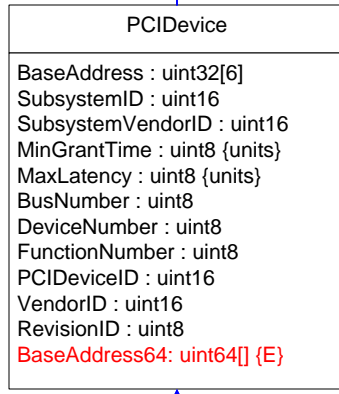
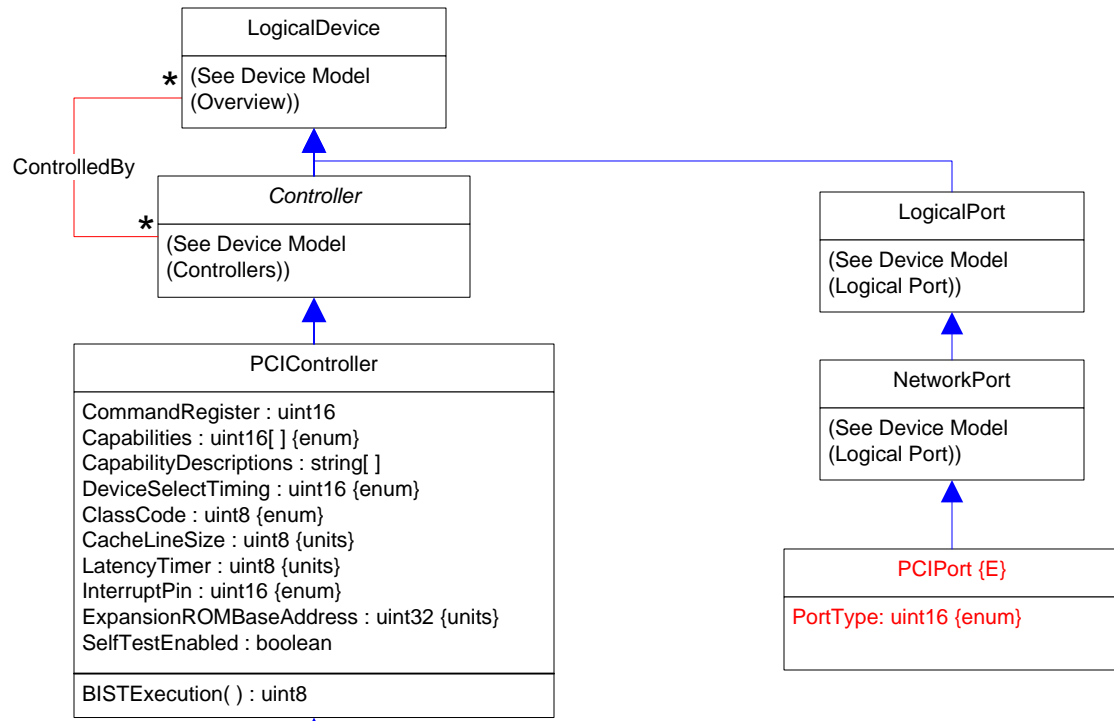
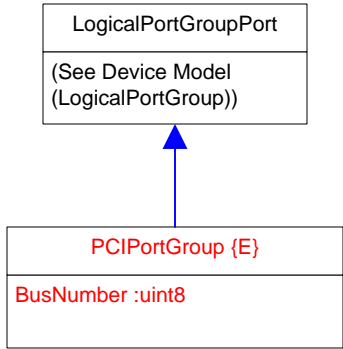


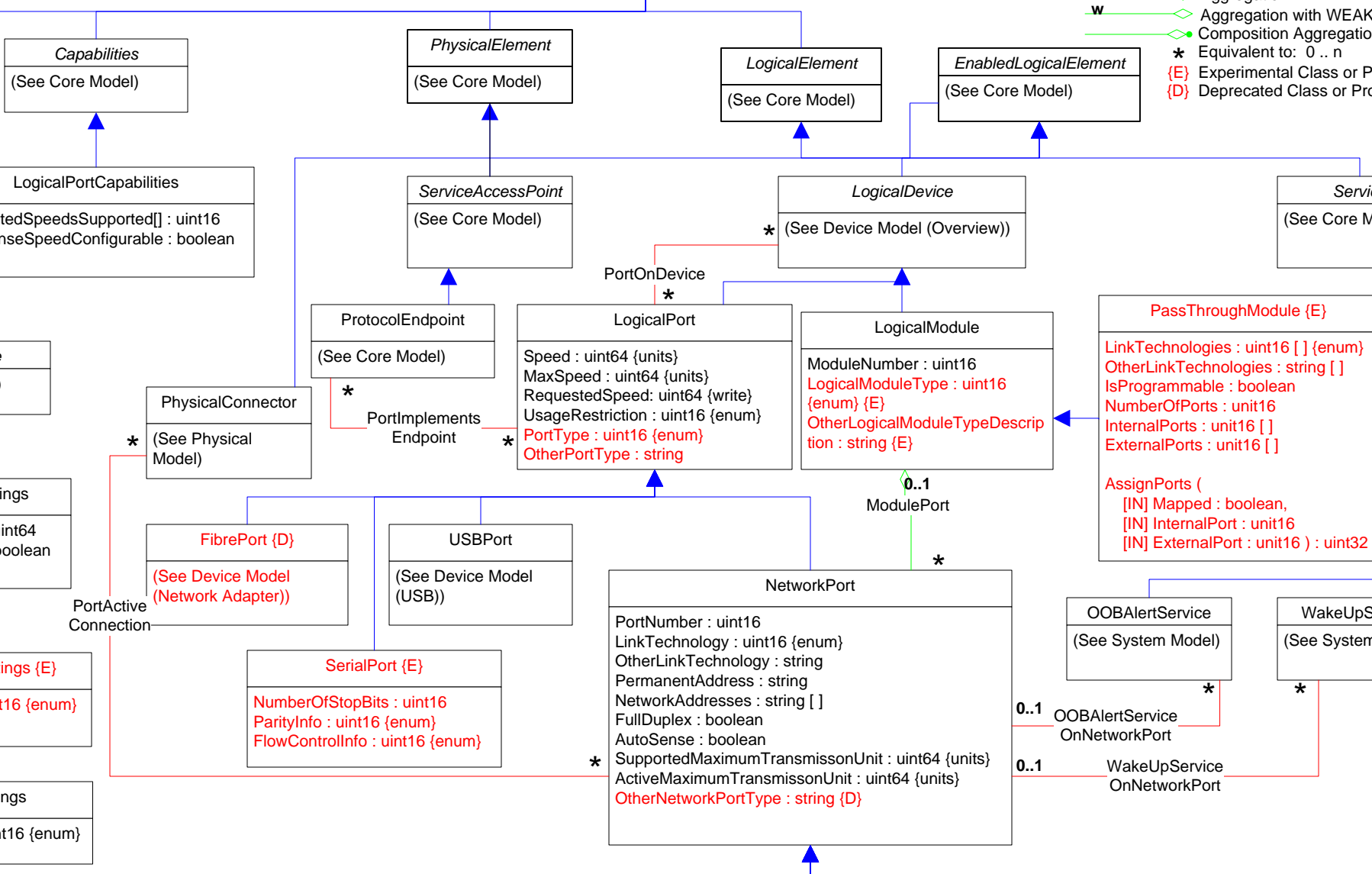
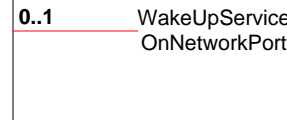
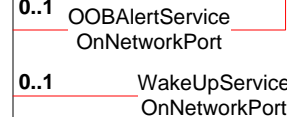
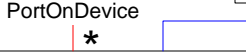
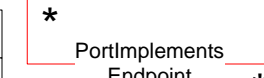
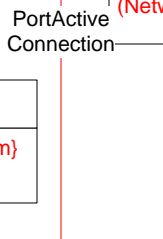
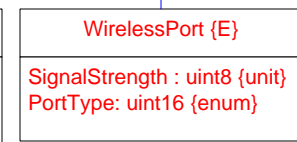
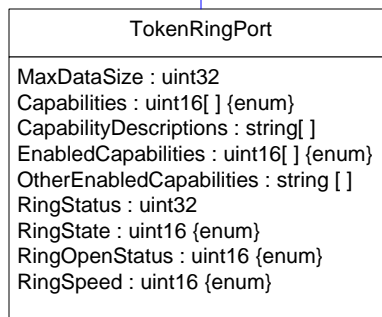
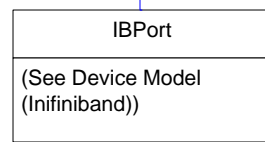
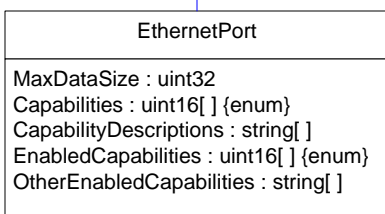
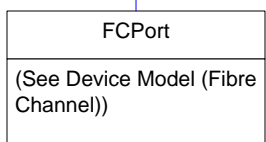
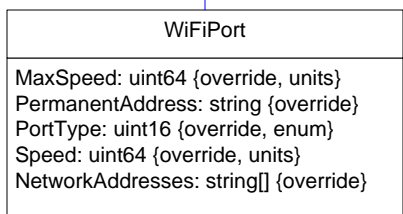
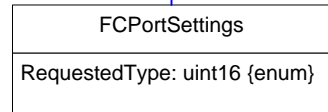
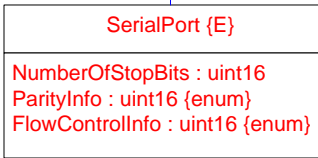
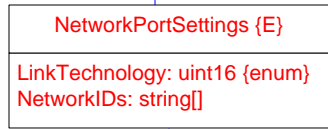
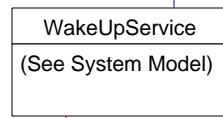
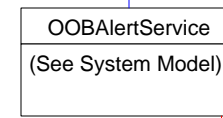
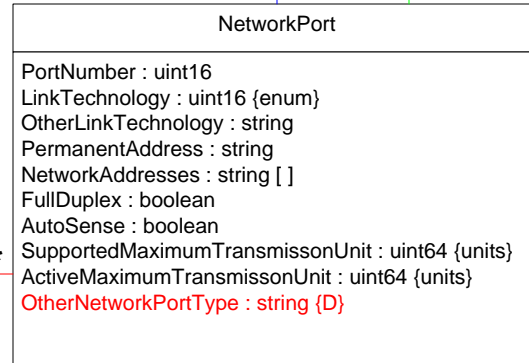
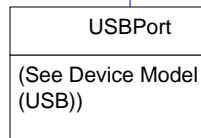
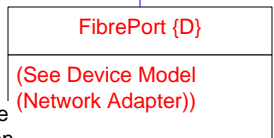
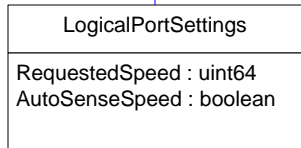
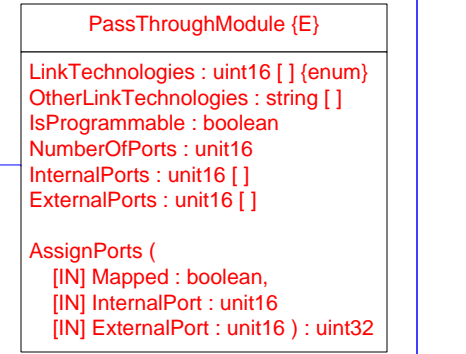
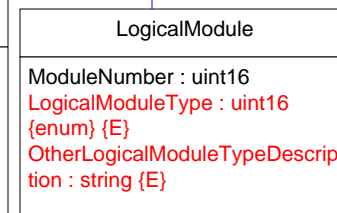
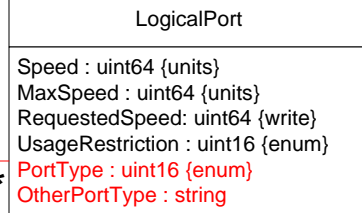
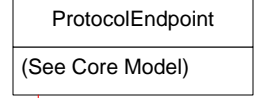
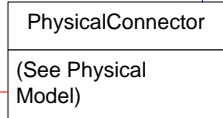
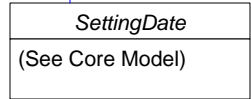
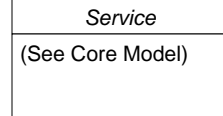
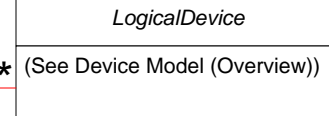
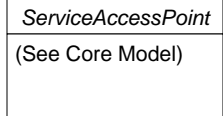
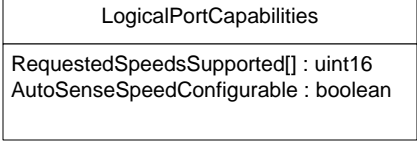
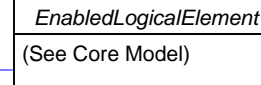
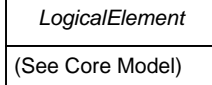
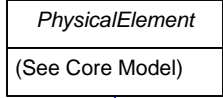
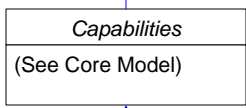
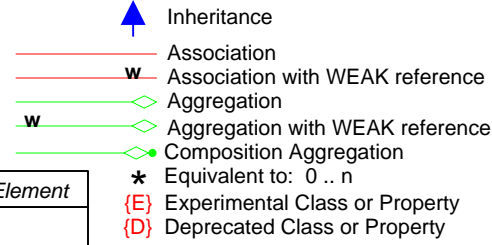
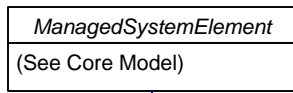
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Page 6 of 54: PCI Controllers

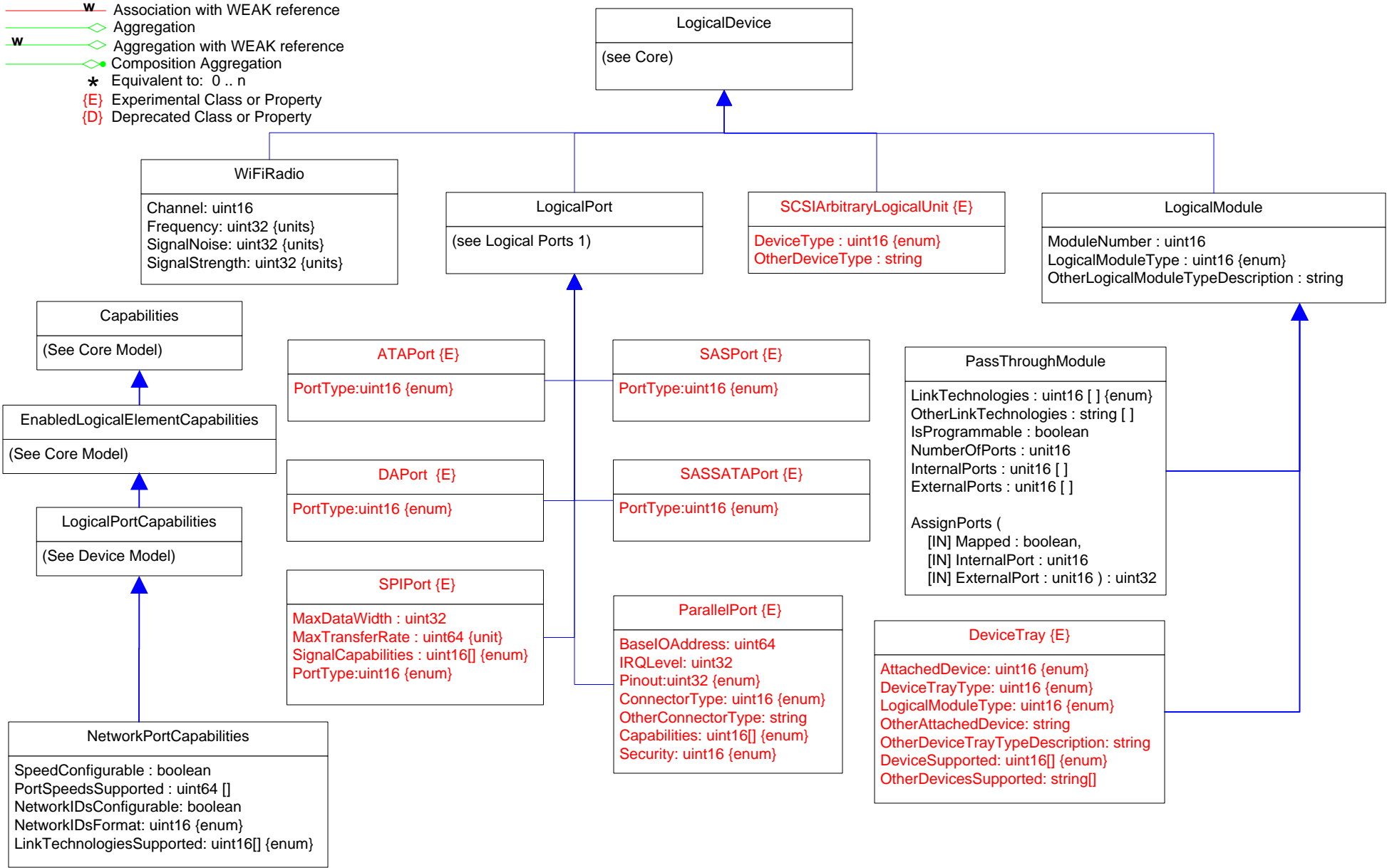
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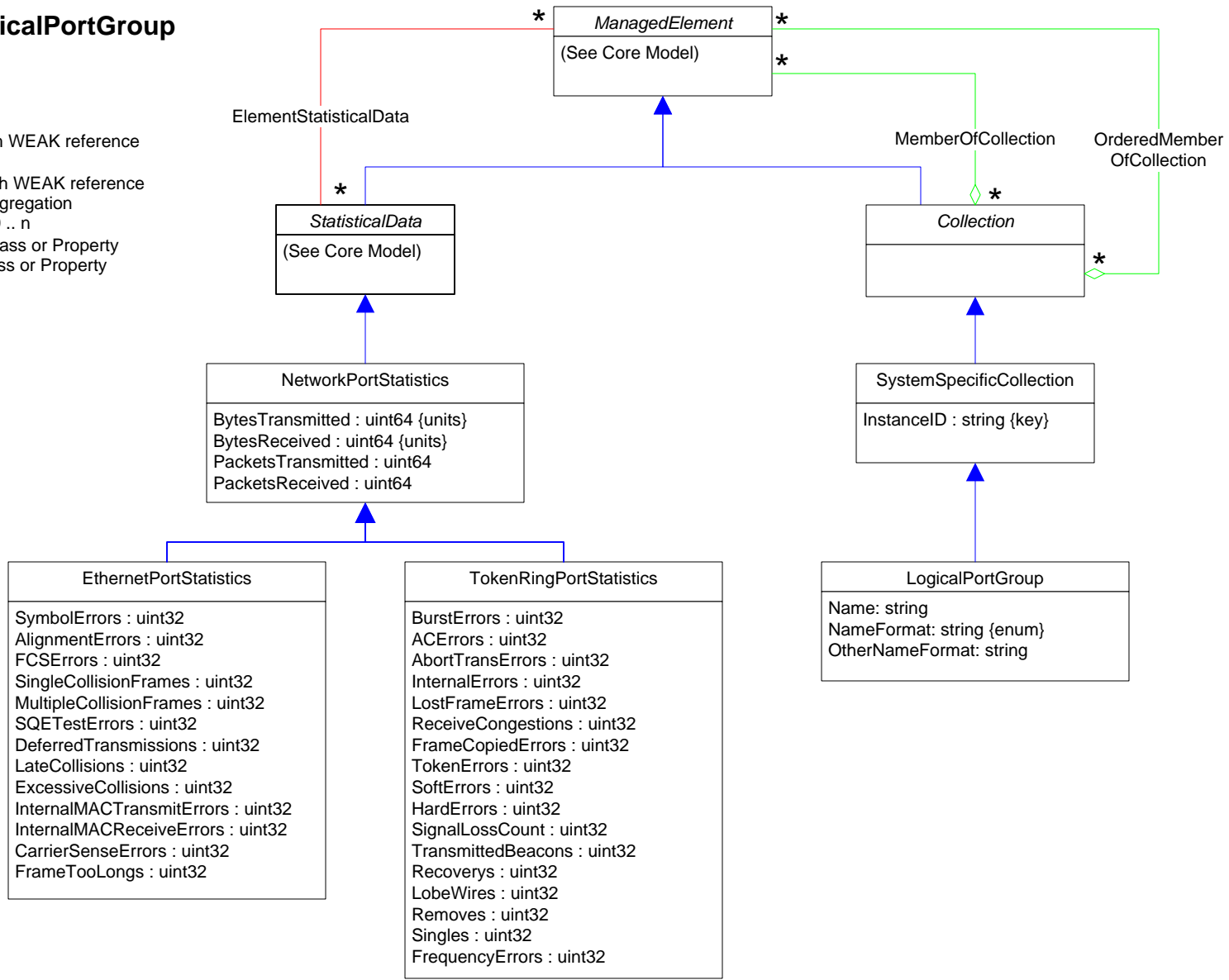


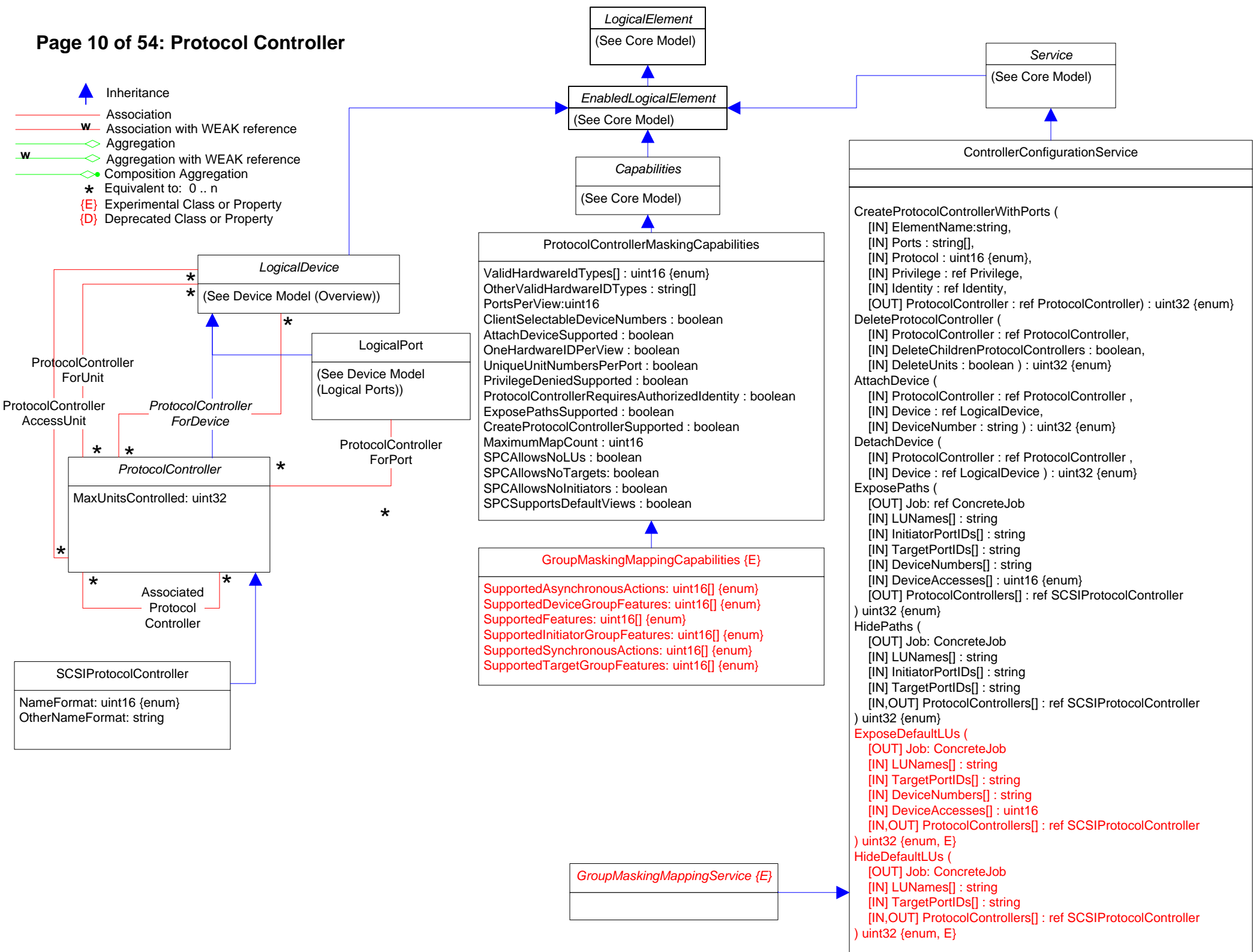
Page 8 of 54: Logical Ports 2

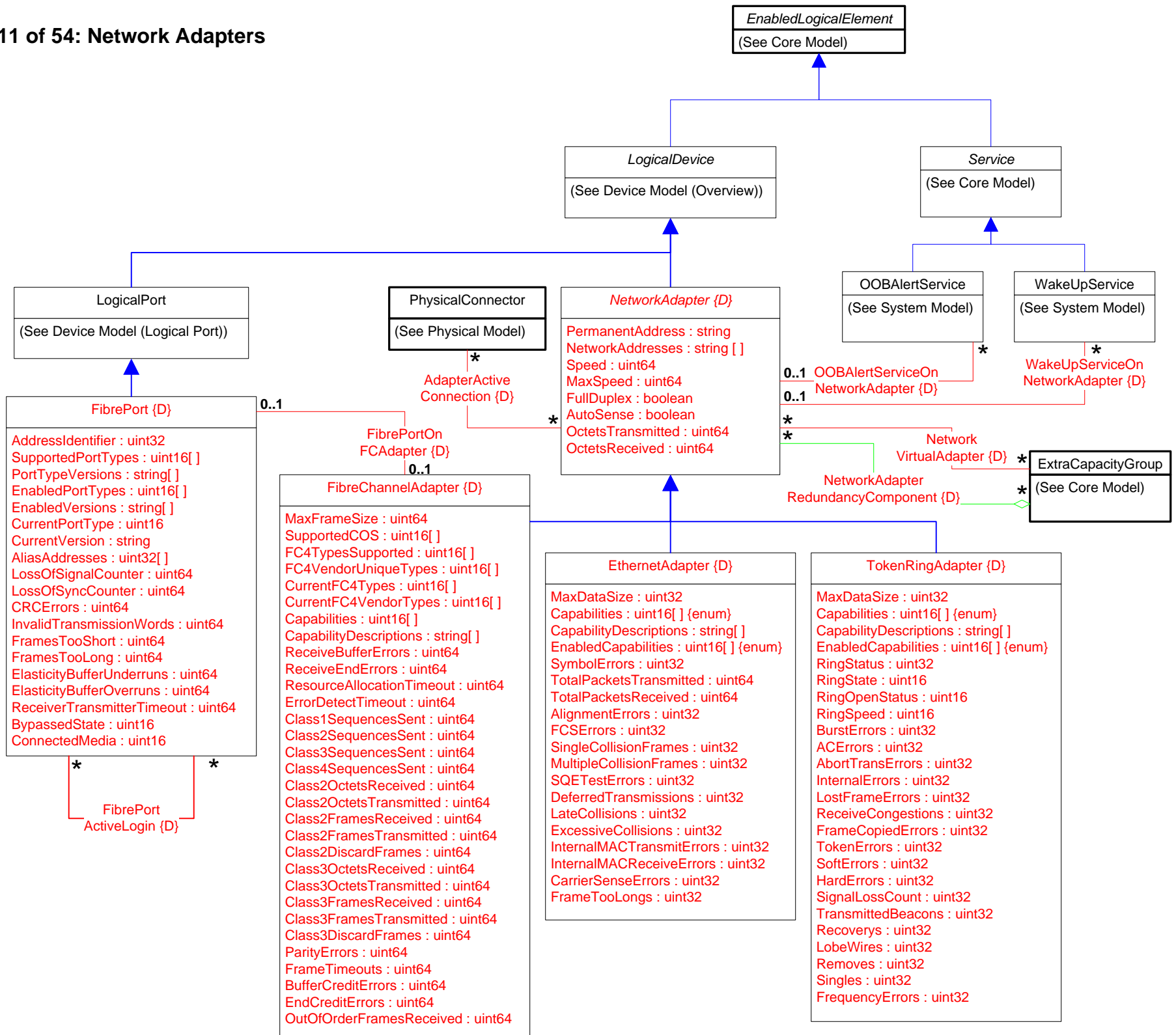
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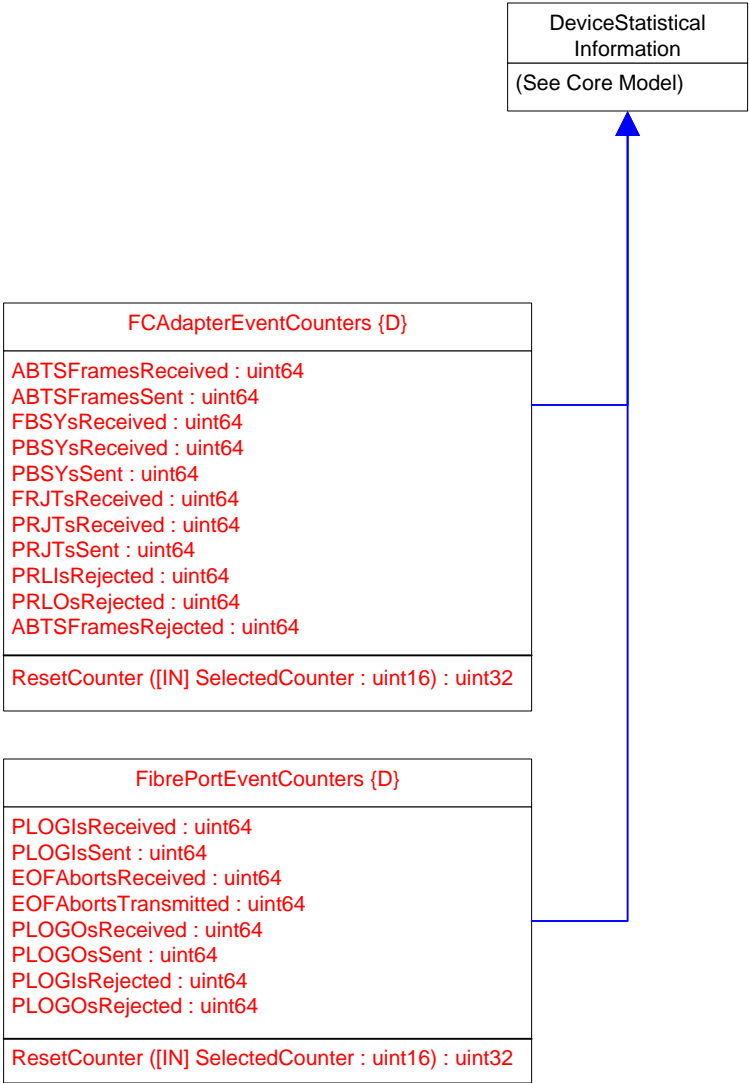











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ManagedElement
(See Core Model)

SettingDate
(See Core Model)

Capabilities
(See Core Model)

ManagedSystemElement
(See Core Model)

LogicalElement
(See Core Model)

EnabledLogicalElement
(See Core Model)

LogicalDevice
(See Device Model
(Overview))

LogicalPort
(See Device Model
(Logical Port))

Service
(See Core Model)

NetworkPort
(See Device Model
(Logical Port))

FibreProtocolService
(See Device Model
(FibreChannelService
and Zoning))

FCPort

SupportedCOS : uint16[] {enum}
ActiveCOS : uint16[] {enum}
SupportedFC4Types : uint16[] {enum}
ActiveFC4Types : uint16[] {enum}
DetailedPortState : uint16 {E, enum}
DomainPortNumber : uint16 {E}
LogicalModulePortNumber : uint16 {E}
PortAvailability : uint16 {E, enum}
PortNumber : uint16
PortType : uint16 {enum}
PortDiscriminator : uint16[] {enum}

ZoneCapabilities

ZoneNameMaxLen : uint32
ZoneNameFormat : uint16 {enum}
MaxNumZoneSets : uint32
MaxNumZone : uint32
MaxNumZoneMembers : uint32
MaxNumZonesPerZoneSet : uint32
MaxNumZoneAliases : uint32
OtherSupportedConnectivityMemberTypes : string[]
SupportedConnectivityMemberTypes : uint16[] {enum}

EnabledLogicalElementCapabilities
(See Core Model (Capabilities))

FCSwitchCapabilities

DomainIDConfigurable : boolean
MinDomainID : uint8
MaxDomainID : uint8
DomainIDLatchedSupported : boolean
PrincipalPrioritiesSupported : uint16[] {enum}
NPIVSupported : boolean {E}

FCPortCapabilities

RequestedTypesSupported[] : uint16 {enum}
MaxNPIVLogins : uint16 {E}
NPIVSupported : boolean {E}

FCSwitchSettings

PreferredDomainID : uint8
DomainIDLatched : boolean
PrincipalPriority : uint16 {enum}

FCPortSettings

RequestedType[] : uint16 {enum}

StatisticalData
(See Core Model)










FCPortRateStatistics

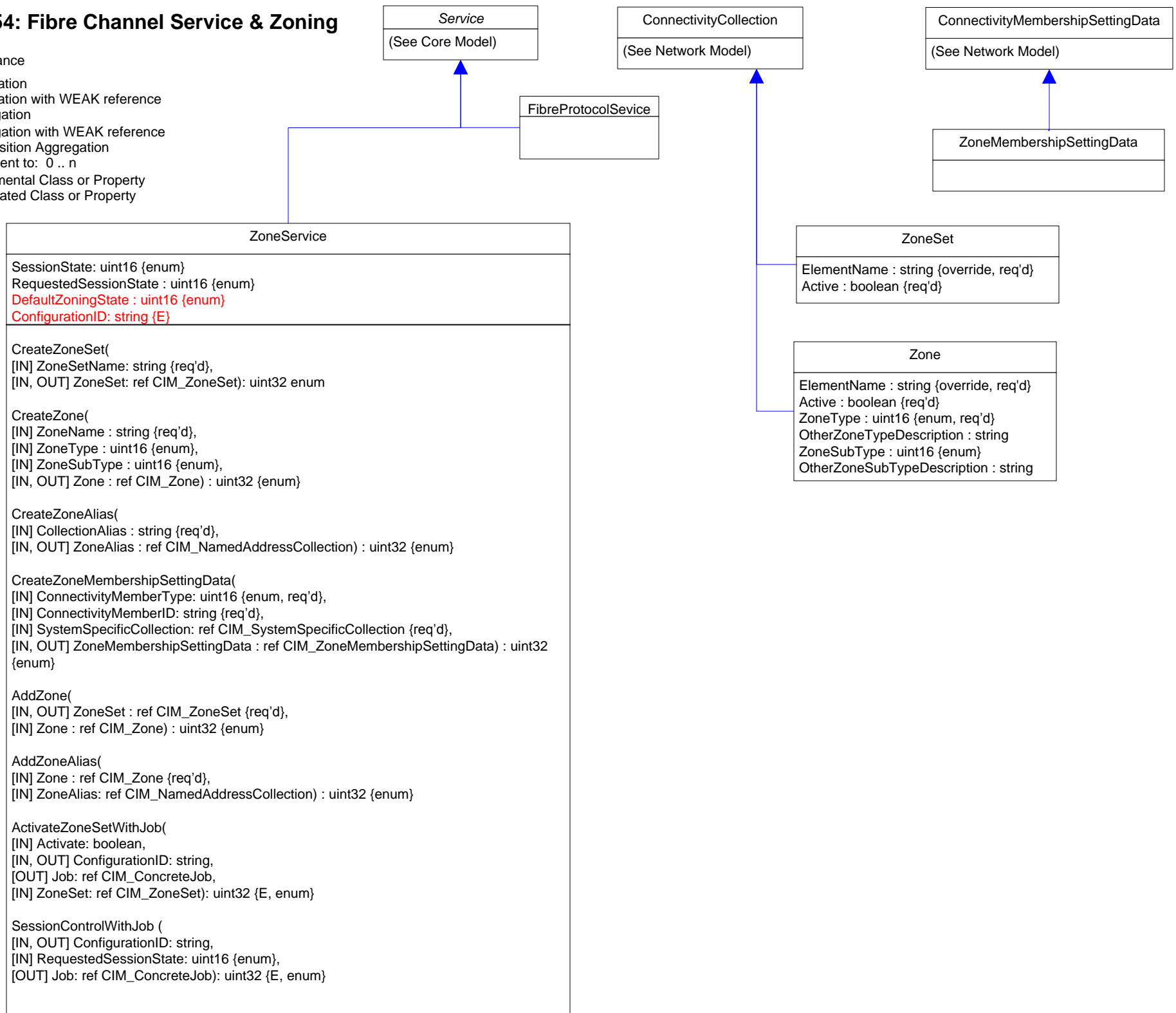
TxFrameRate : uint64
RxFrameRate : uint64
MaxTxFrameRate : uint64
MaxRxFrameRate : uint64
TxRate : uint64
RxRate : uint64
PeakTxRate : uint64
PeakRxRate : uint64










NetworkPortStatistics
(See Device Model
(Logical Port))

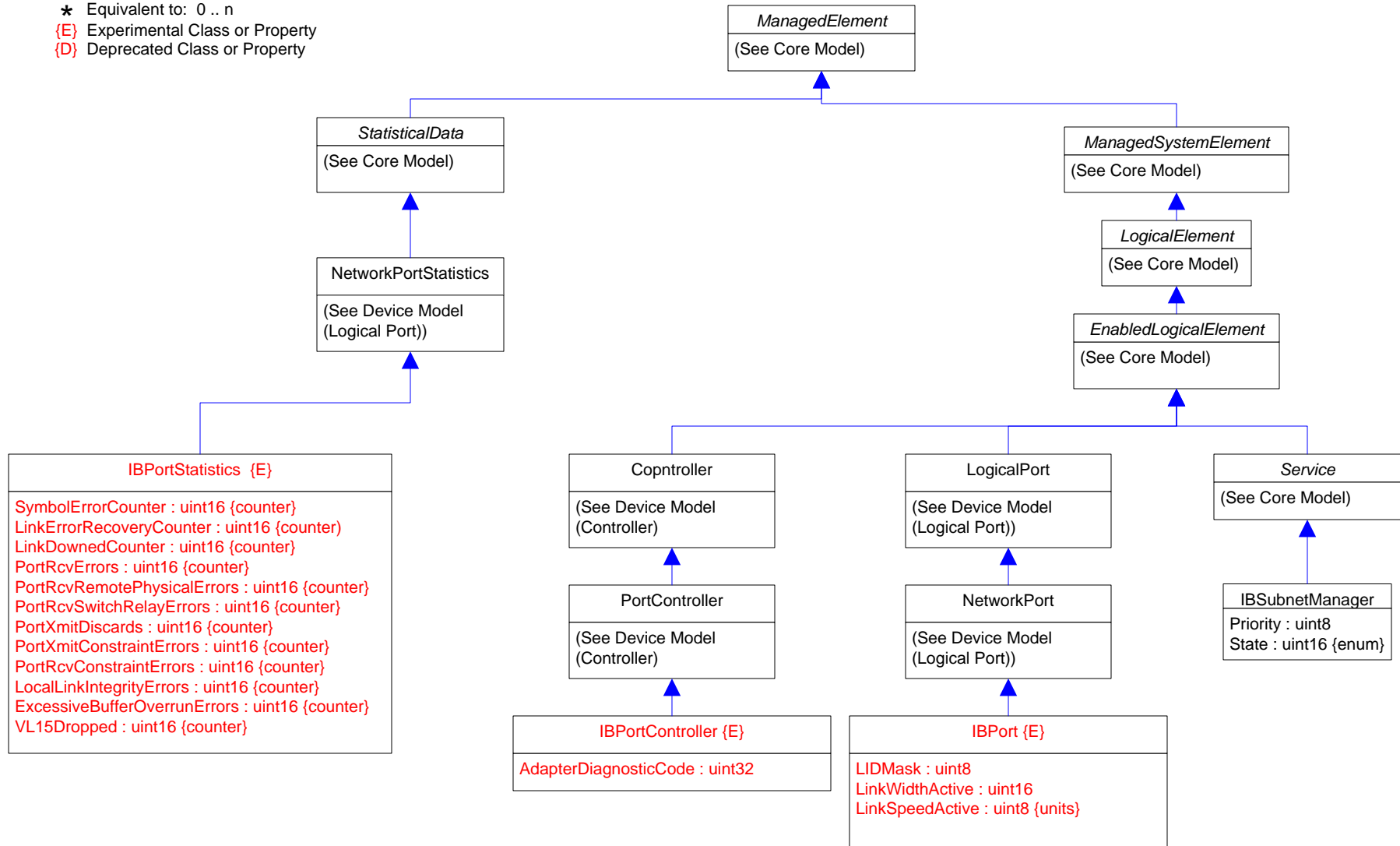
FCPortStatistics










LIPCount : uint64	FBSYFrames : uint64
NOSCount : uint64	PBSYFrames : uint64
ErrorFrames : uint64	FRJTFrames : uint64
DumpedFrames : uint64	PRJTFrames : uint64
LinkFailures : uint64	RXClass1Frames : uint64
LossOfSignalCounter : uint64	TXClass1Frames : uint64
LossOfSyncCounter : uint64	Class1FBSY : uint64
PrimitiveSeqProtocolErrCount : uint64	Class1PBSY : uint64
CRCErrors : uint64	Class1FRJT : uint64
InvalidTransmissionWords : uint64	Class1PRJT : uint64
FramesTooShort : uint64	RXClass2Frames : uint64
FramesTooLong : uint64	TXClass2Frames : uint64
AddressErrors : uint64	Class2FBSY : uint64
BufferCreditNotProvided : uint64	Class2PBSY : uint64
BufferCreditNotReceived : uint64	Class2FRJT : uint64
DelimiterErrors : uint64	Class2PRJT : uint64
EncodingDisparityErrors : uint64	RXClass3Frames : uint64
LinkResetsReceived : uint64	TXClass3Frames : uint64
LinkResetsTransmitted : uint64	Class3FramesDiscarded : uint64
MulticastFramesReceived : uint64	RXBroadcastFrames : uint64
MulticastFramesTransmitted : uint64	TXBroadcastFrames : uint64

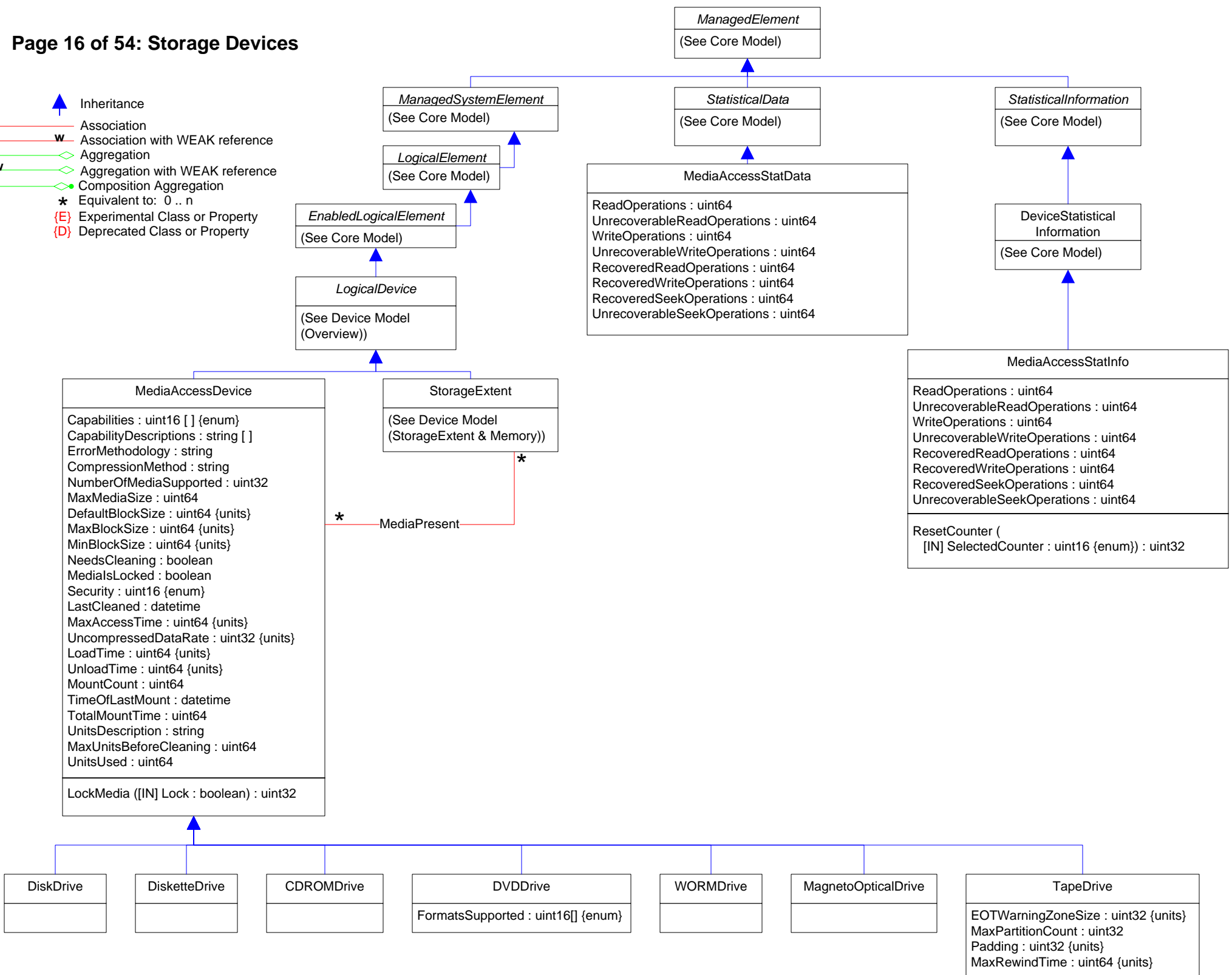
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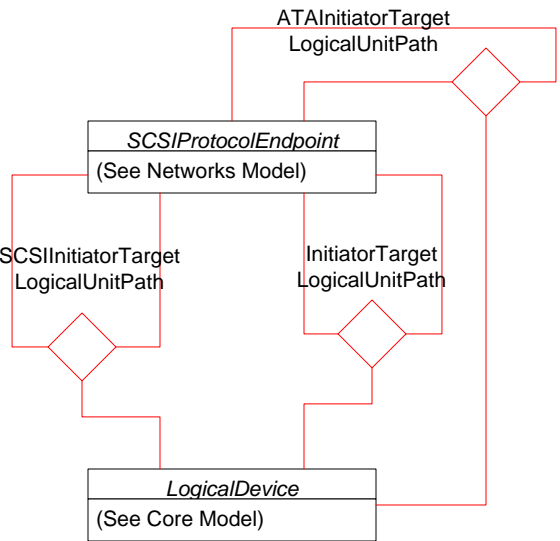
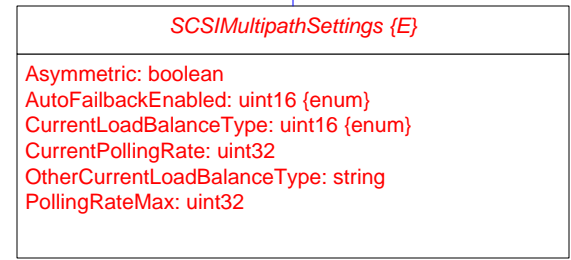
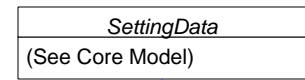
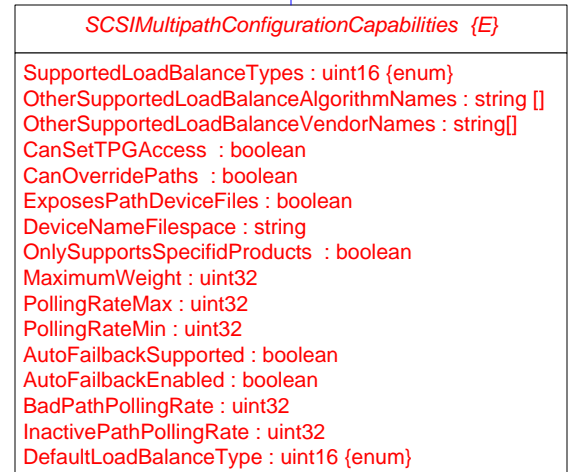
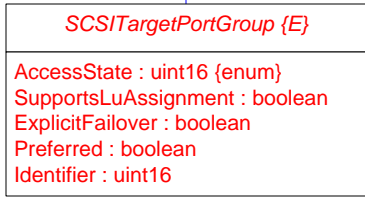
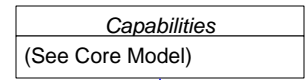
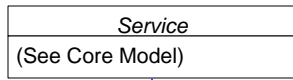
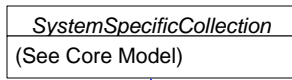


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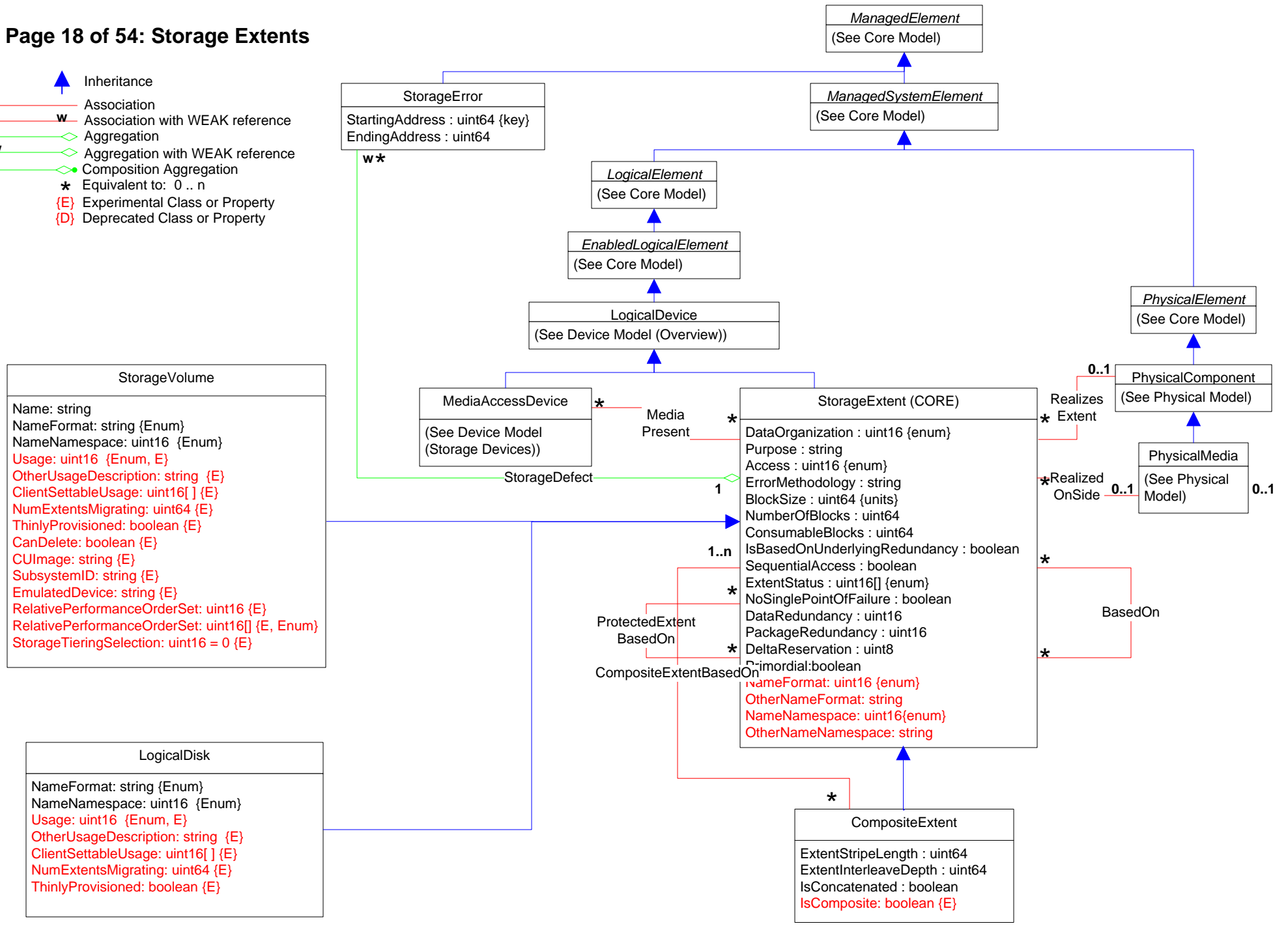
Page 17 of 54: Storage Multipath

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Page 18 of 54: Storage Extents

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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)

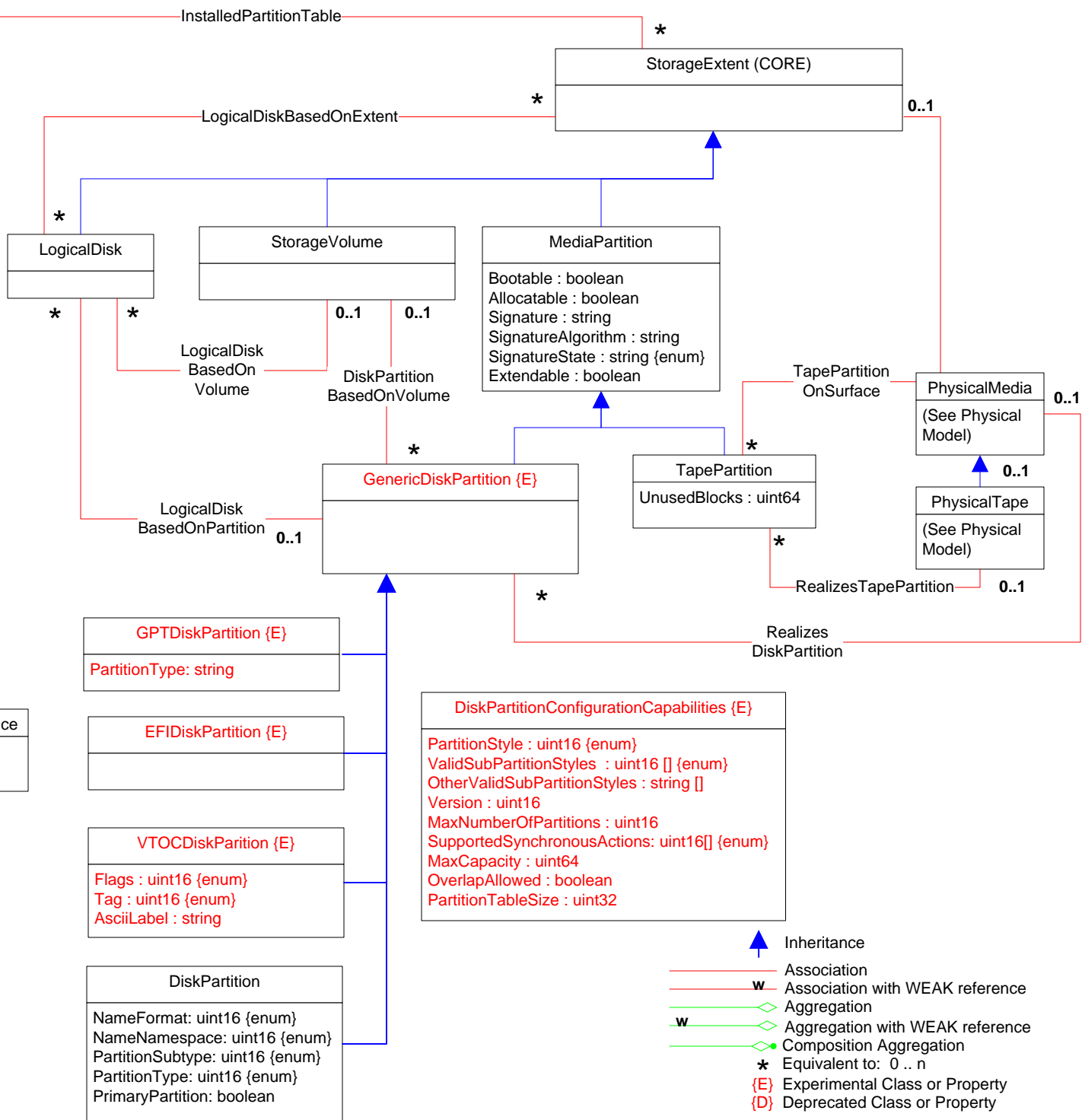
StorageElementCompositionService

DiskPartitionConfigurationService {E}










PartitioningSchemes : uint16 {enum}

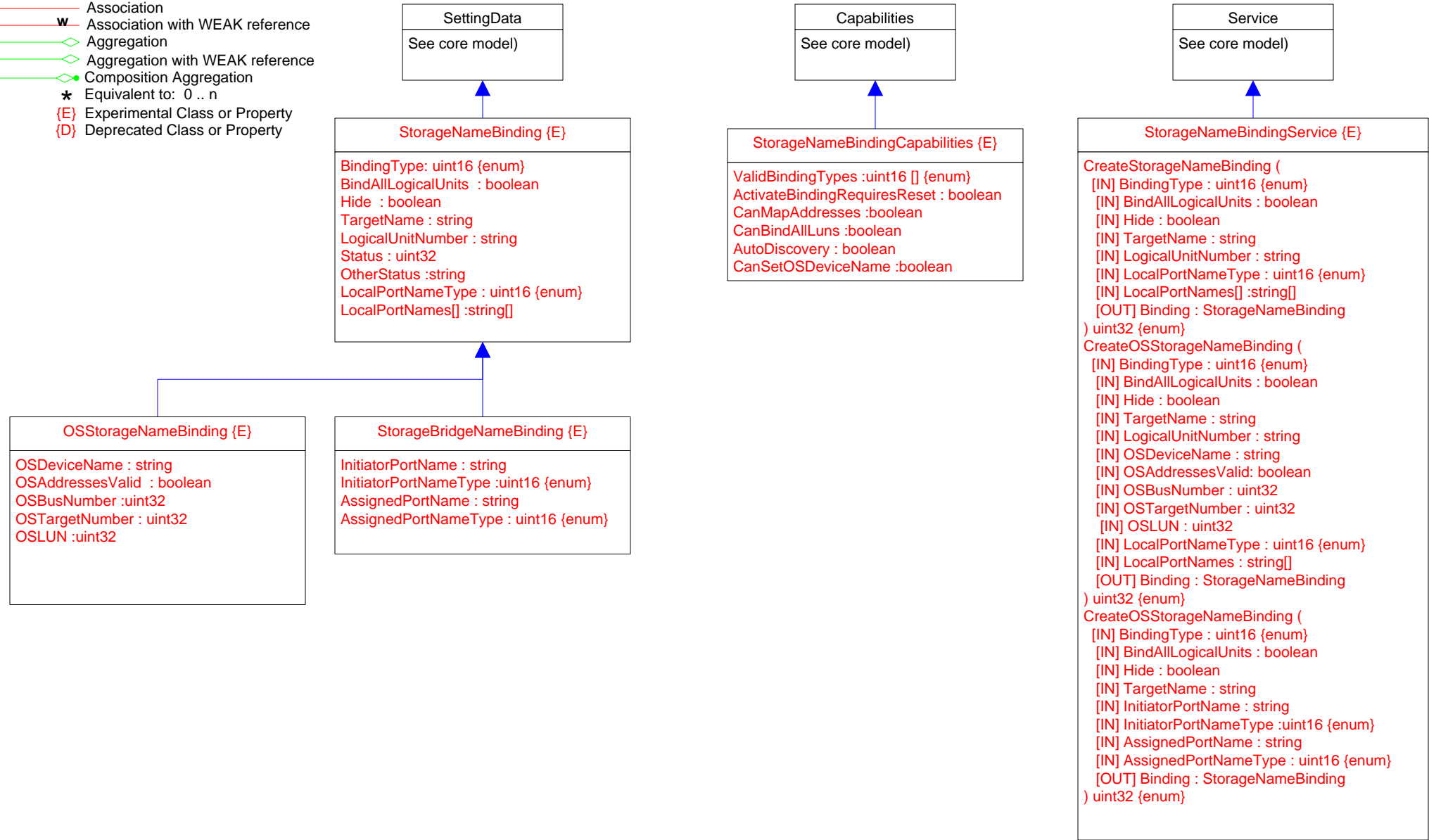
SetPartitionStyle ([IN] Extent : ref StorageExtent [IN] PartitionStyle : ref DiskPartitionConfigurationCapabilities) : uint32 {enum}

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

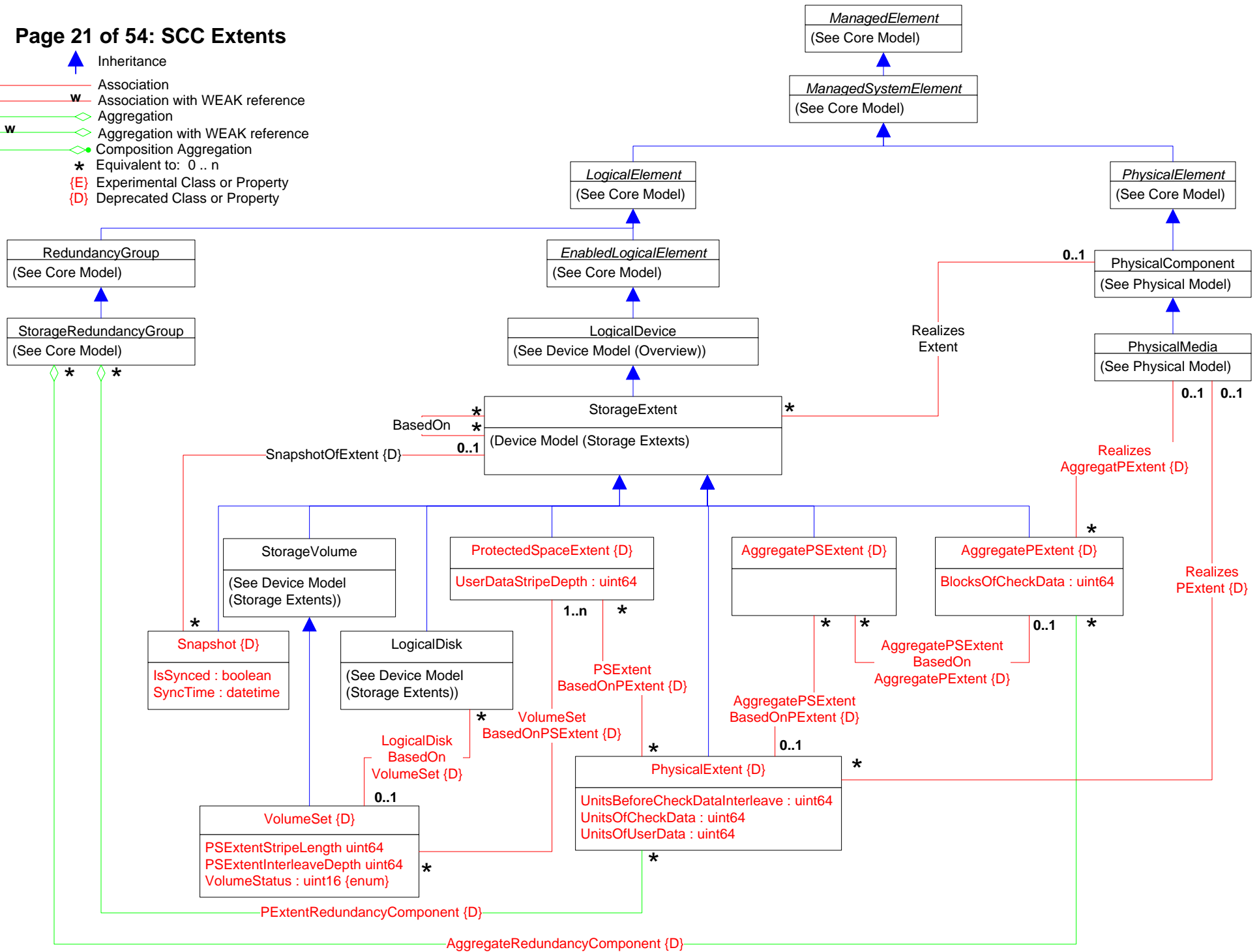


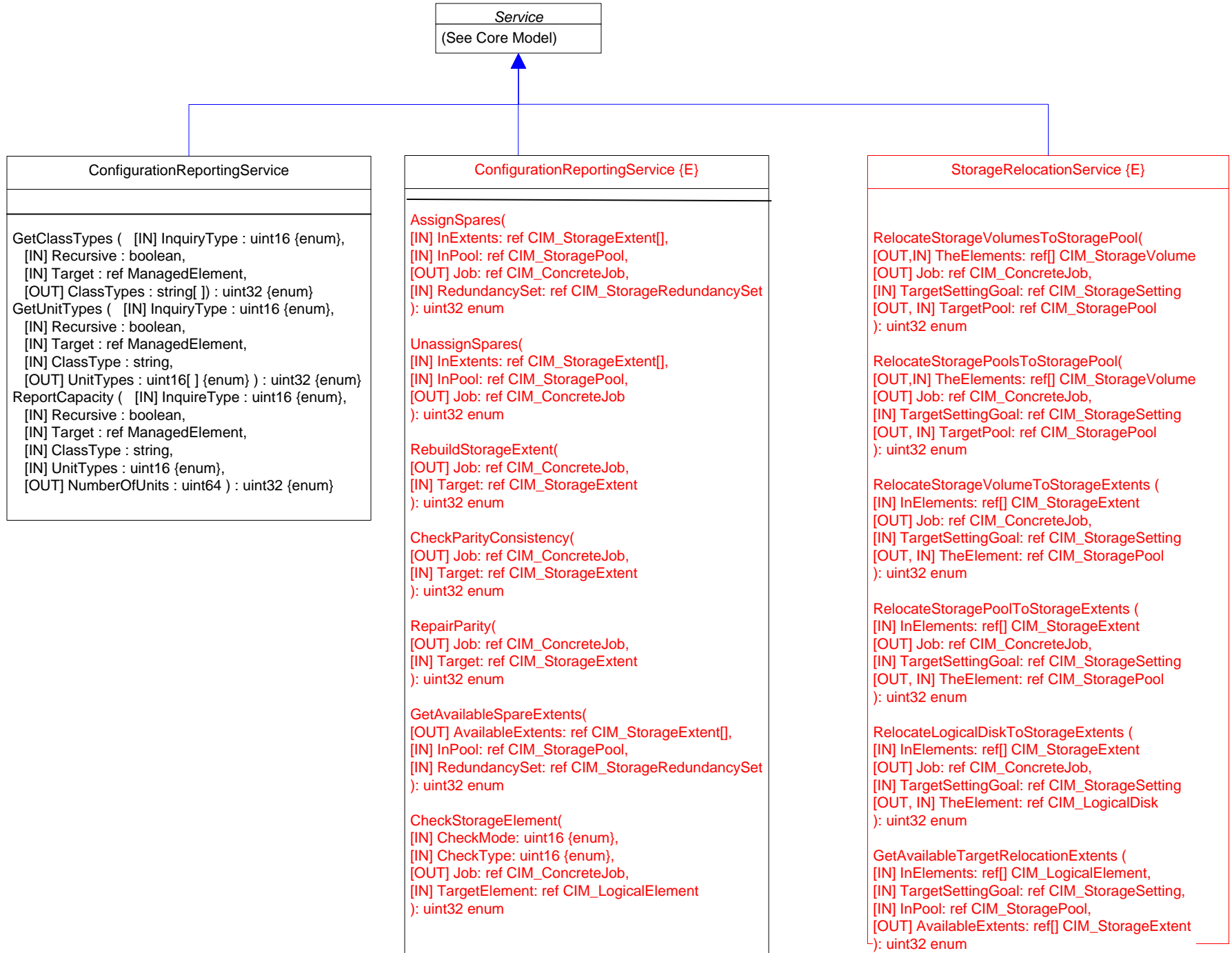
Page 20 of 54: StorageNameBinding

-  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



- 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





Service
(See Core Model)



StorageRelocationService {E}

RelocateStorageVolumesToStoragePool(
[OUT,IN] TheElements: ref[] CIM_StorageVolume
[OUT] Job: ref CIM_ConcreteJob,
[IN] TargetSettingGoal: ref CIM_StorageSetting
[OUT, IN] TargetPool: ref CIM_StoragePool
): uint32 enum

RelocateStoragePoolsToStoragePool(
[OUT,IN] TheElements: ref[] CIM_StorageVolume
[OUT] Job: ref CIM_ConcreteJob,
[IN] TargetSettingGoal: ref CIM_StorageSetting
[OUT, IN] TargetPool: ref CIM_StoragePool
): uint32 enum

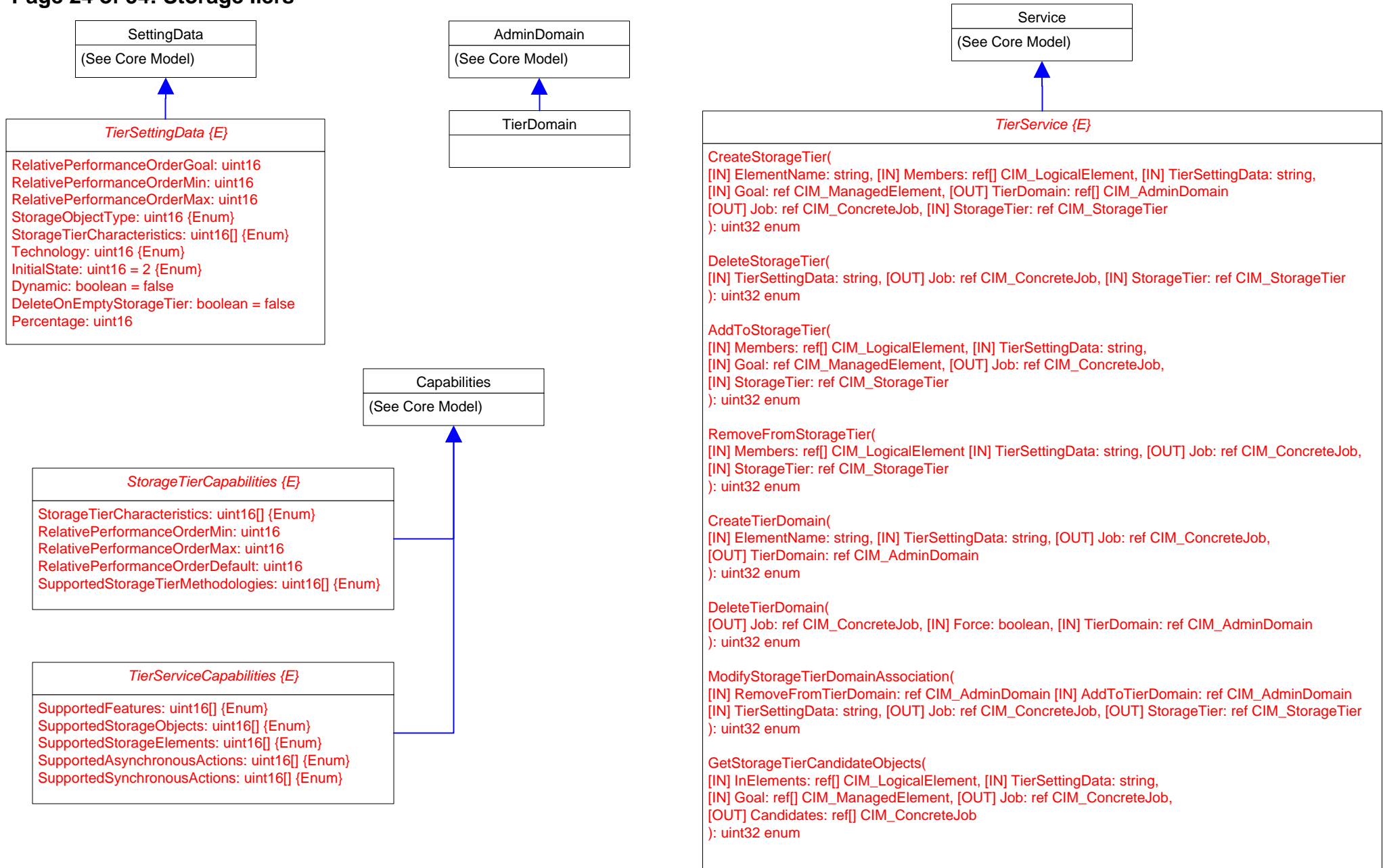
RelocateStorageVolumeToStorageExtents (
[IN] InElements: ref[] CIM_StorageExtent
[OUT] Job: ref CIM_ConcreteJob,
[IN] TargetSettingGoal: ref CIM_StorageSetting
[OUT, IN] TheElement: ref CIM_StoragePool
): uint32 enum

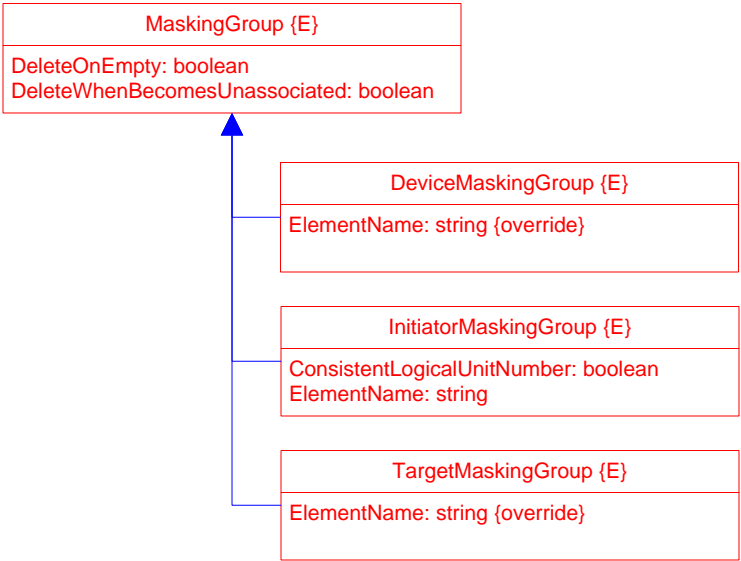
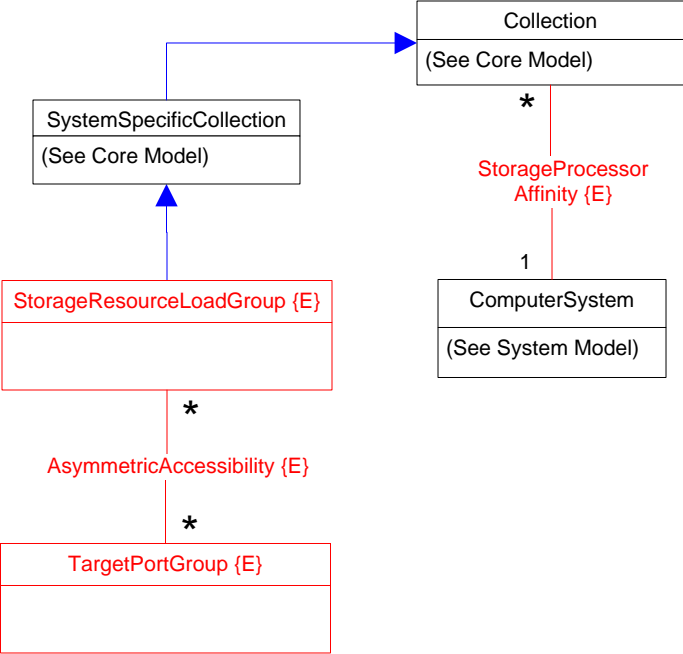
RelocateStoragePoolToStorageExtents (
[IN] InElements: ref[] CIM_StorageExtent
[OUT] Job: ref CIM_ConcreteJob,
[IN] TargetSettingGoal: ref CIM_StorageSetting
[OUT, IN] TheElement: ref CIM_StoragePool
): uint32 enum

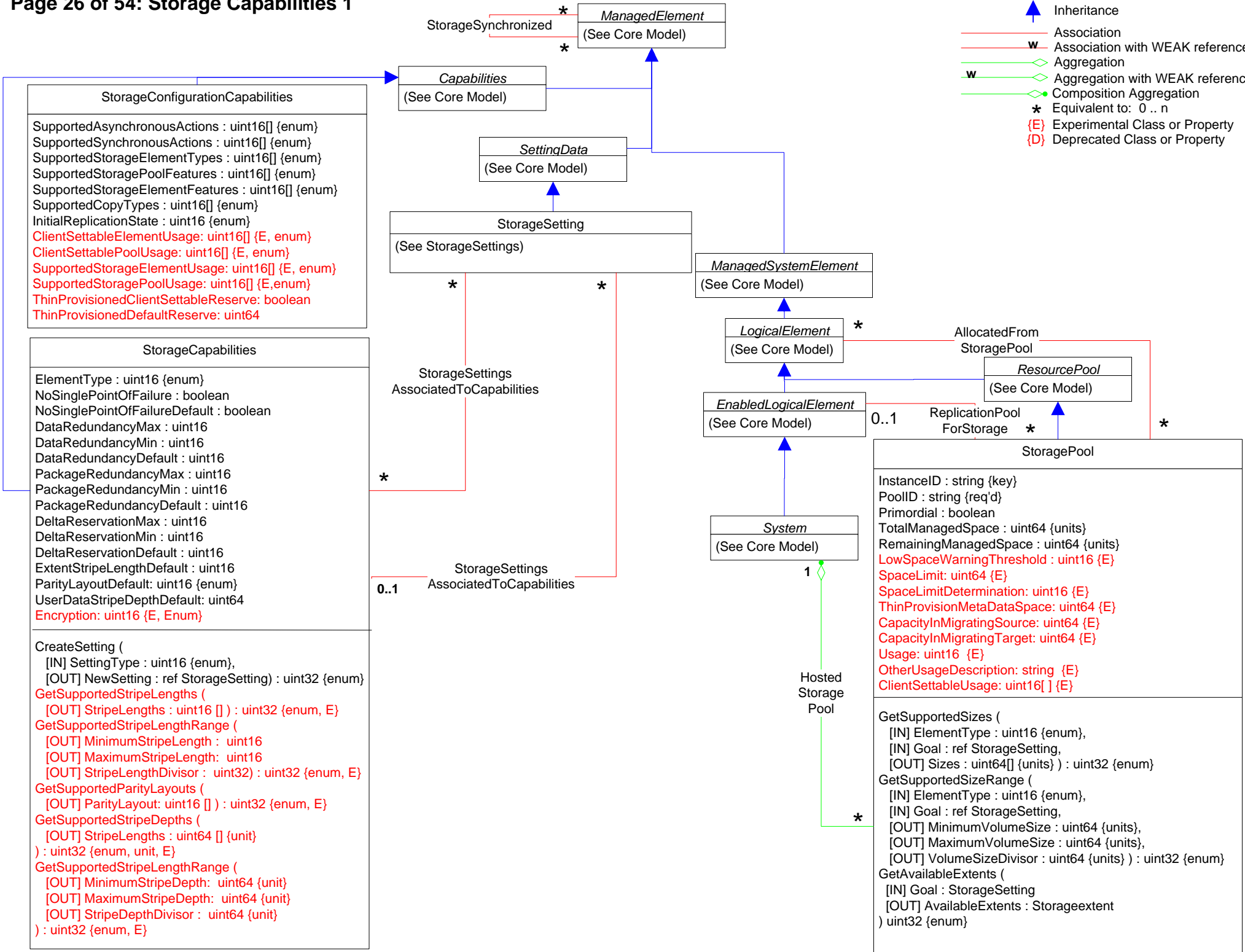
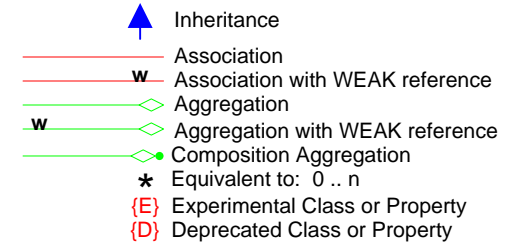
RelocateLogicalDiskToStorageExtents (
[IN] InElements: ref[] CIM_StorageExtent
[OUT] Job: ref CIM_ConcreteJob,
[IN] TargetSettingGoal: ref CIM_StorageSetting
[OUT, IN] TheElement: ref CIM_LogicalDisk
): uint32 enum

GetAvailableTargetRelocationExtents (
[IN] InElements: ref[] CIM_LogicalElement,
[IN] TargetSettingGoal: ref CIM_StorageSetting,
[IN] InPool: ref CIM_StoragePool,
[OUT] AvailableExtents: ref[] CIM_StorageExtent
): uint32 enum

Page 24 of 54: Storage tiers





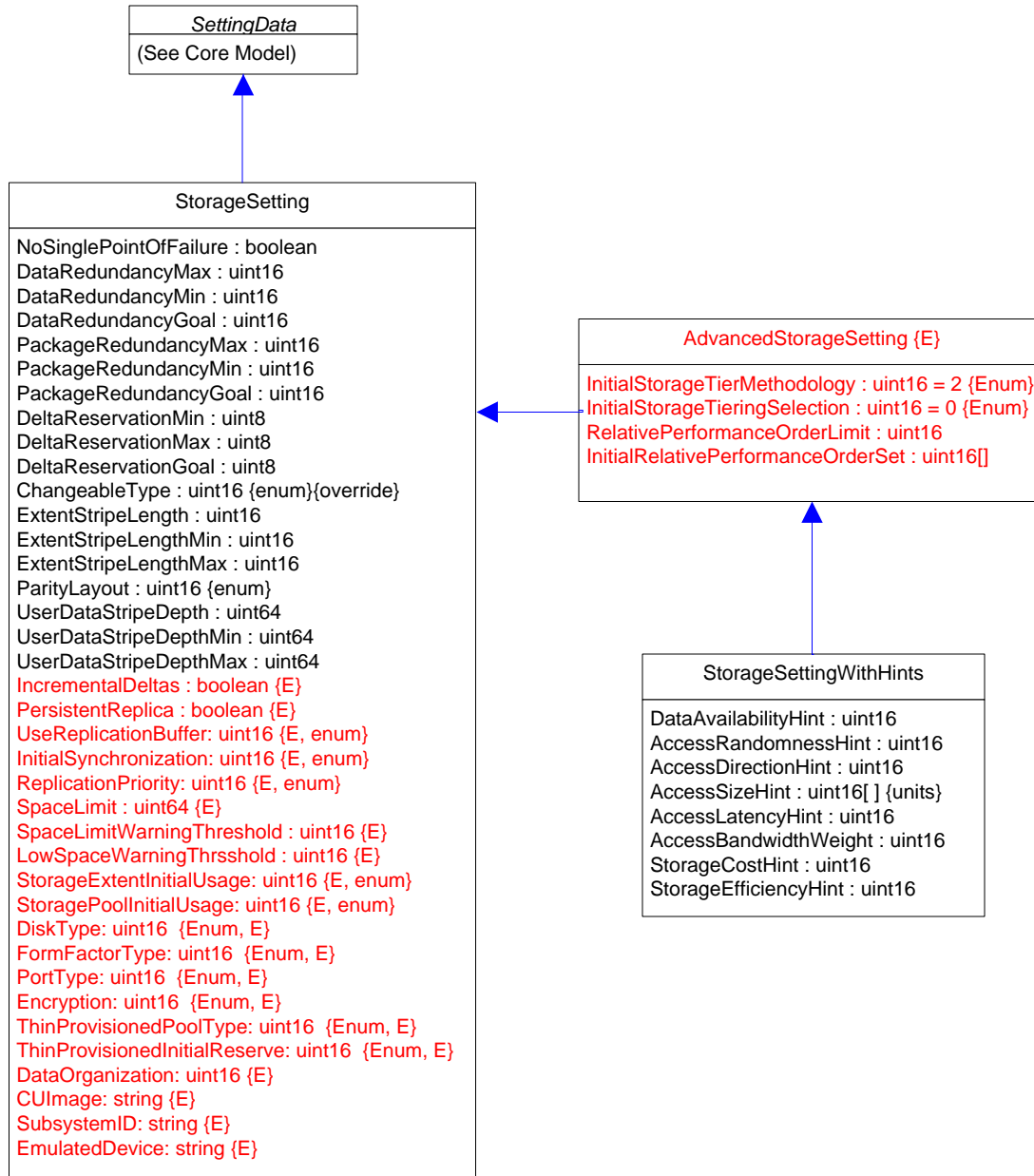











<i>Capabilities</i>
(See Core Model)

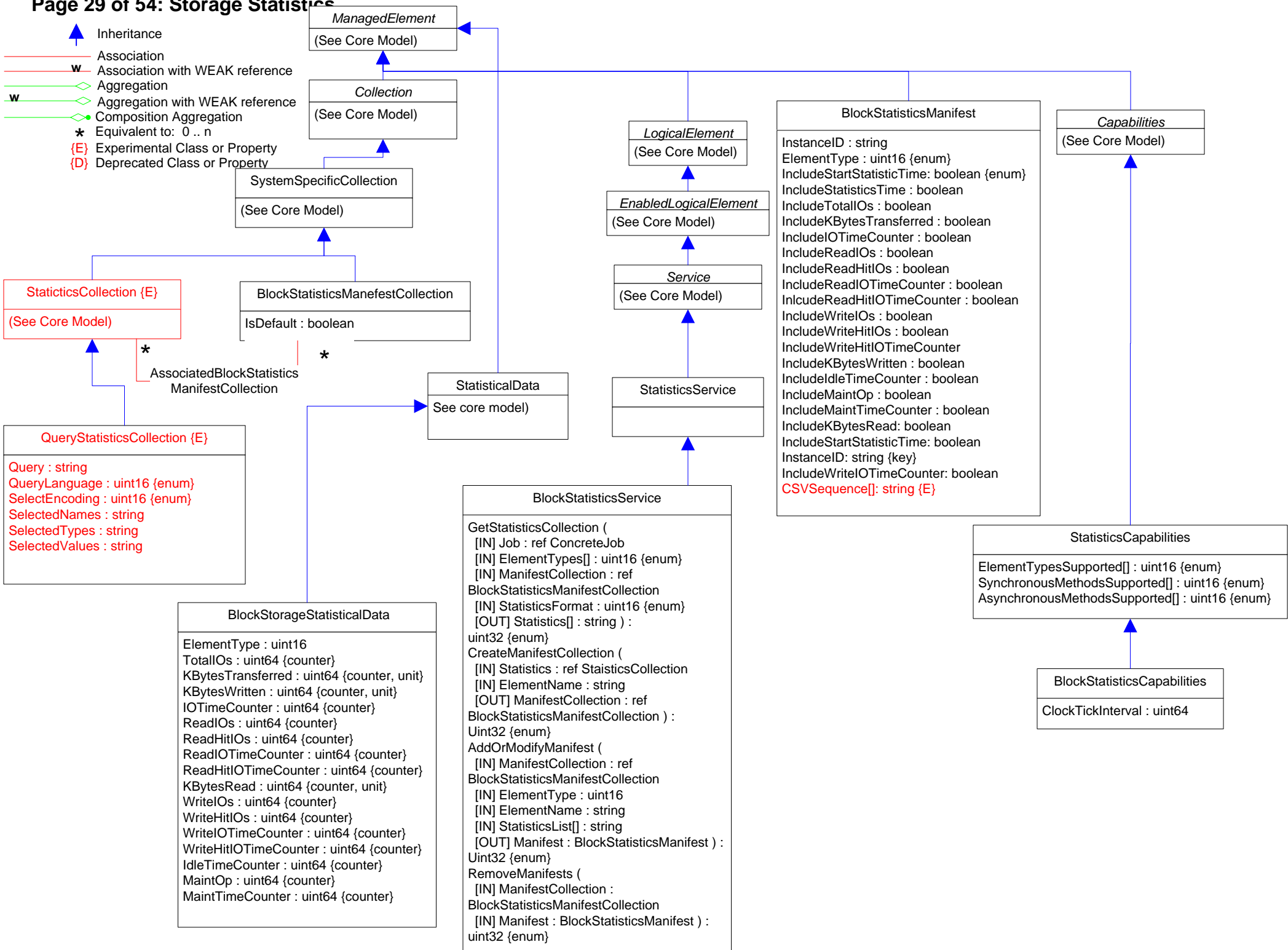
StorageReplicationCapabilities
SupportedSynchronizationType : uint16[] {enum}
SupportedAsynchronousActions[] : uint16[] {enum}
SupportedSynchronousActions : uint16[] {enum}
InitialReplicationState : uint16 {enum}
SupportedSpecializedElements[] : uint16 {enum}
SupportedModifyOperations[] : uint16 {enum}
ReplicationHostAccessibility : uint16 {enum}
HostAccessibleState[] : uint16 {enum}
SpaceLimitSupported : boolean
SpaceReservationSupported : boolean
LocalMirrorSnapshotSupported : boolean
RemoteMirrorSnapshotSupported : boolean
IncrementalDeltasSupported: boolean
PersistentReplicasSupported: boolean
BidirectionalConnectionsSupported: boolean
MaximumReplicasPerSource: uint16
MaximumPortsPerConnection: uint16
MaximumConnectionsPerPort: uint16
MaximumPeerConnections: uint16
MaximumLocalReplicationDepth: uint16
InitialSynchronizationDefault: uint16 {enum}
ReplicationPriorityDefault: uint16 {enum}
LowSpaceWarningThresholdDefault : uint8
SpaceLimitWarningThresholdDefault : uint8
RemoteReplicationServicePointAccess : uint16 {enum}
AlternateRemoteReplicationServicePointAccess : uint16 {enum}
DeltaReplicaPoolAccess : uint16 {enum}
RemoteBufferElementType : uint16 {enum}
RemoteBufferHost : uint16 {enum}
RemoteBufferLocation : uint16 {enum}
RemoteBufferSupported : uint16 {enum}
UseReplicationBufferDefault : uint16 {enum}
PeerConnectionProtocol : string

StorageServerAsymmetryCapabilities {E}
StorageResourceSymmetryCapability: uint16[{enum}
StorageResourceType: uint16[{enum}
StorageResourceAffinityAssignable: boolean
PortGroupFailoverBehavior: uint16[{enum}
TargetPortSymmetryCapability: uint16[{enum}

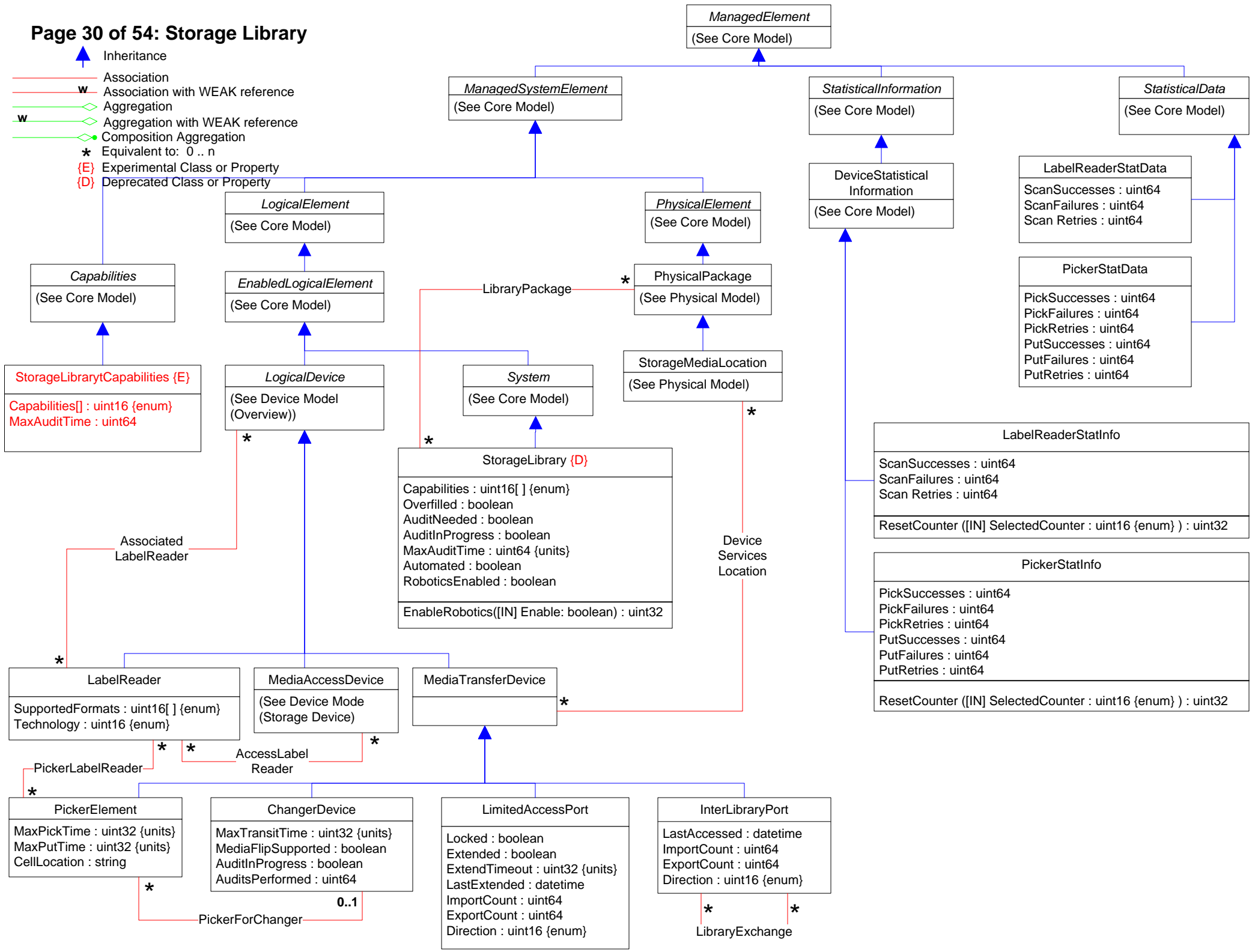
SpareConfigurationCapabilities
AutomaticFailOver: boolean
MaximumSpareStorageExtents: uint32
SystemConfiguredSpares: boolean
SupportedAsynchronousActions: uint16[] {enum}
SupportedStorageElementCheck: uint16[] {enum}
SupportedSynchronousActions: uint16[] {enum}

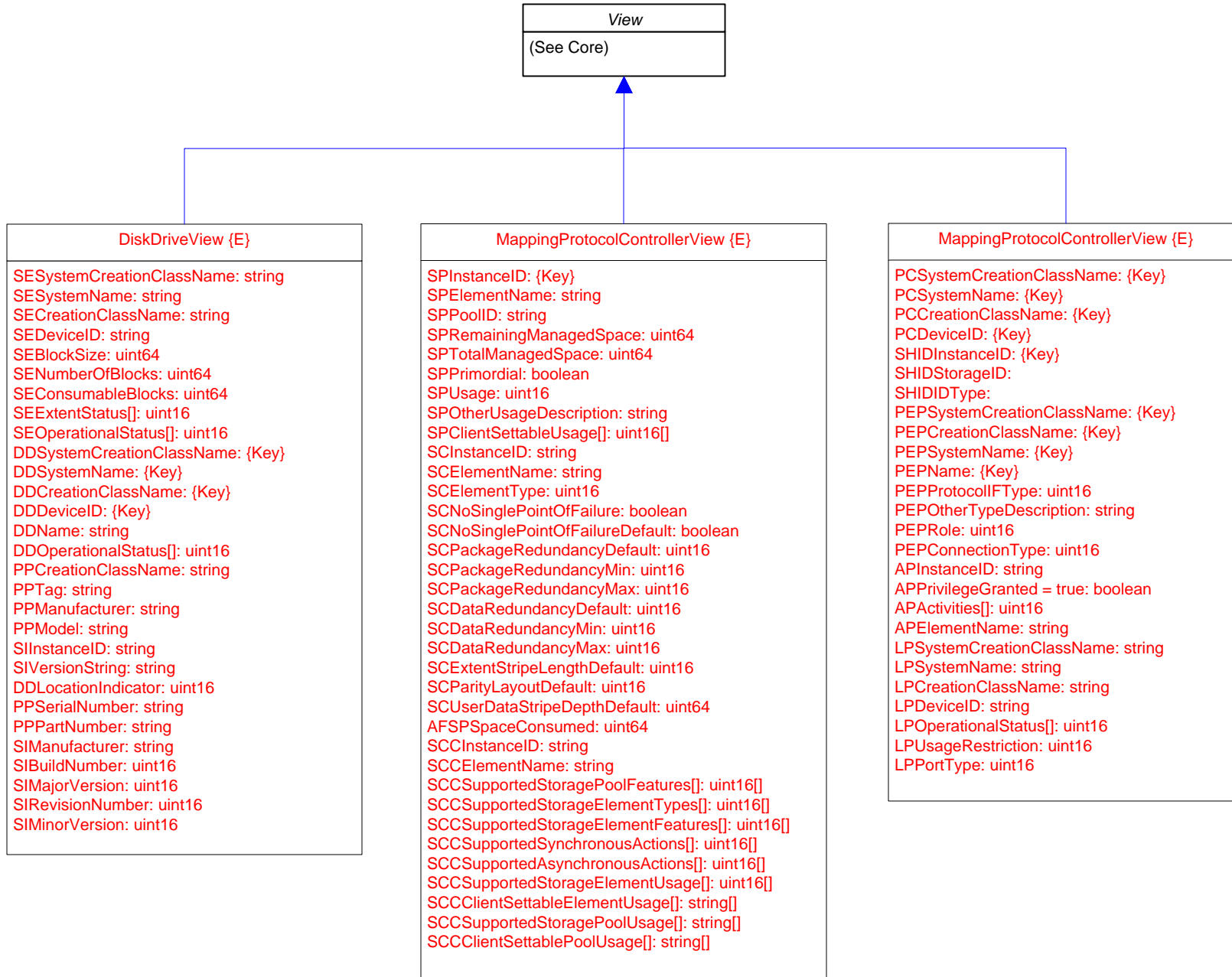


-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n
-  Experimental Class or Property
-  Deprecated Class or Property

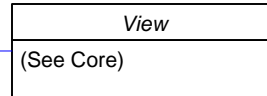


- ⬆ Inheritance
- Association
- w Association with WEAK reference
- ◊ Aggregation
- w Aggregation with WEAK reference
- ◊ Composition Aggregation
- * Equivalent to: 0 .. n
- {E} Experimental Class or Property
- {D} Deprecated Class or Property





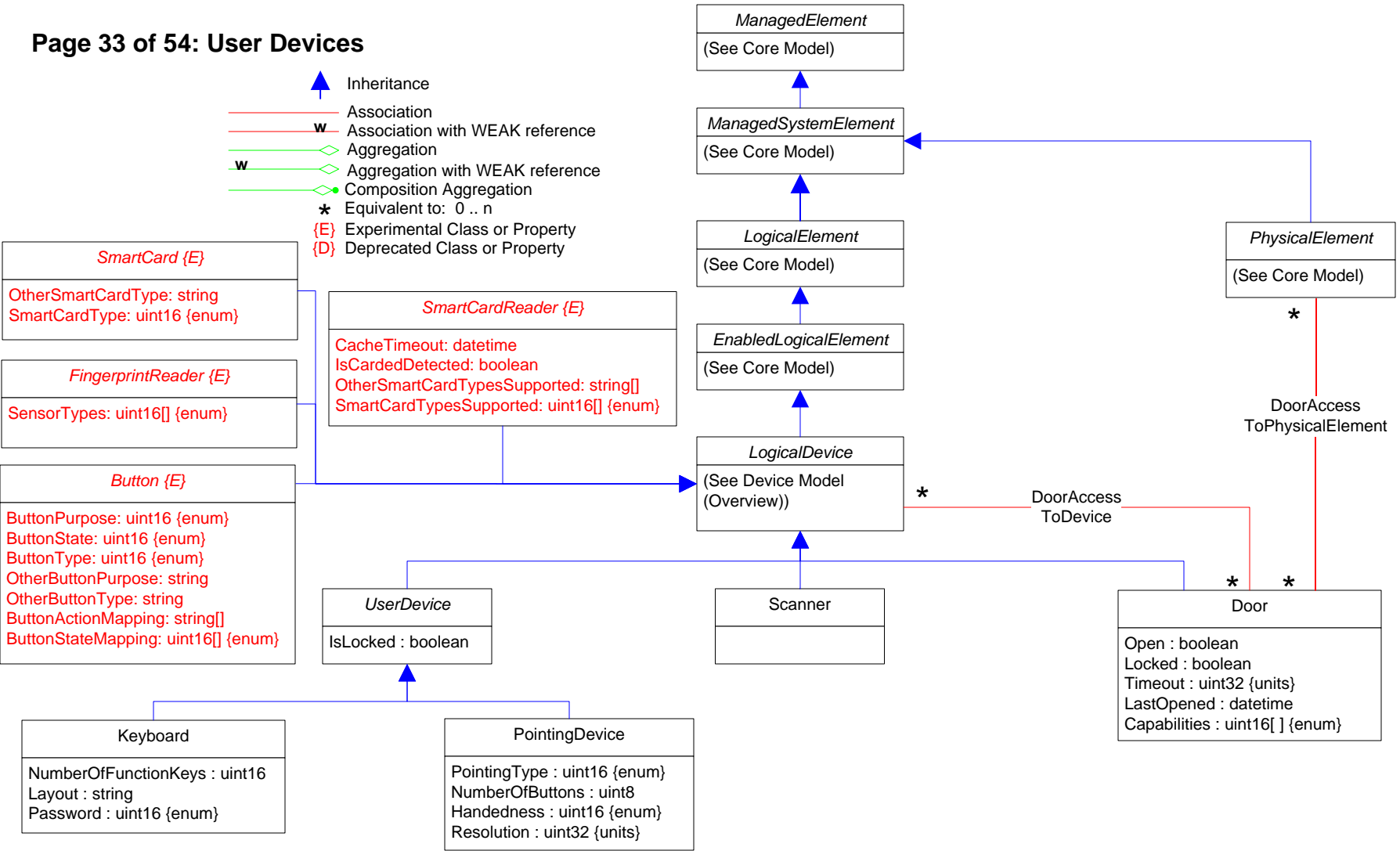
VolumeView {E}
SVSystemCreationClassName: {Key}
SVSystemName: {Key}
SVCreationClassName: {Key}
SVDeviceID: {Key}
SVName: string
SVNameFormat: uint16
SVNameNamespace: uint16
SVExtentStatus[]: uint16
SVOperationalStatus[]: uint16
SVBlockSize: uint64
SVNumberOfBlocks: uint64
SVConsumableBlocks: uint64
SVIsBasedOnUnderlyingRedundancy: 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






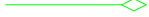
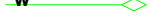


ReplicaPairView {E}
SVSourceSystemCreationClassName: string
SVSourceSystemName: string
SVSourceCreationClassName: string
SVSourceDeviceID: string
SVSourceName: string
SVSourceNameFormat: uint16
SVSourceNameNamespace: uint16
SVSourceExtentStatus: uint16[]
SVSourceOperationalStatus: uint16[]
SVSourceBlockSize: 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[]

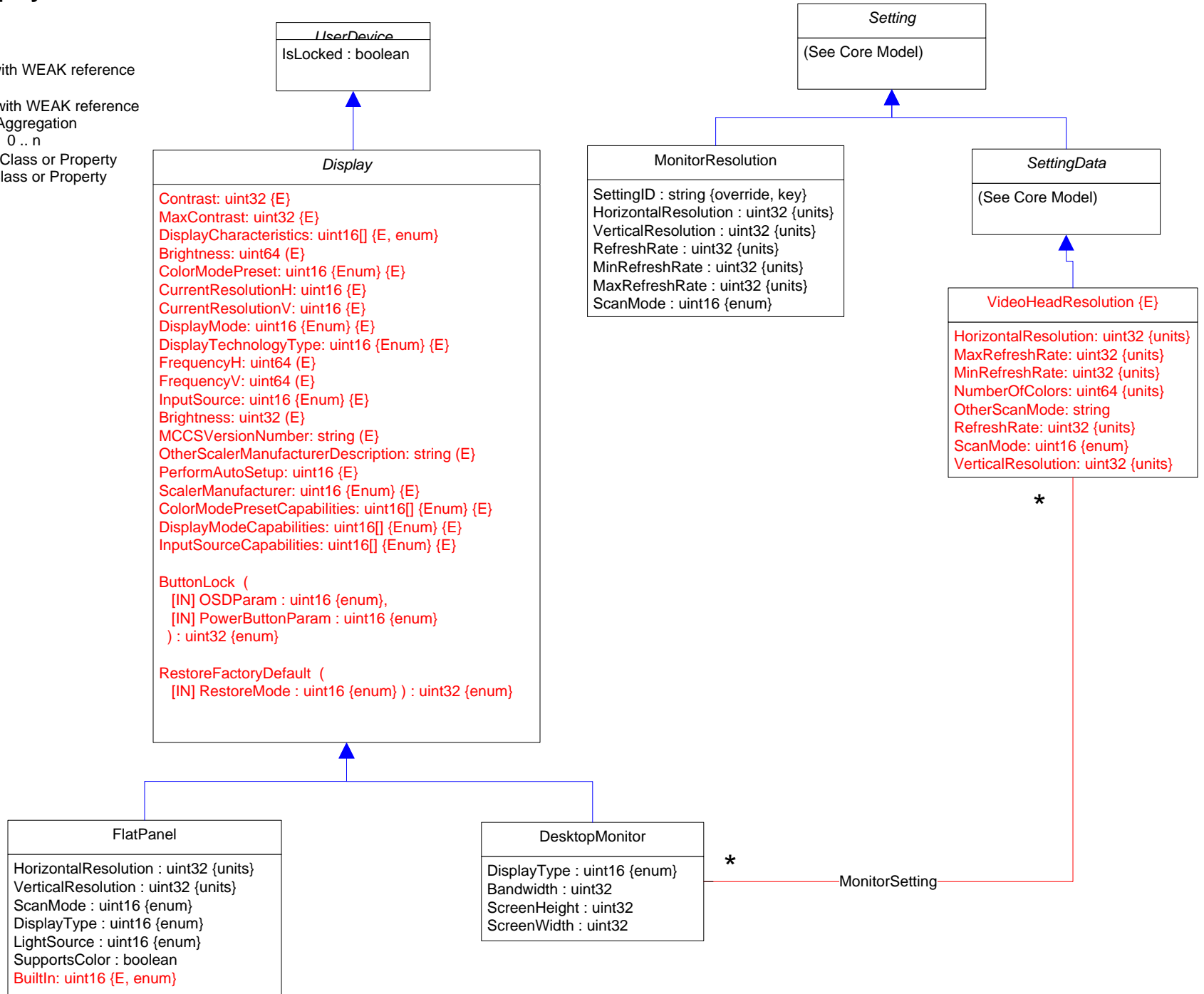
Page 33 of 54: User Devices










- 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

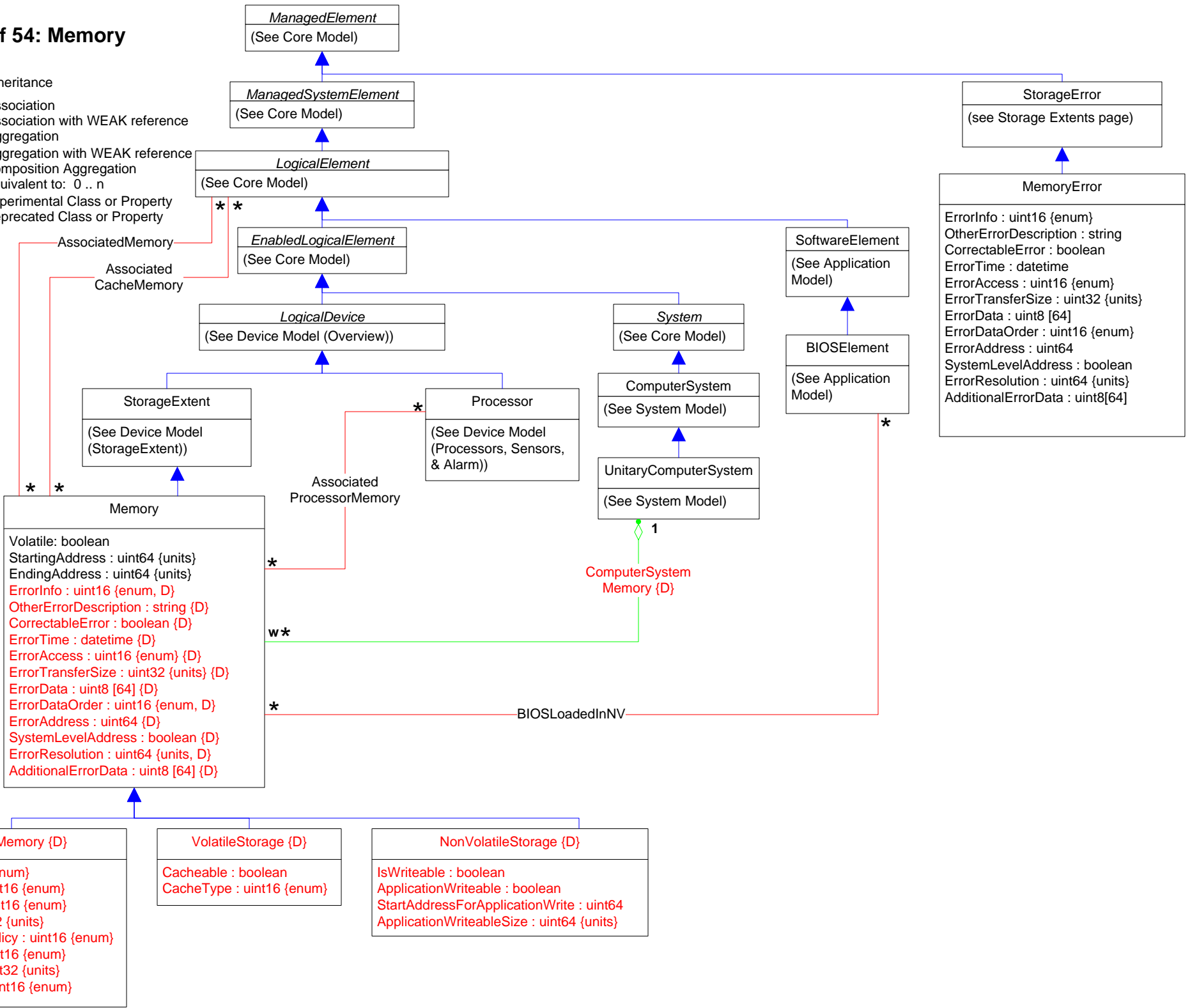











Page 34 of 54: Displays

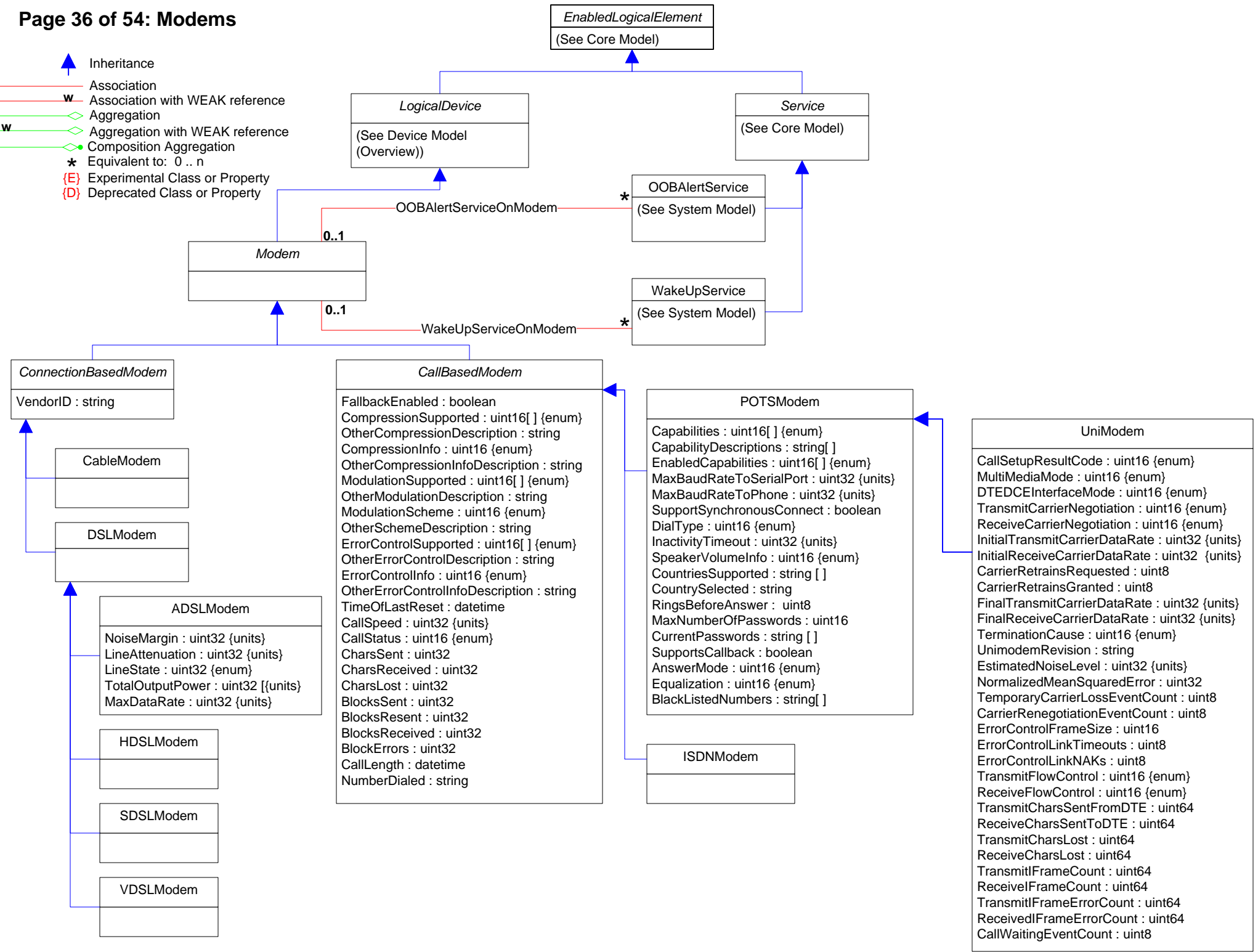
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n
- {E} Experimental Class or Property
- {D} Deprecated Class or Property

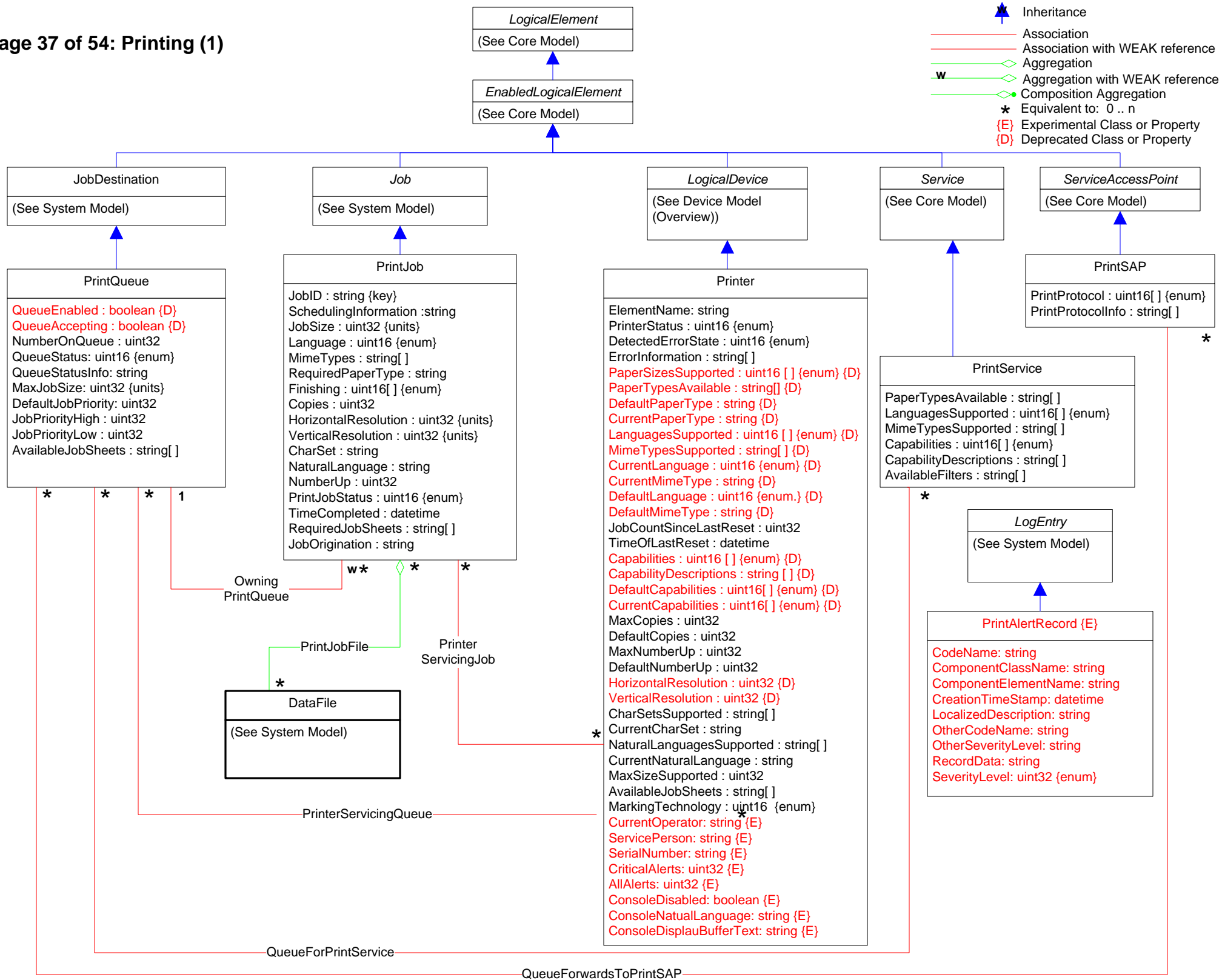


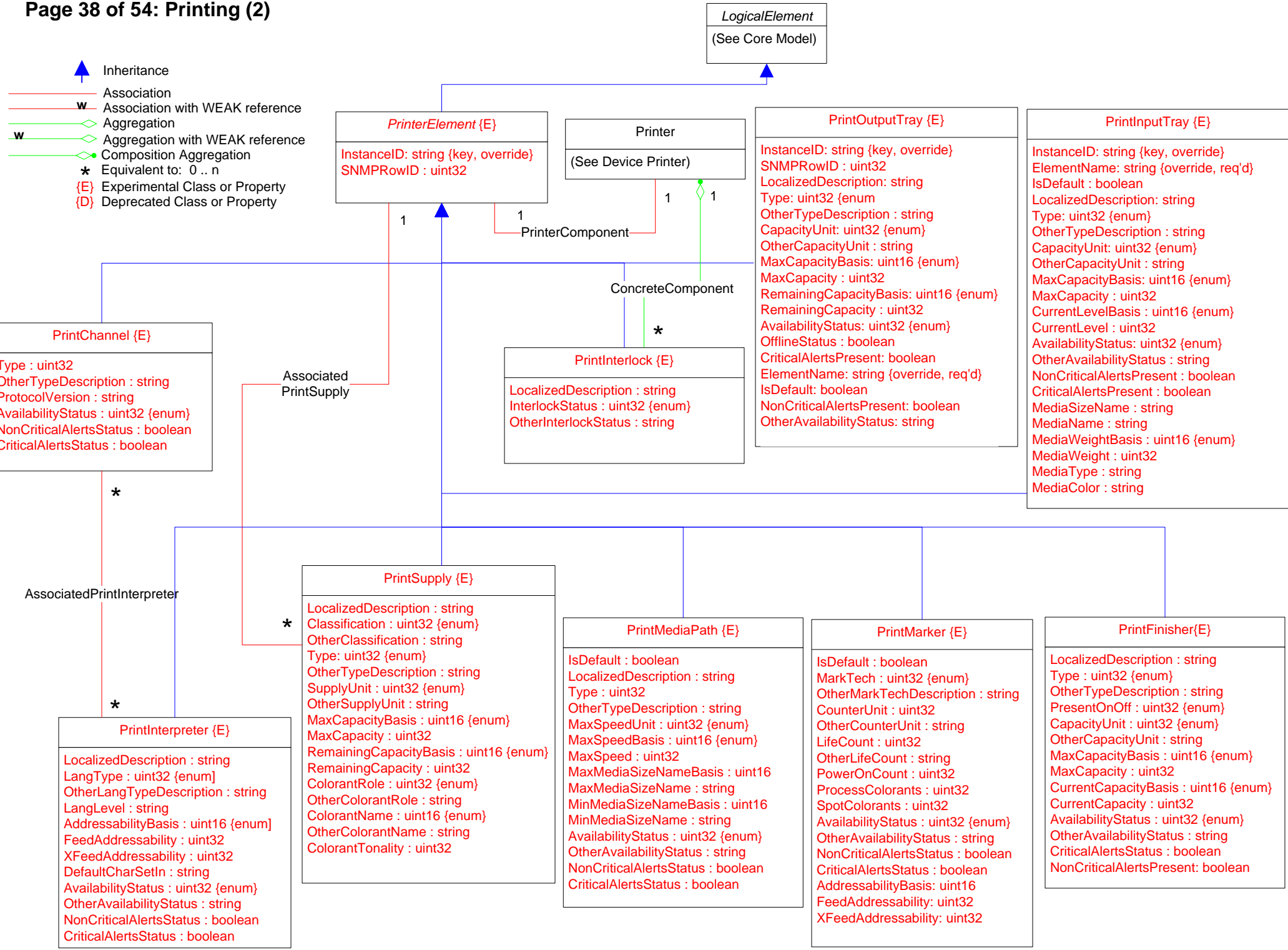
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  {E} Experimental Class or Property
-  {D} Deprecated Class or Property












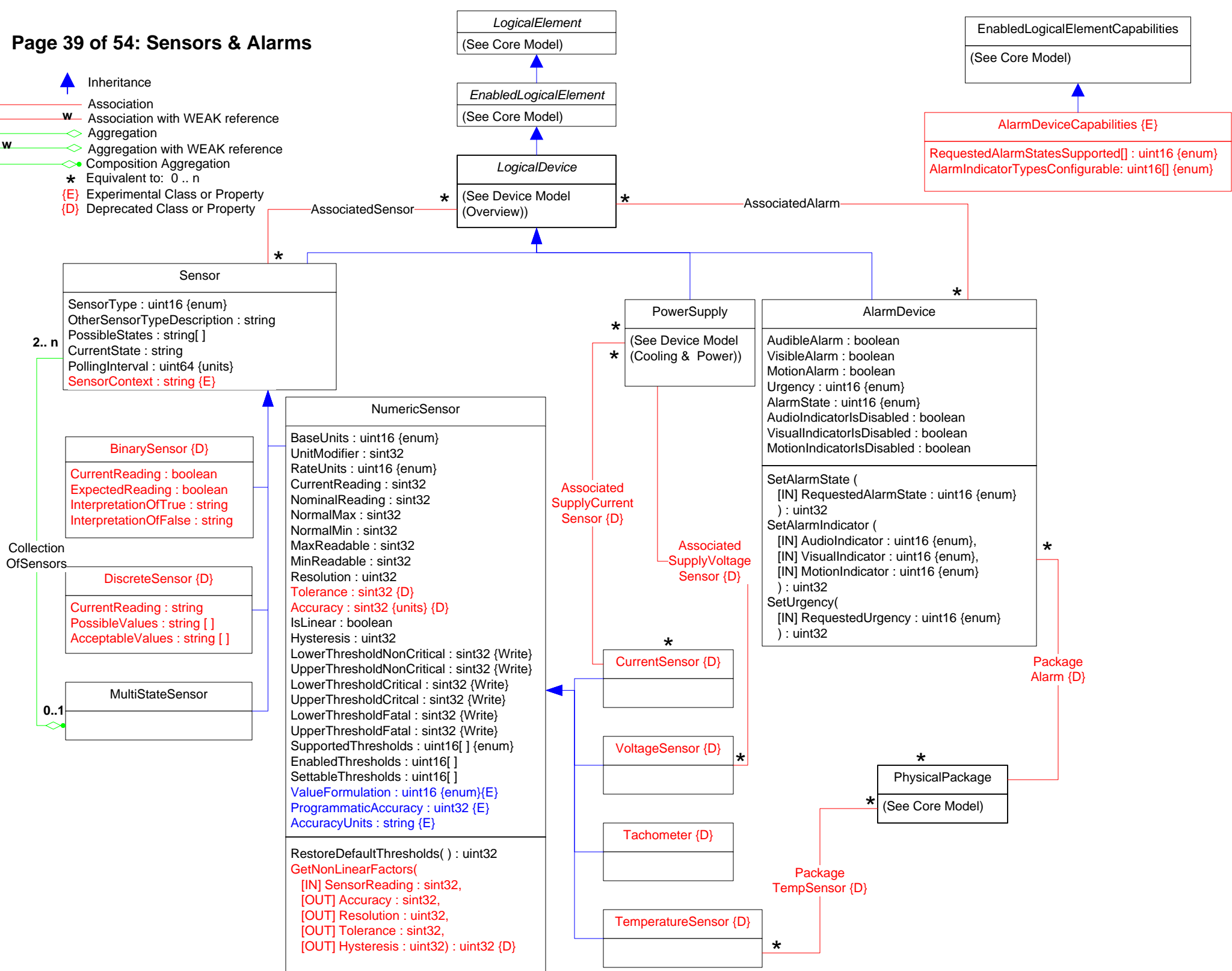
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n
-  {E} Experimental Class or Property
-  {D} Deprecated Class or Property










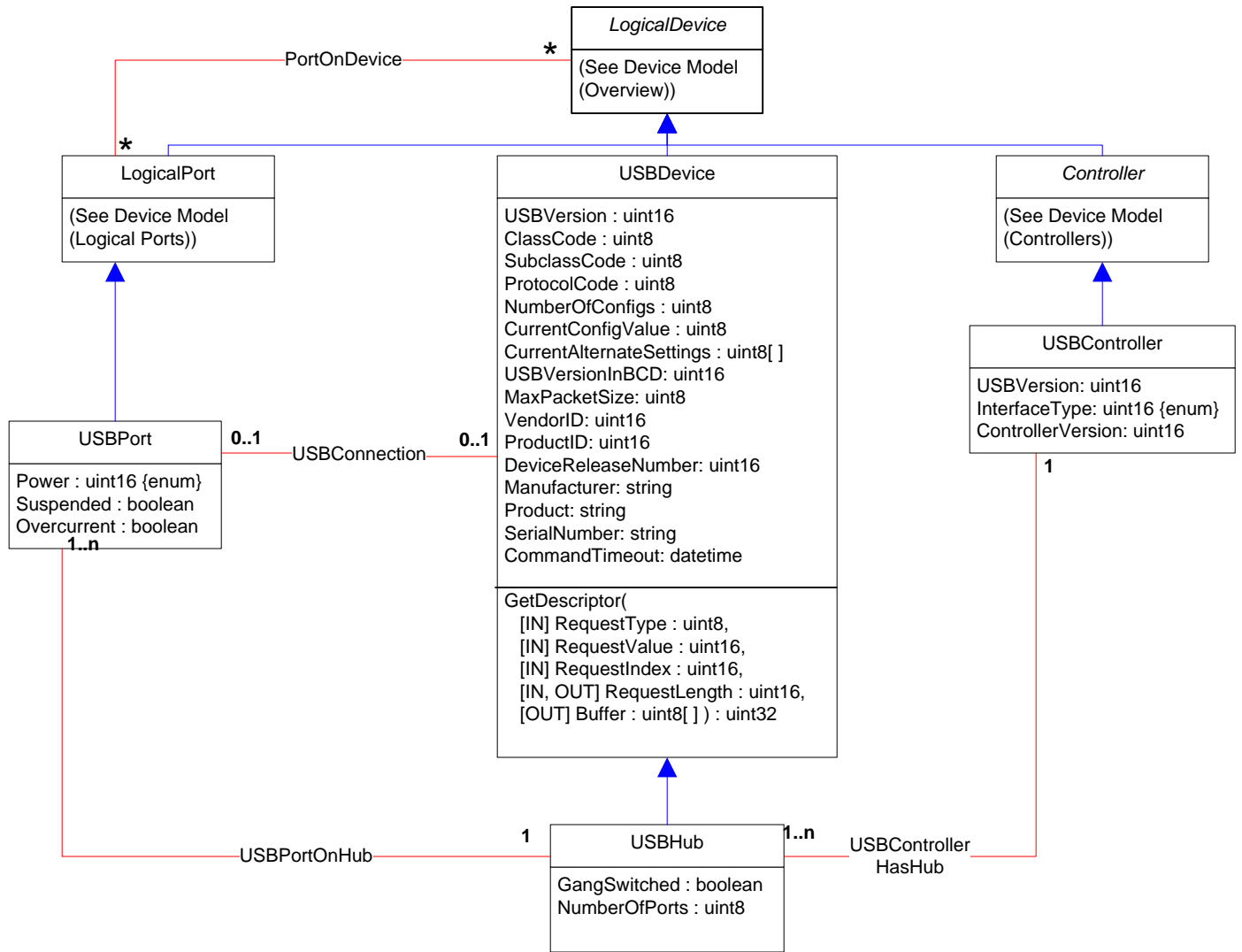






-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property

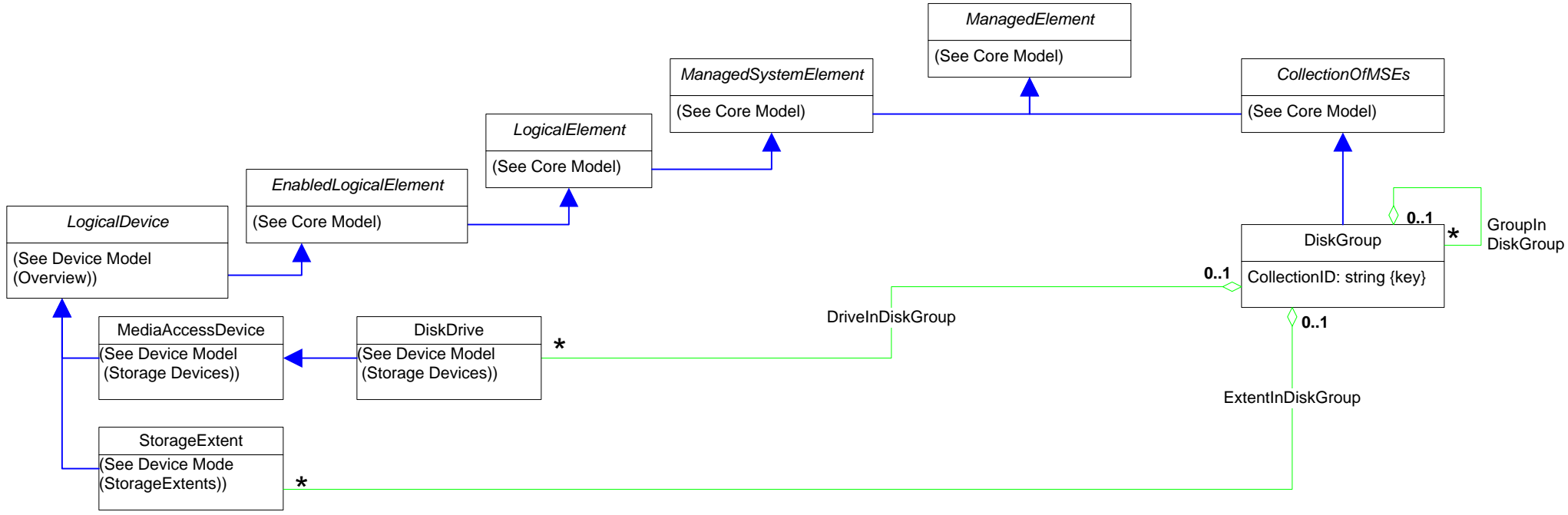


-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n










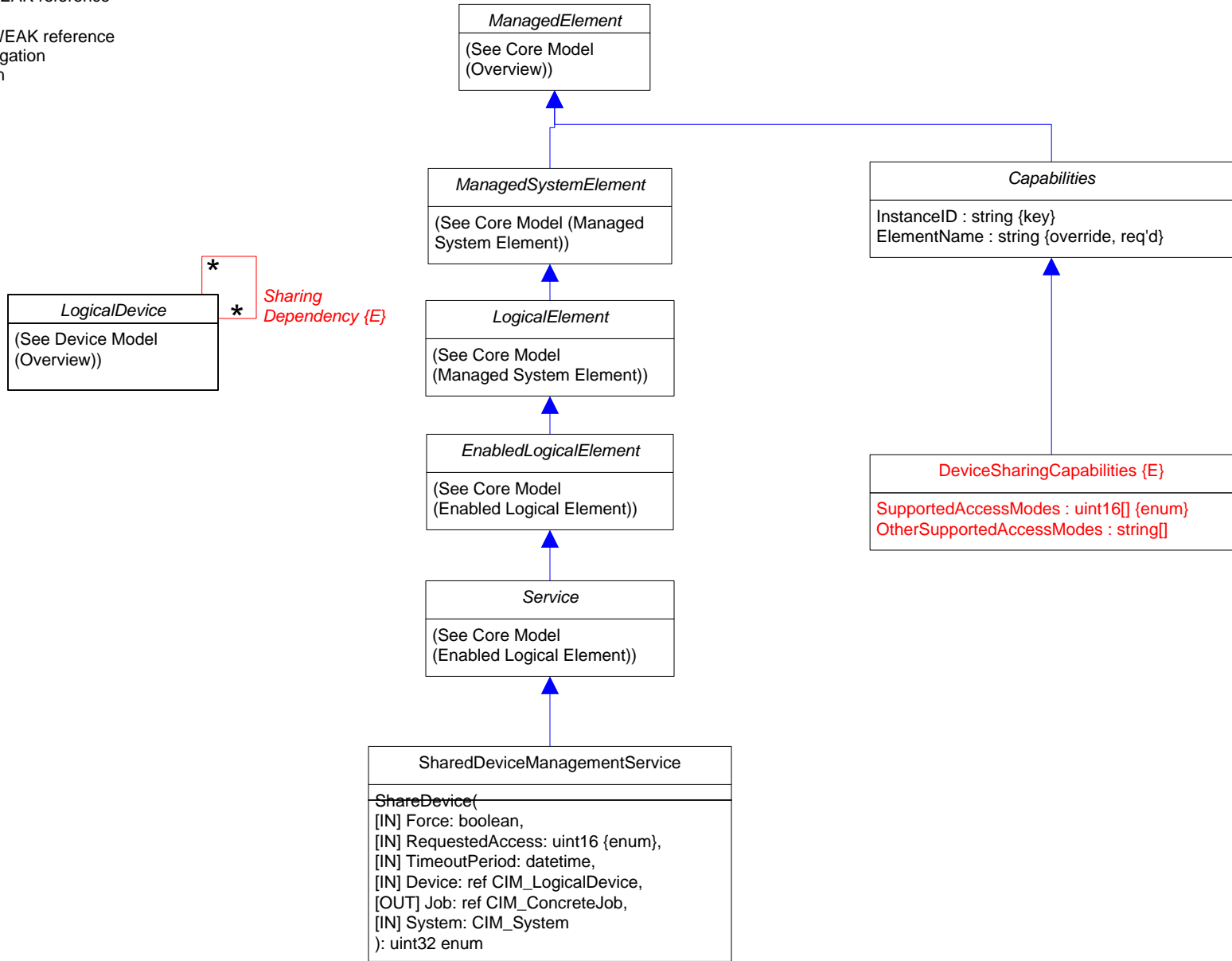
Page 41 of 54: Disk Group





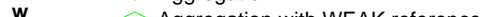
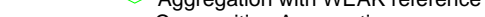

-  Inheritance
- Association
- Association with WEAK reference
- Aggregation
- Aggregation with WEAK reference
- Composition Aggregation
-  Equivalent to: 0..n

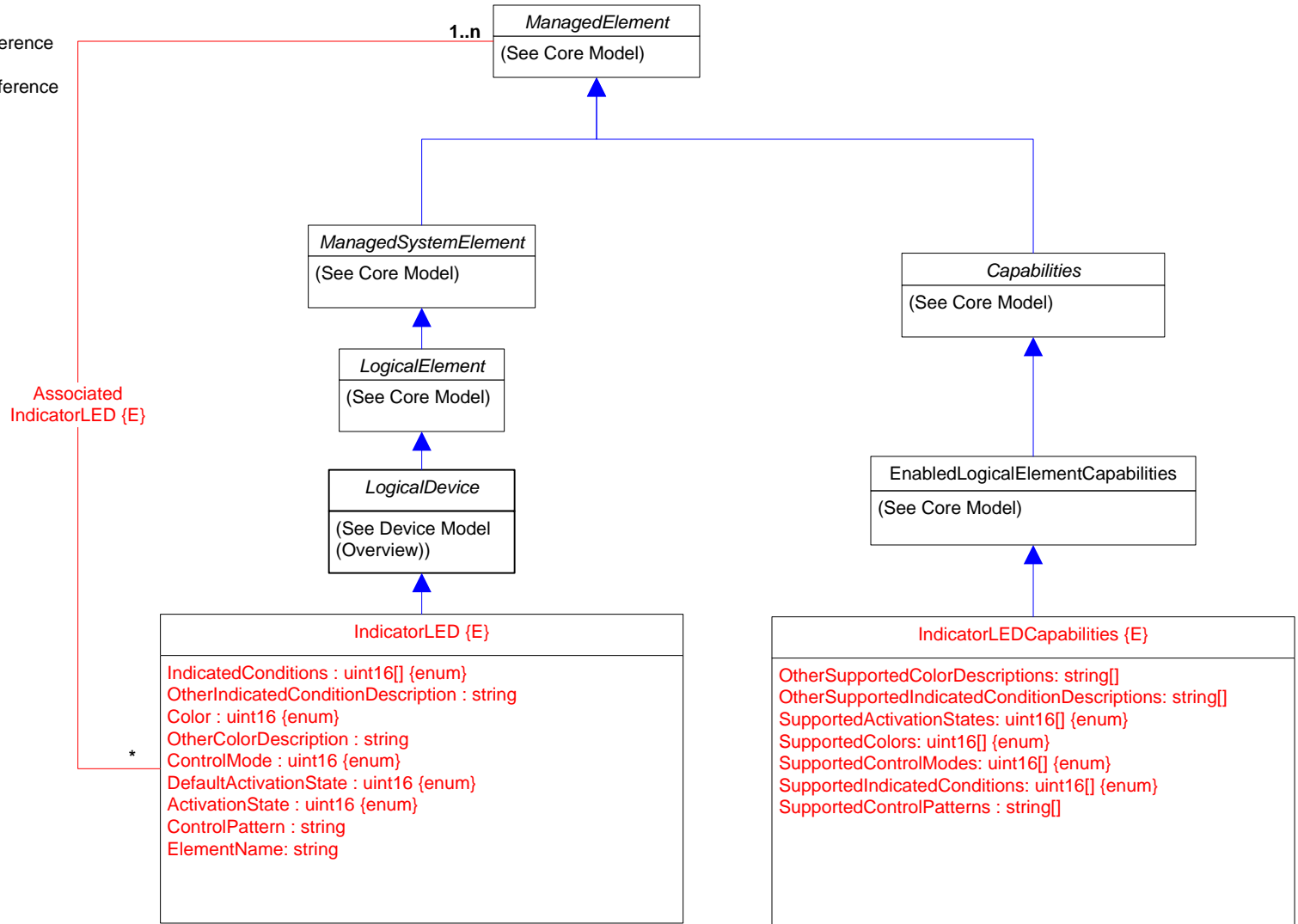











Page 42 of 54: Device Sharing

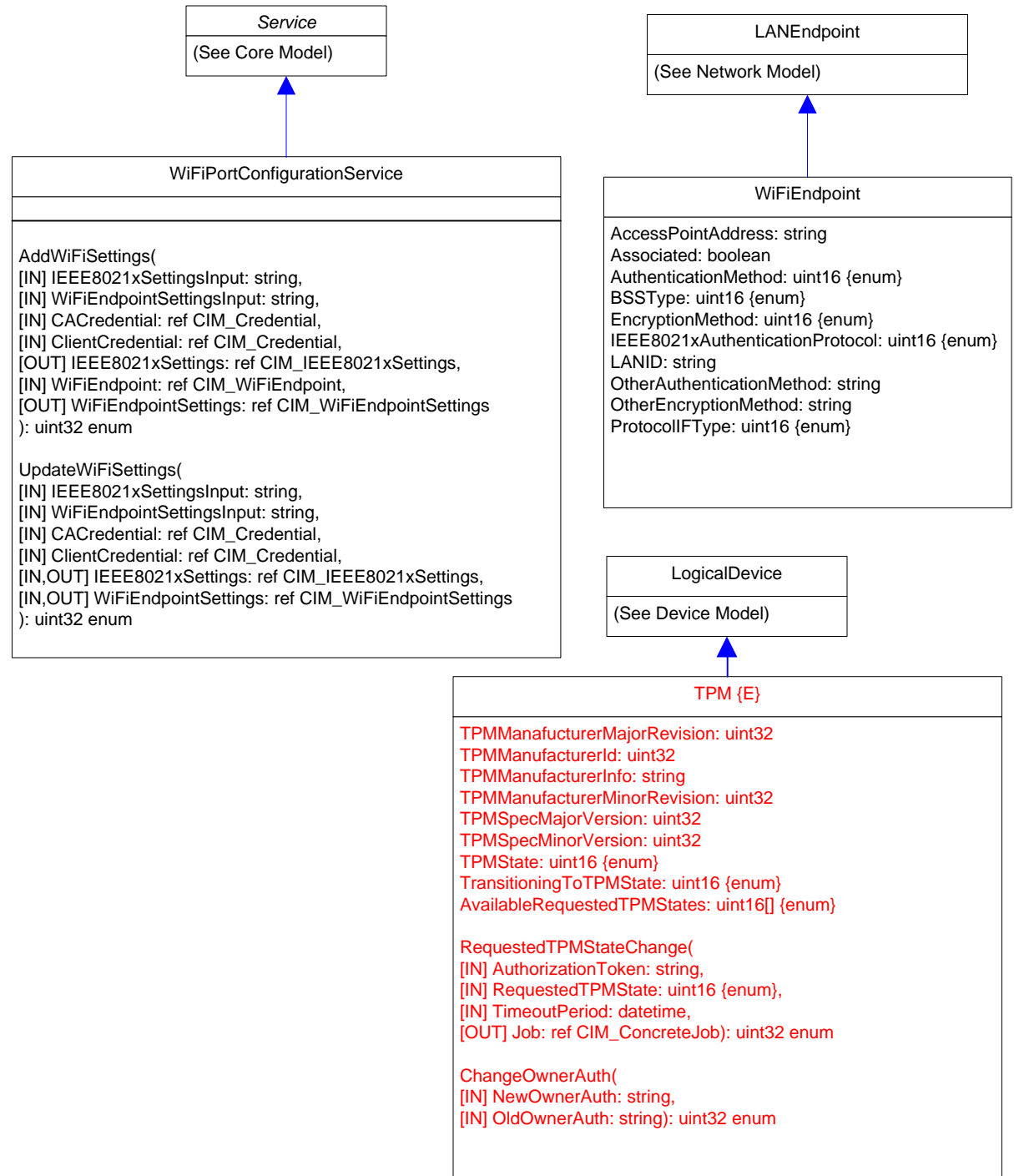
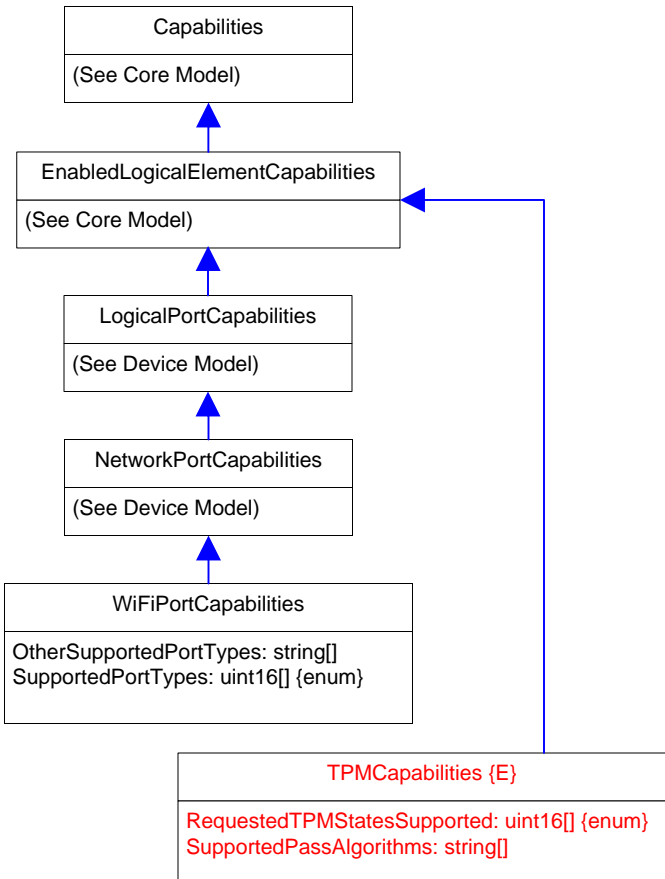
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n

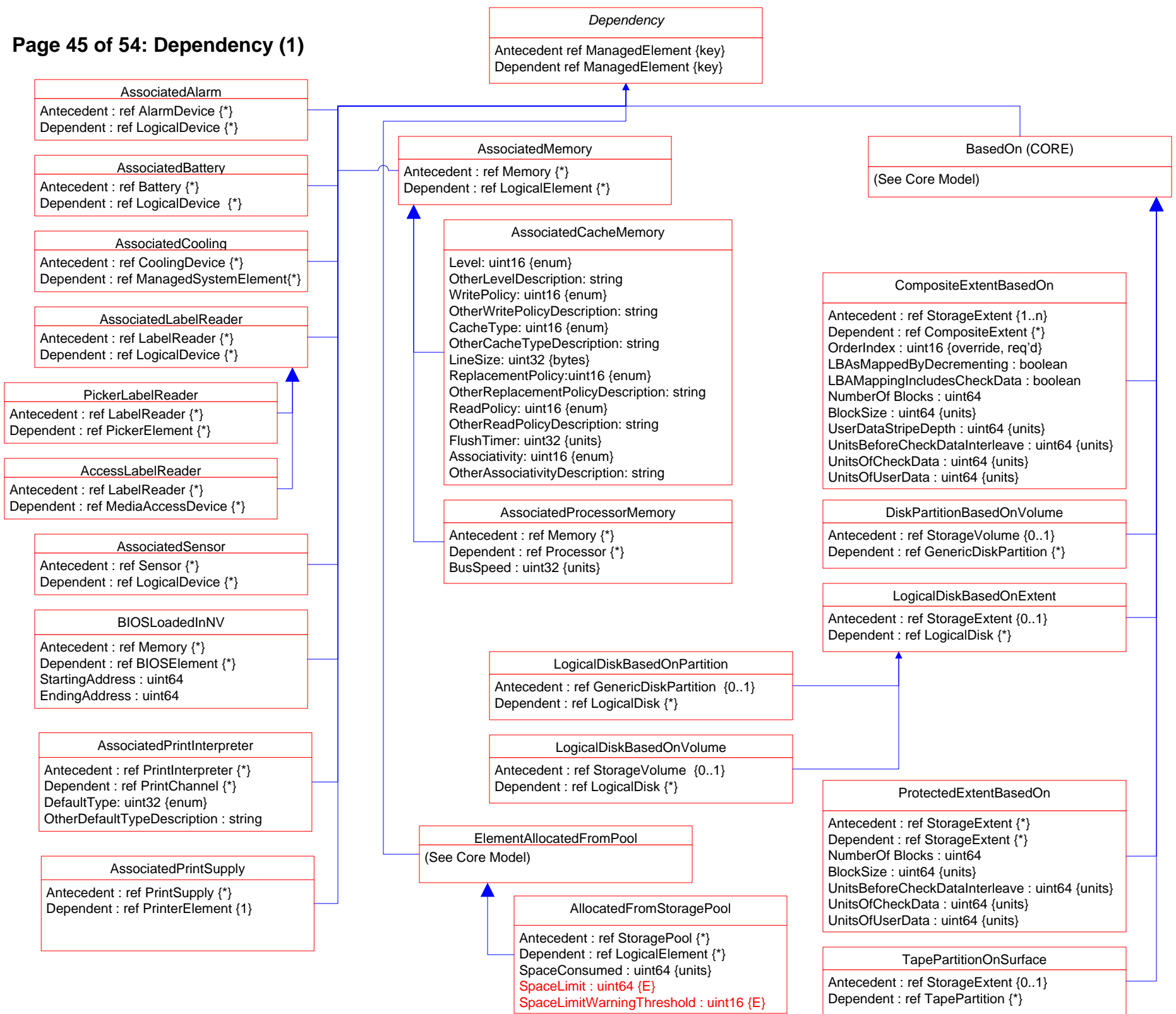


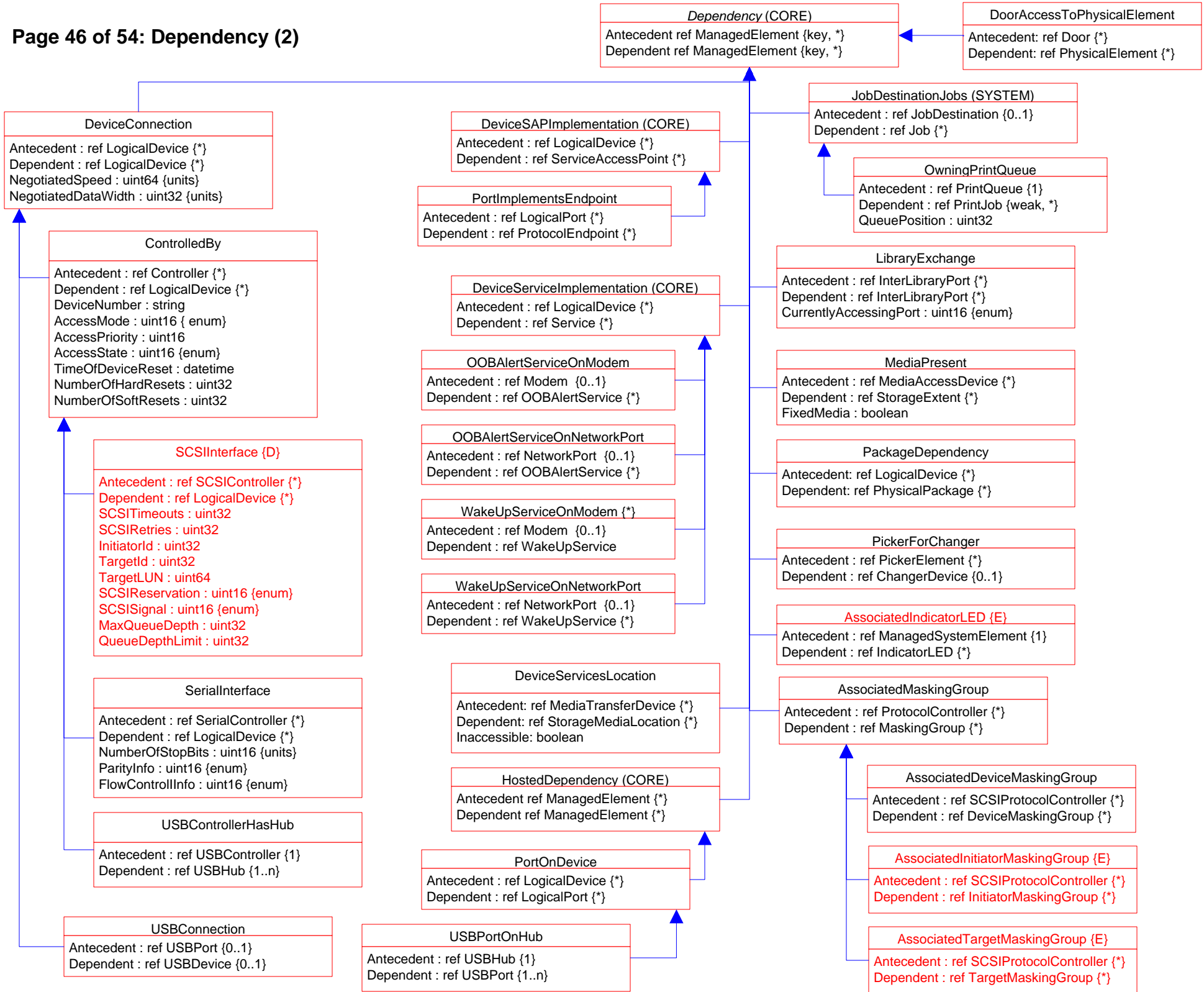
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n

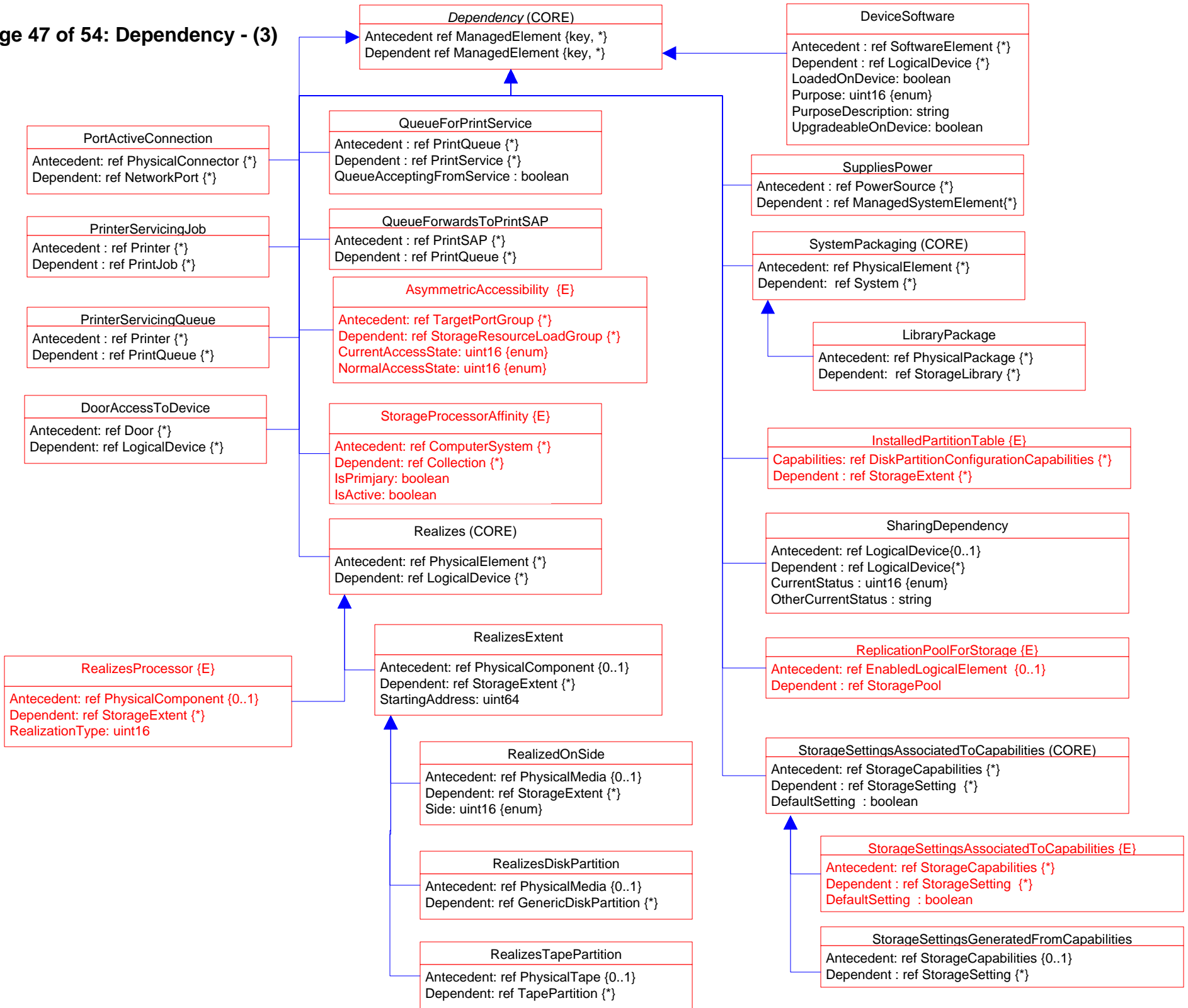


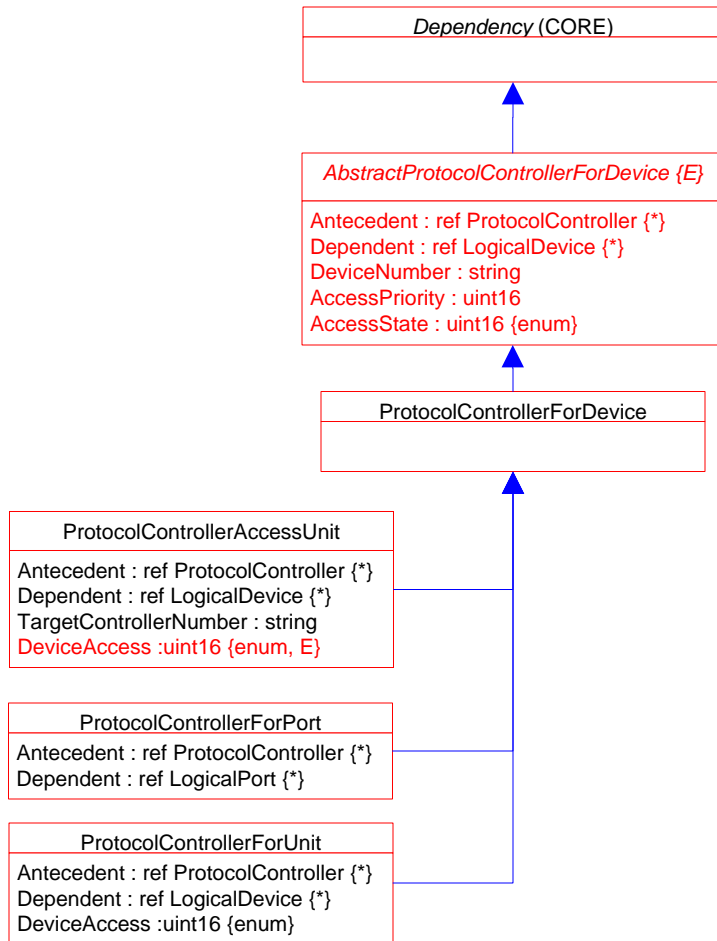
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property



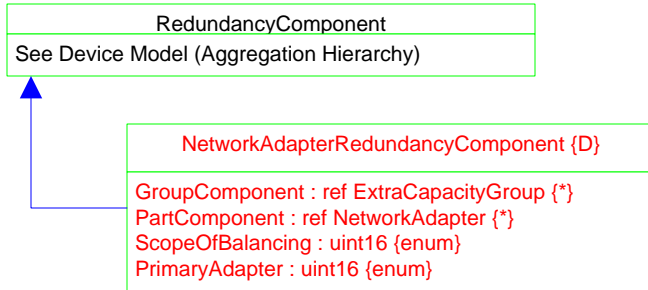
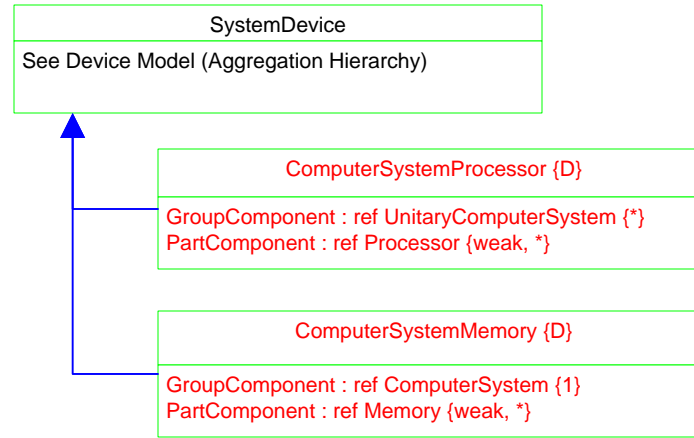
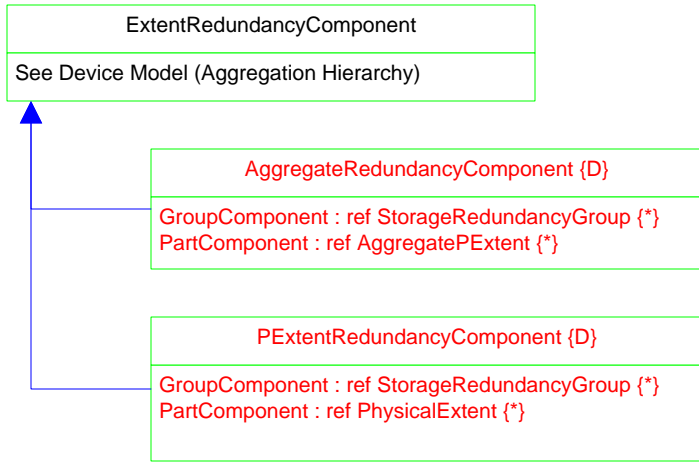




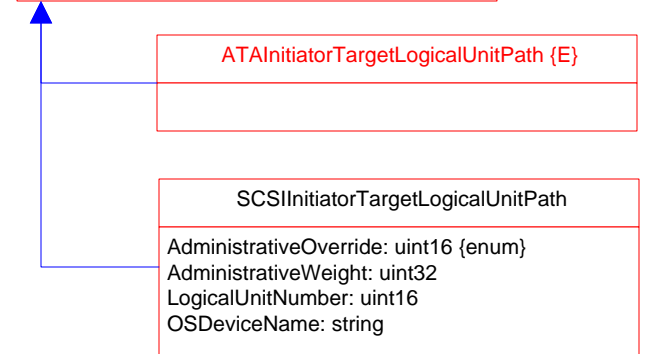
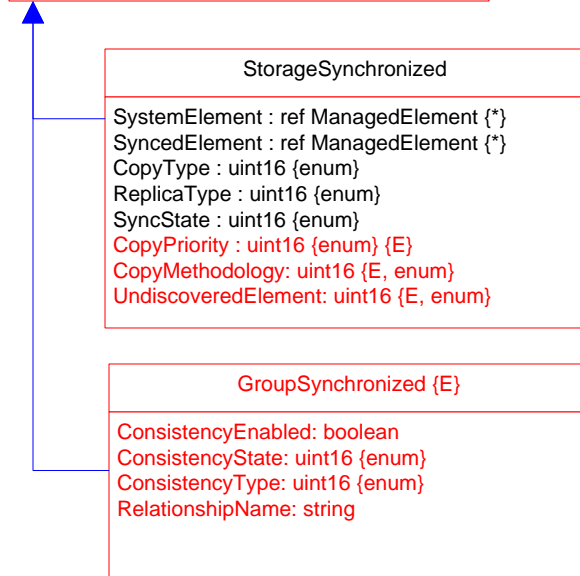
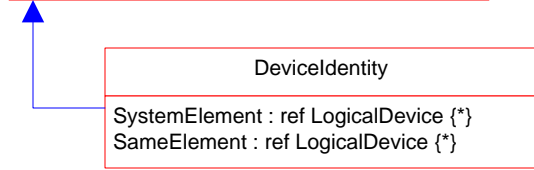
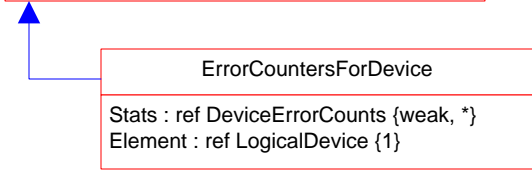
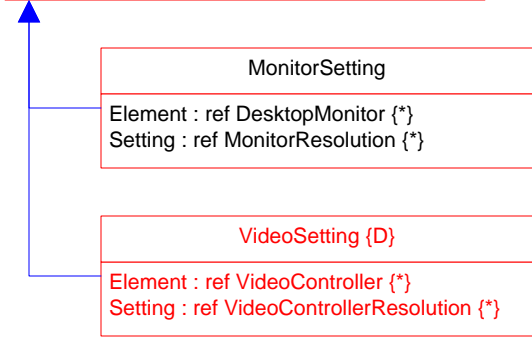
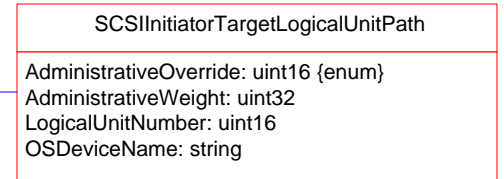
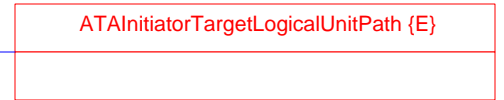
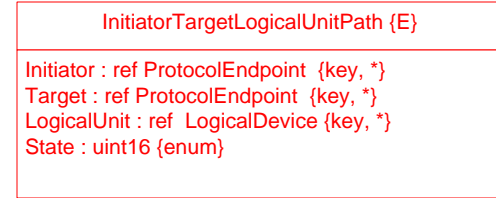
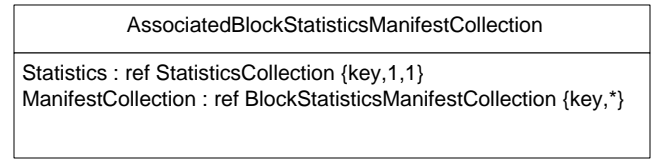
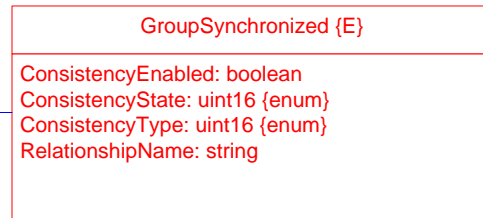
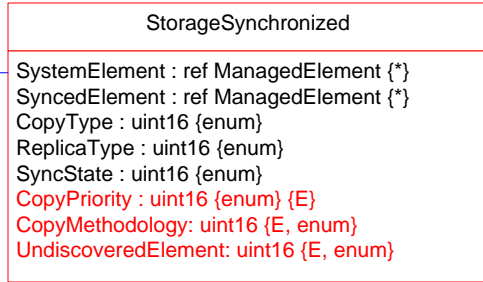
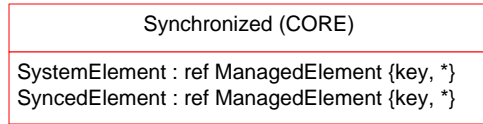
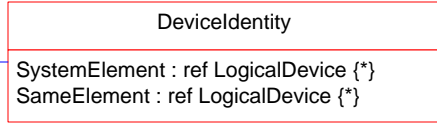
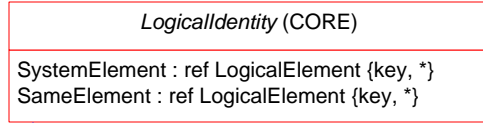
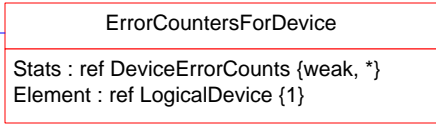
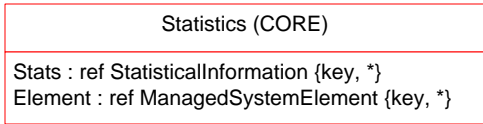
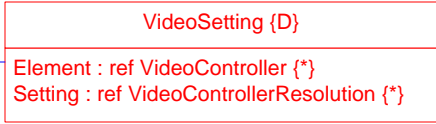
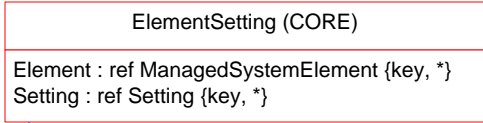




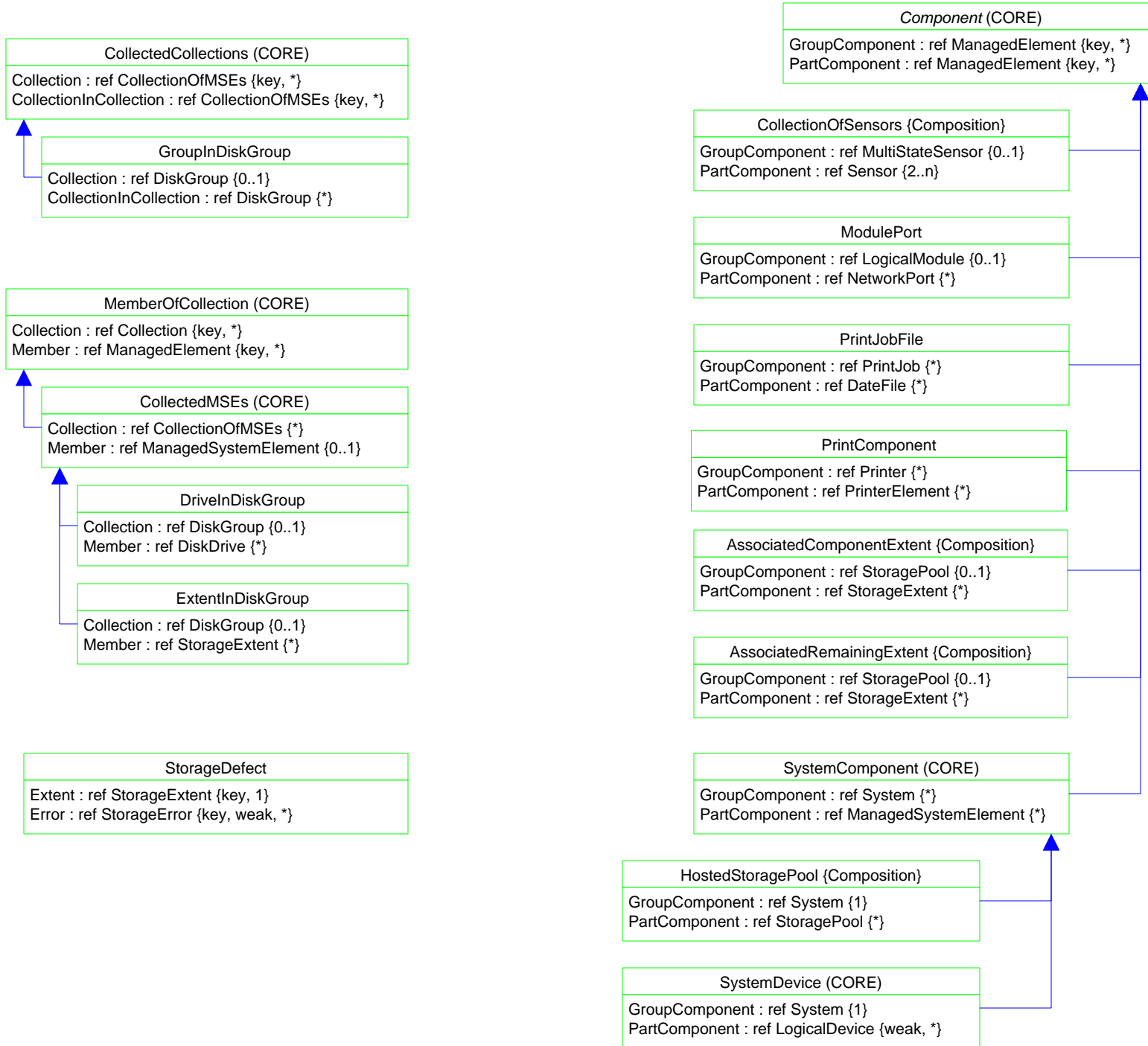
Page 49 of 54: Aggregation Deprecation



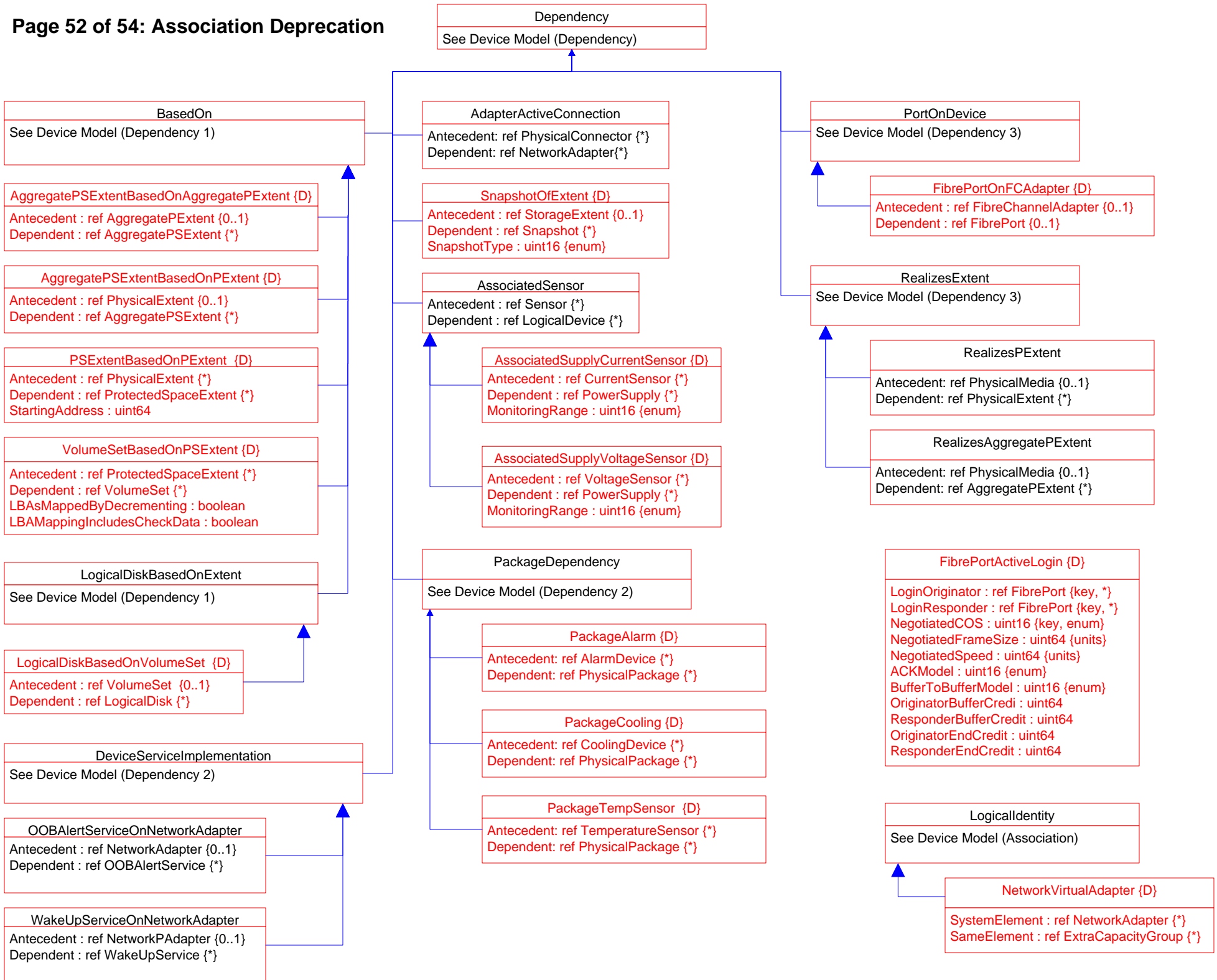
Page 50 of 54: Association Hierarchy

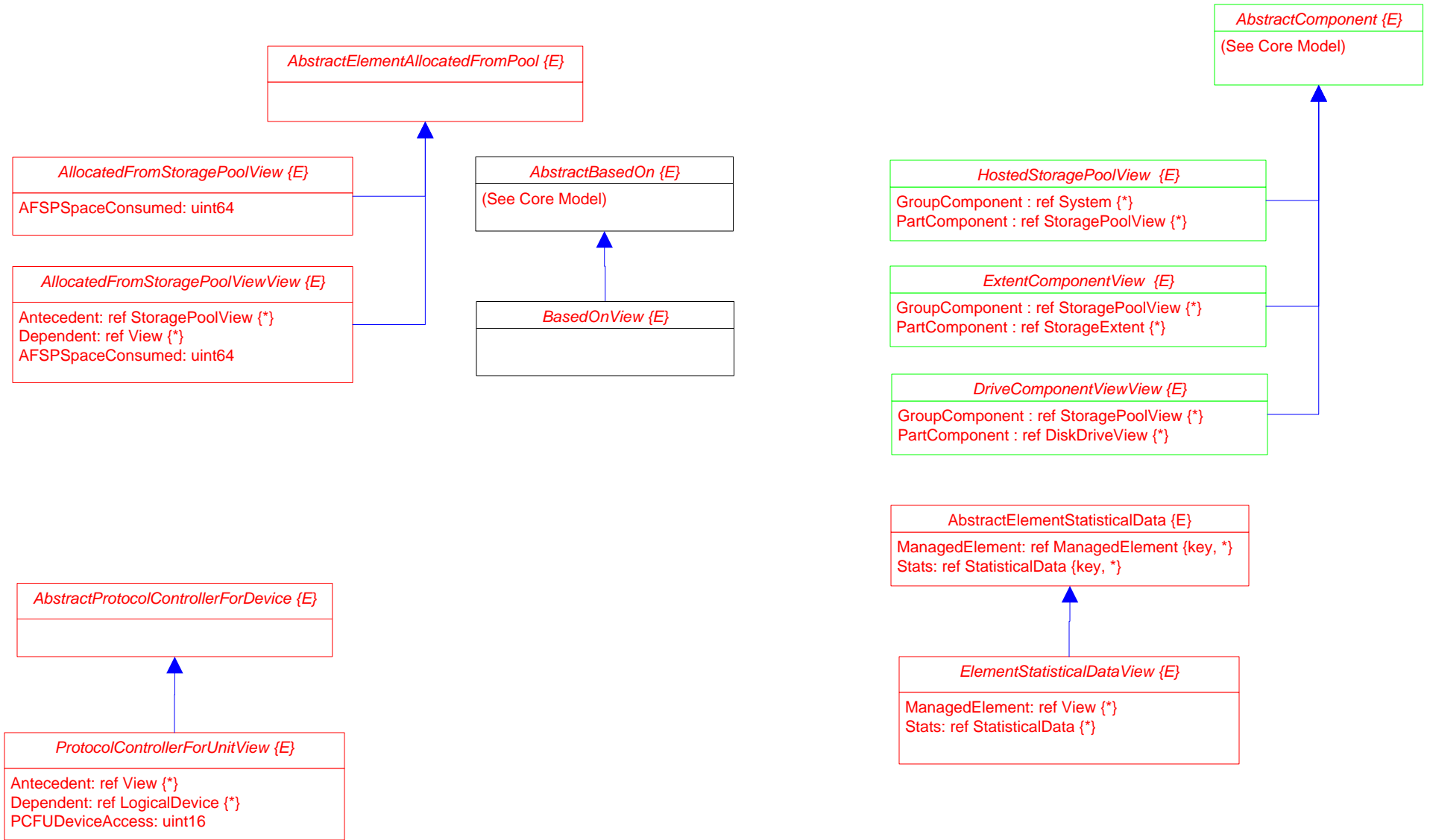


Page 51 of 54: Aggregation Hierarchy



Page 52 of 54: 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