

Title : Device Specification 2.39.0

Filename : CIM_Device.vsd

Author : DMTF Core Schema WG

Date : 19 Nov 2013

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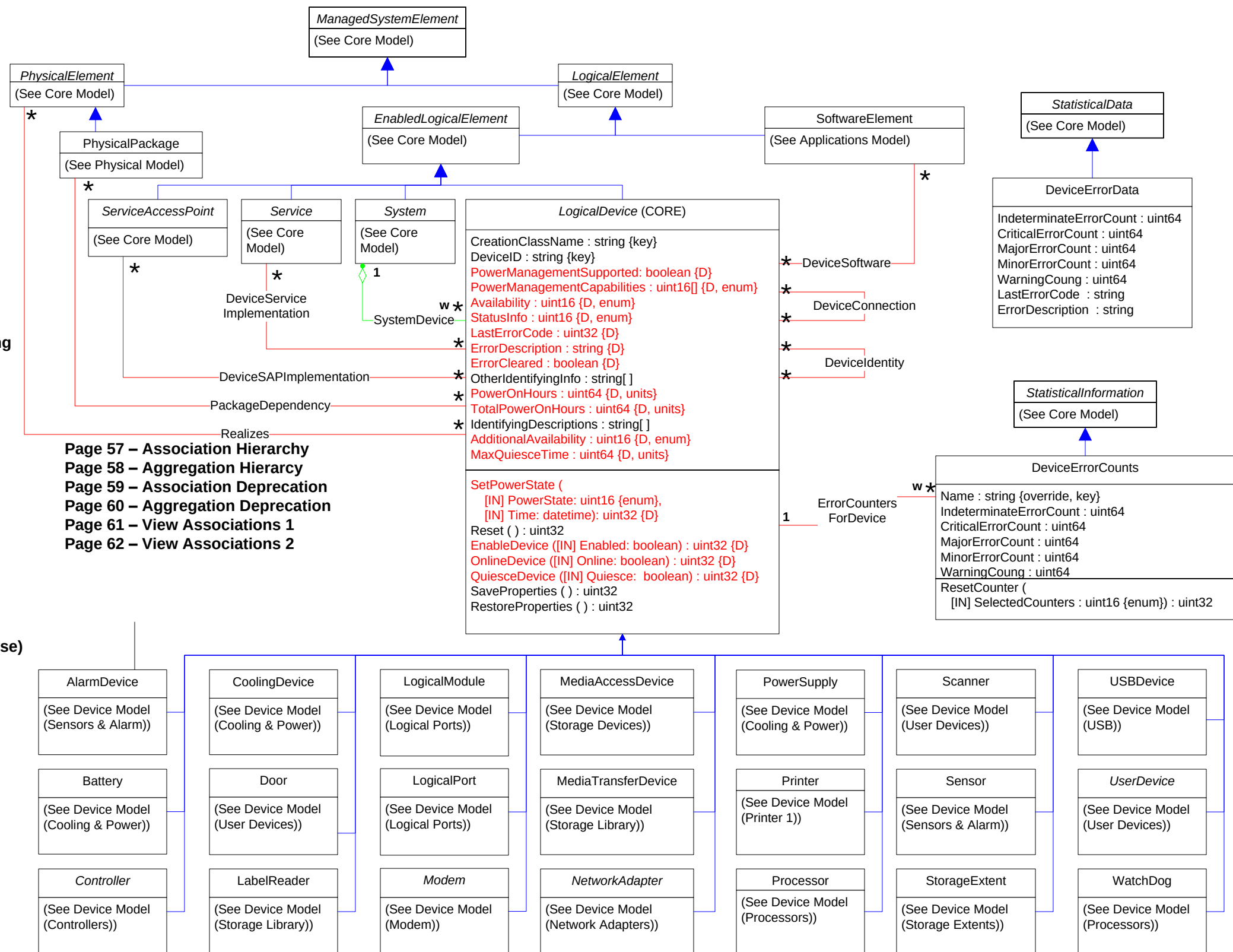
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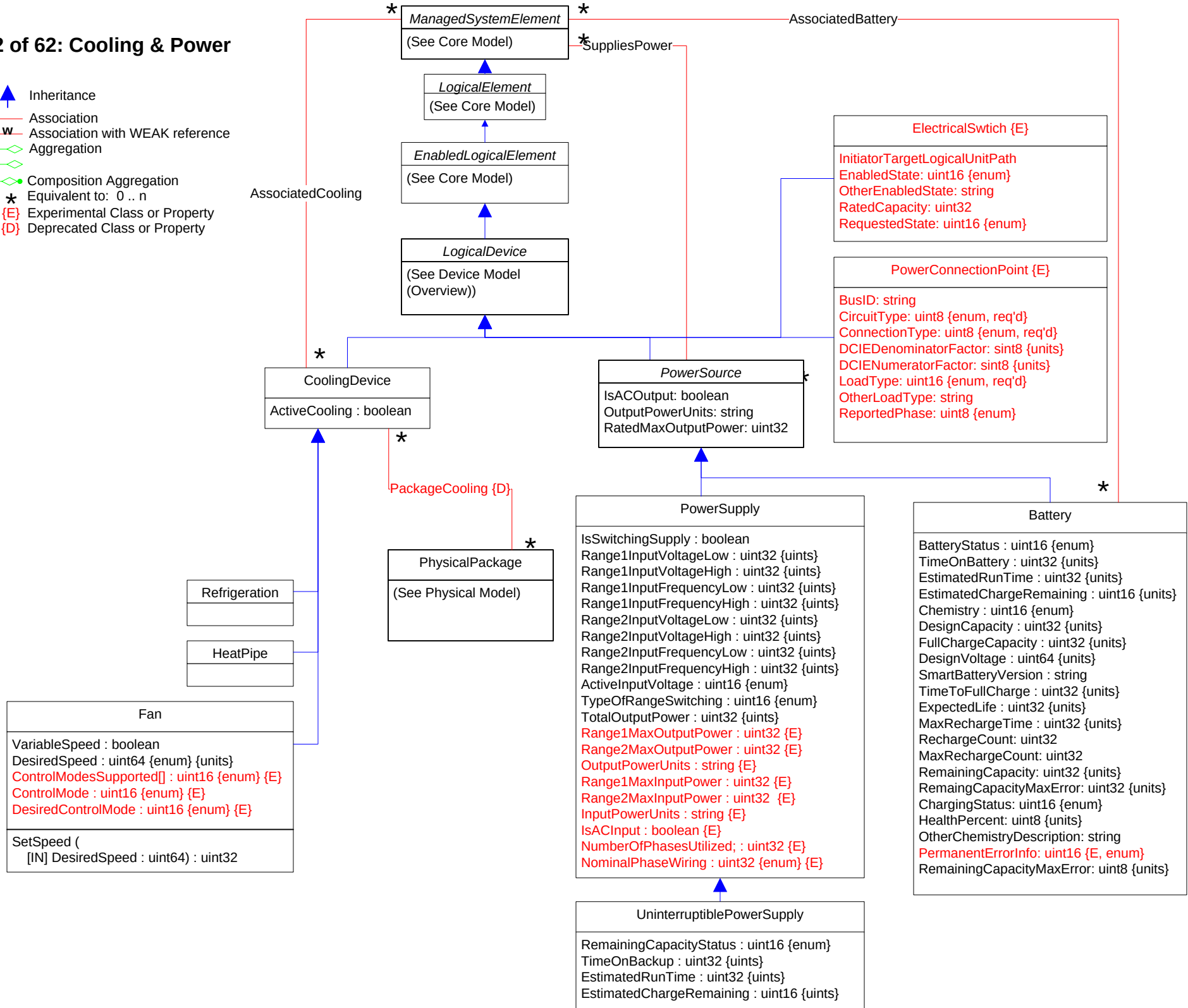
Page 54 – Dependency (2) [D - Pi]

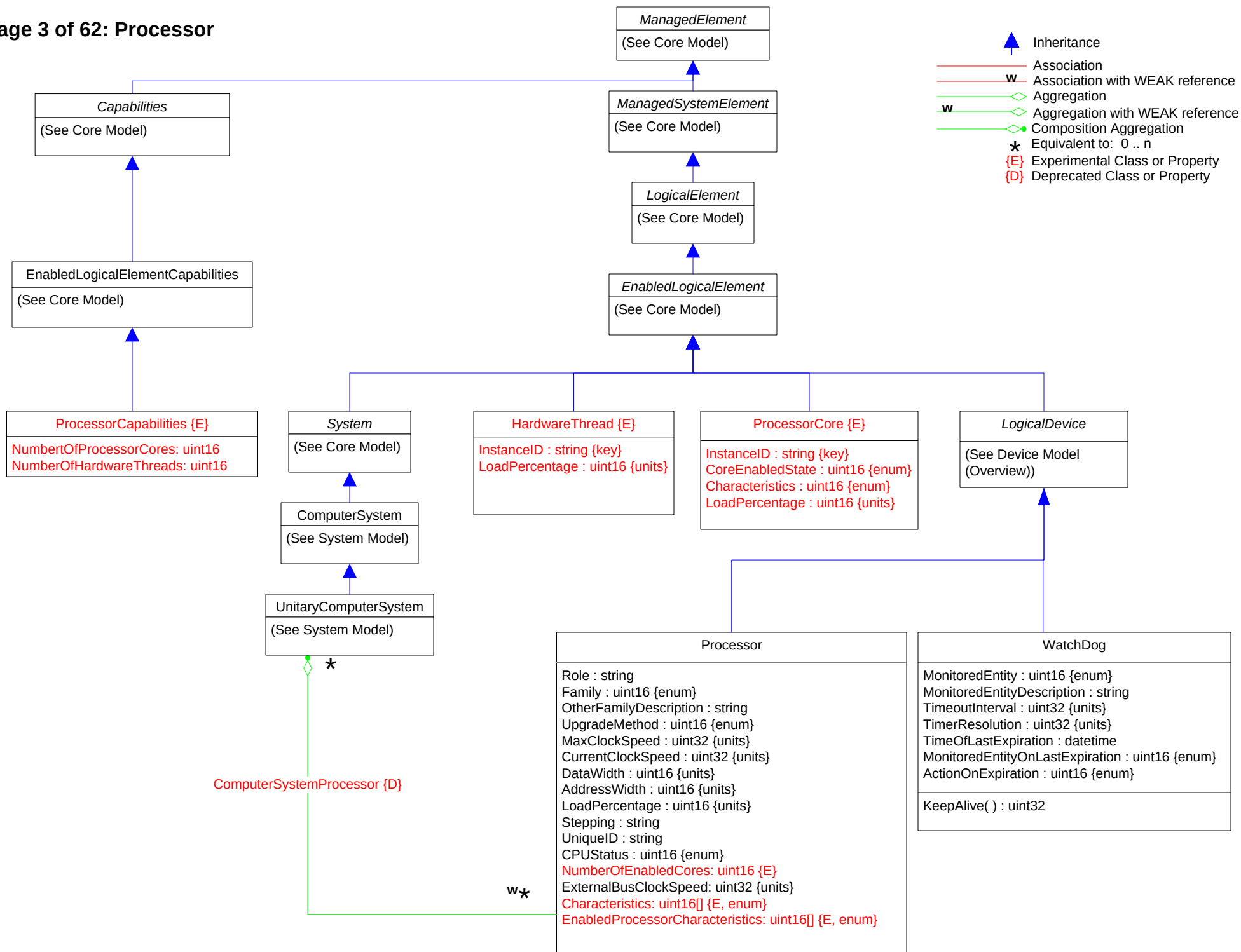
Page 55 – Dependency (3) [Po - S]

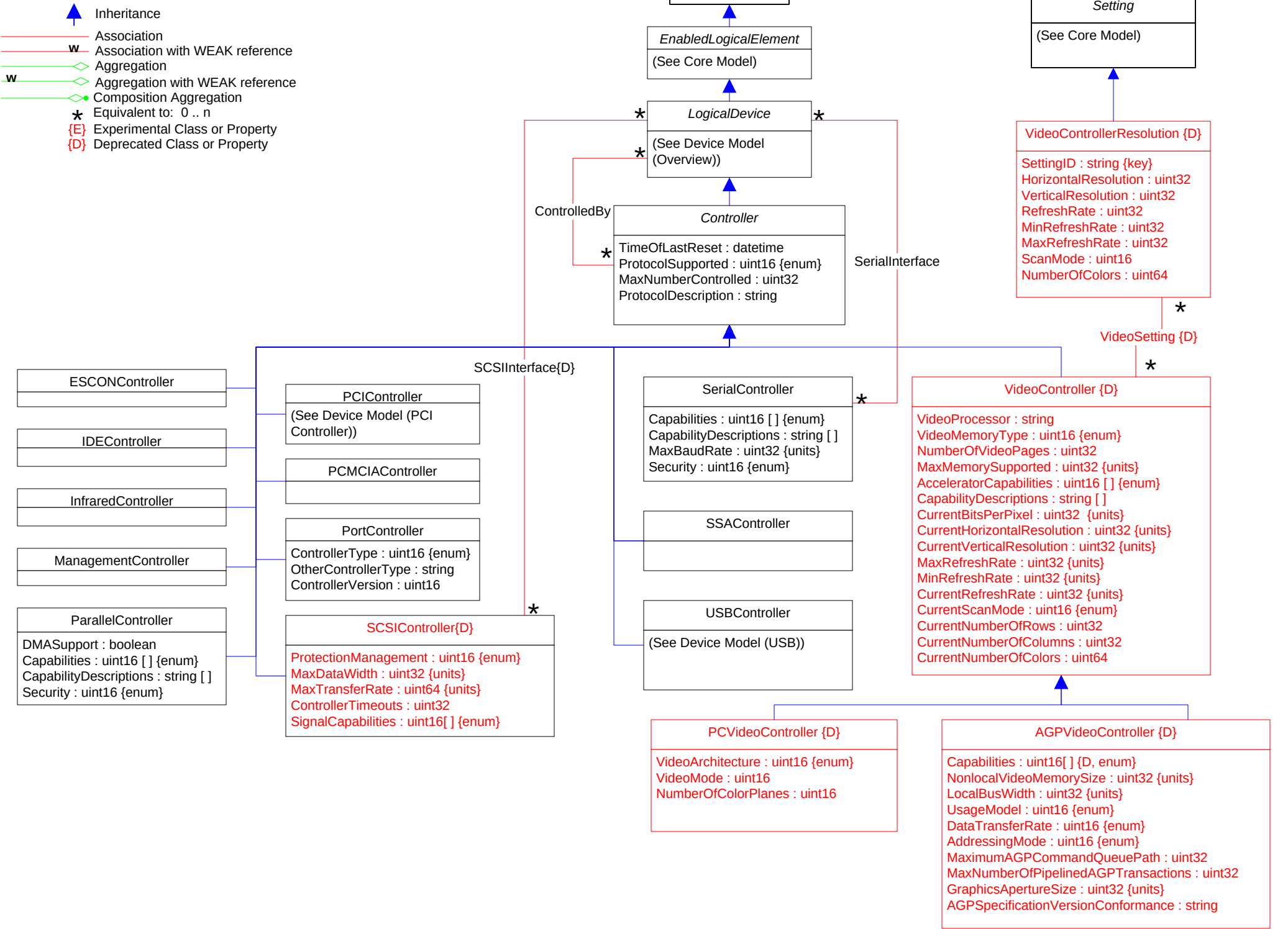
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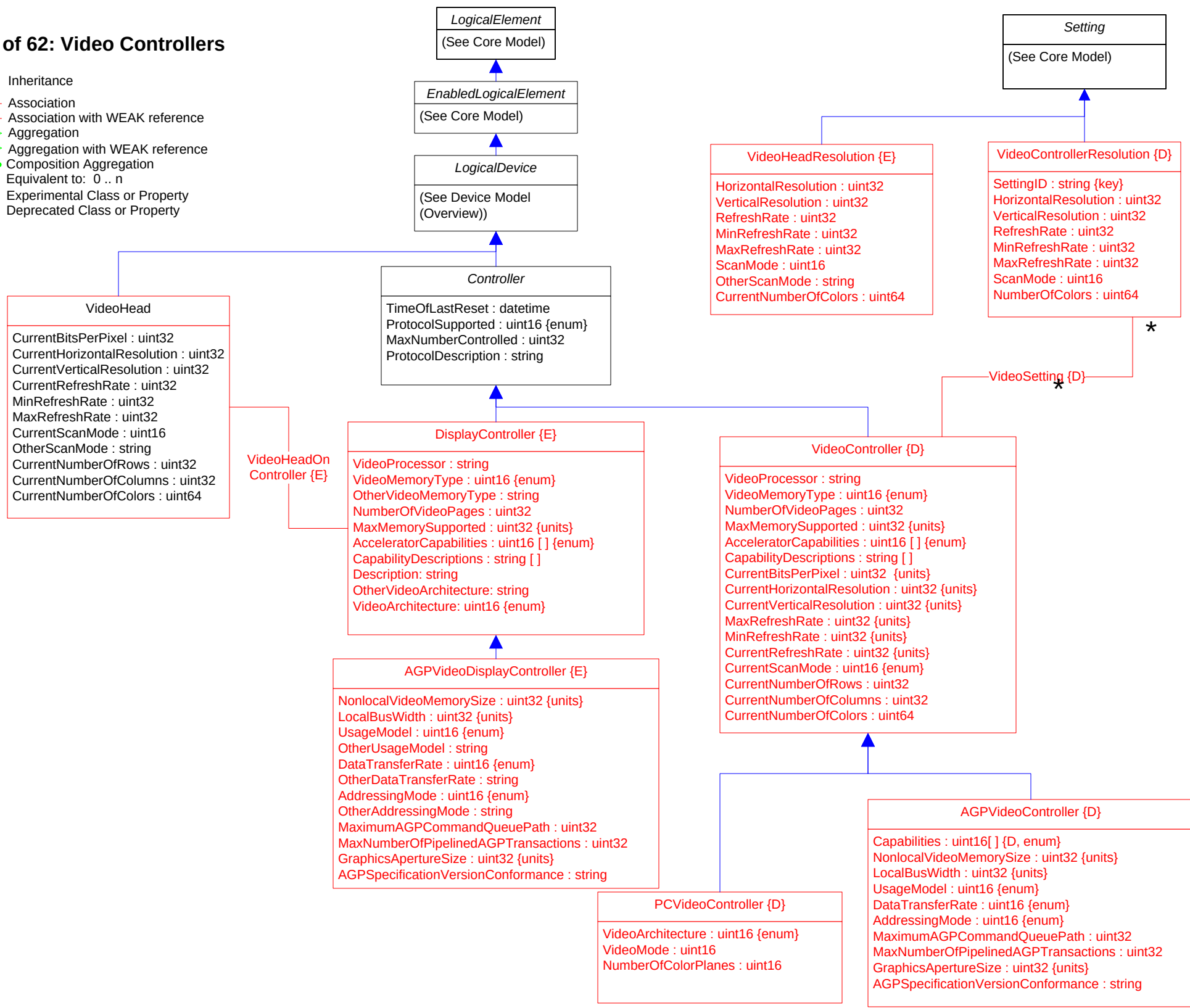
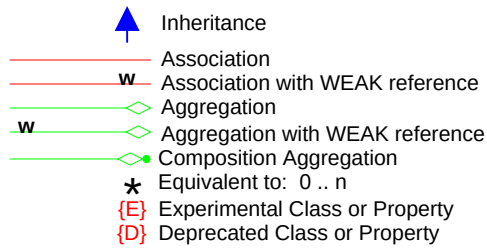


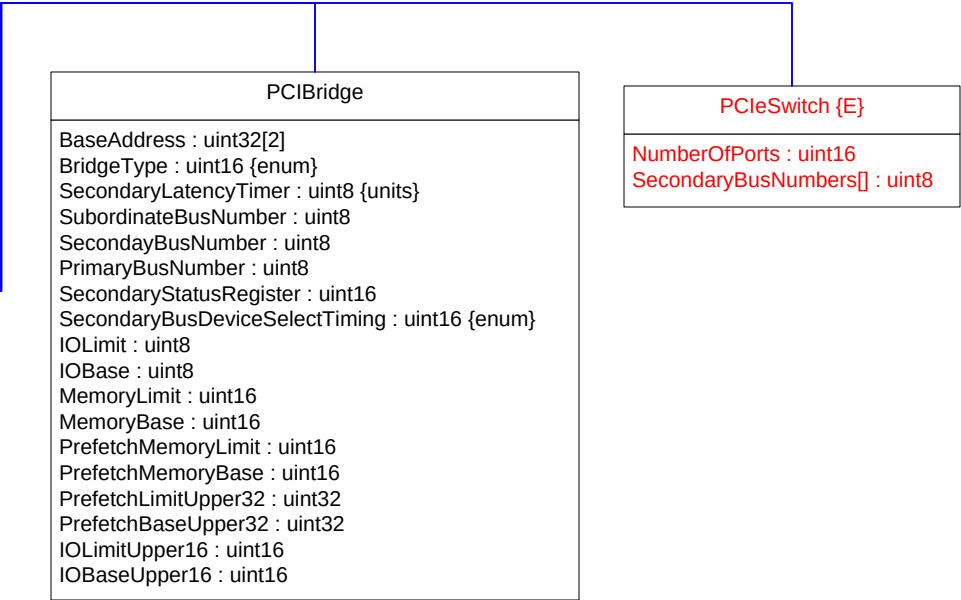
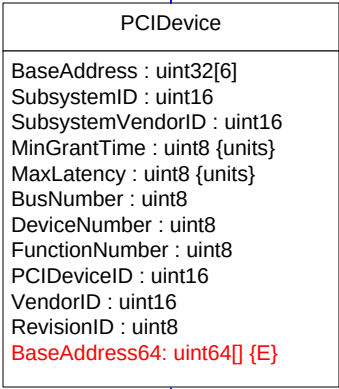
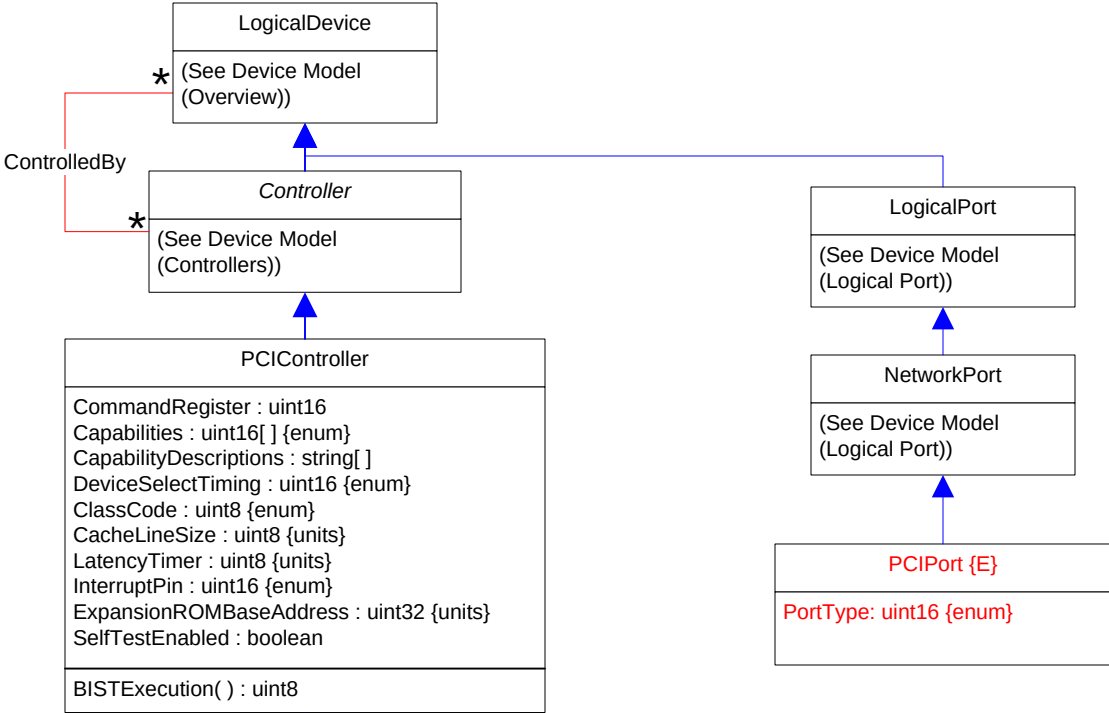
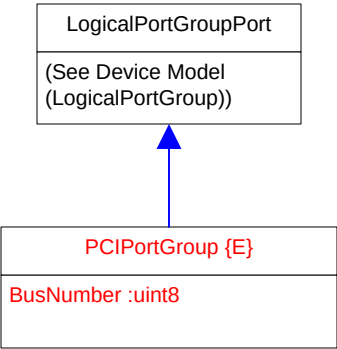
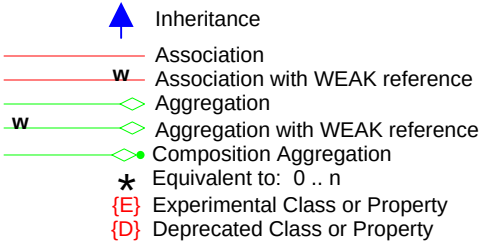
- Inheritance
- Association
- Association with WEAK reference
- Aggregation
- Composition Aggregation
- Equivalent to: 0 .. n
- {E} Experimental Class or Property
- {D} Deprecated Class or Property

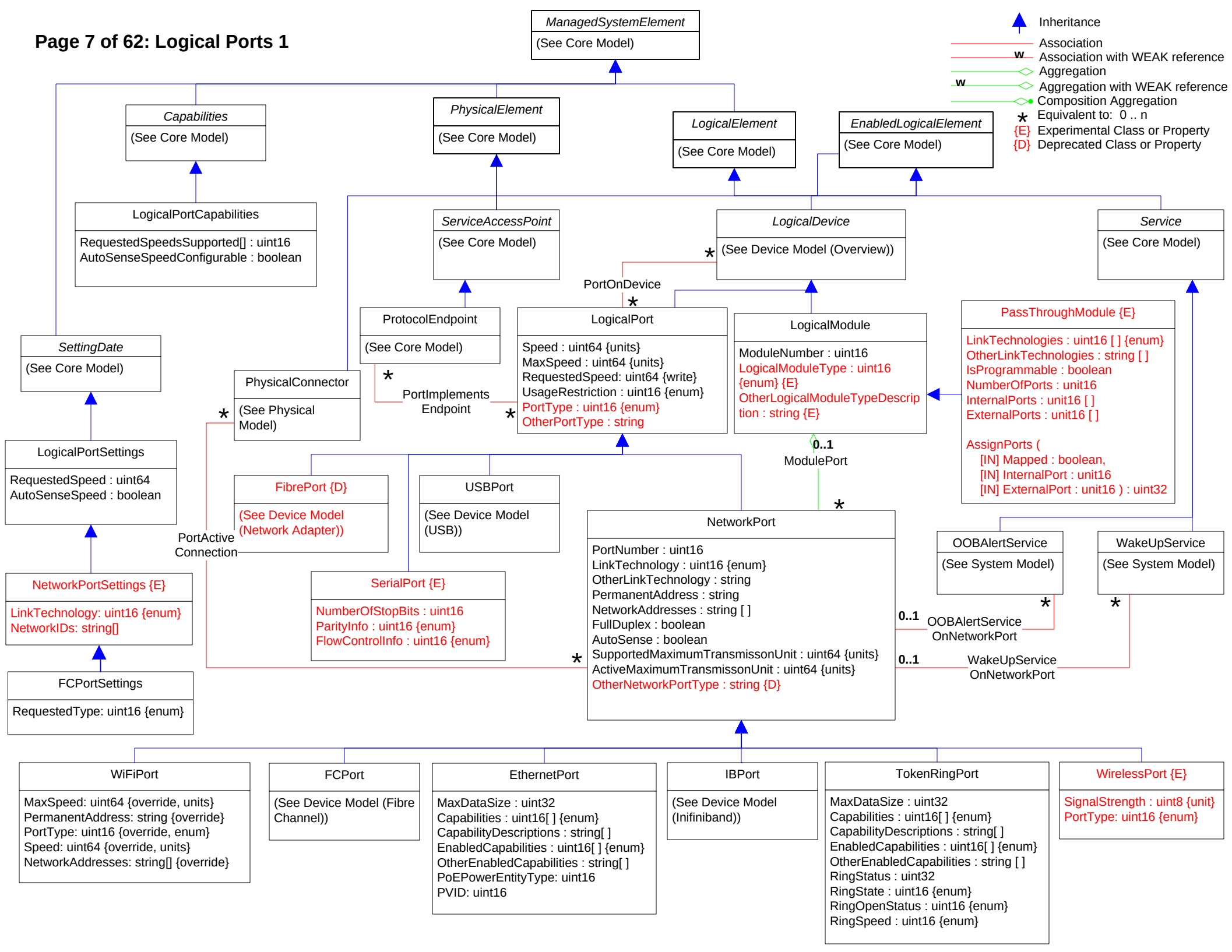


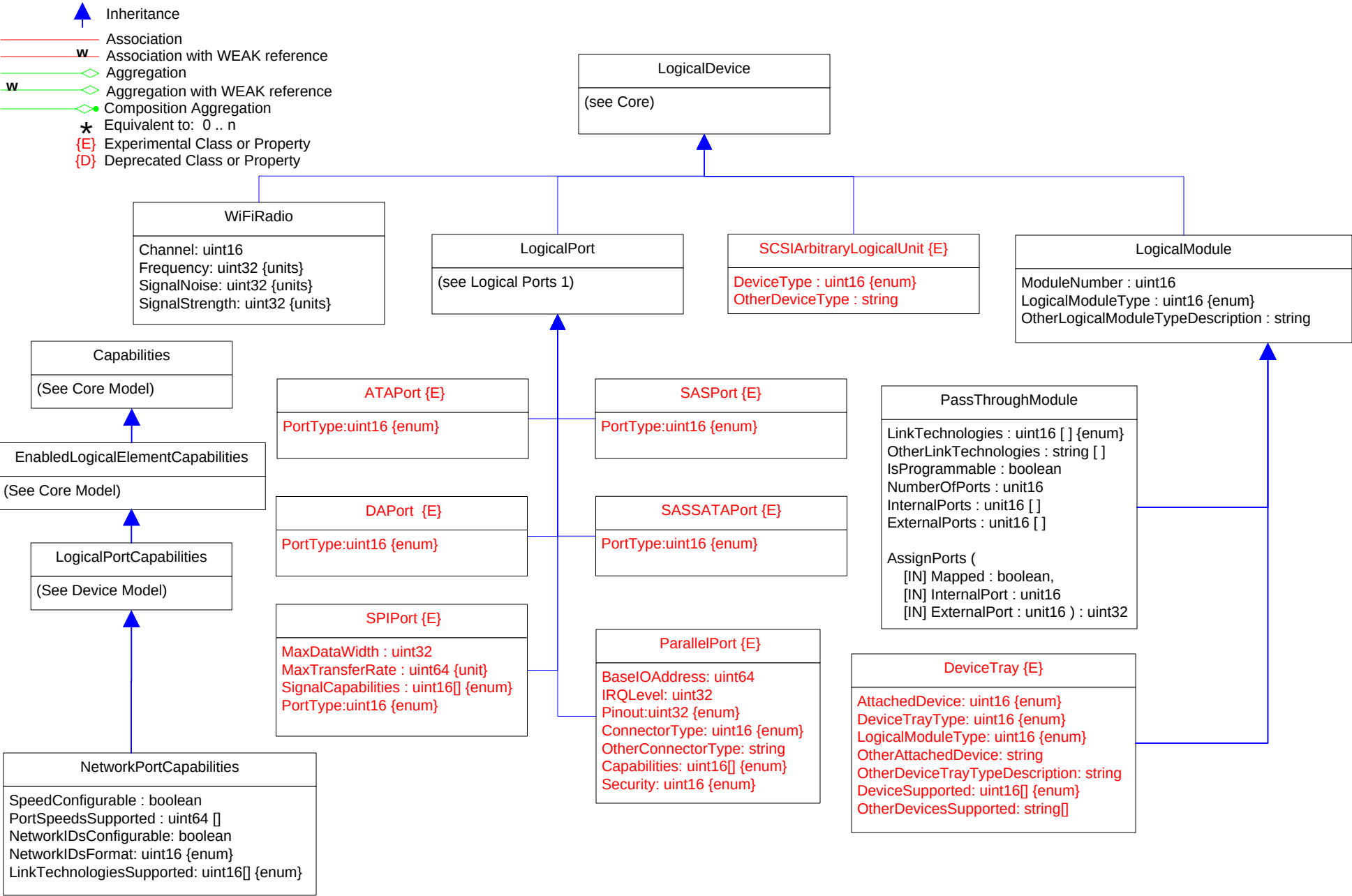


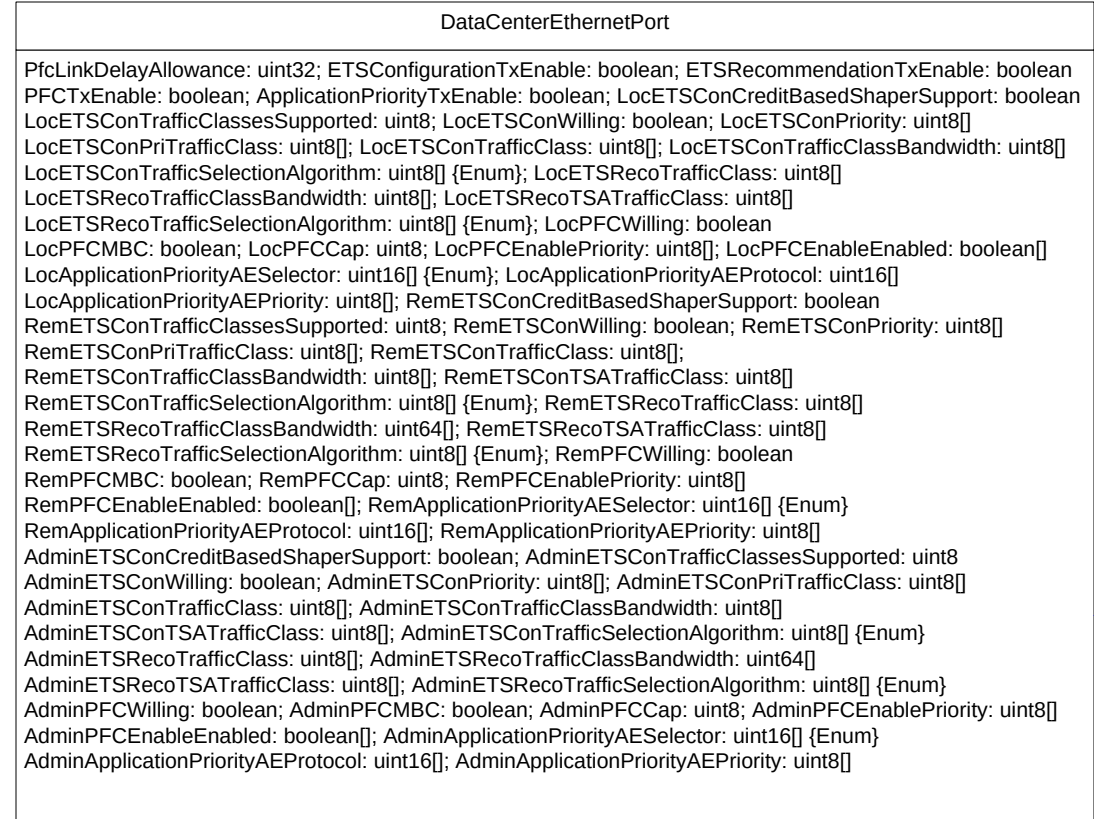
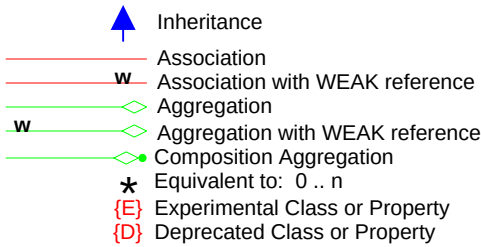


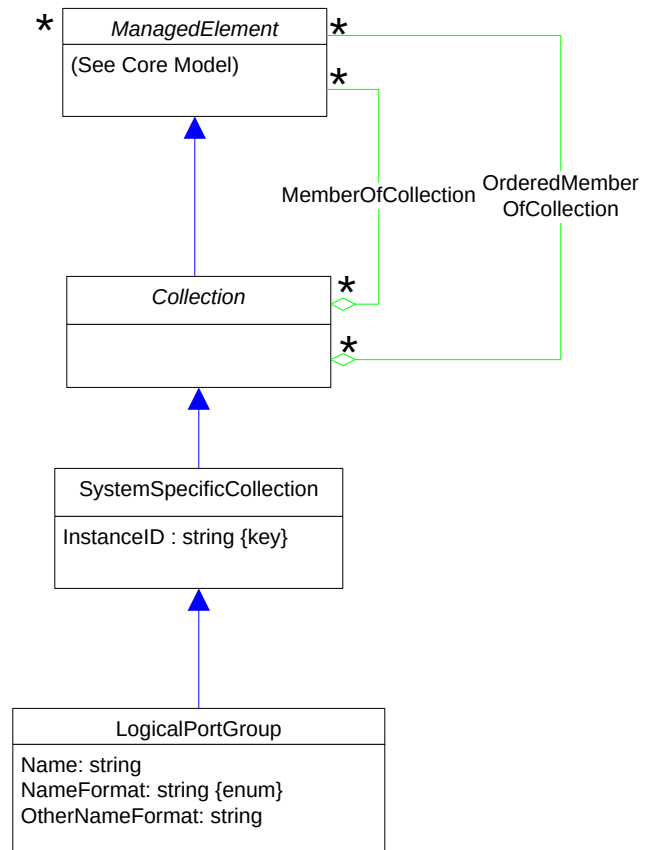


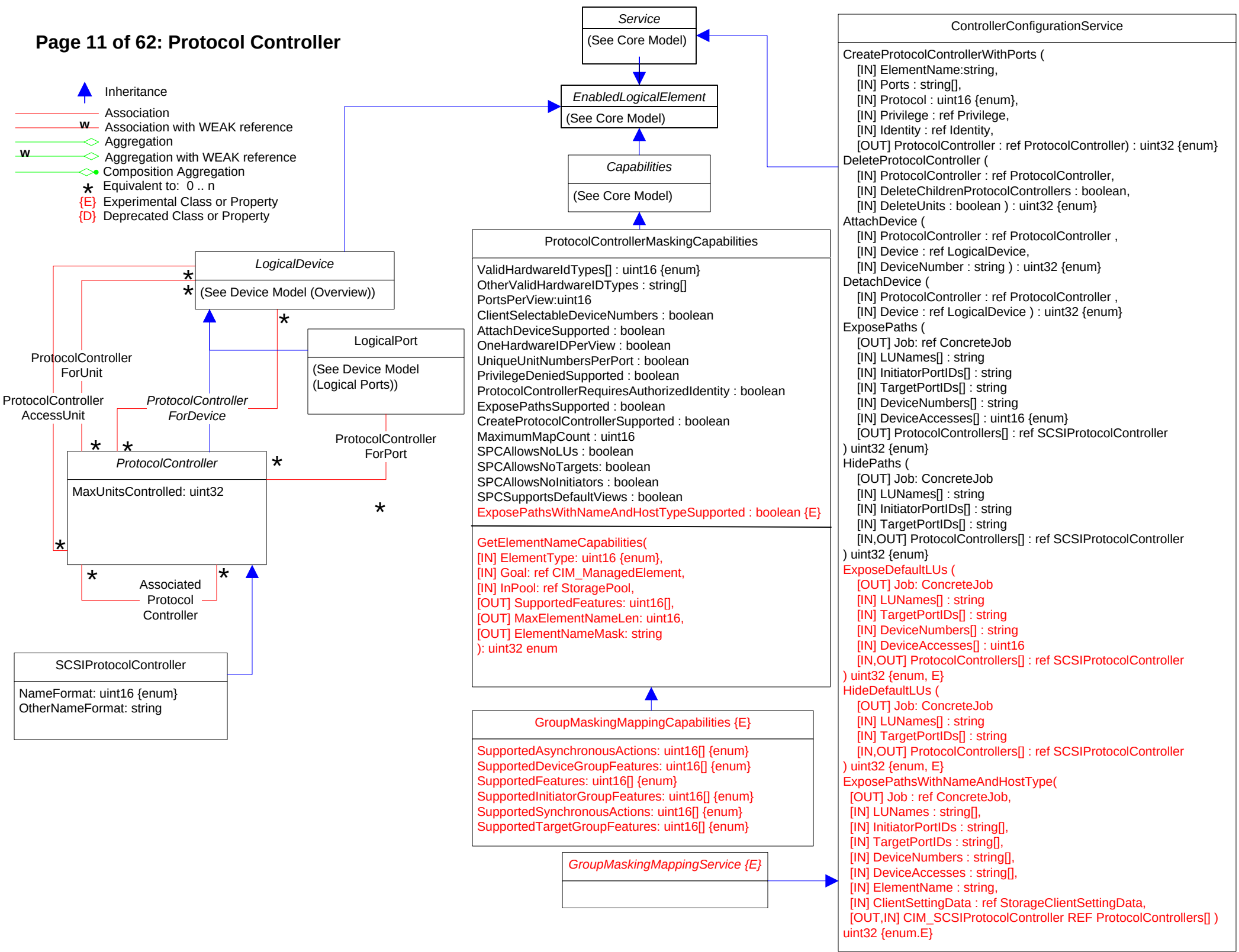


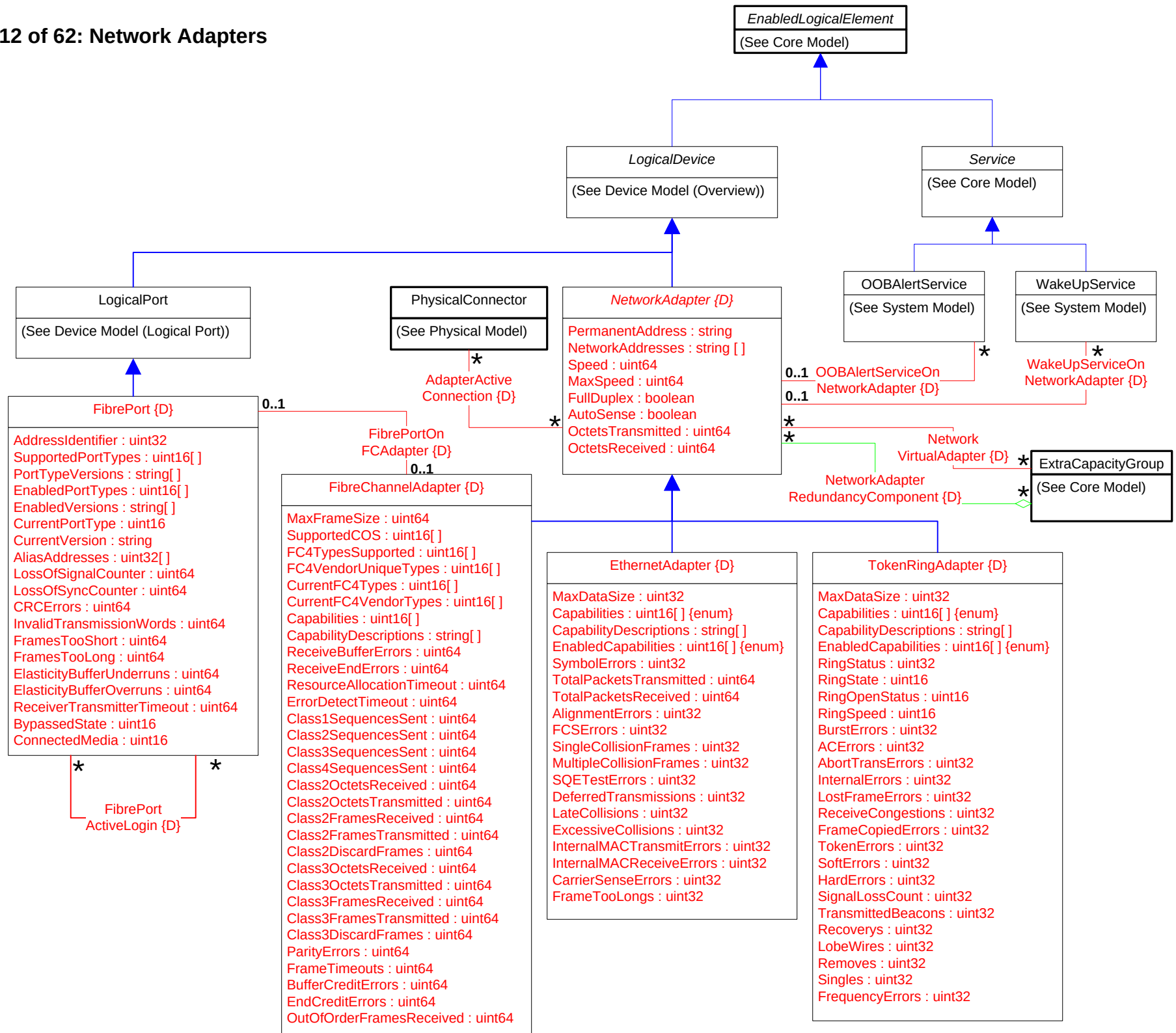


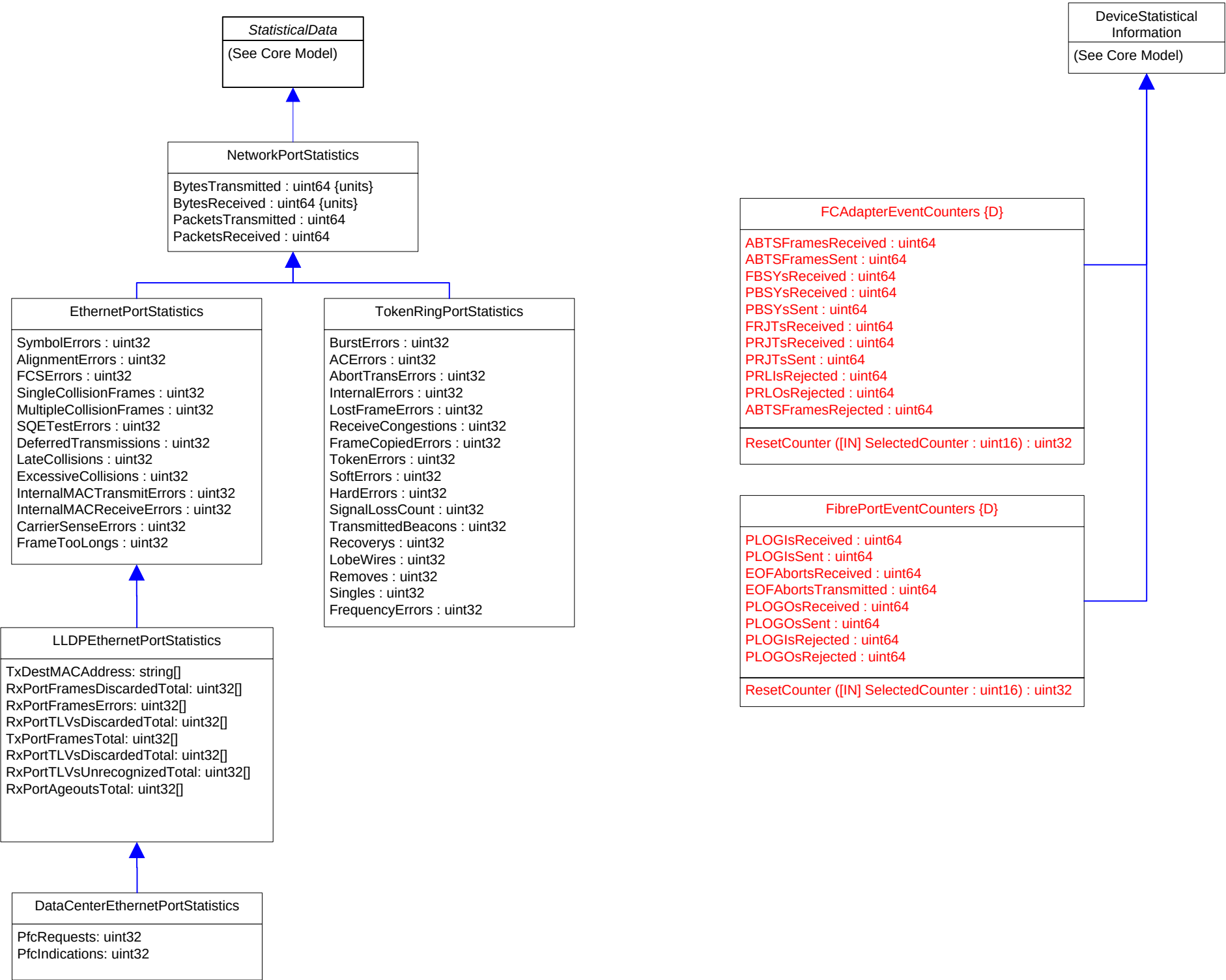


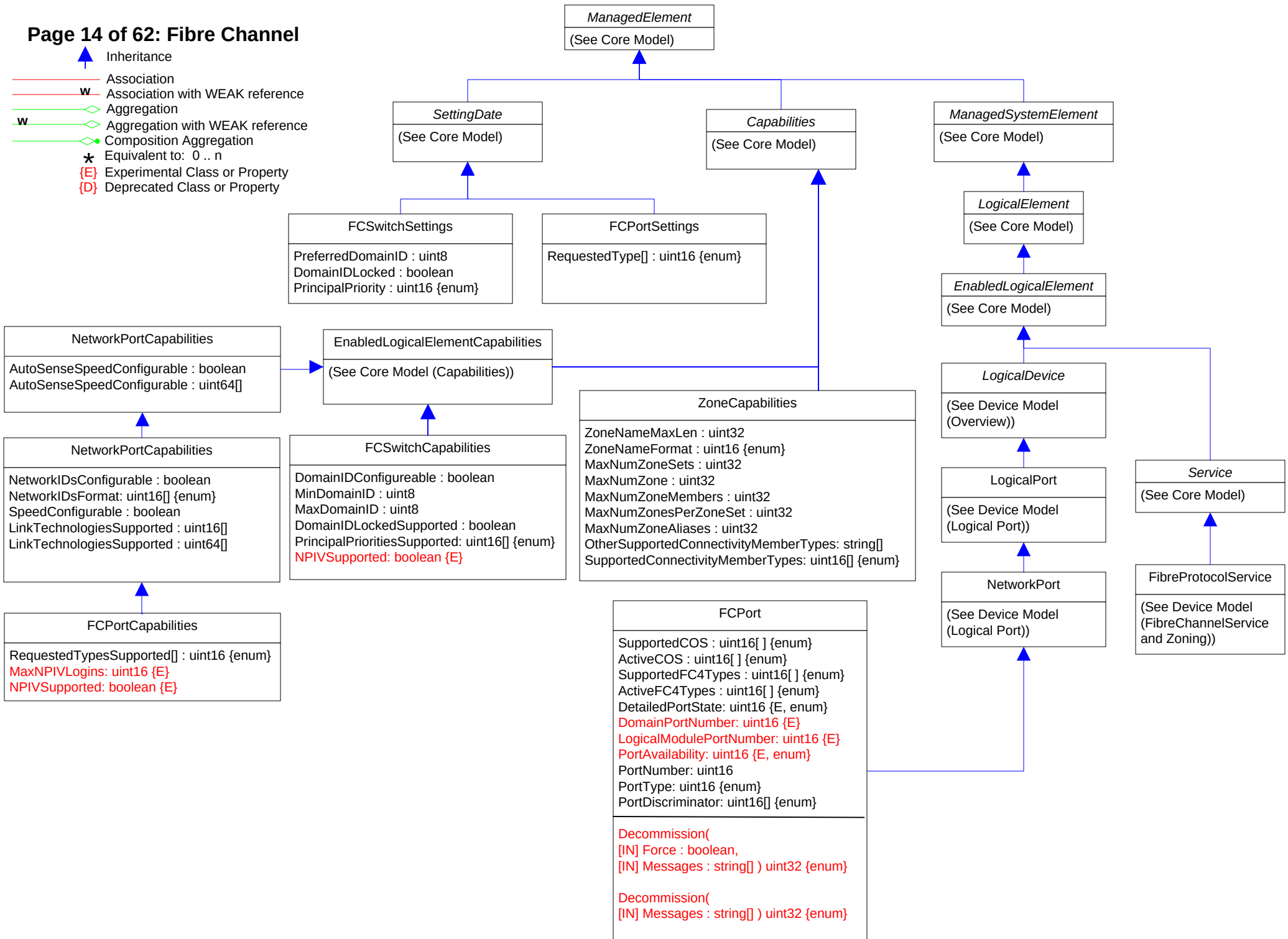


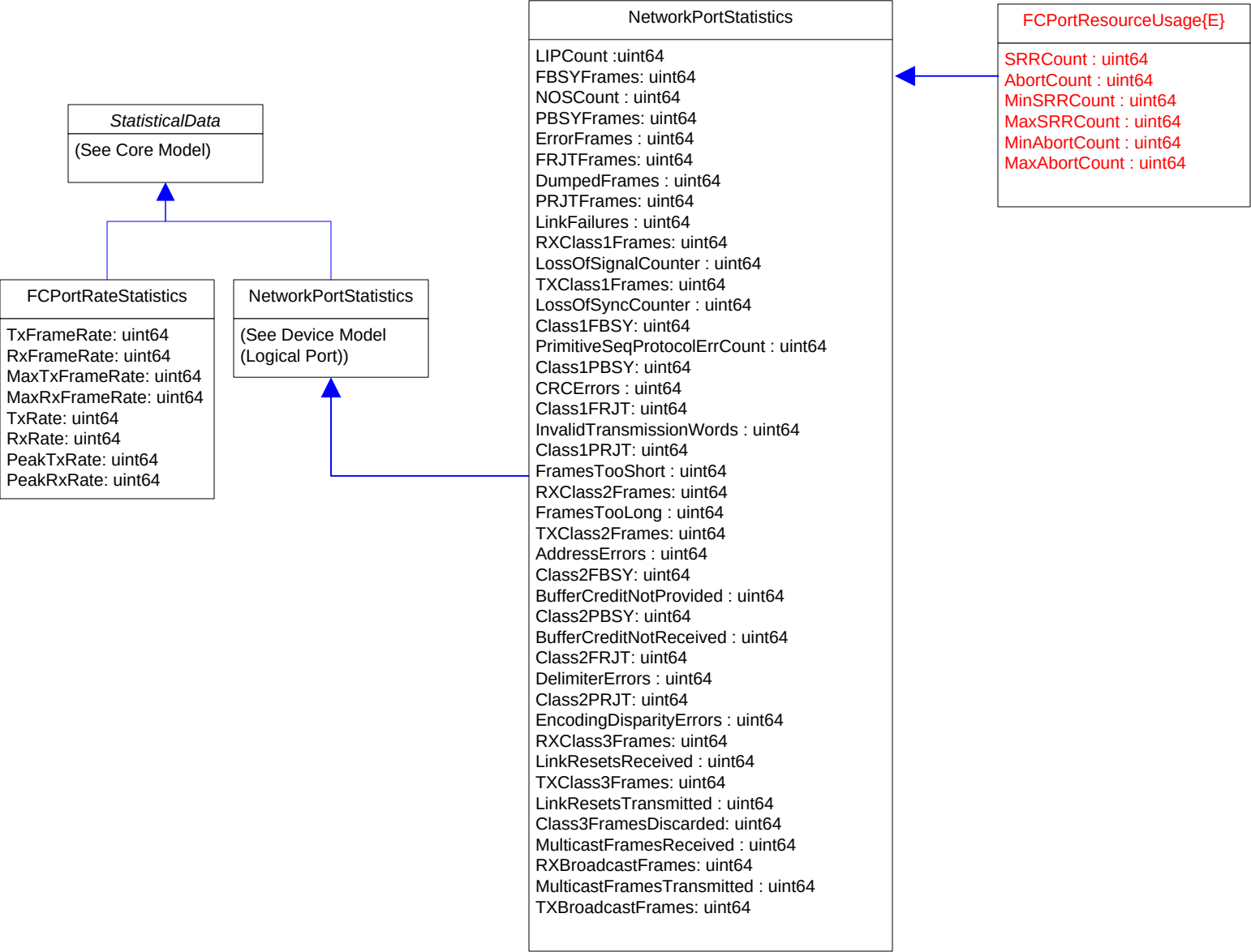


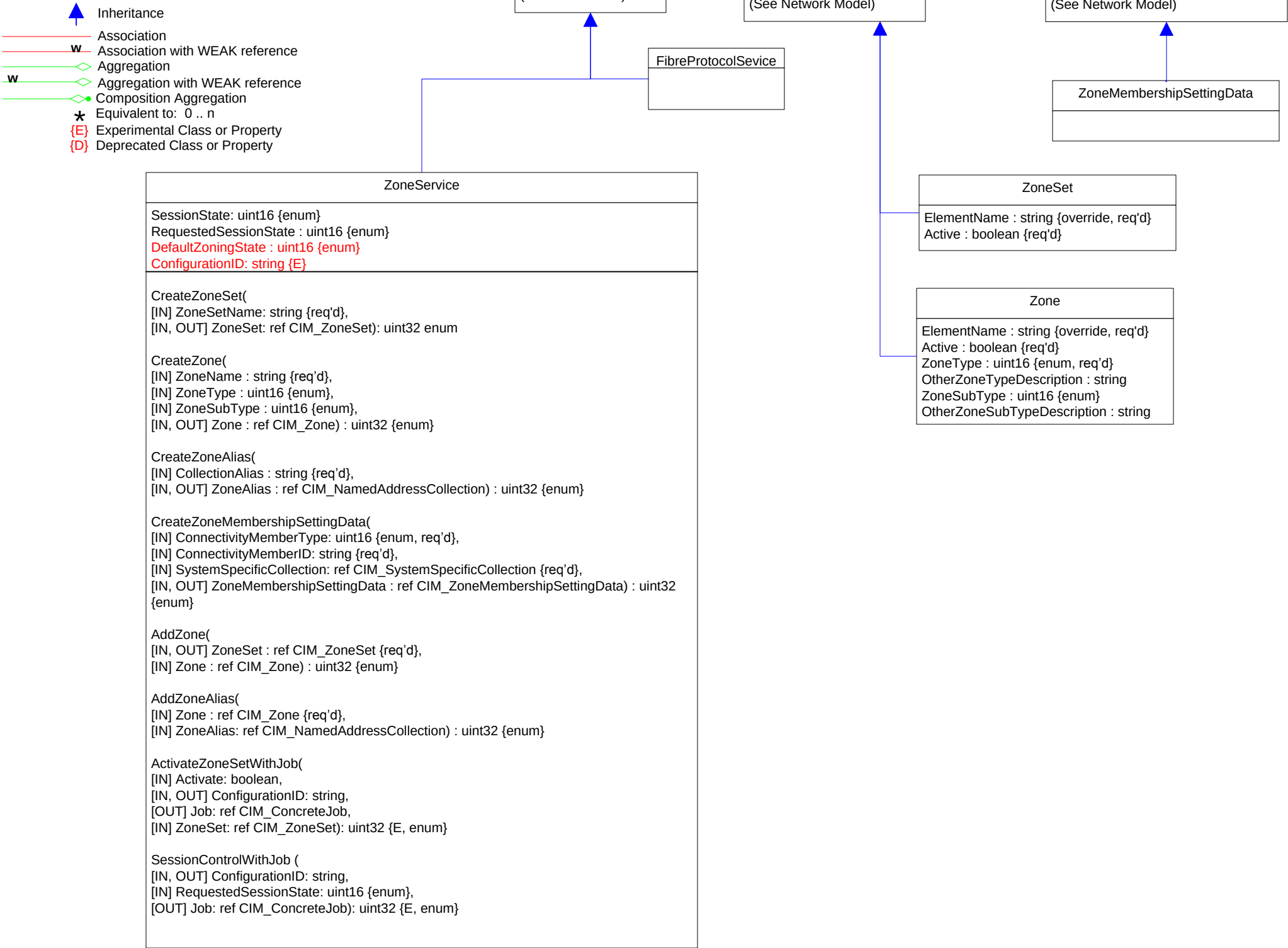


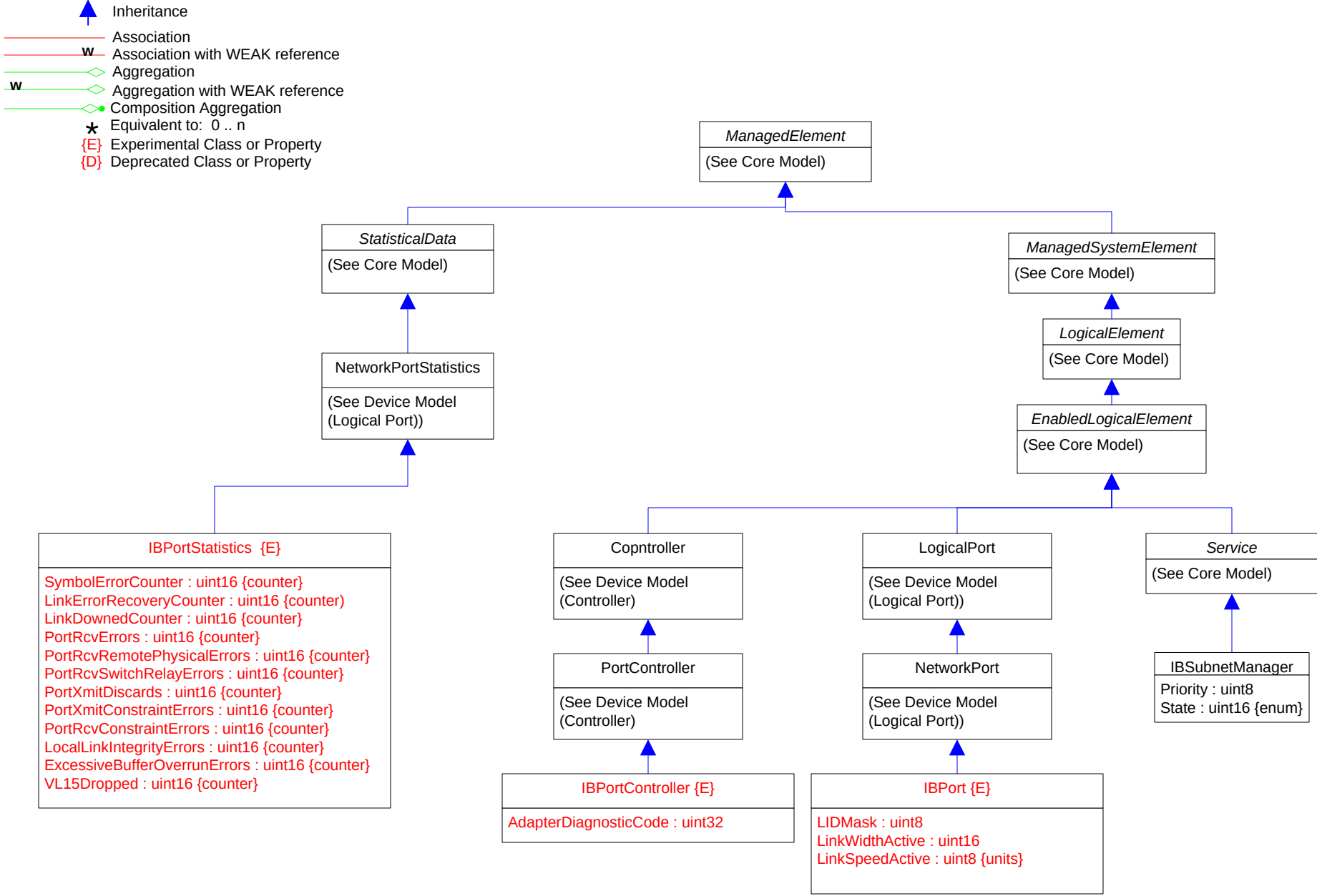


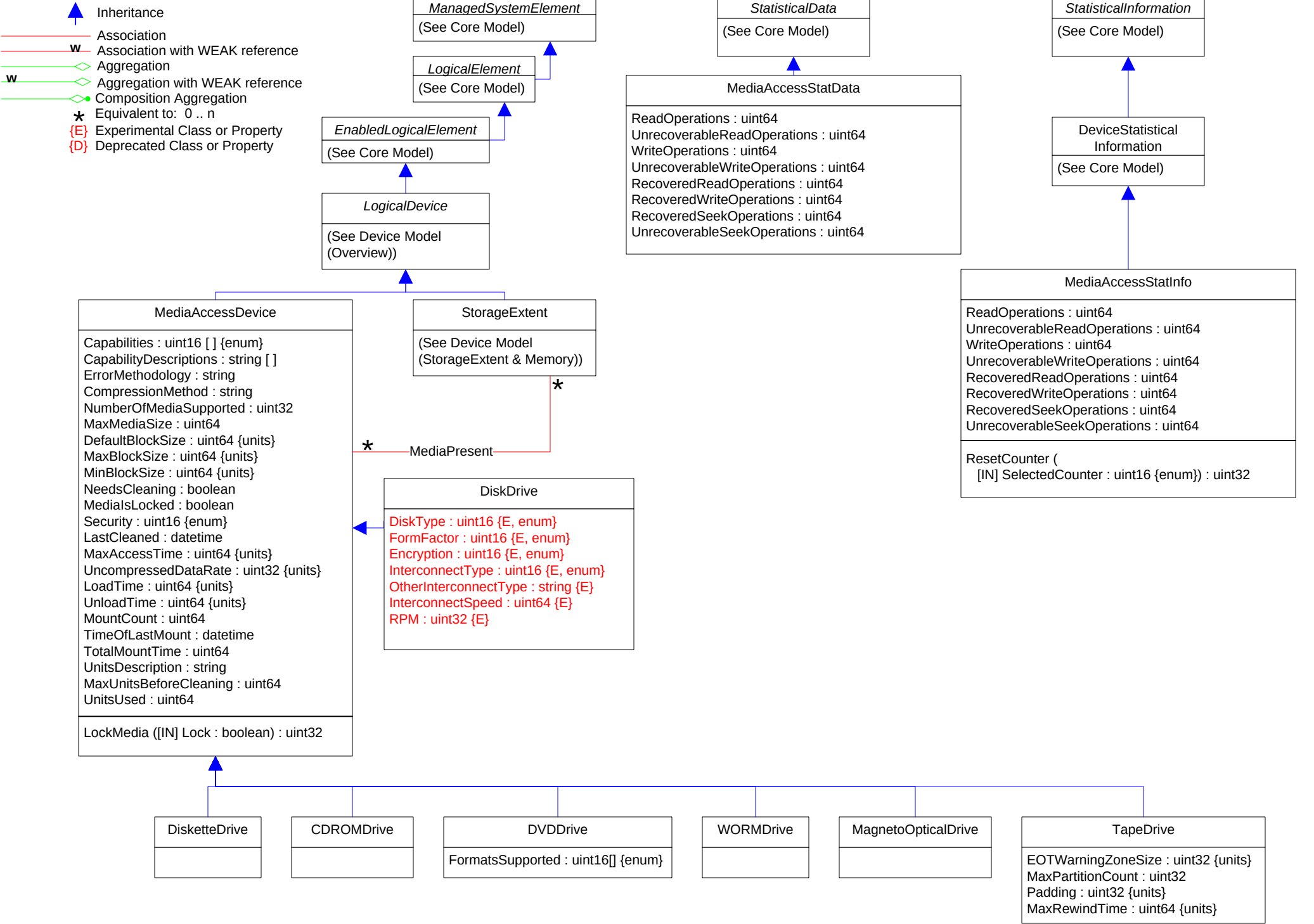




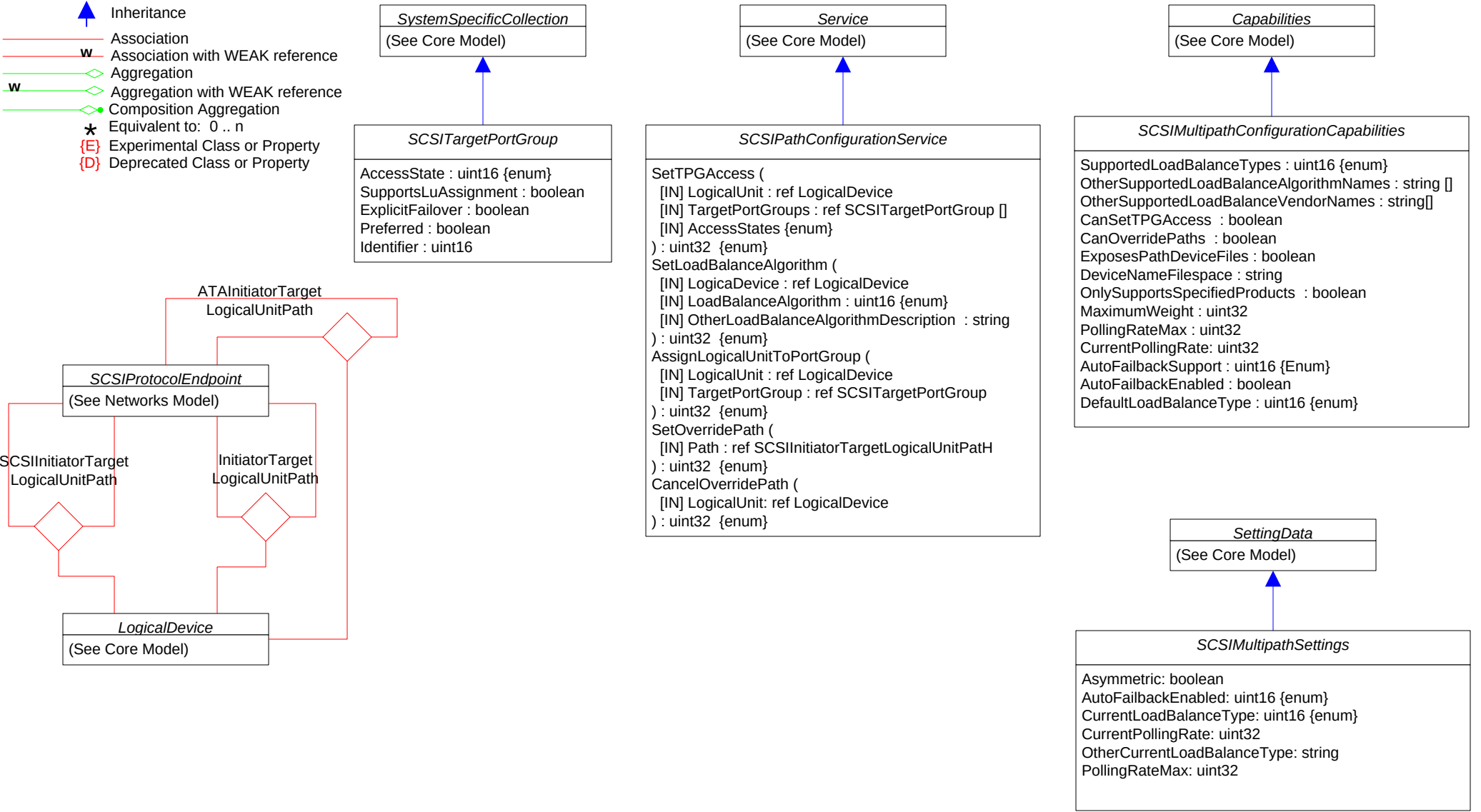


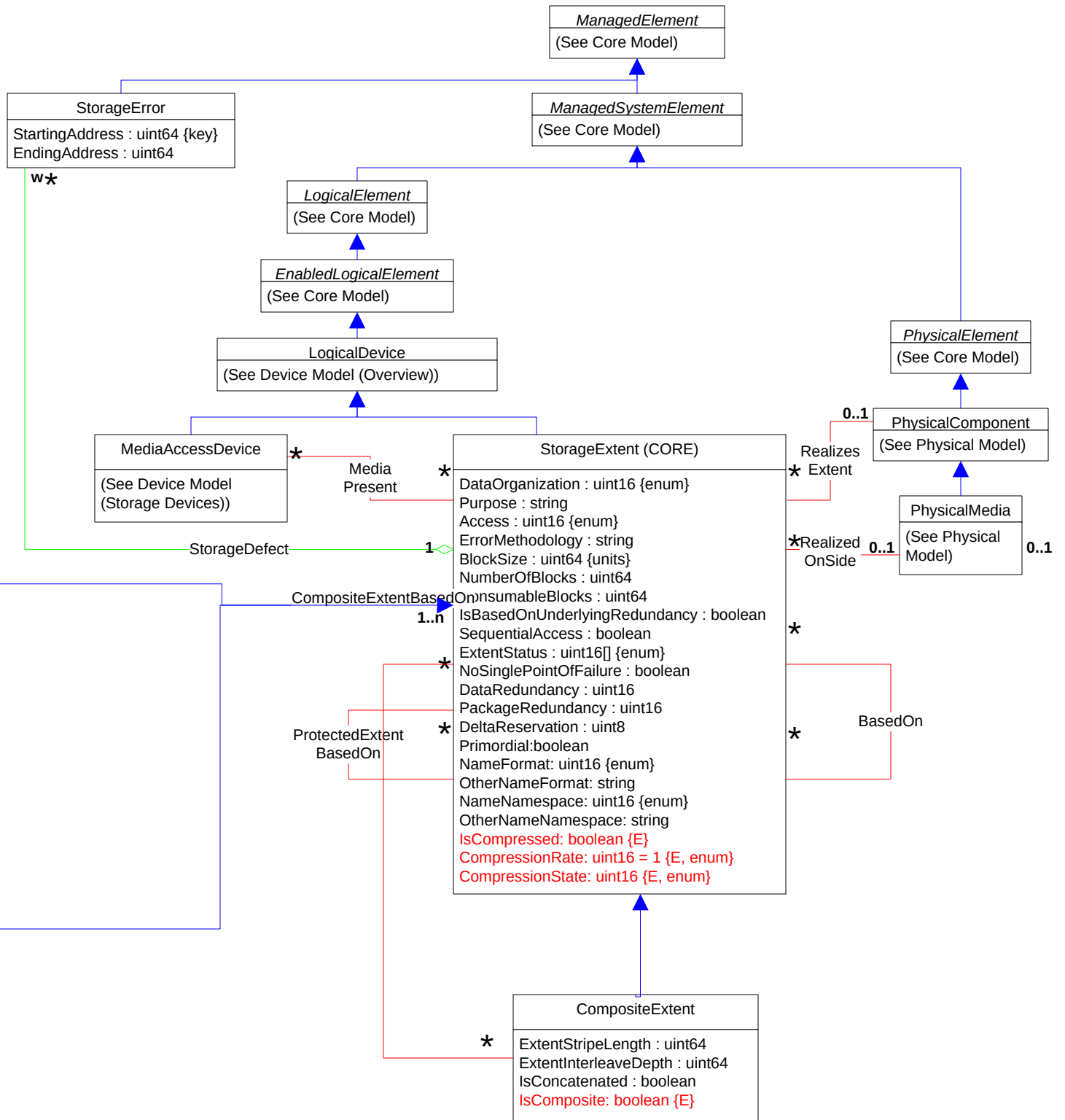


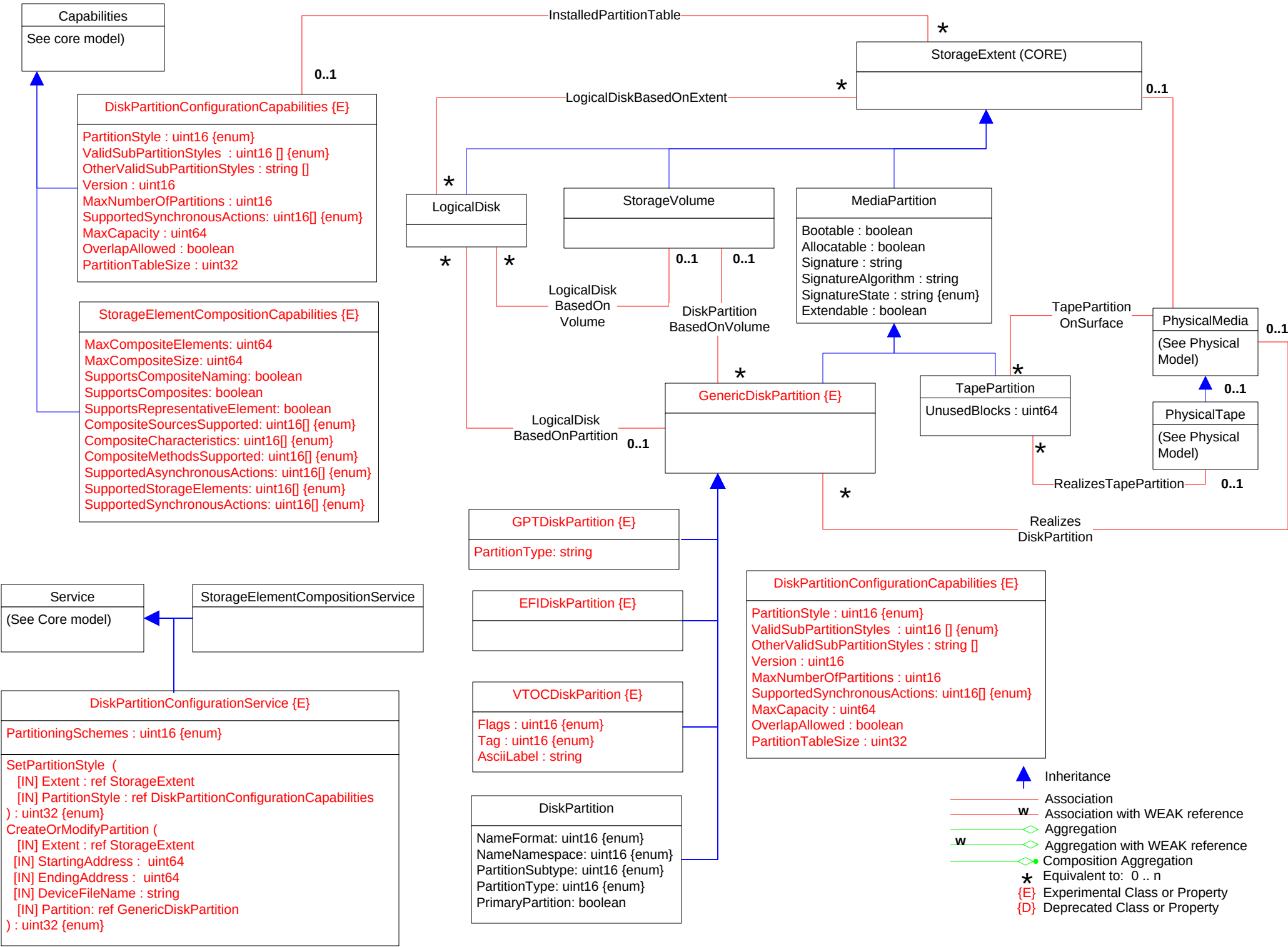




Page 19 of 62: Storage Multipath

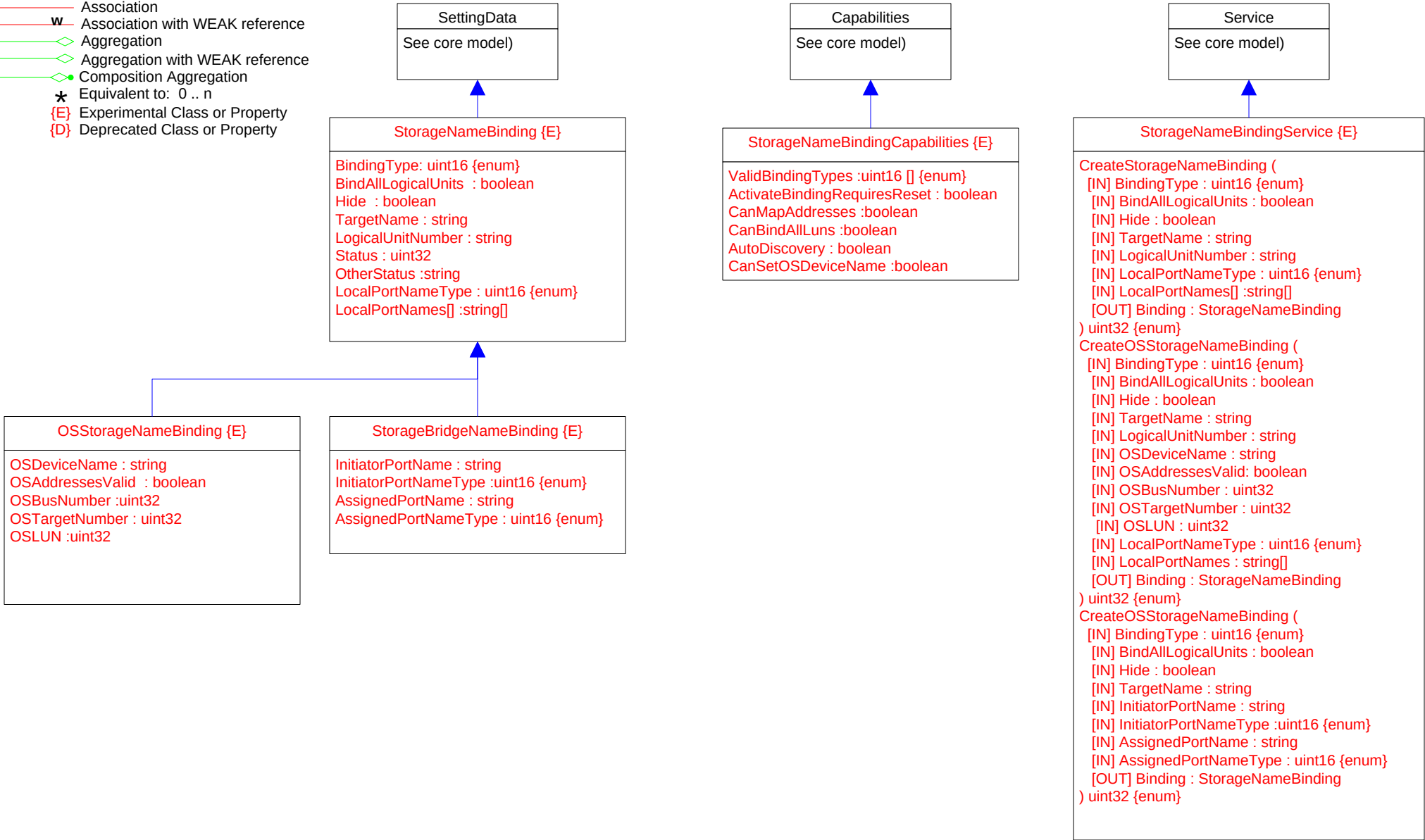




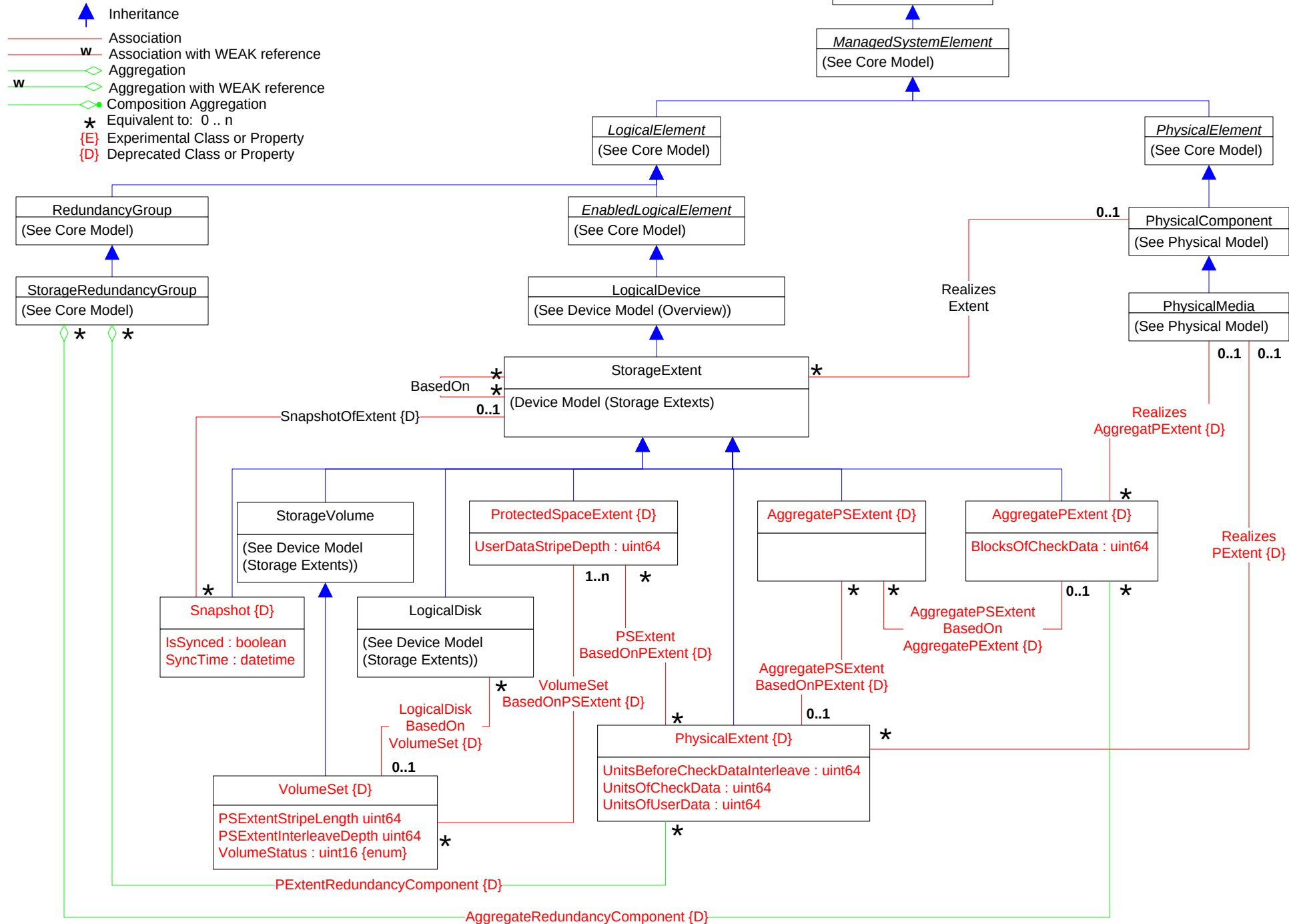


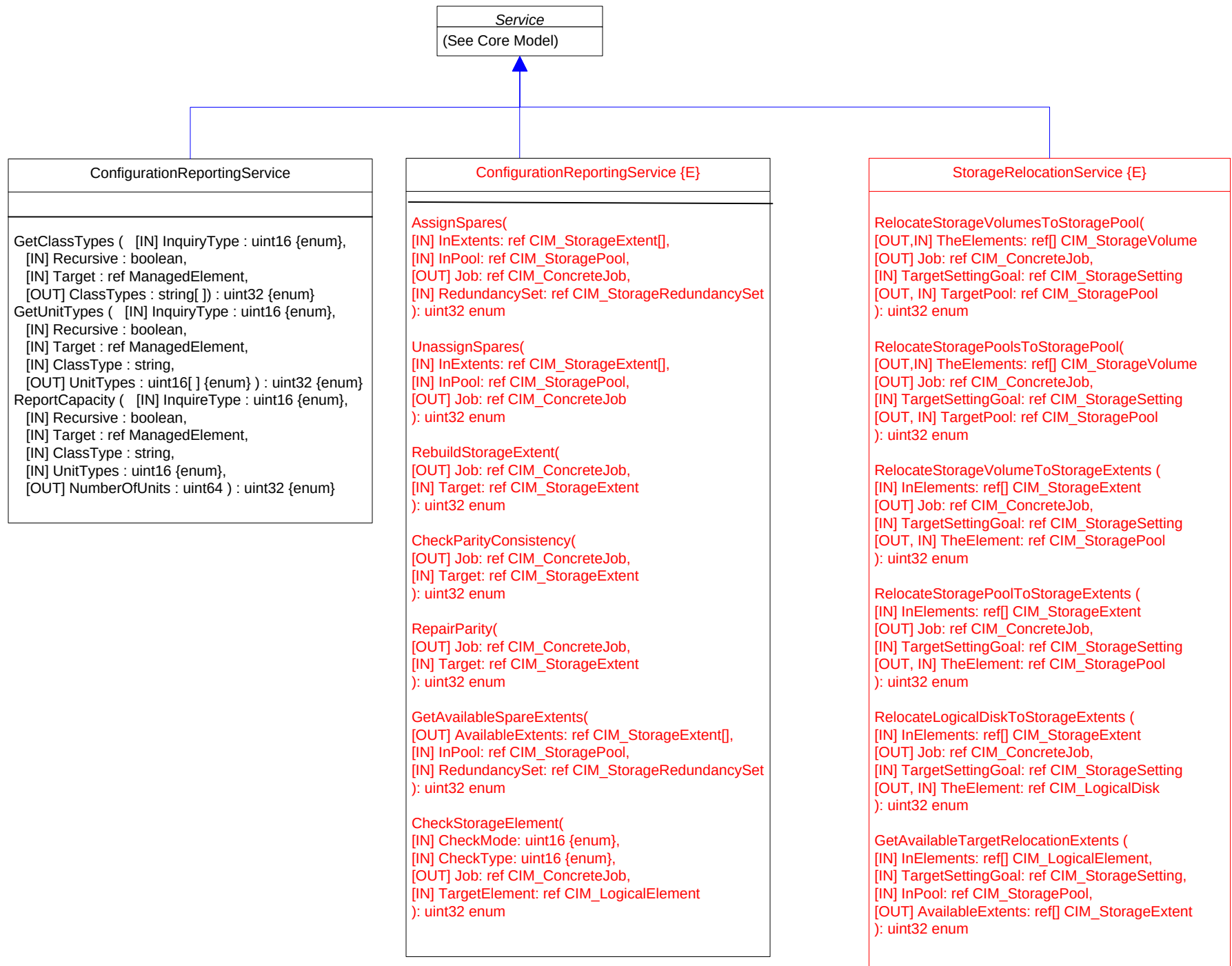
Page 22 of 62: StorageNameBinding

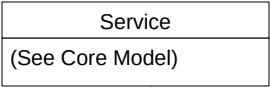
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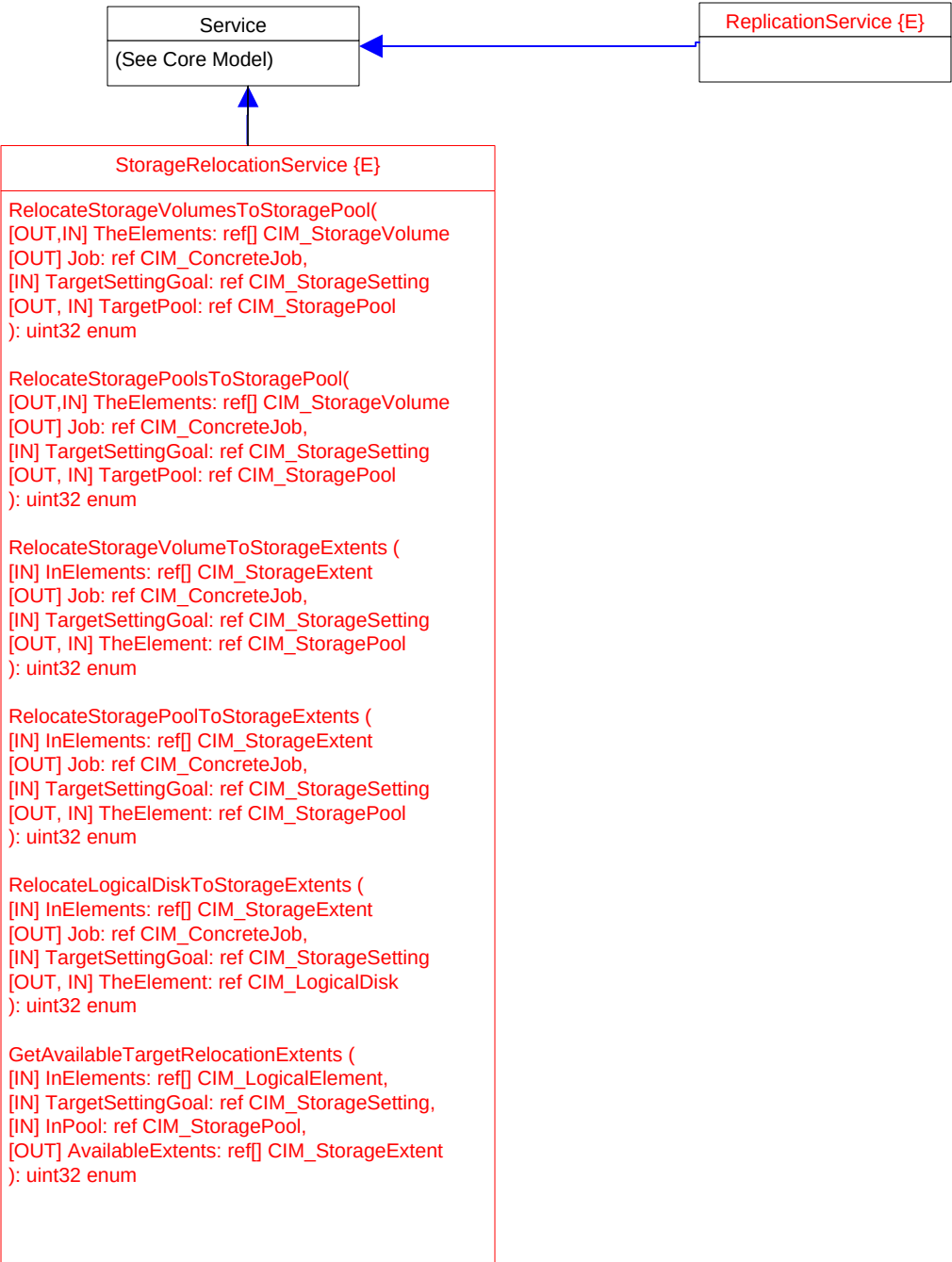
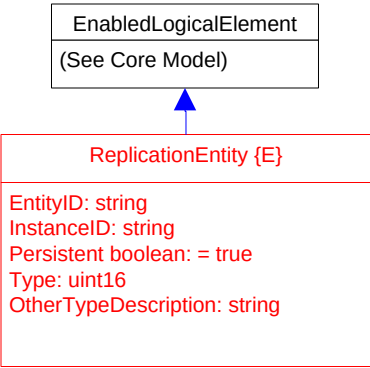


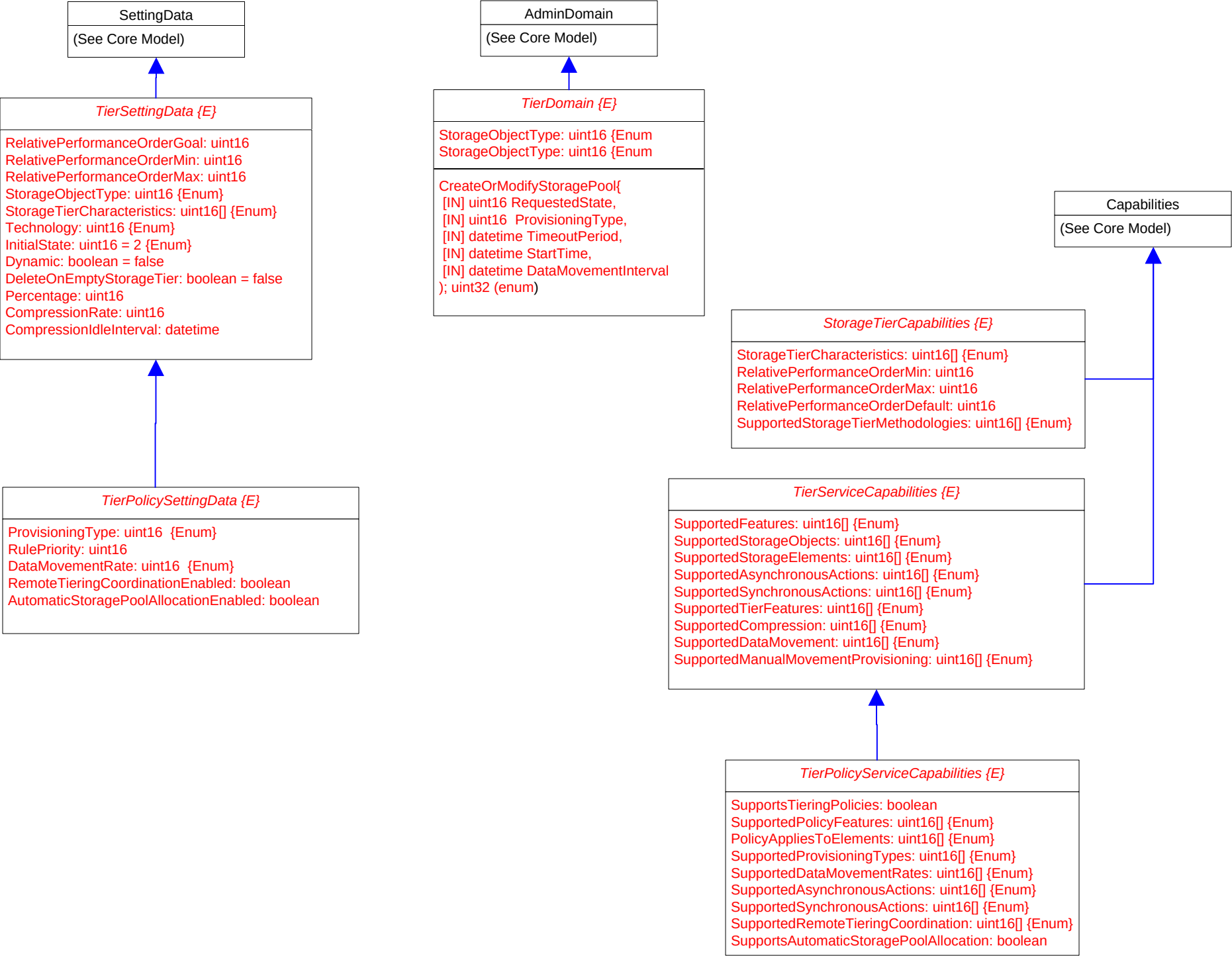


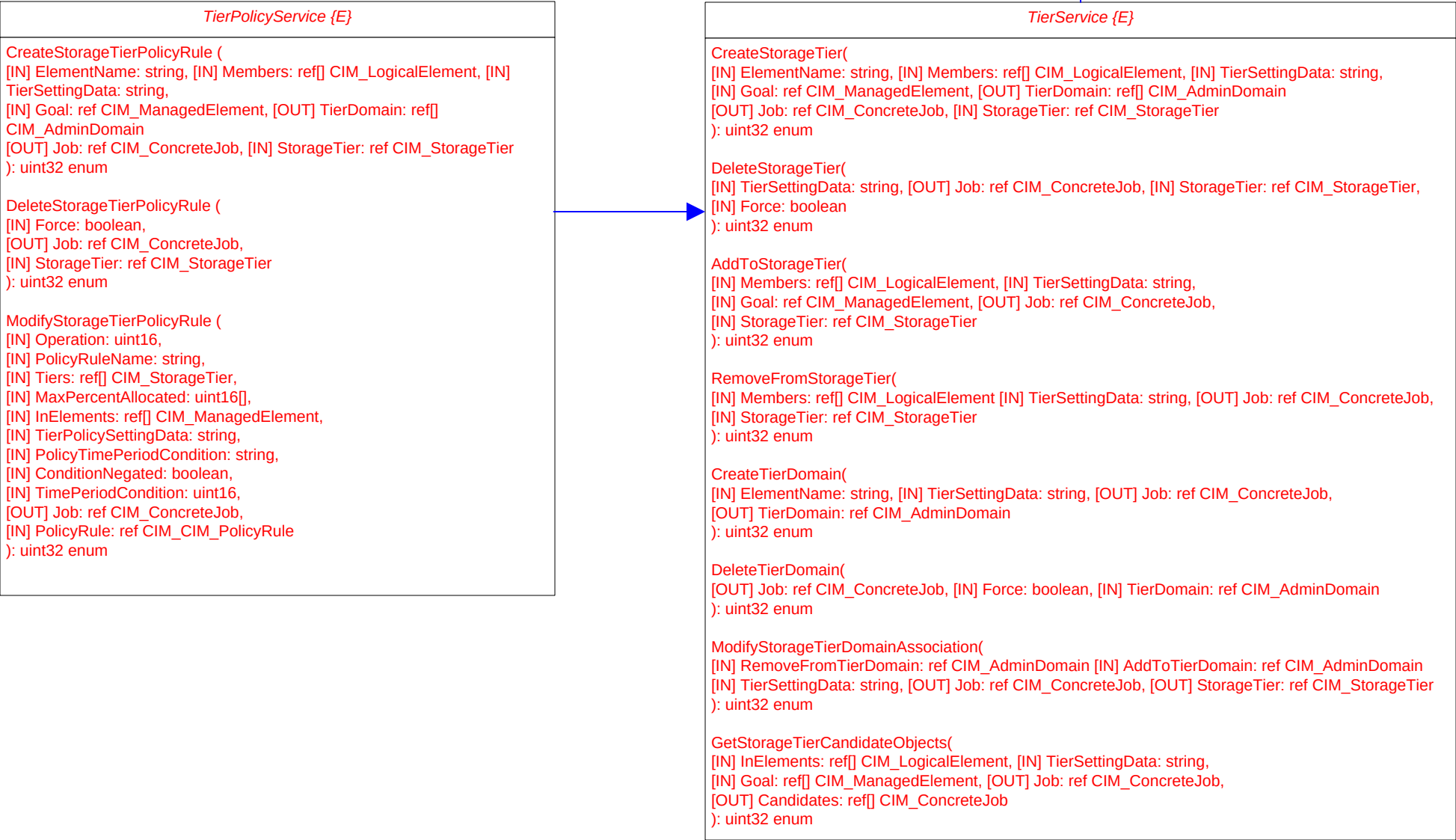


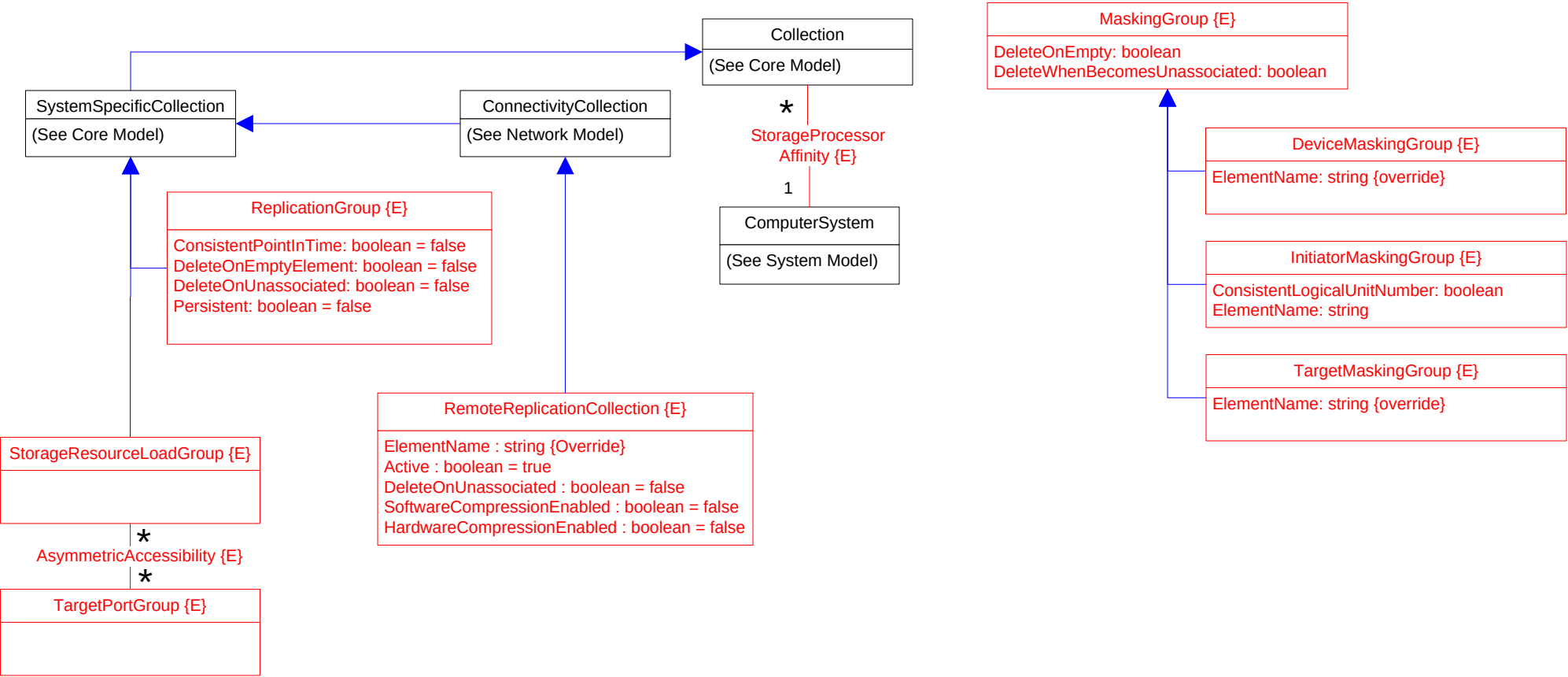
StorageConfigurationService {E}

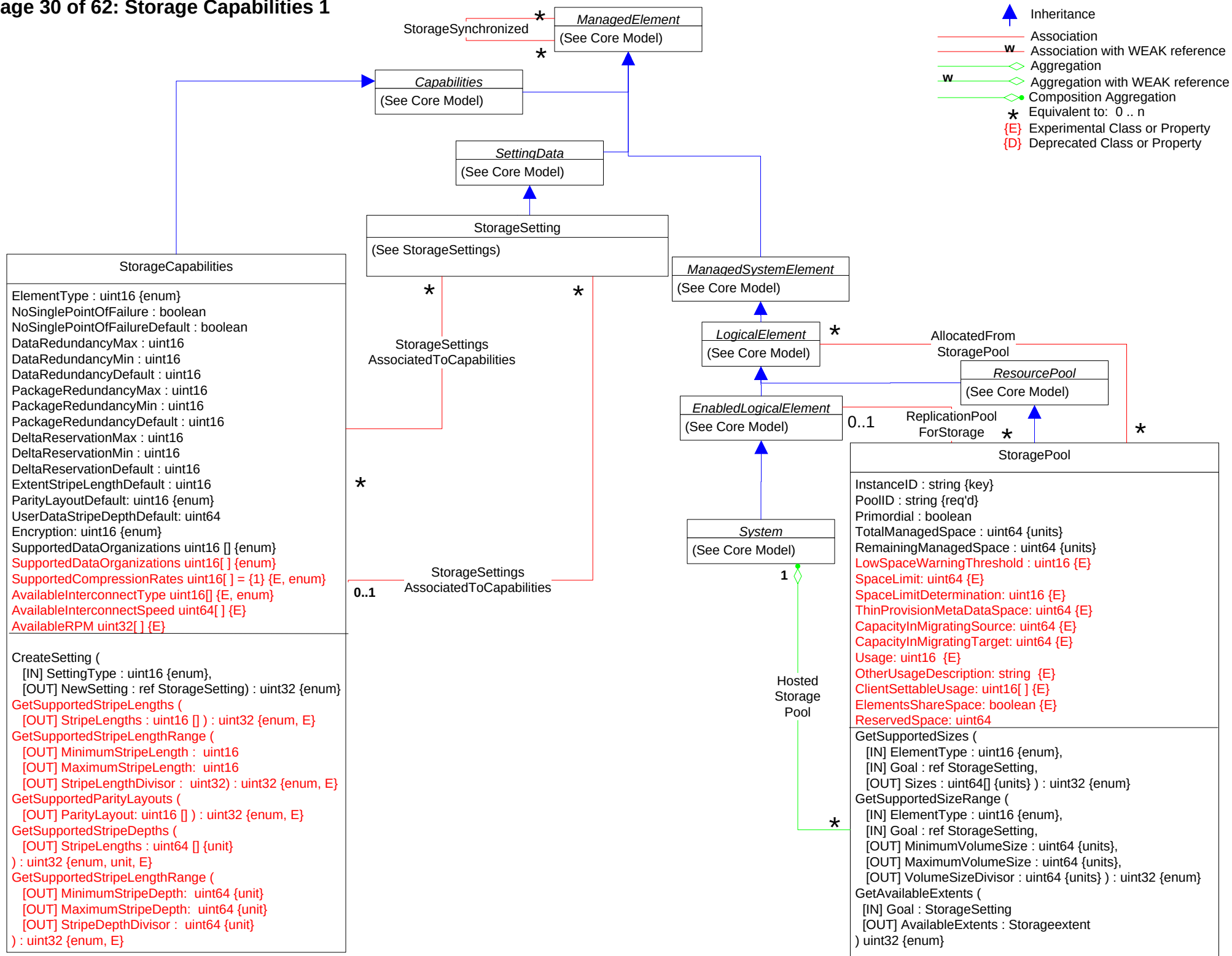
```
CreateOrModifyStoragePool(  
  [IN] string ElementName, [OUT] CIM_ConcreteJob ref Job, [IN] CIM_StorageSetting ref Goal, [IN] uint64 Size, [IN] string InPools[], [IN] string InExtents[], [OUT, IN] Pool: ref CIM_StoragePool ); uint32 (enum)  
CreateOrModifyElementFromStoragePool(  
  [IN] string ElementName, [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_StorageSetting,  
  [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)  
CreateElementsFromStoragePool(  
  [IN] string ElementNames[], [IN] uint16 ElementType, {enum}, [IN] uint64 ElementCount, [IN] Job: ref CIM_ConcreteJob, [IN] Goal: ref CIM_ManagedElement, [IN] uint64 Size, [IN] InPool: ref  
  CIM_StoragePool, [IN] TheElements: ref CIM_LogicalElement[]); uint32 (enum)  
ReturnElementsToStoragePool(  
  [IN] uint16 Options, {enum}, [IN] Job: ref CIM_ConcreteJob, [IN] TheElements: ref CIM_LogicalElement[]); uint32 (enum)
```

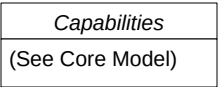










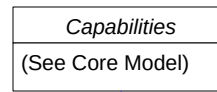


StorageReplicationCapabilities
SupportedSynchronizationType : uint16[] {enum} SupportedAsynchronousActions[] : uint16[] {enum} SupportedSynchronousActions : uint16[] {enum} InitialReplicationState : uint16 {enum} SupportedSpecializedElements[] : uint16 {enum} SupportedModifyOperations[] : uint16 {enum} 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

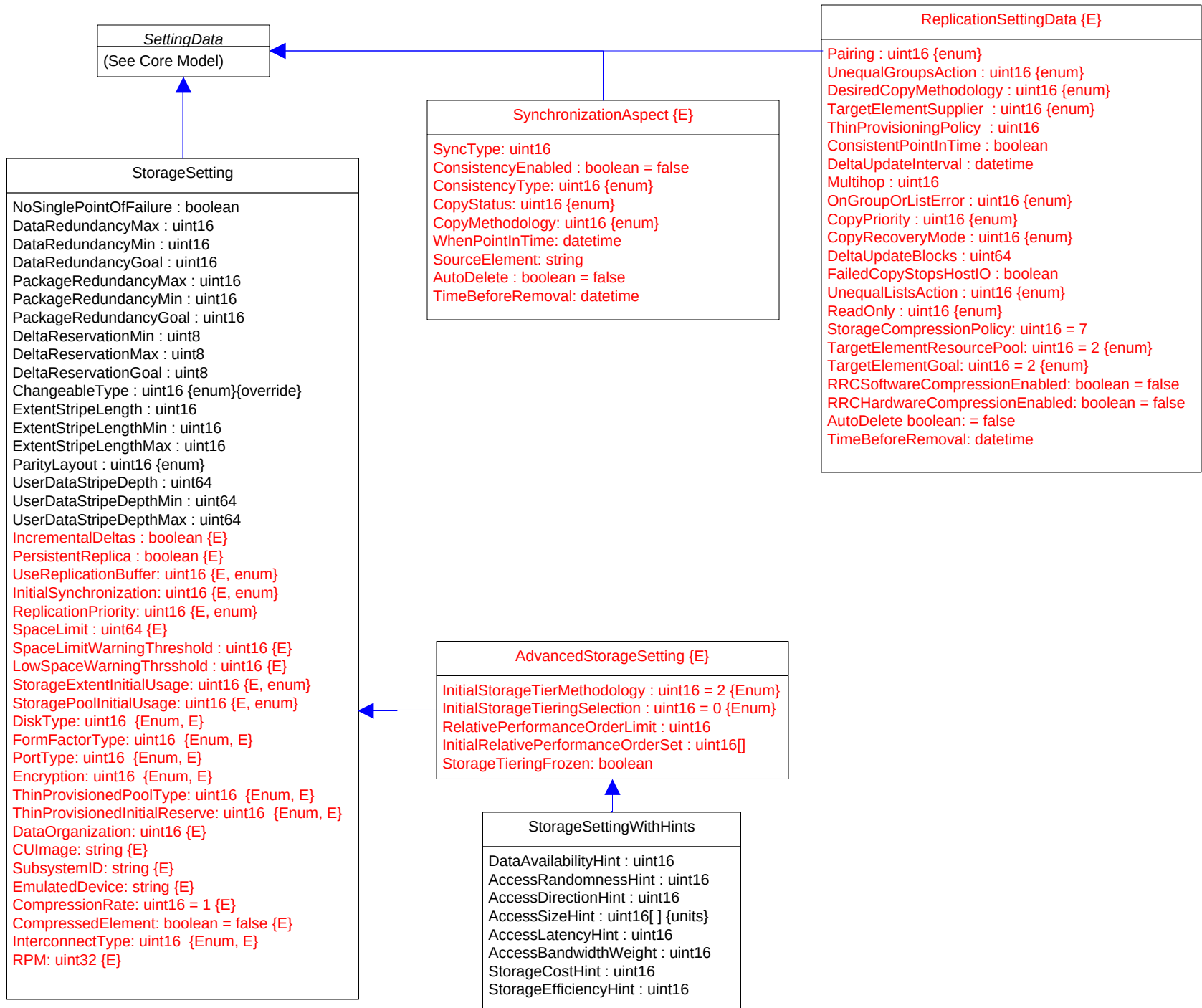
StorageServerAsymmetryCapabilities {E}
StorageResourceSymmetryCapability: uint16[] {enum} StorageResourceType: uint16[] {enum} StorageResourceAffinityAssignable: boolean PortGroupFailoverBehavior: uint16[] {enum} TargetPortSymmetryCapability: uint16[] {enum}

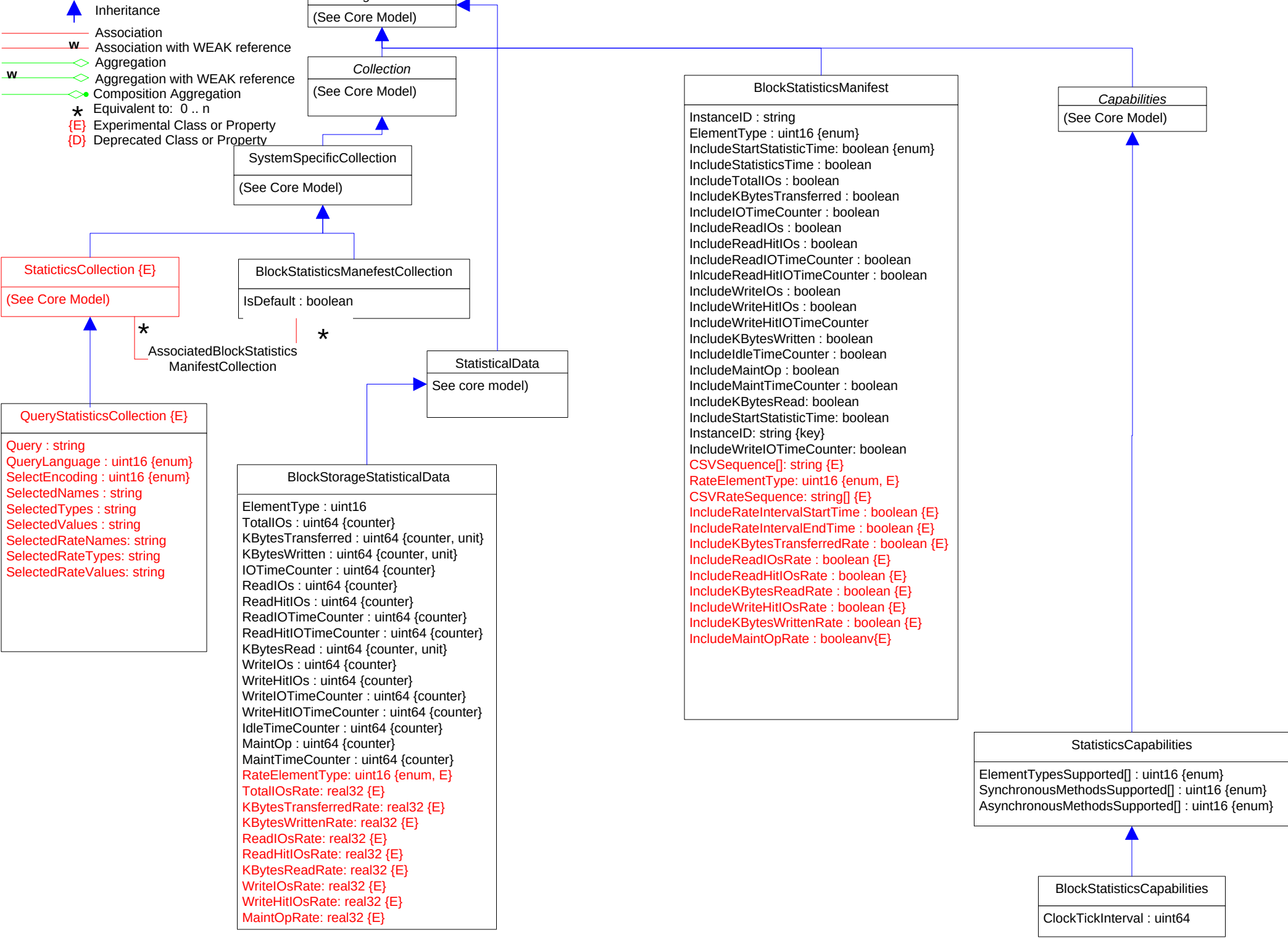
SpareConfigurationCapabilities
AutomaticFailOver: boolean MaximumSpareStorageExtents: uint32 SystemConfiguredSpares: boolean SupportedAsynchronousActions: uint16[] {enum} SupportedStorageElementCheck: uint16[] {enum} SupportedSynchronousActions: uint16[] {enum}

StorageConfigurationCapabilities
SupportedAsynchronousActions : uint16[] {enum} SupportedSynchronousActions : uint16[] {enum} SupportedStorageElementTypes : uint16[] {enum} SupportedStoragePoolFeatures : uint16[] {enum} SupportedStorageElementFeatures : uint16[] {enum} SupportedCopyTypes : uint16[] {enum} InitialReplicationState : uint16 {enum} ClientSettableElementUsage: uint16[] {E, enum} ClientSettablePoolUsage: uint16[] {E, enum} SupportedStorageElementUsage: uint16[] {E, enum} SupportedStoragePoolUsage: uint16[] {E, enum} ThinProvisionedClientSettableReserve: boolean {E} ThinProvisionedDefaultReserve: uint64 {E} MaximumElementCreateCount: uint64 {E} MaximumElementDeleteCount: uint64 {E} MultipleElementDeleteFeatures: uint16[] {E, enum} AutomaticPoolSelectionAllowed: boolean {E}
GetElementNameCapabilities {E} ([IN] ElementType: uint16 {enum}, [IN] Goal: ref CIM_ManagedElement, [IN] InPool: ref StoragePool, [OUT] SupportedFeatures: uint16[], [OUT] MaxElementNameLen: uint16, [OUT] ElementNameMask: string) : uint32 enum

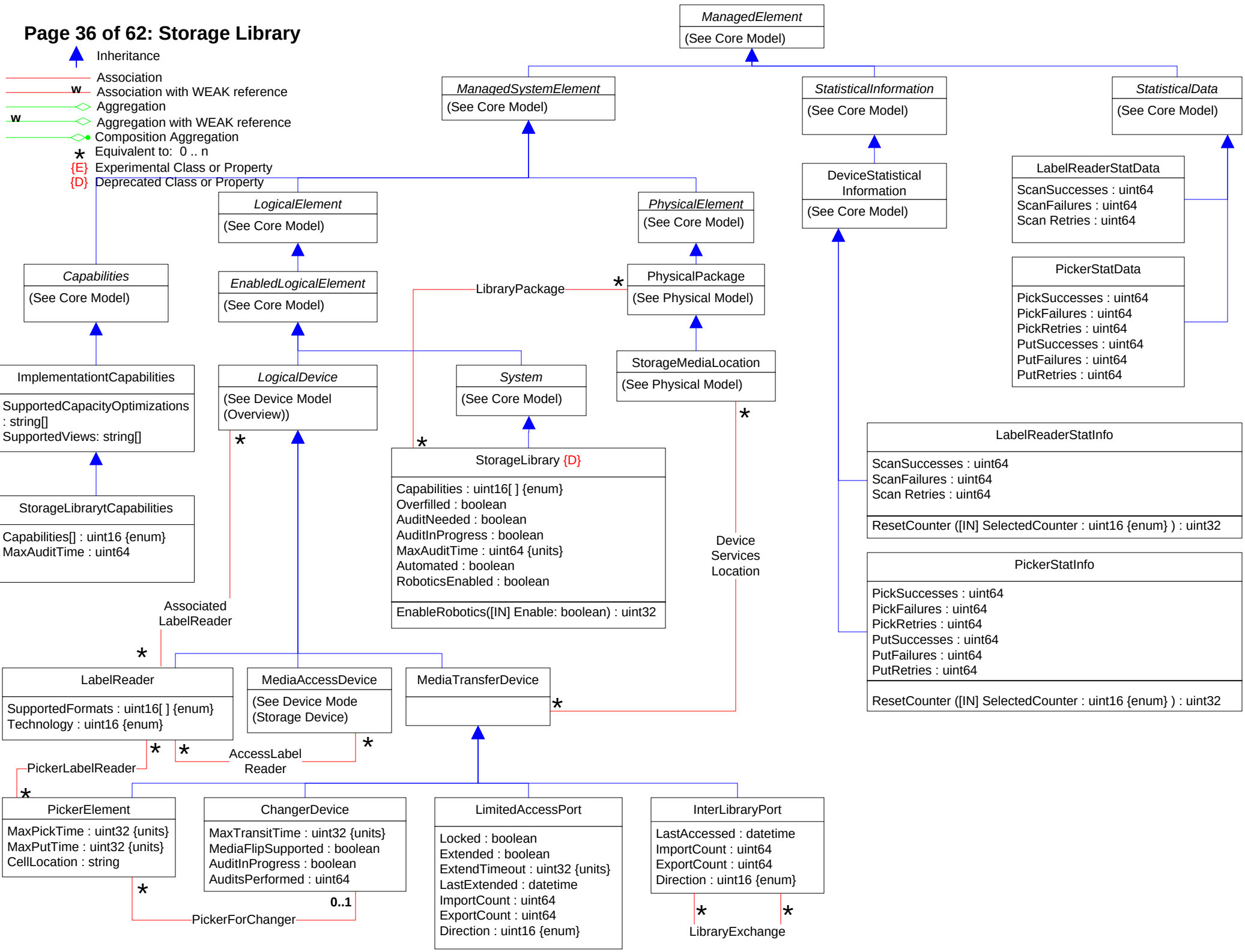


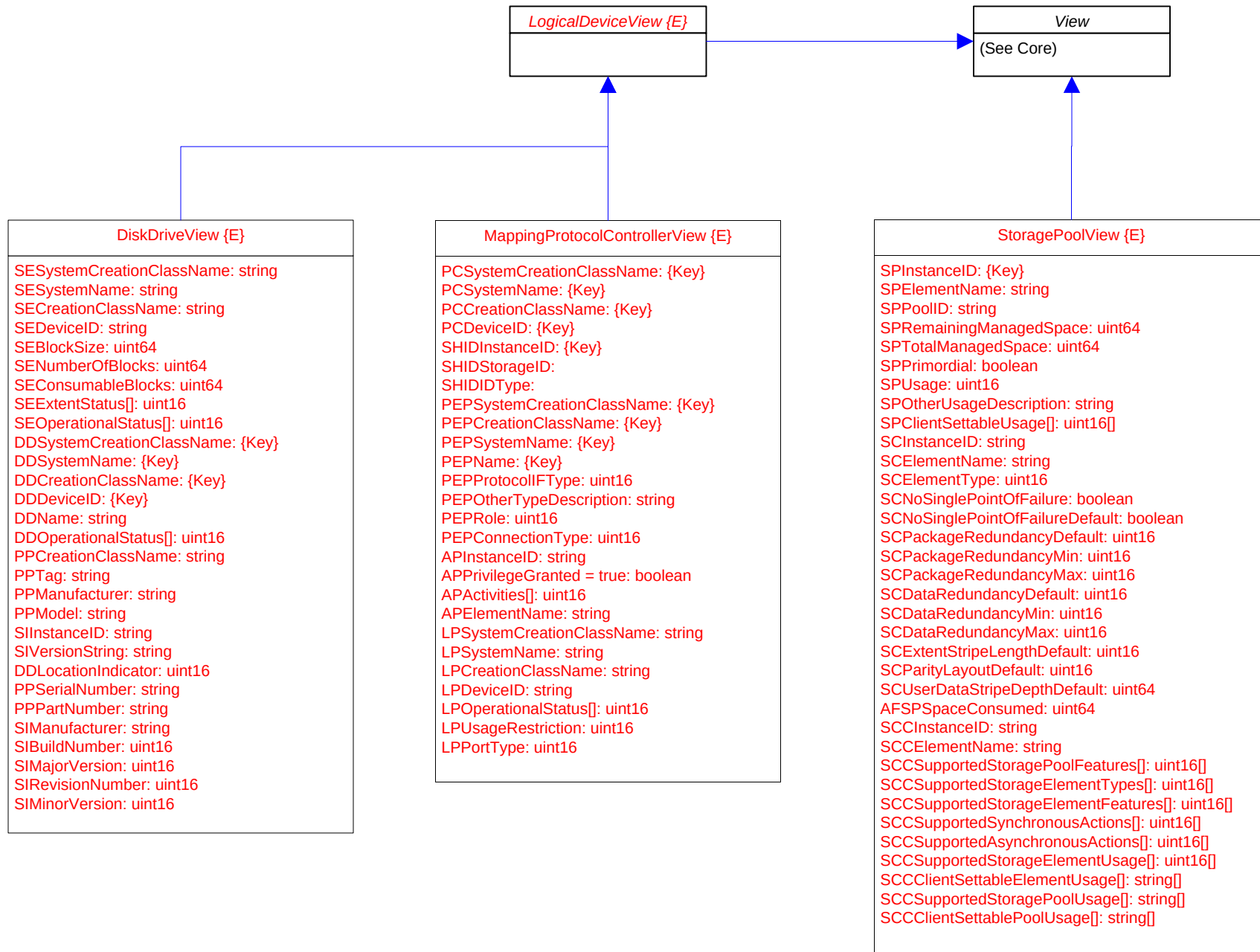
ReplicationServiceCapabilities {E}
SupportedReplicationTypes uint16[] {enum} SupportedStorageObjects uint16[] {enum} SupportedAsynchronousActions uint16[] {enum} SupportedSynchronousActions uint16[] {enum}
ConvertReplicationTypeToSyncType([IN] uint16 ReplicationType, [IN] uint16 SyncType, [IN] uint16 Mode, [OUT] uint16 LocalOrRemote); uint32 (enum) GetSupportedCopyStates([IN] uint16 ReplicationType[], [IN] uint16 SupportedCopyStates[], [OUT] boolean HostAccessible[], [IN] string ReplicationSettingData); uint32 (enum) GetSupportedGroupCopyStates([IN] uint16 ReplicationType, [OUT] uint16 SupportedCopyStates[], string ReplicationSettingData); uint32 (enum) GetSupportedWaitForCopyStates([IN] uint16 ReplicationType, [IN] uint16 MethodName, [OUT] uint16 SupportedCopyStates[], [IN] string ReplicationSettingData); uint32 (enum) GetSupportedFeatures([IN] uint16 ReplicationType, [OUT] uint16 Features[],[IN] string ReplicationSettingData); uint32 (enum) GetSupportedGroupFeatures([IN] uint16 ReplicationType, [OUT] uint16 GroupFeatures[], [IN] string ReplicationSettingData); uint32 (enum) GetSupportedConsistency([IN] uint16 ReplicationType, [OUT] uint16 SupportedConsistency[], [IN] string ReplicationSettingData); uint32 (enum) GetSupportedOperations([IN] uint16 ReplicationType, [OUT] uint16 SupportedOperations[], [IN] string ReplicationSettingData); uint32 (enum) GetSupportedGroupOperations([IN] uint16 ReplicationType, [OUT] uint16 SupportedGroupOperations[], [IN] string ReplicationSettingData); uint32 (enum) GetSupportedListOperations([IN] uint16 ReplicationType, [IN] uint16 SynchronizationType, [OUT] uint16 SupportedListOperations[], [IN] string ReplicationSettingData); uint32 (enum) GetSupportedSettingsDefineStateOperations([IN] uint16 ReplicationType, [OUT] uint16 SupportedOperations[], [IN] string ReplicationSettingData); uint32 (enum) GetSupportedThinProvisioningFeatures([IN] uint16 ReplicationType, [OUT] uint16 SupportedThinProvisioningFeatures[]); uint32 (enum) GetSupportedMaximum([IN] uint16 ReplicationType, [IN] uint16 Component, [OUT] uint64 MaxValue, [IN] string ReplicationSettingData); uint32 (enum) GetDefaultConsistency([IN] uint16 ReplicationType, [OUT] uint16 DefaultConsistency); uint32 (enum) GetDefaultGroupPersistence([OUT] uint16 DefaultGroupPersistence); uint32 (enum) GetSupportedReplicationSettingData([IN] uint16 ReplicationType, [IN] uint16 PropertyName, [OUT] uint64 SupportedValues[], [IN] string ReplicationSettingData); uint32 (enum) GetDefaultReplicationSettingData([IN] uint16 ReplicationType, [OUT] string DefaultInstance); uint32 (enum) GetSupportedConnectionFeatures([IN] CIM_ServiceAccessPoint REF Connection, [OUT] uint16 SupportedConnectionFeatures[]); uint32 (enum) GetSynchronizationSupported([IN] CIM_LogicalElement REF LocalElement, [IN] CIM_LogicalElement REF OtherElement, [IN] CIM_ServiceAccessPoint REF OtherElementAccessPoint, [IN] uint16 MethodName, [OUT] uint16 SyncTypes[], [OUT] uint16 Modes[], [OUT] uint16 LocalElementRole[]); uint32 (enum) GetSupportedStorageCompressionFeatures([IN] uint16 ReplicationType, [OUT] uint16 SupportedStorageCompressionFeatures[], [IN] string ReplicationSettingData); uint32 (enum) GetSupportedTokenizedReplicationType([IN] CIM_ManagedElement REF SourceElement,[IN] CIM_ManagedElement REF TargetElement, [IN] CIM_ServiceAccessPoint REF ElementAccessPoint, [IN] string ReplicationSettingData, [OUT] uint16 ReplicationTypes[]); uint32 (enum)



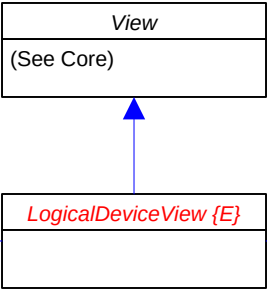




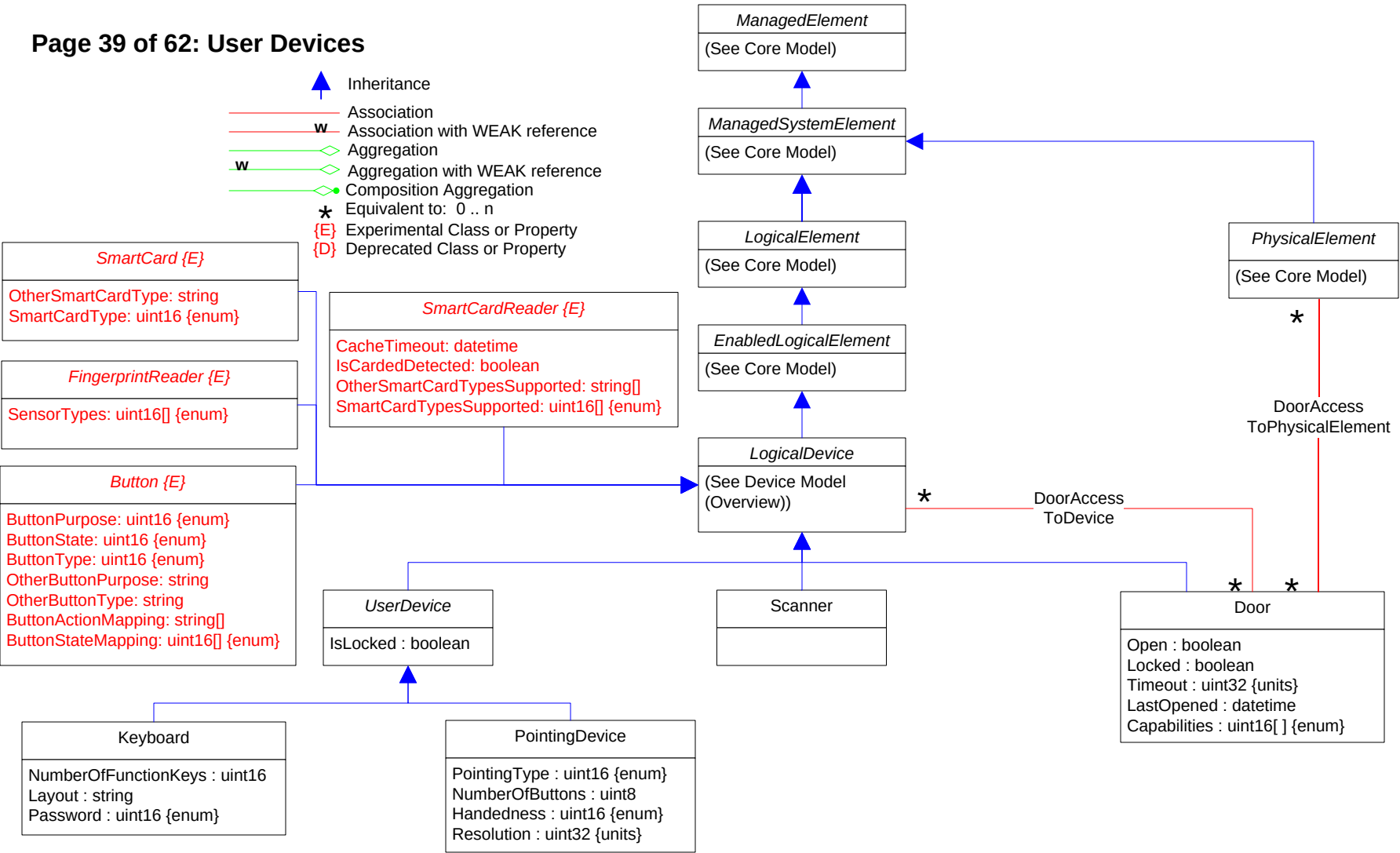
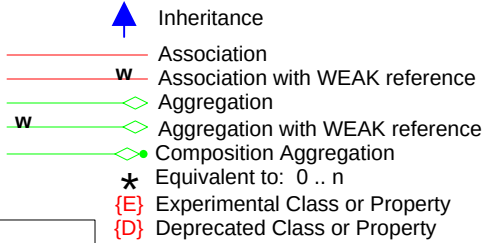




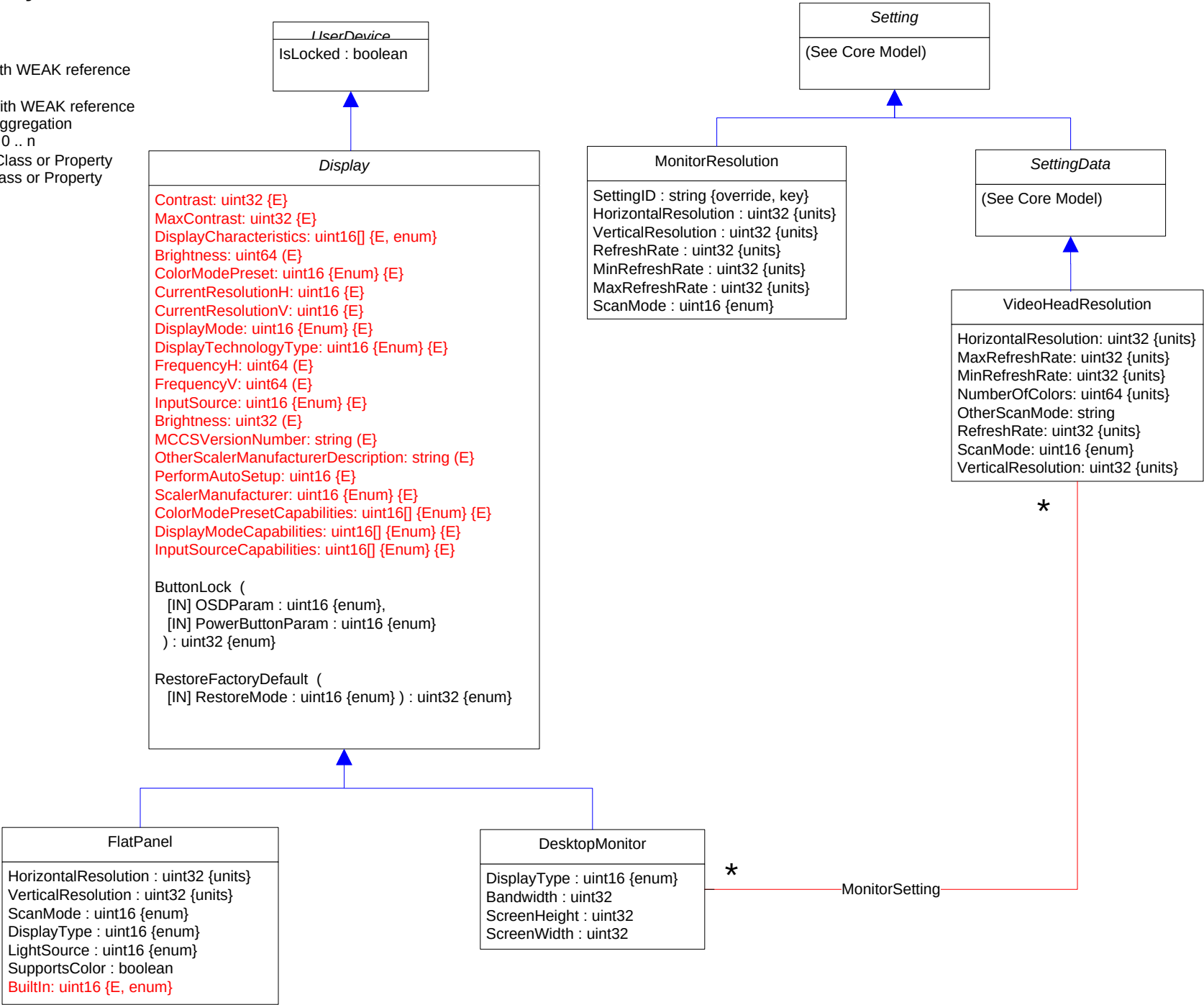
VolumeView {E}
SVSystemCreationClassName: {Key} SVSystemName: {Key} SVCreationClassName: {Key} SVDeviceID: {Key} SVName: string SVNameFormat: uint16 SVNameNamespace: uint16 SVExtentStatus[]: uint16 SVOperationalStatus[]: uint16 SVBlockSize: uint64 SVNumberOfBlocks: uint64 SVConsumableBlocks: uint64 SVIsBasedOnUnderlyingRedundancy: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

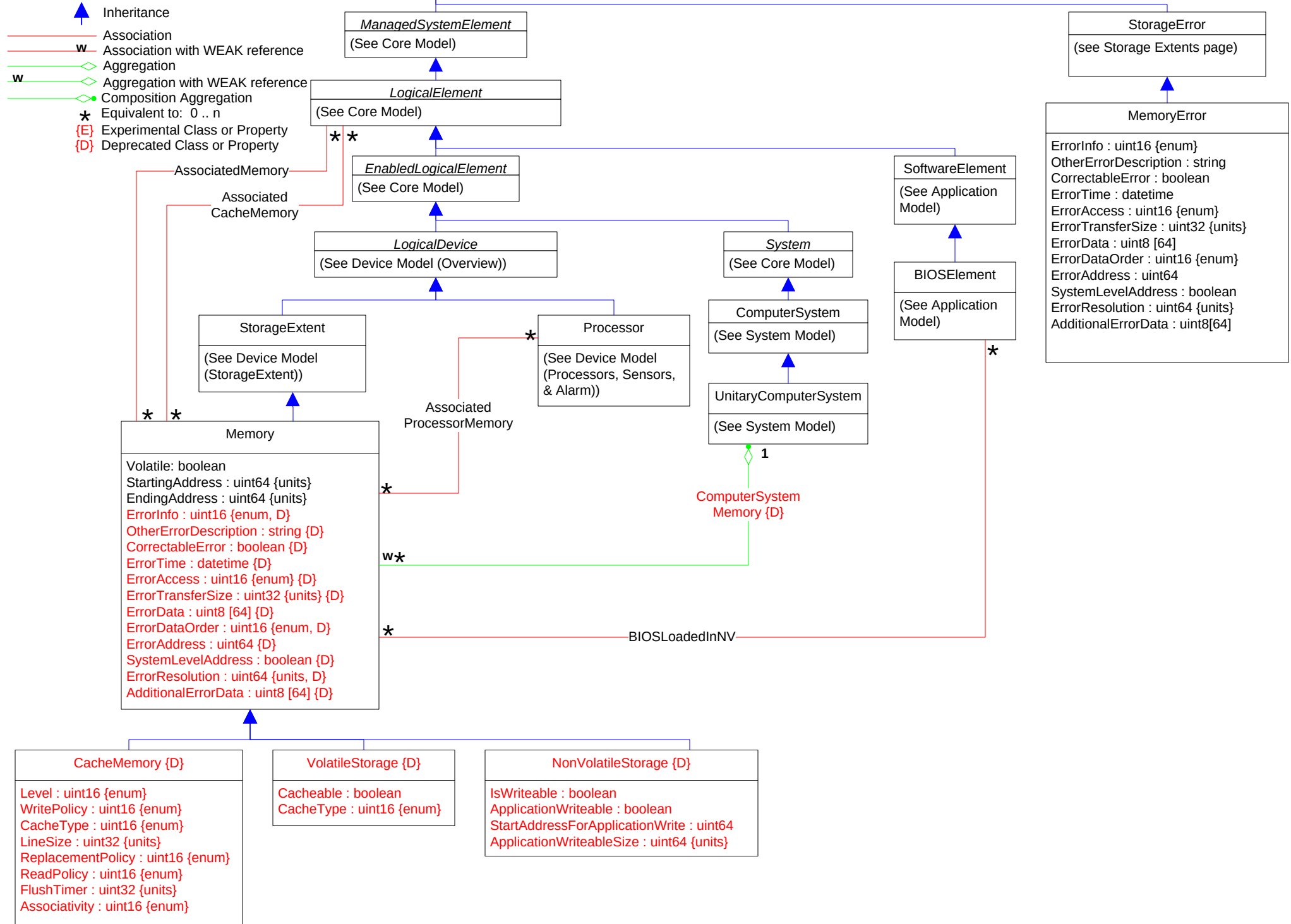


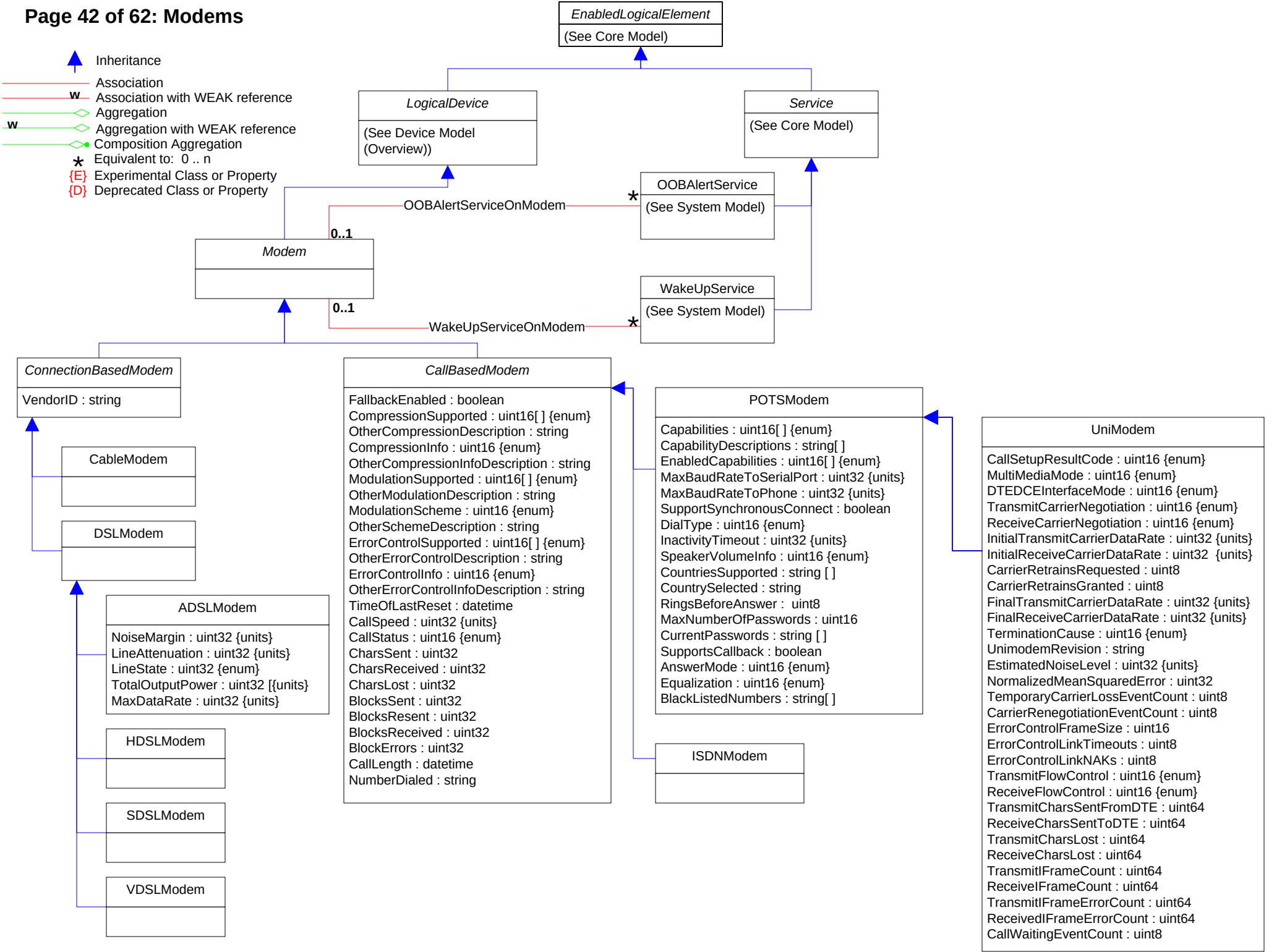
ReplicaPairView {E}
SVSourceSystemCreationClassName: string SVSourceSystemName: string SVSourceCreationClassName: string SVSourceDeviceID: string SVSourceName: string SVSourceNameFormat: uint16 SVSourceNameNamespace: uint16 SVSourceExtentStatus: uint16[] SVSourceOperationalStatus: uint16[] SVSourceBlockSize: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

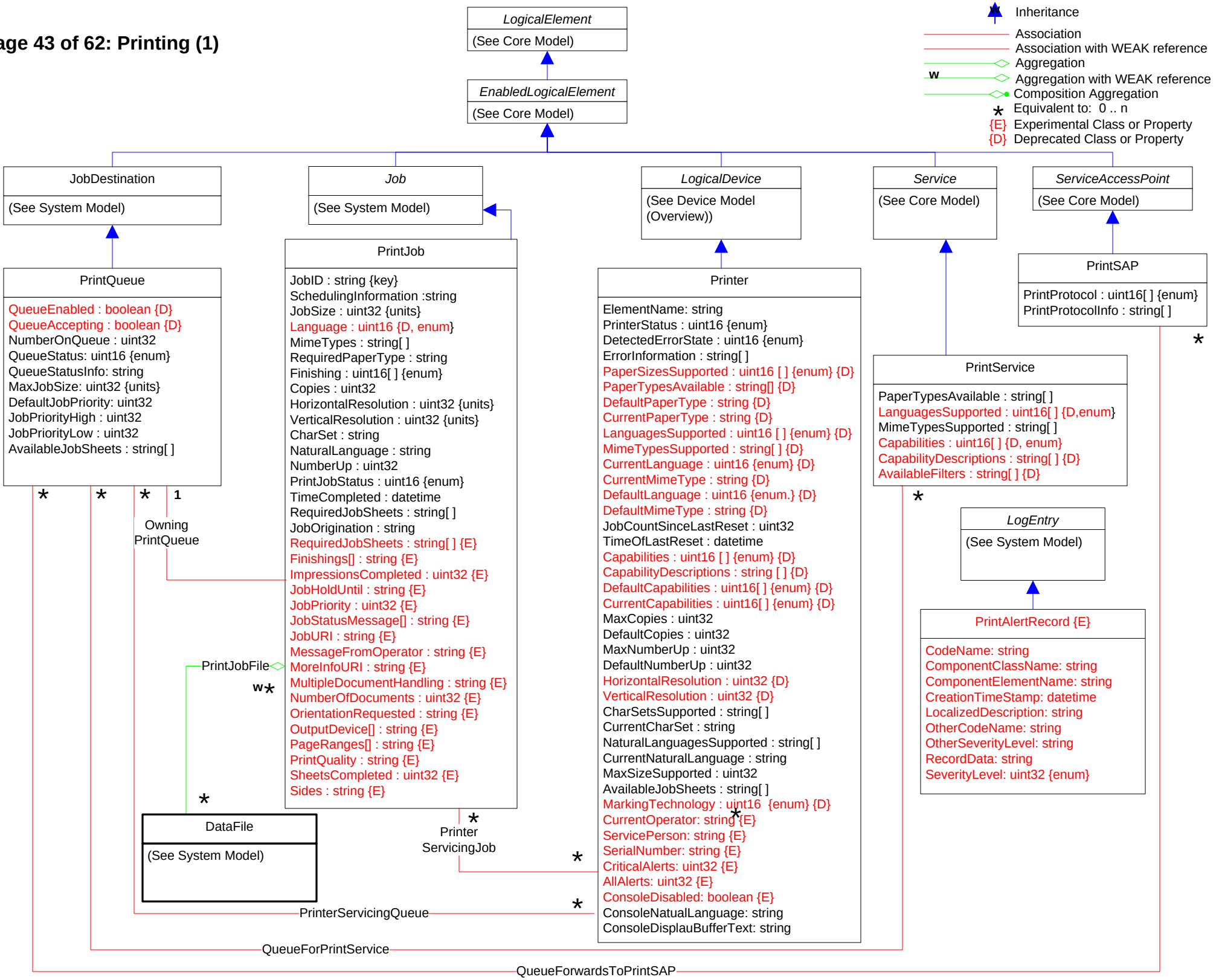


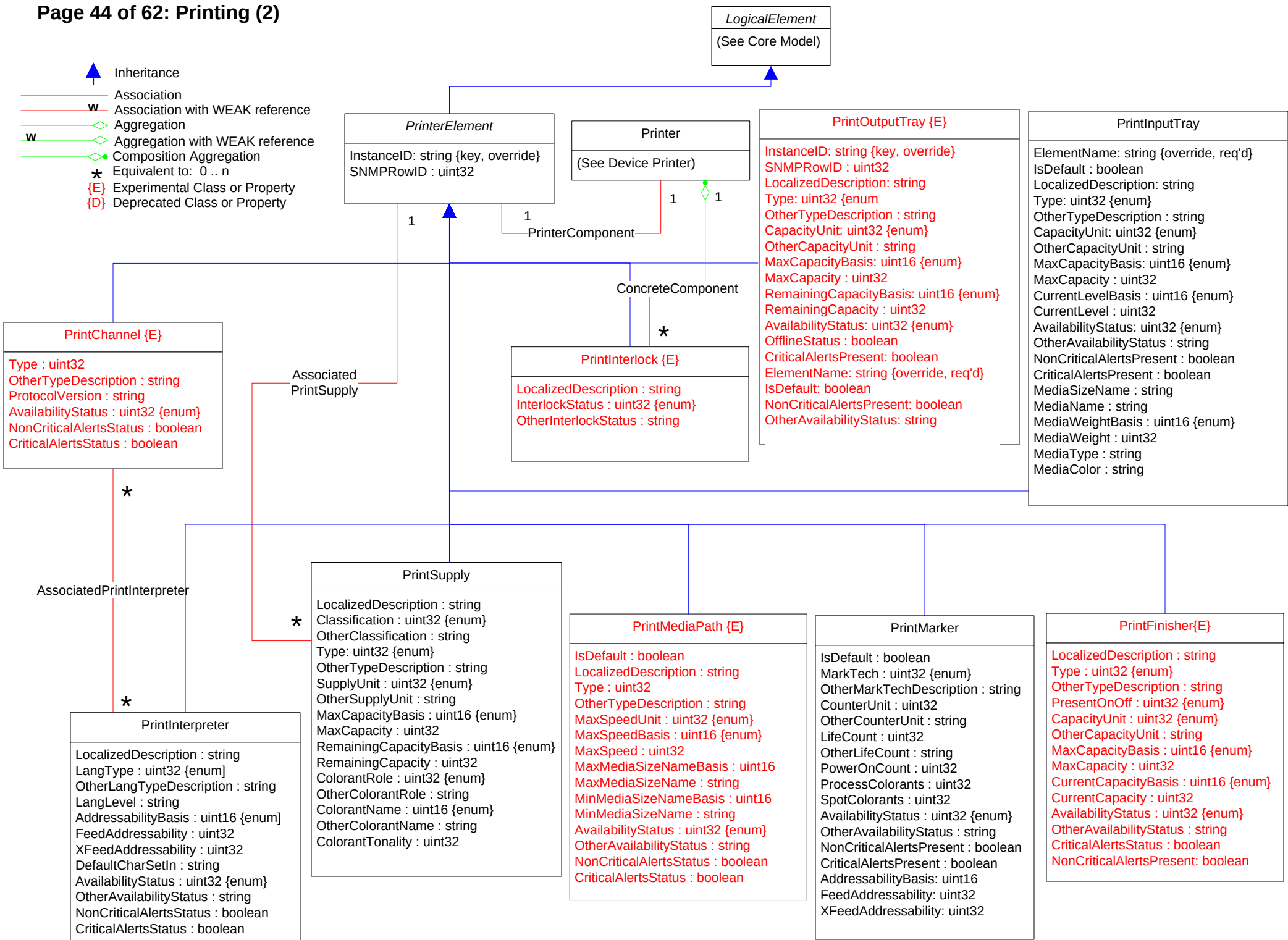
- Inheritance
- Association
- Association with WEAK reference
- Aggregation
- Aggregation with WEAK reference
- Composition Aggregation
- Equivalent to: 0 .. n
- {E} Experimental Class or Property
- {D} Deprecated Class or Property

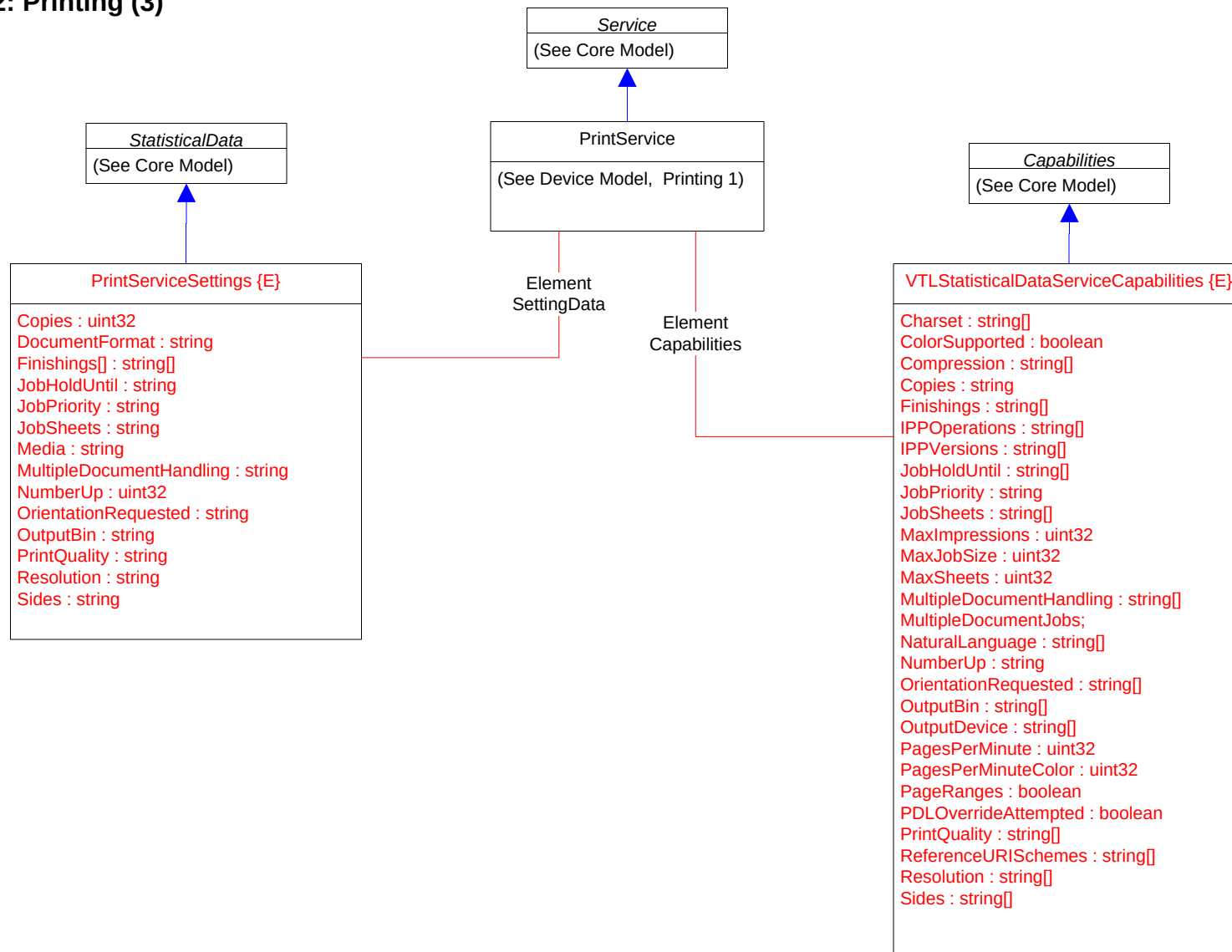


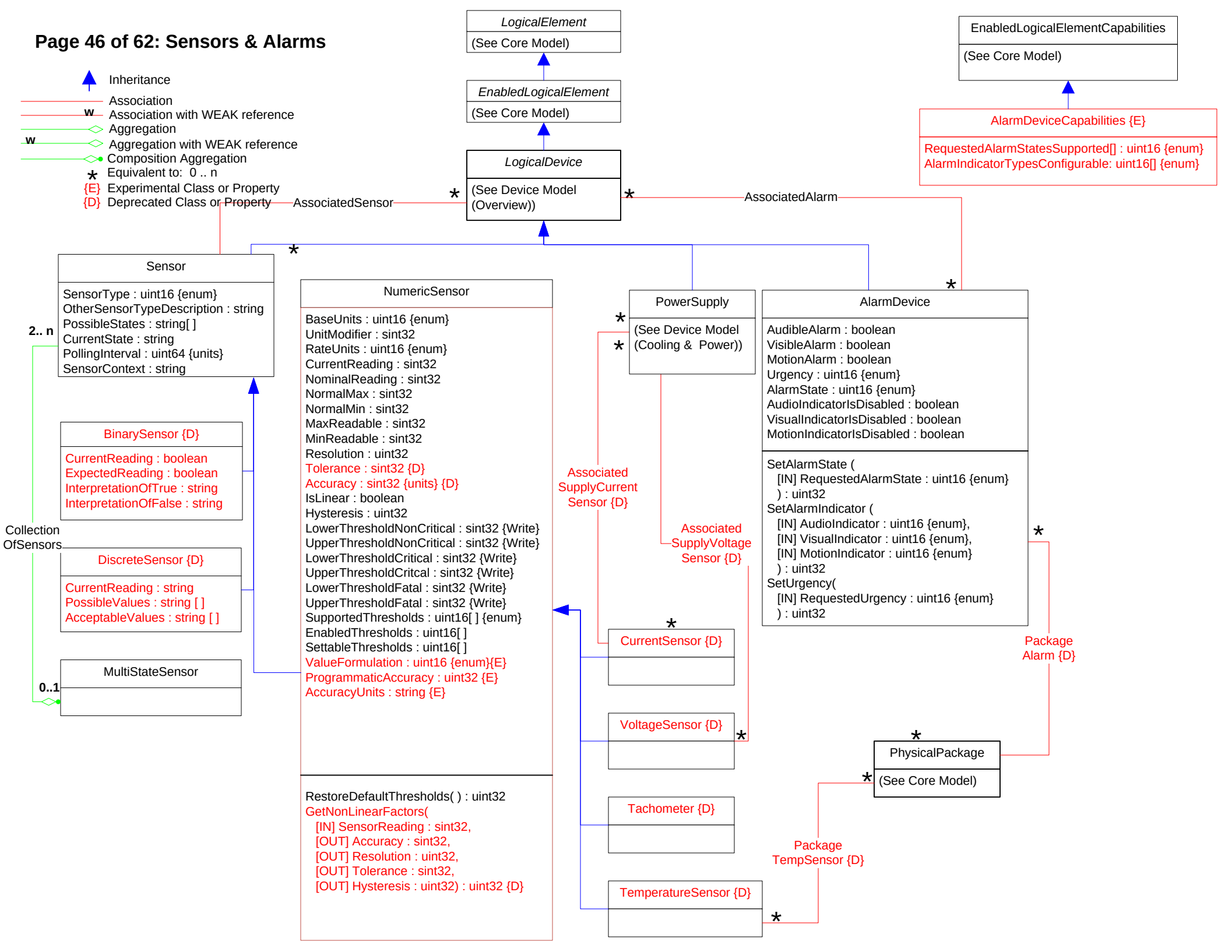




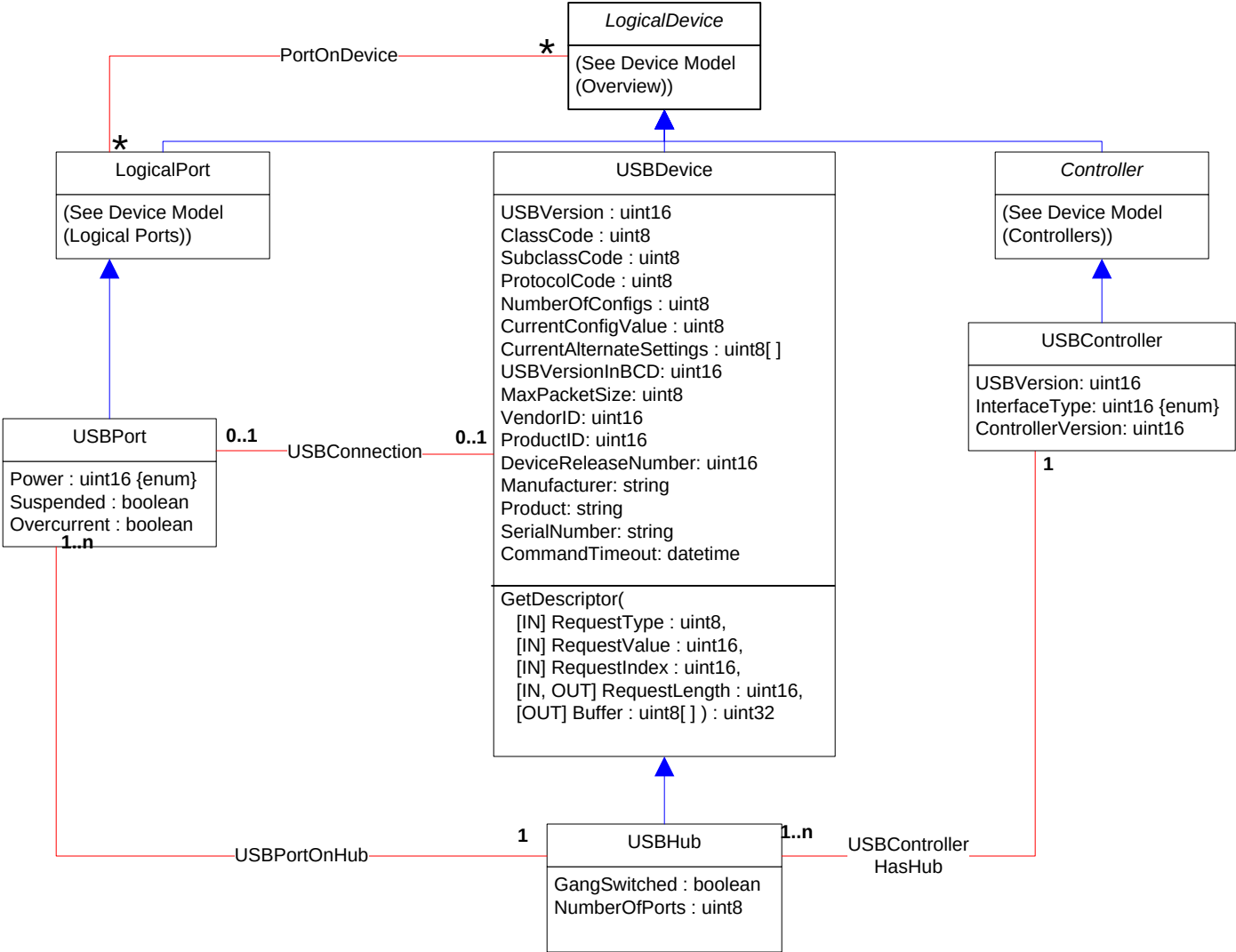






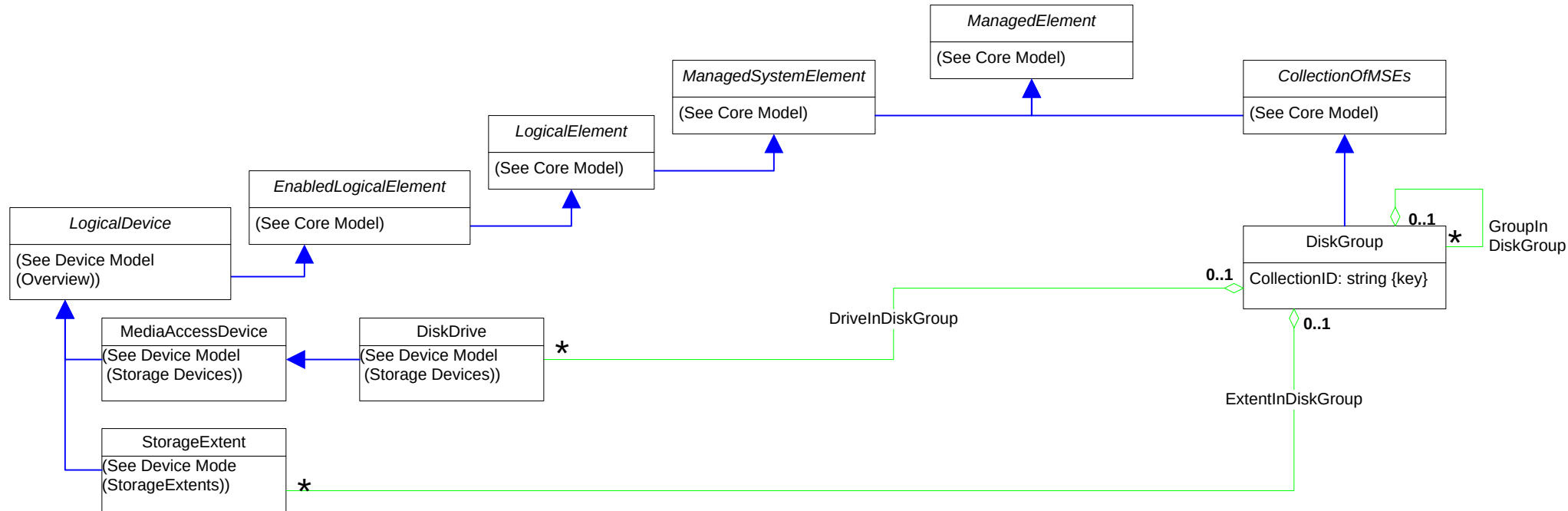


- Inheritance
- Association
- Association with WEAK reference
- Aggregation
- Aggregation with WEAK reference
- Composition Aggregation
- Equivalent to: 0 .. n

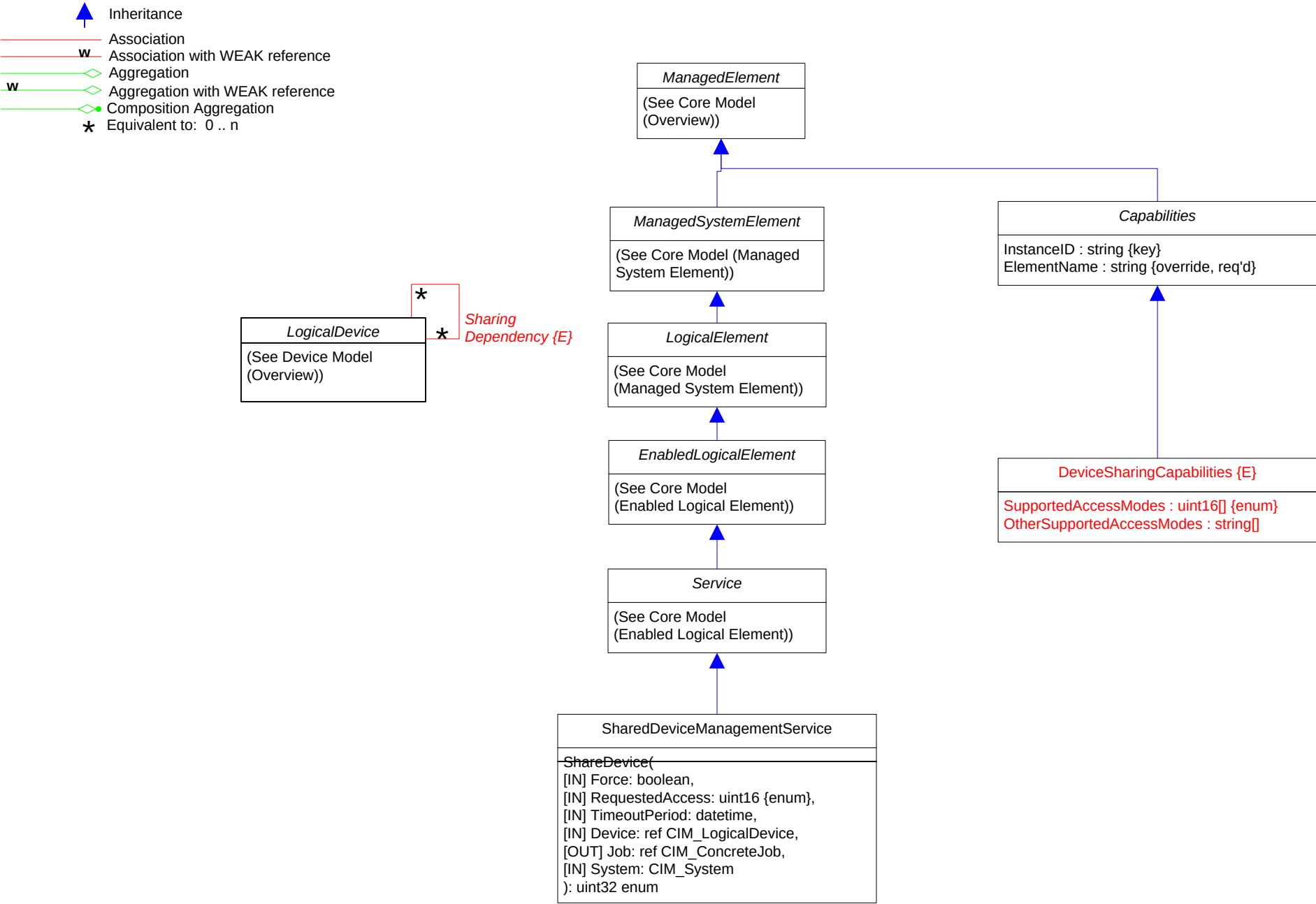


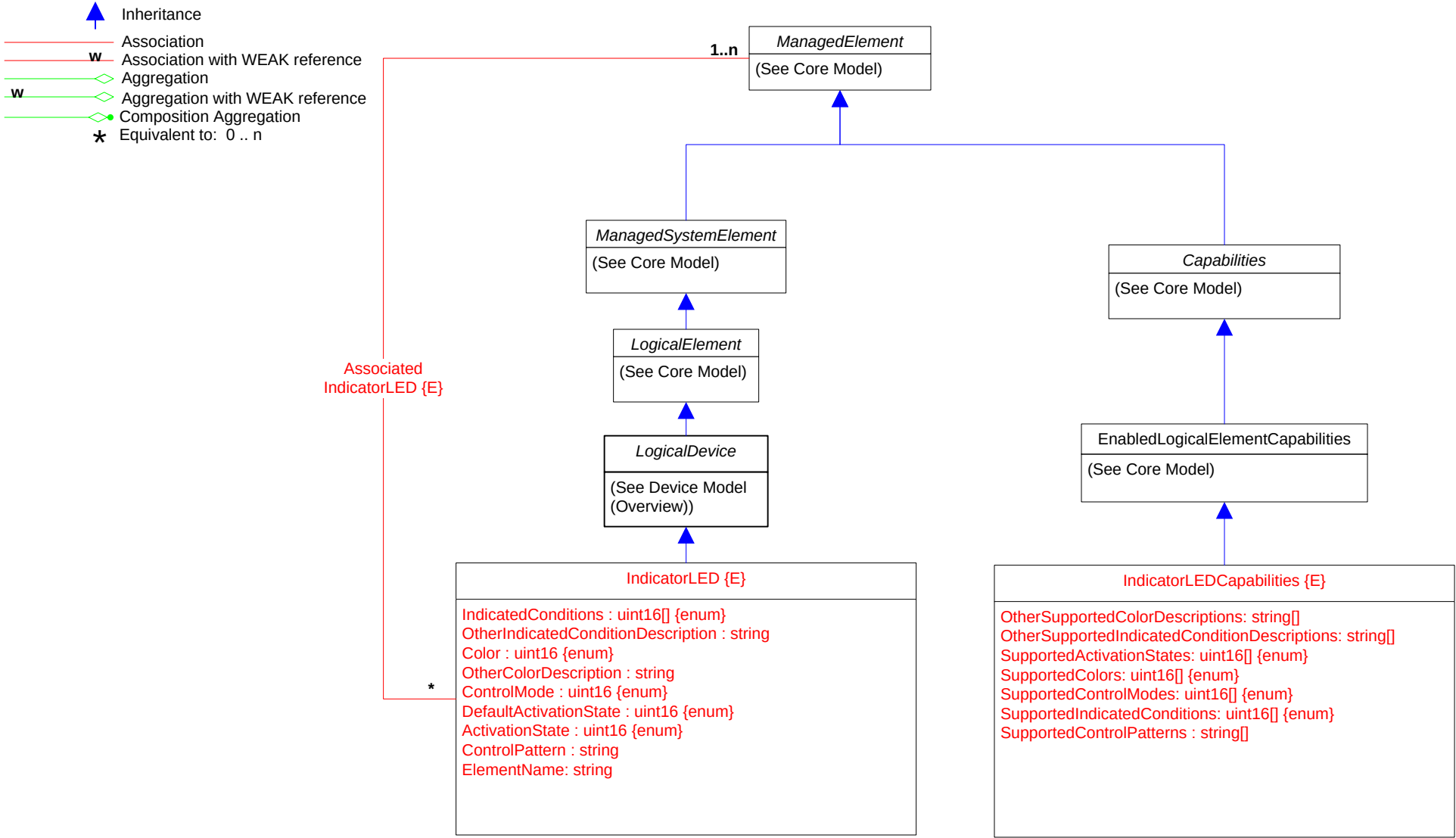
Page 48 of 62: Disk Group

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

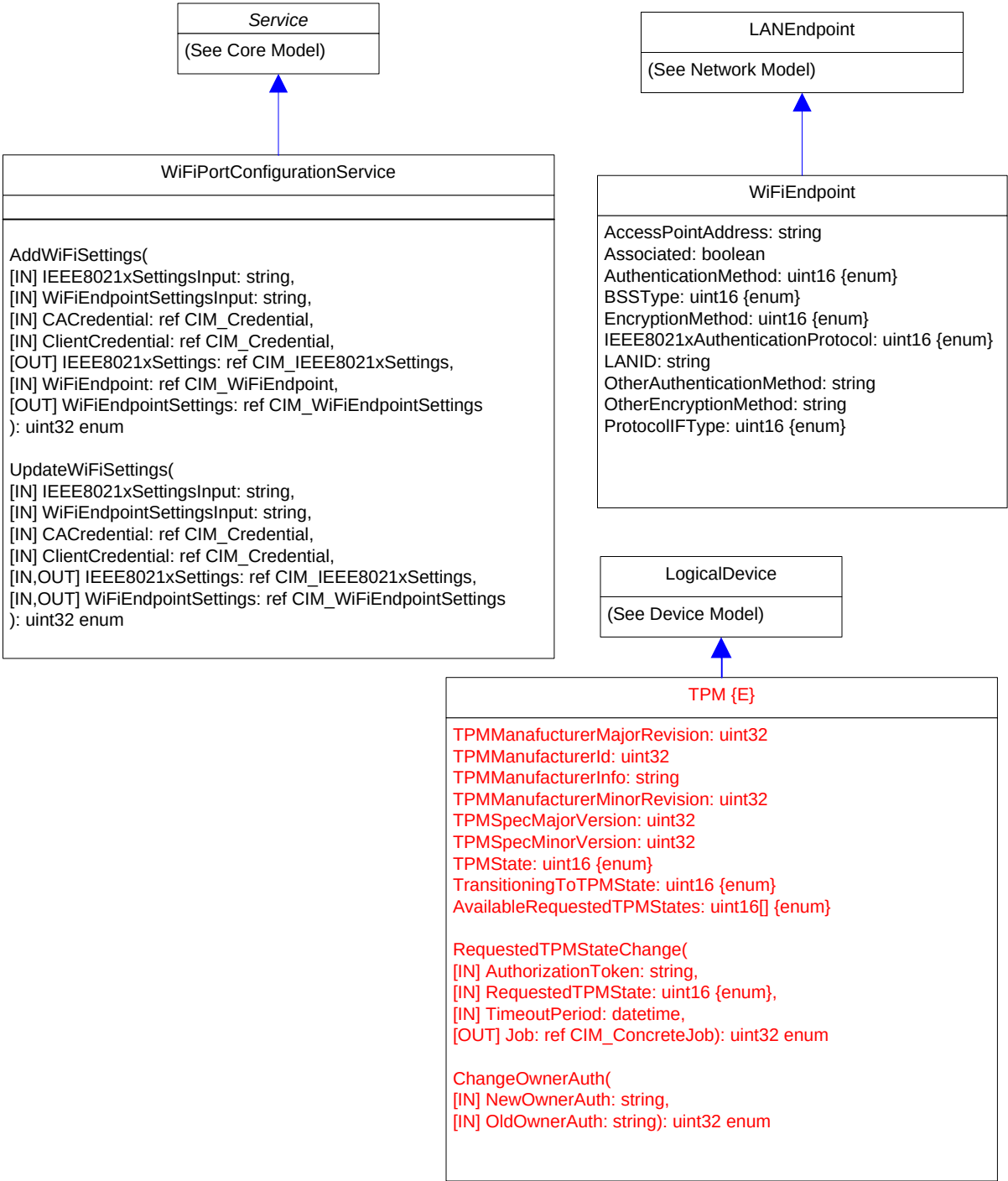
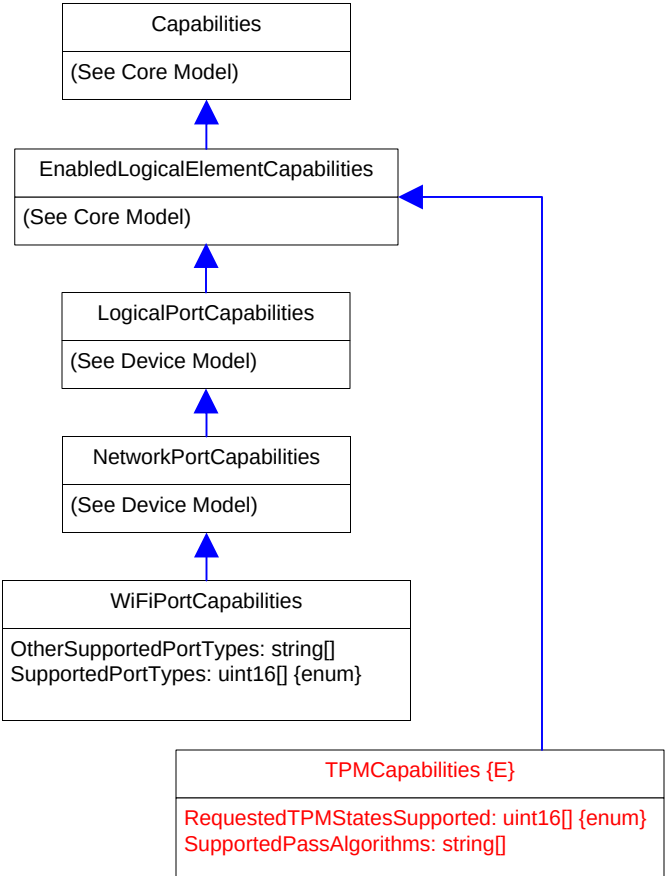


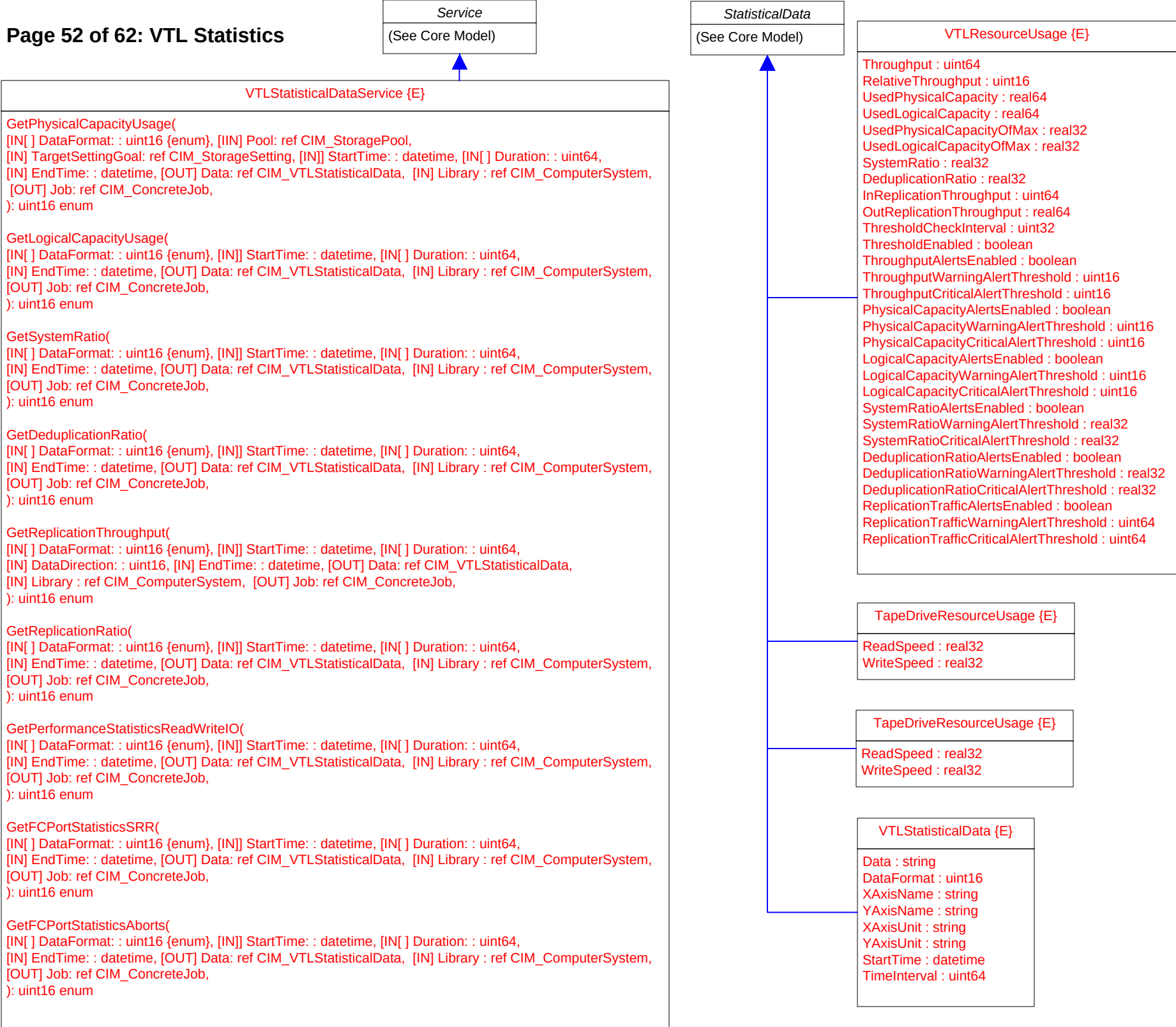
Page 49 of 62: Device Sharing

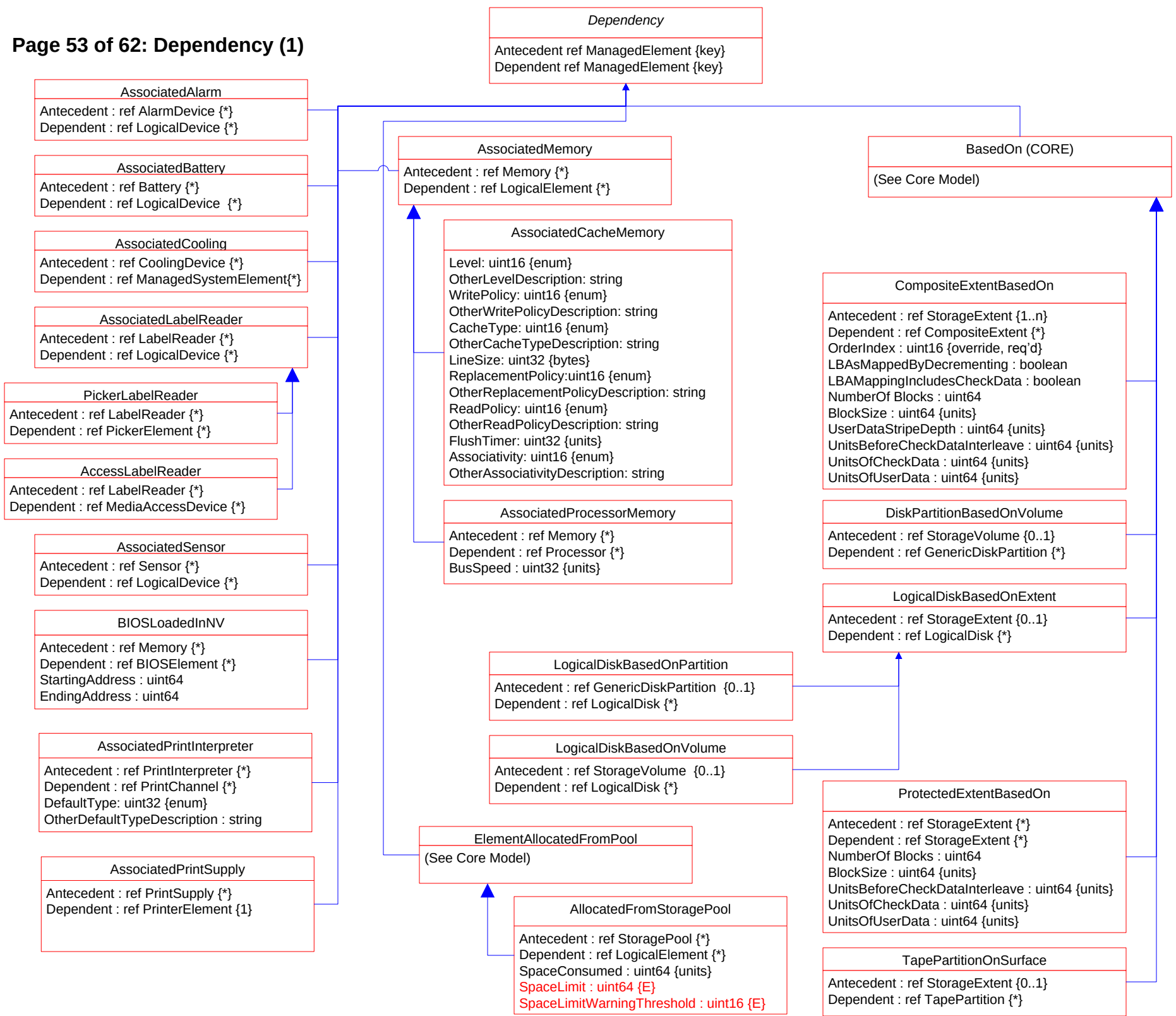


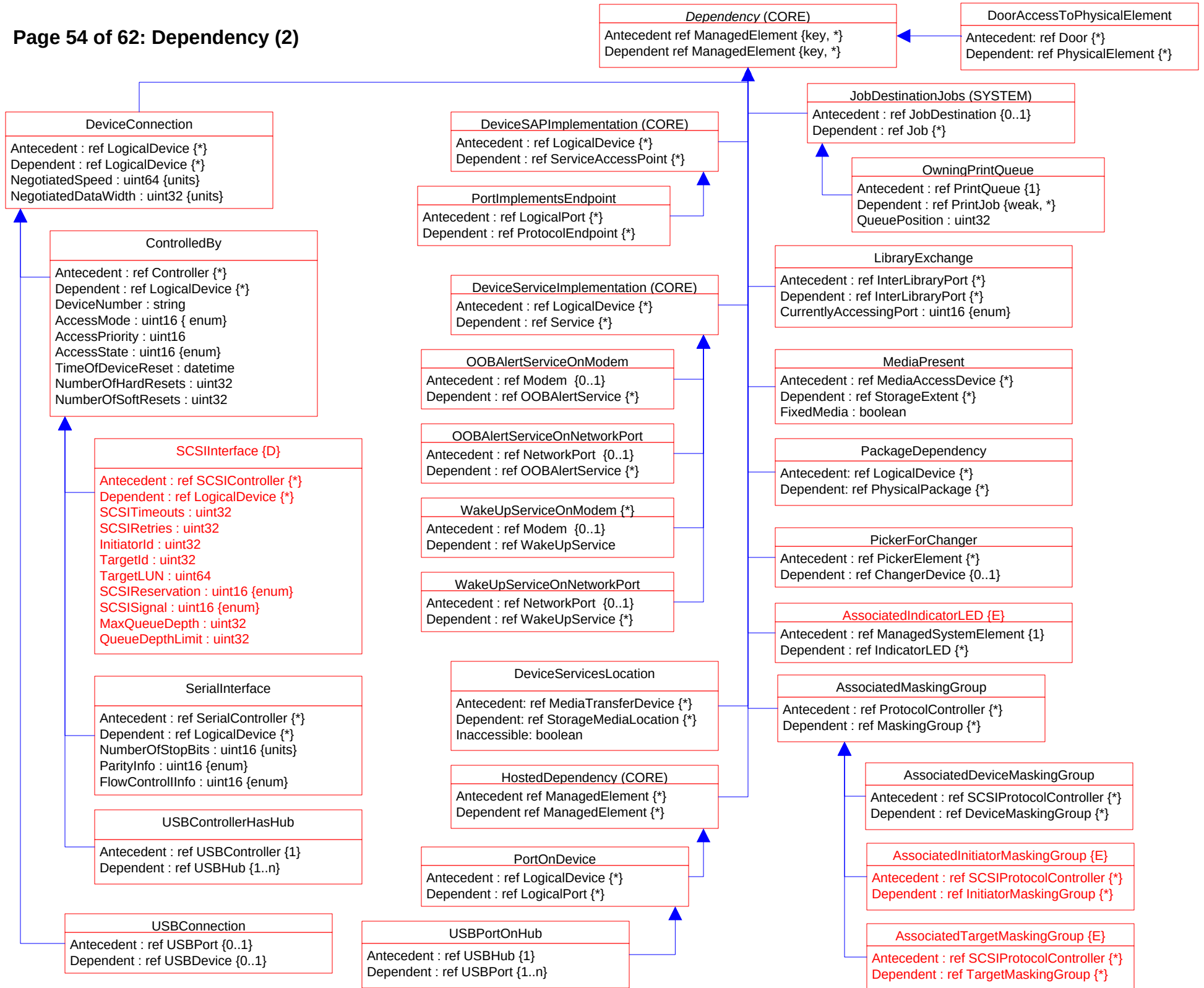


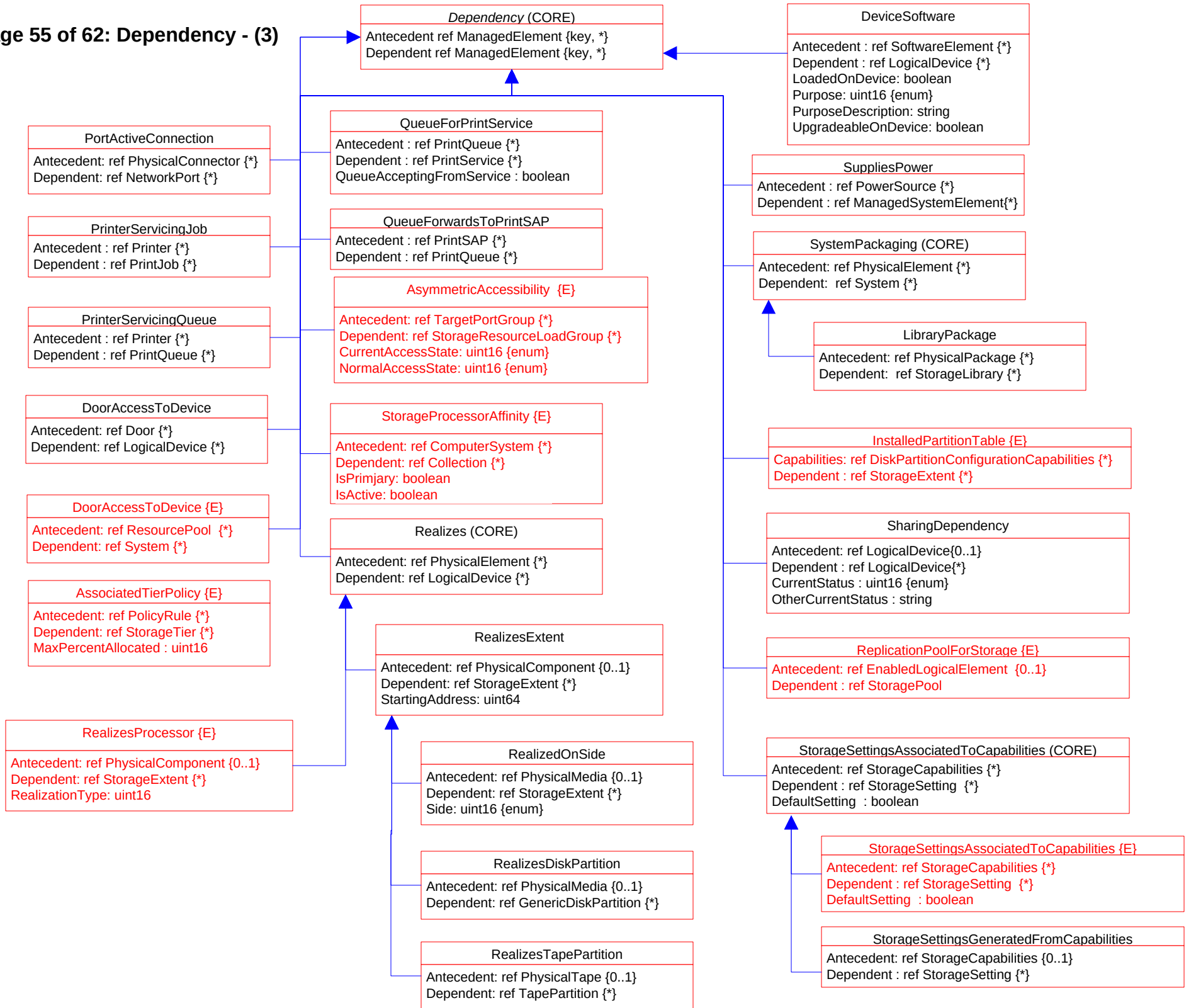
- Inheritance
- Association
- Association with WEAK reference
- Aggregation
- Aggregation with WEAK reference
- Composition Aggregation
- Equivalent to: 0 .. n
- Experimental Class or Property
- Deprecated Class or Property

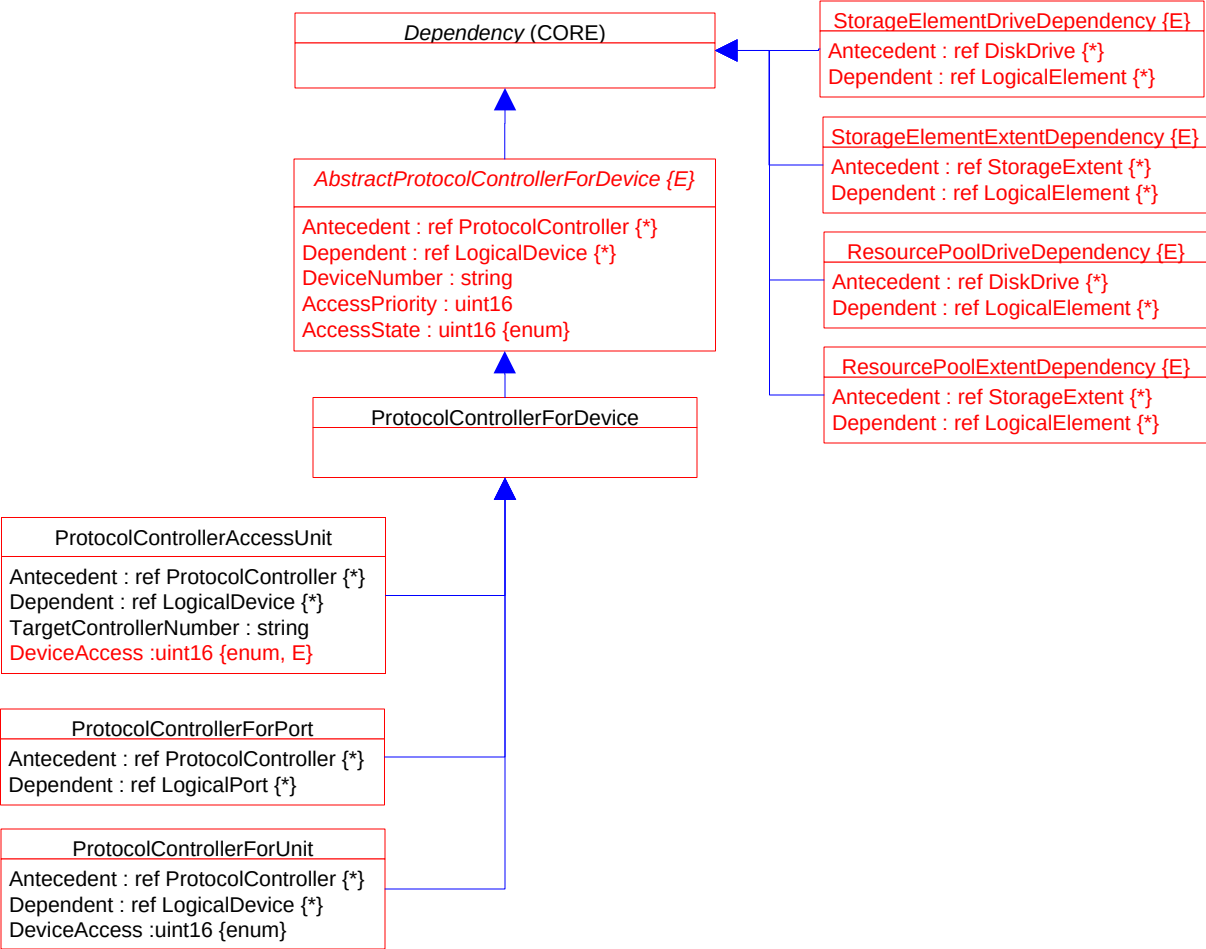


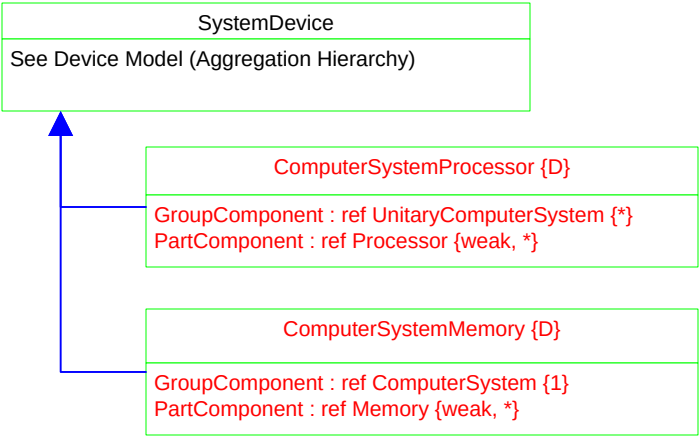
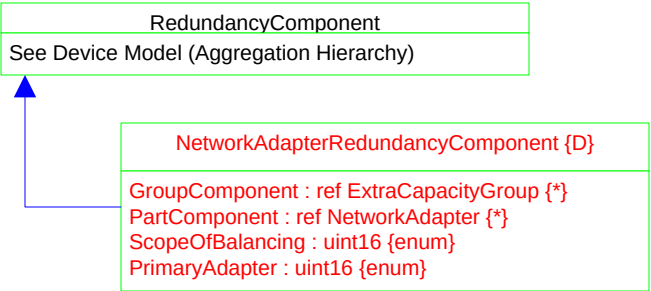
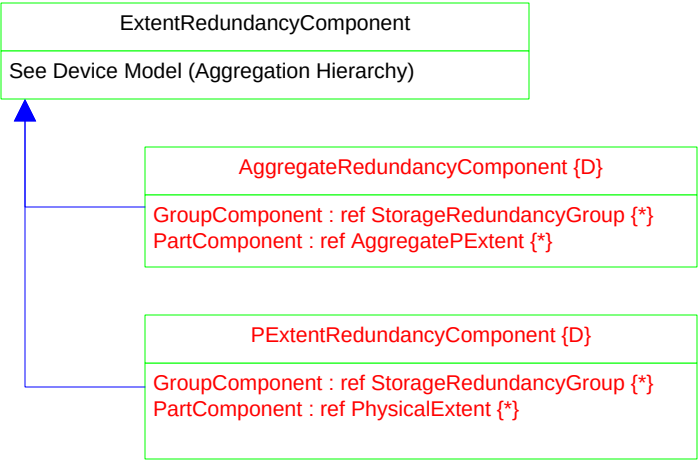






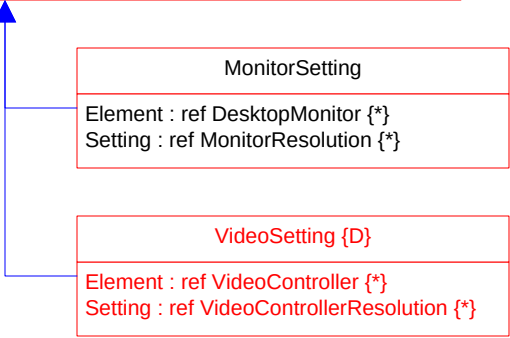




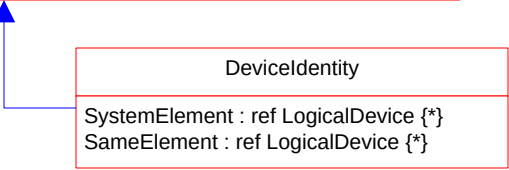


Page 58 of 62: Association Hierarchy

ElementSetting (CORE)
Element : ref ManagedSystemElement {key, *} Setting : ref Setting {key, *}

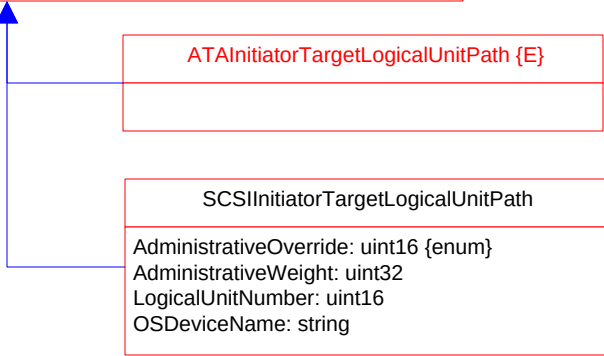


LogicalIdentity (CORE)
SystemElement : ref LogicalElement {key, *} SameElement : ref LogicalElement {key, *}

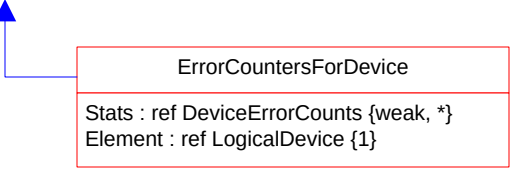


AssociatedBlockStatisticsManifestCollection
Statistics : ref StatisticsCollection {key,1,1} ManifestCollection : ref BlockStatisticsManifestCollection {key,*}

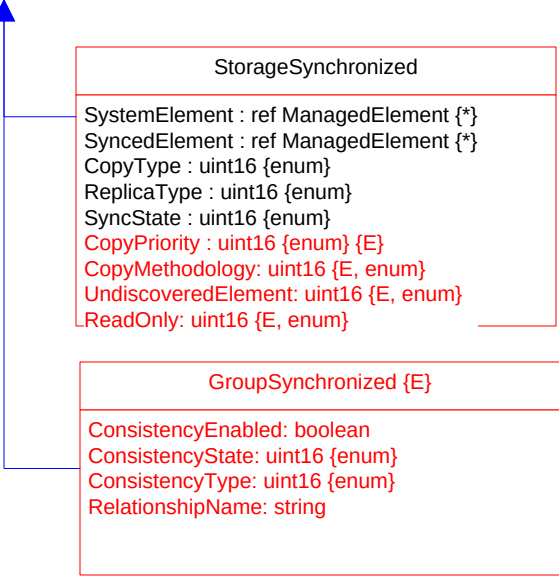
InitiatorTargetLogicalUnitPath {E}
Initiator : ref ProtocolEndpoint {key, *} Target : ref ProtocolEndpoint {key, *} LogicalUnit : ref LogicalDevice {key, *} State : uint16 {enum}

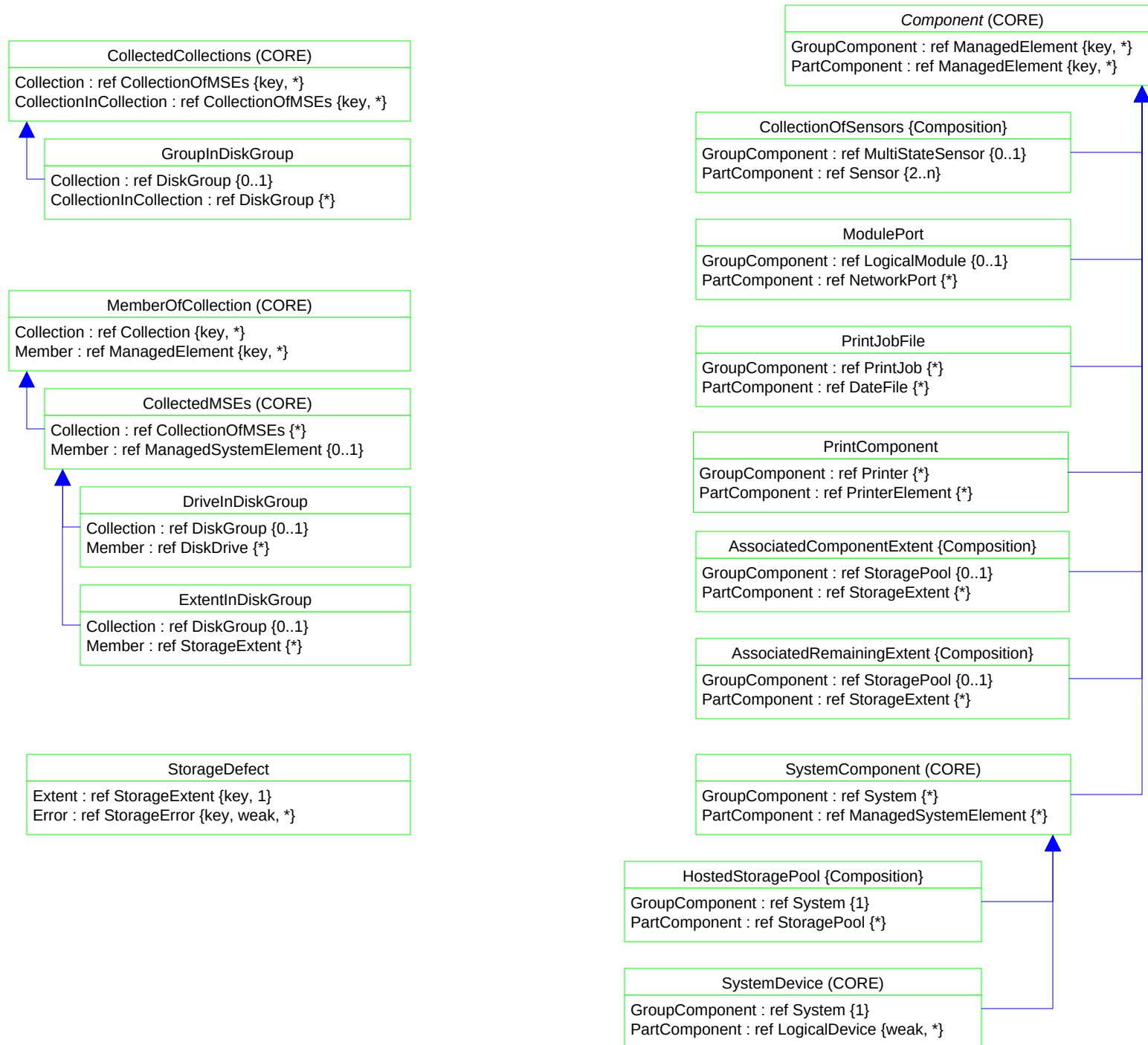


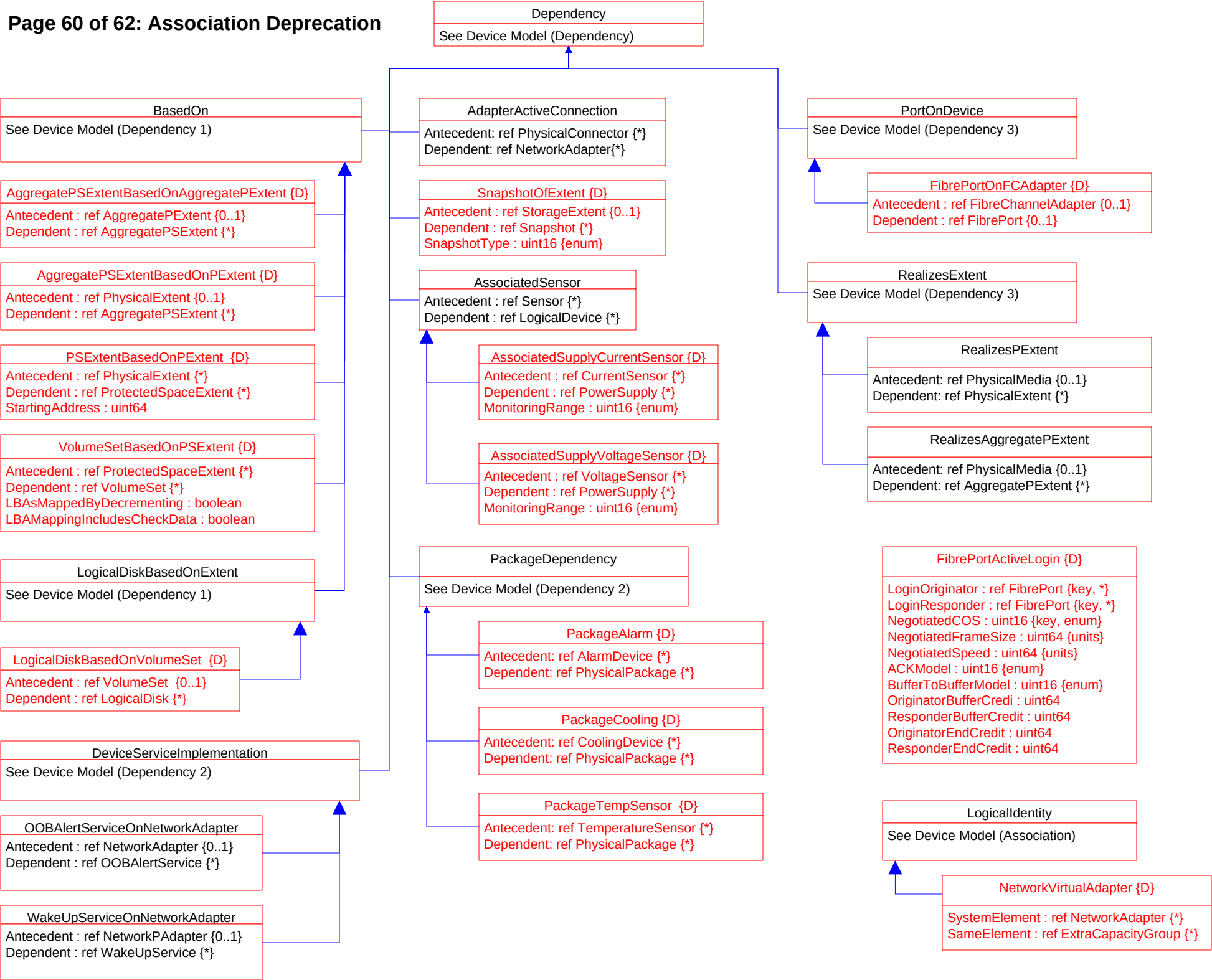
Statistics (CORE)
Stats : ref StatisticalInformation {key, *} Element : ref ManagedSystemElement {key, *}

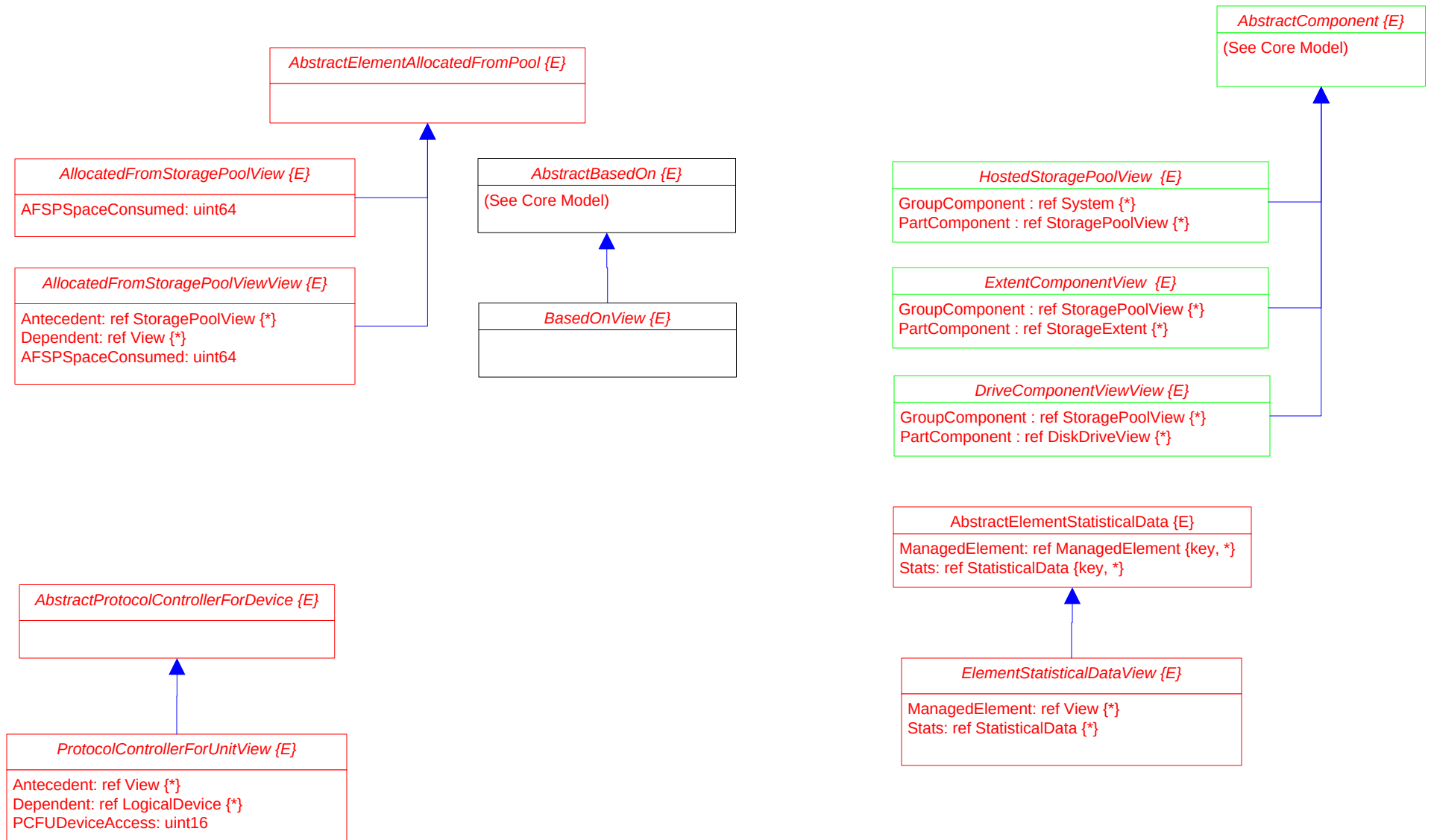


Synchronized (CORE)
SystemElement : ref ManagedElement {key, *} SyncedElement : ref ManagedElement {key, *}









<i>MaskingMappingExposedDeviceView {E}</i>
ProtocolEndpoint: ref ProtocolEndpoint {*} LogicalDevice: ref LogicalDevice {*} SPCSystemCreationClassName: string SPCSystemName: string SPCCreationClassName: string SPCDeviceID: string PCFUDeviceNumber: string PCFUDeviceAccess: uint16

<i>MaskingMapView {E}</i>
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 APIncaseID: string APPrivilegeGranted: APActivities[]: uint16 APElementName: string SPCSystemCreationClassName: string SPCCreationClassName: string SPCSystemName: string SPCDeviceID: string PCFUDeviceNumber: string PCFUDeviceAccess: uint16