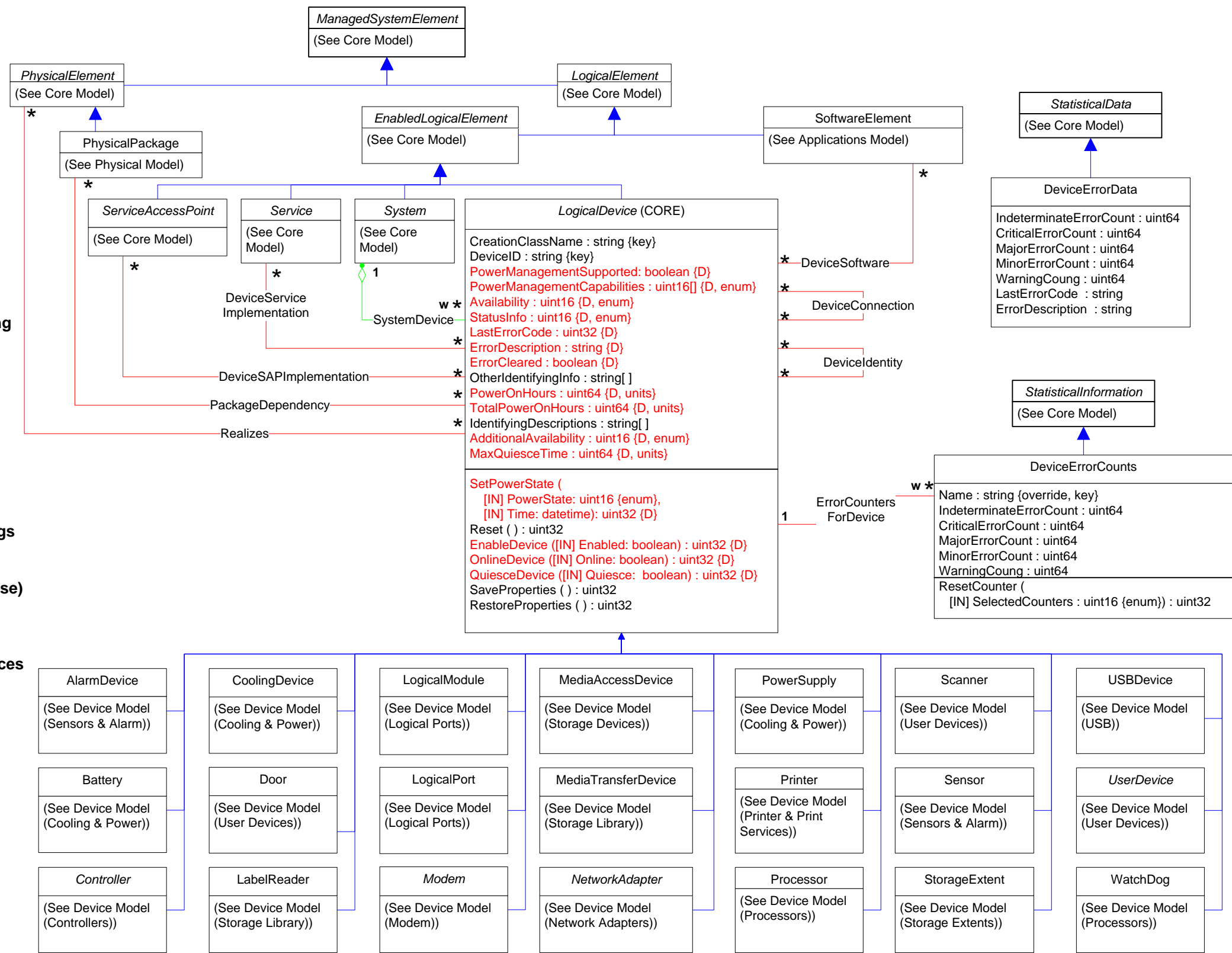






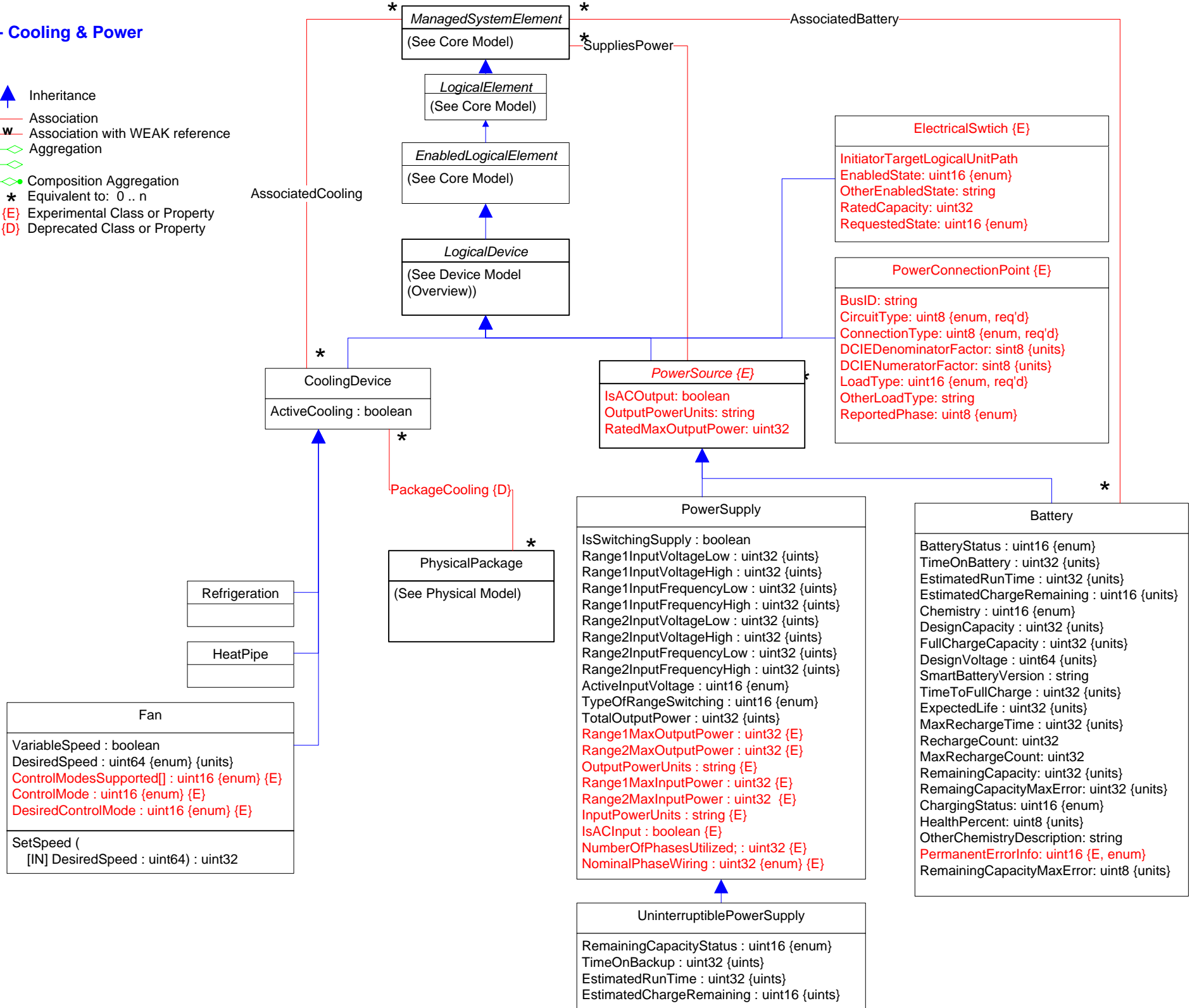


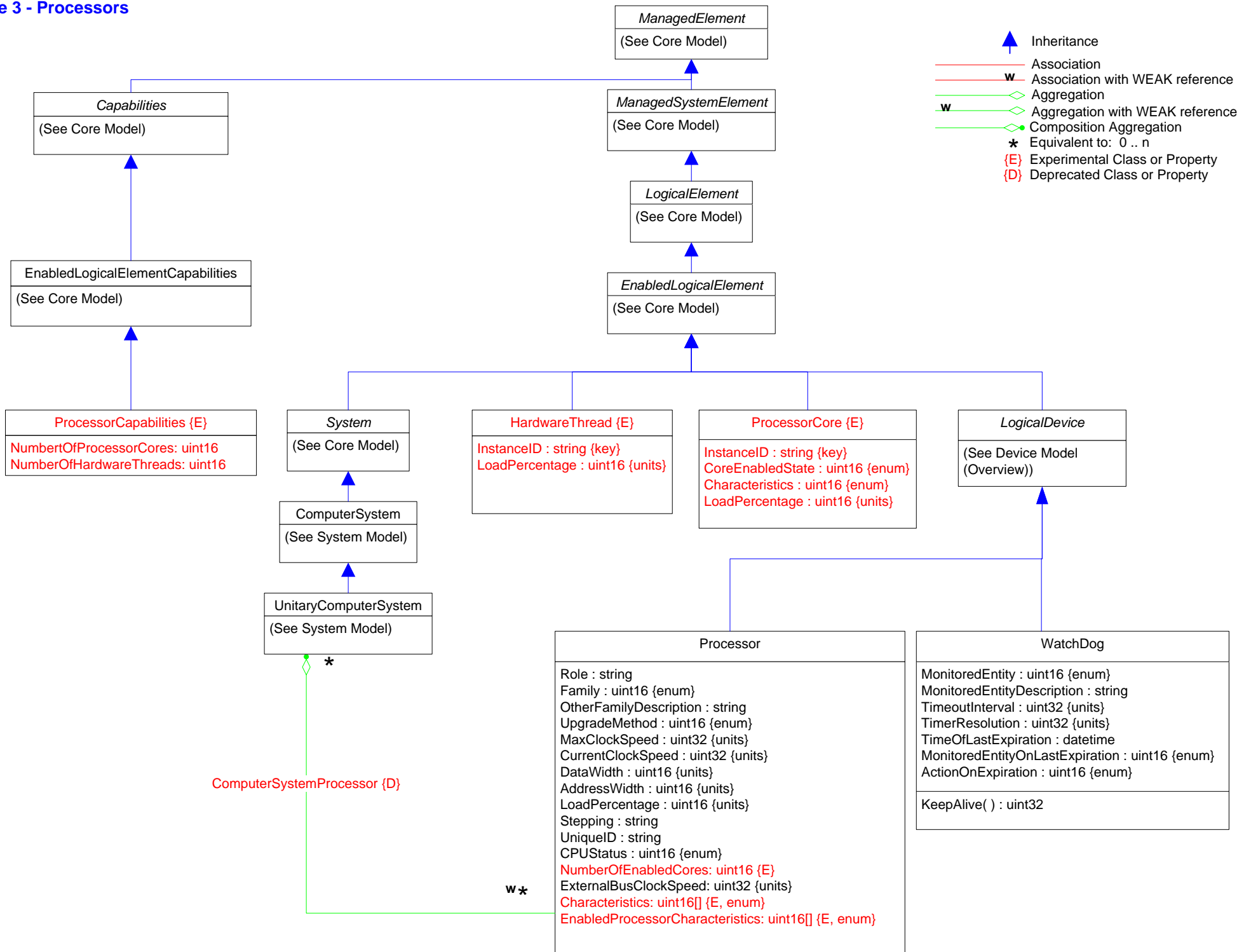
Title : Device Specification 2.26.0
Filename : CIM_Device.vsd
Author : DMTF Core Schema WG
Date : 22 June 2010










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Page 2 – Cooling & Power
Page 3 – Processors
Page 4 – Controllers
Page 5 – Video Controllers
Page 6 – PCI Controllers
Page 7 – Logical Ports 1
Page 8 – Logical Ports 2
Page 9 – Logical Port Group
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Page 19 – StorageNameBinding
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Page 23 – Storage Services
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Page 33 – Sensors & Alarm
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Page 36 – Device Sharing
Page 37 – LED
Page 38 – WiFi Services
Page 39 – Dependency (1) [A - Ba]
Page 40 – Dependency (2) [D - Pi]
Page 41 - Dependency (3) [Po - S]
Page 42 – Association Hierarchy
Page 43 – Aggregation Hierarchy
Page 44 – Association Deprecation
Page 45 – Aggregation Deprecation

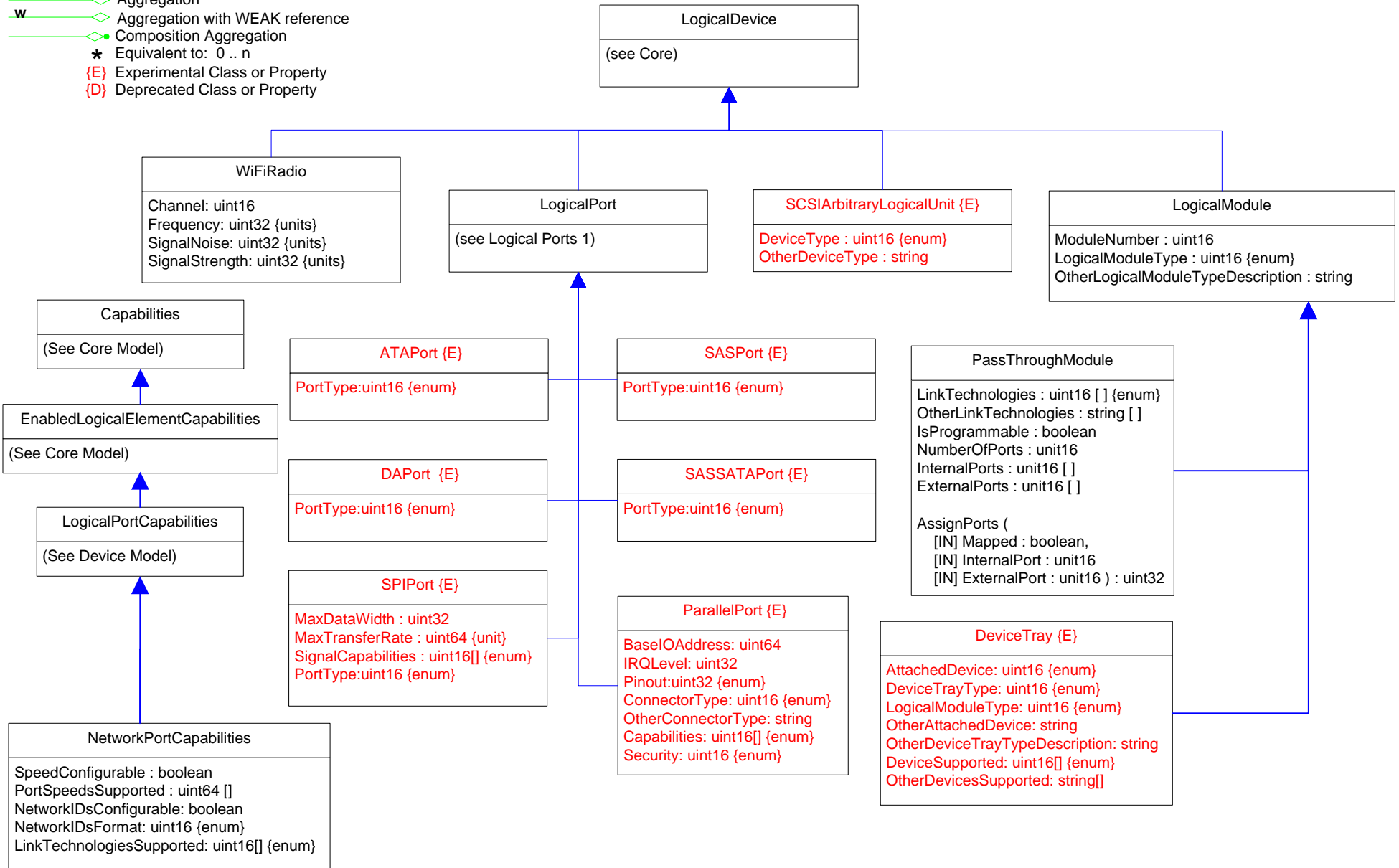


-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Composition Aggregation
-  Equivalent to: 0 .. n
- (E) Experimental Class or Property
- (D) Deprecated Class or Property












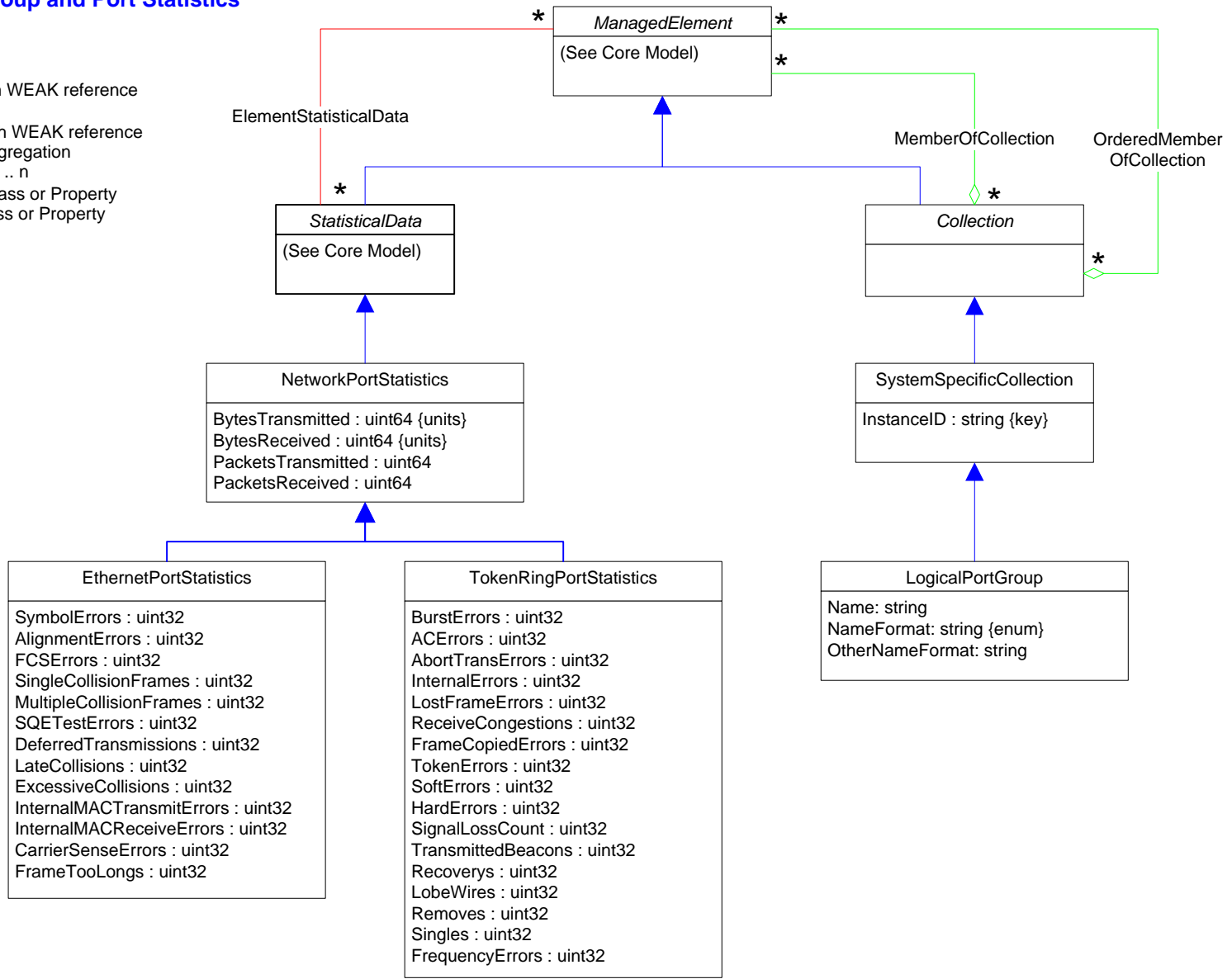











-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
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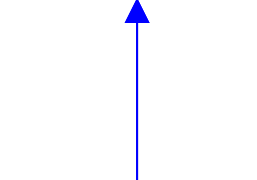
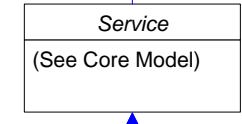
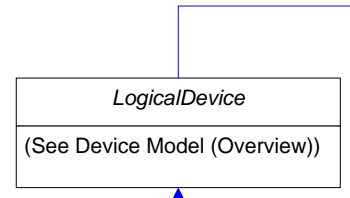
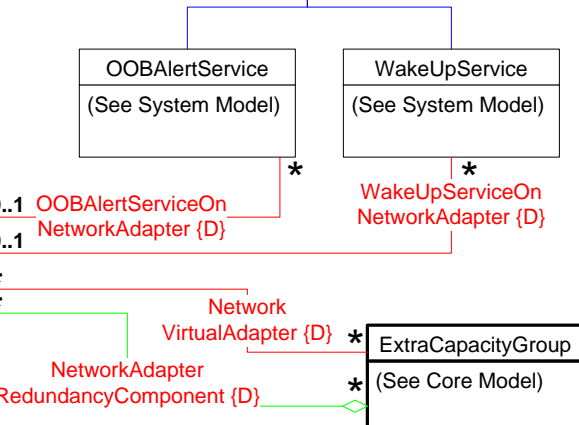
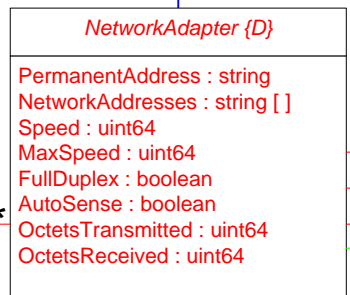
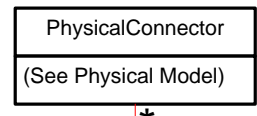
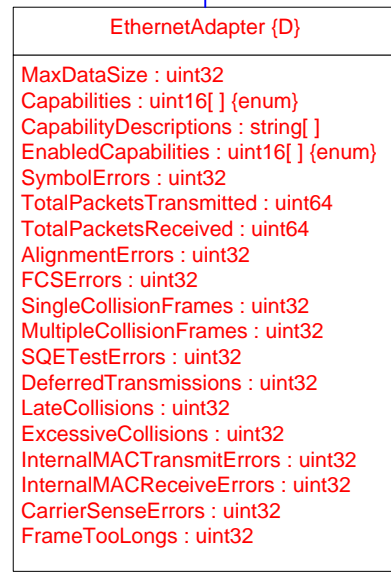
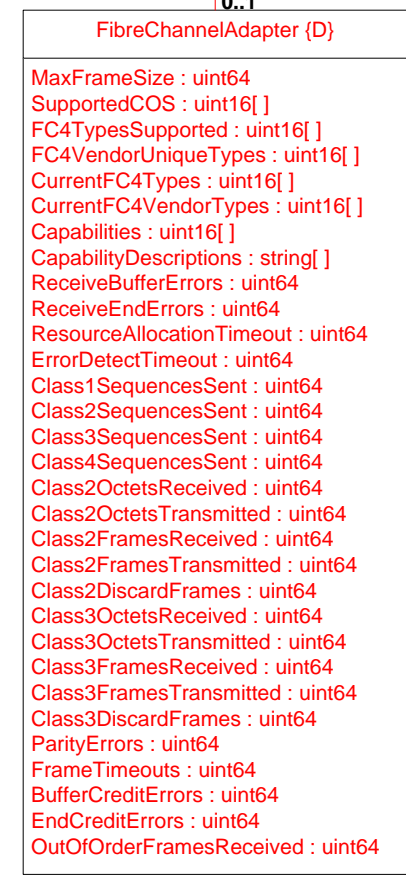
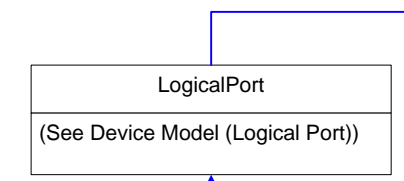
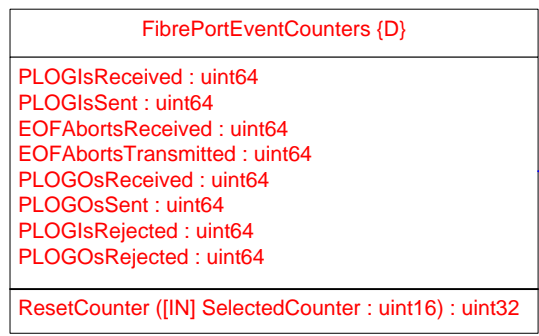
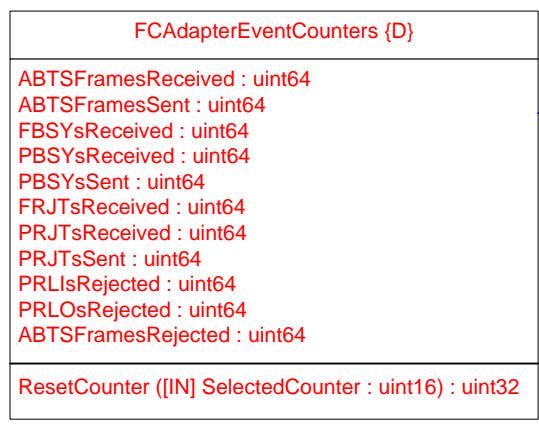
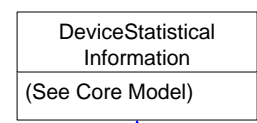


Page 9 - Logical Port Group and Port Statistics










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

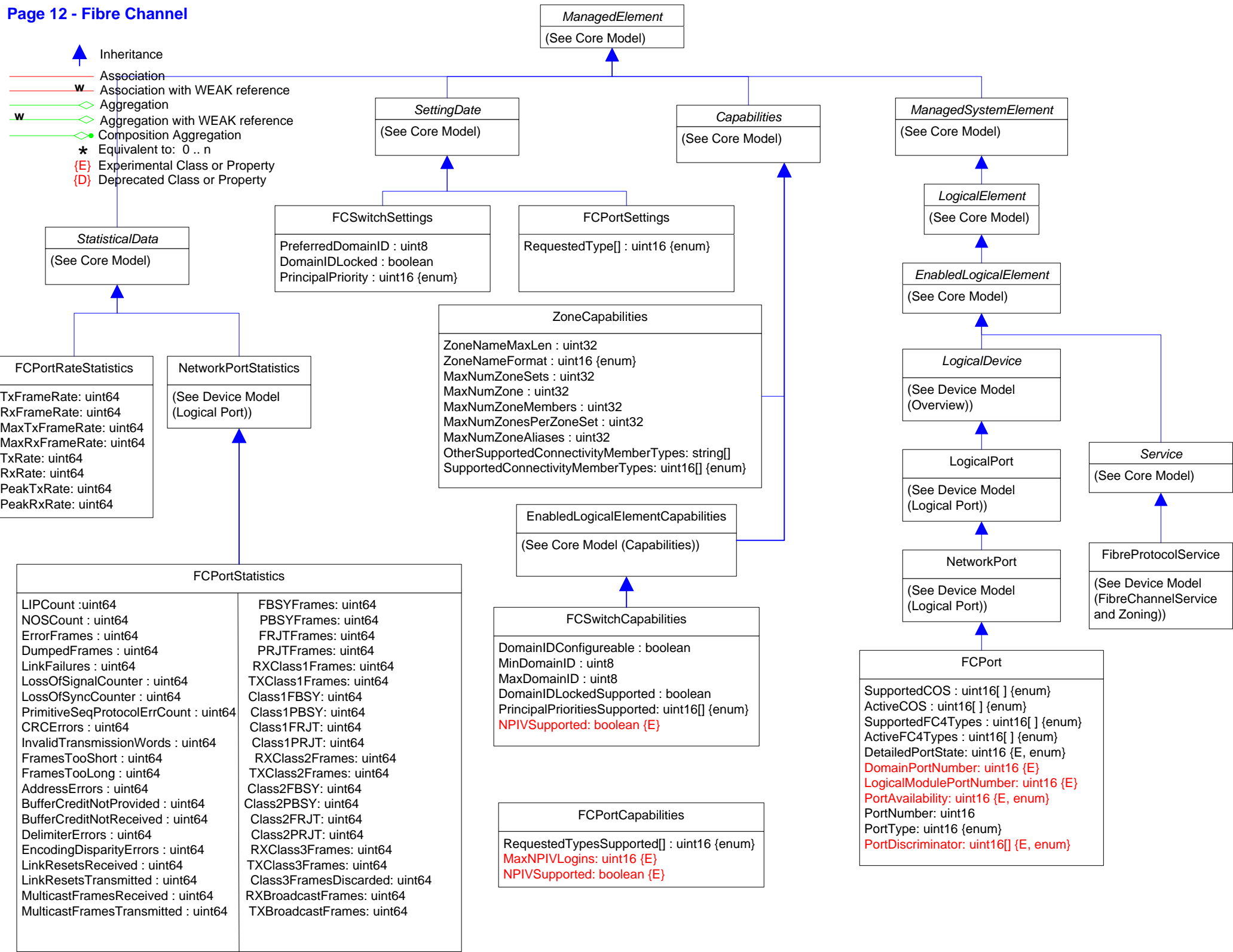


-  Inheritance
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-  Composition Aggregation
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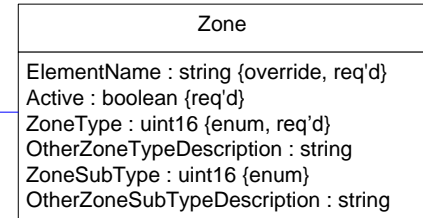
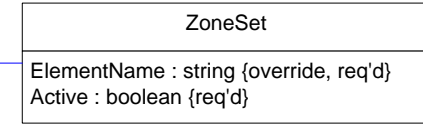
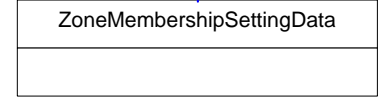
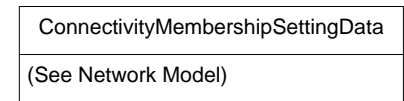
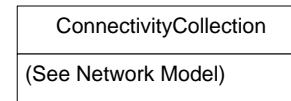
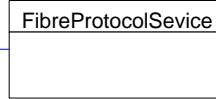
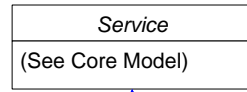
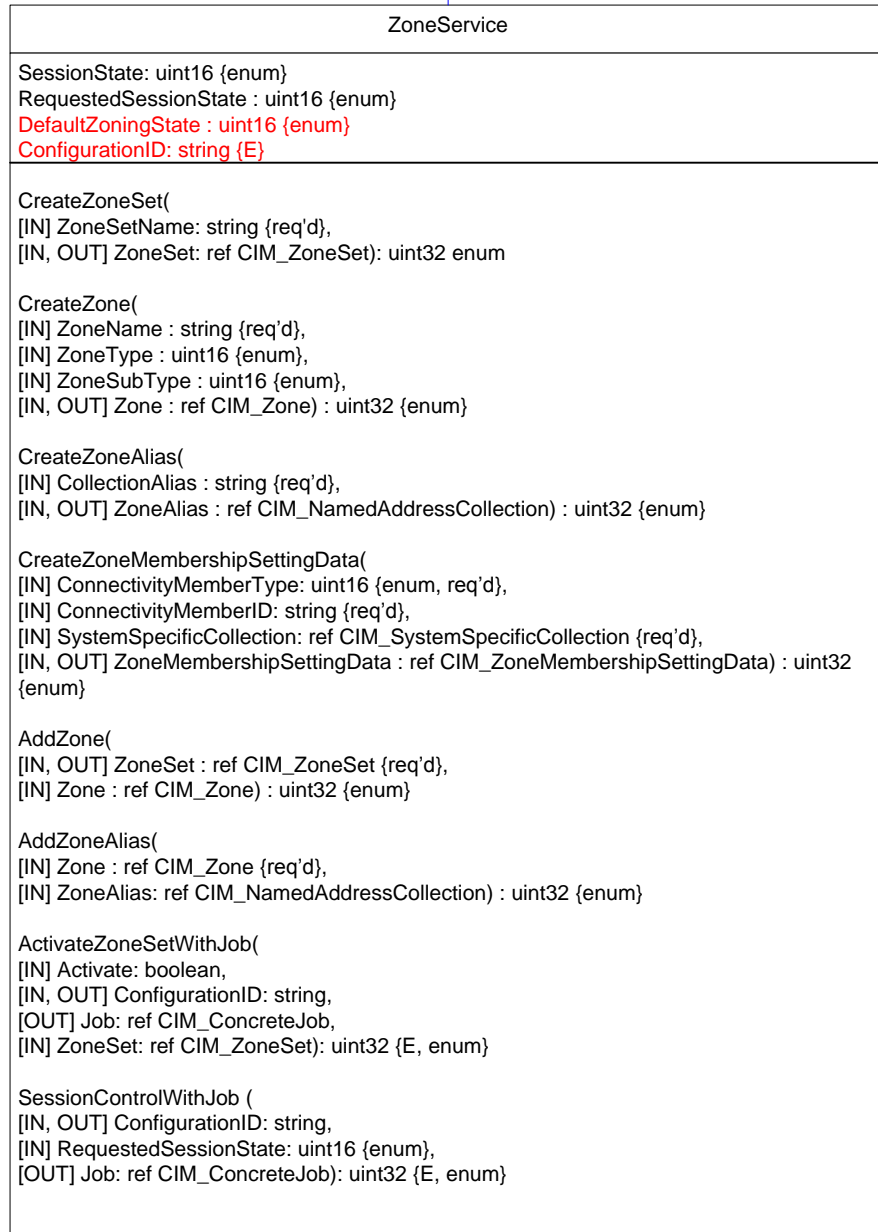
Page 12 - Fibre Channel










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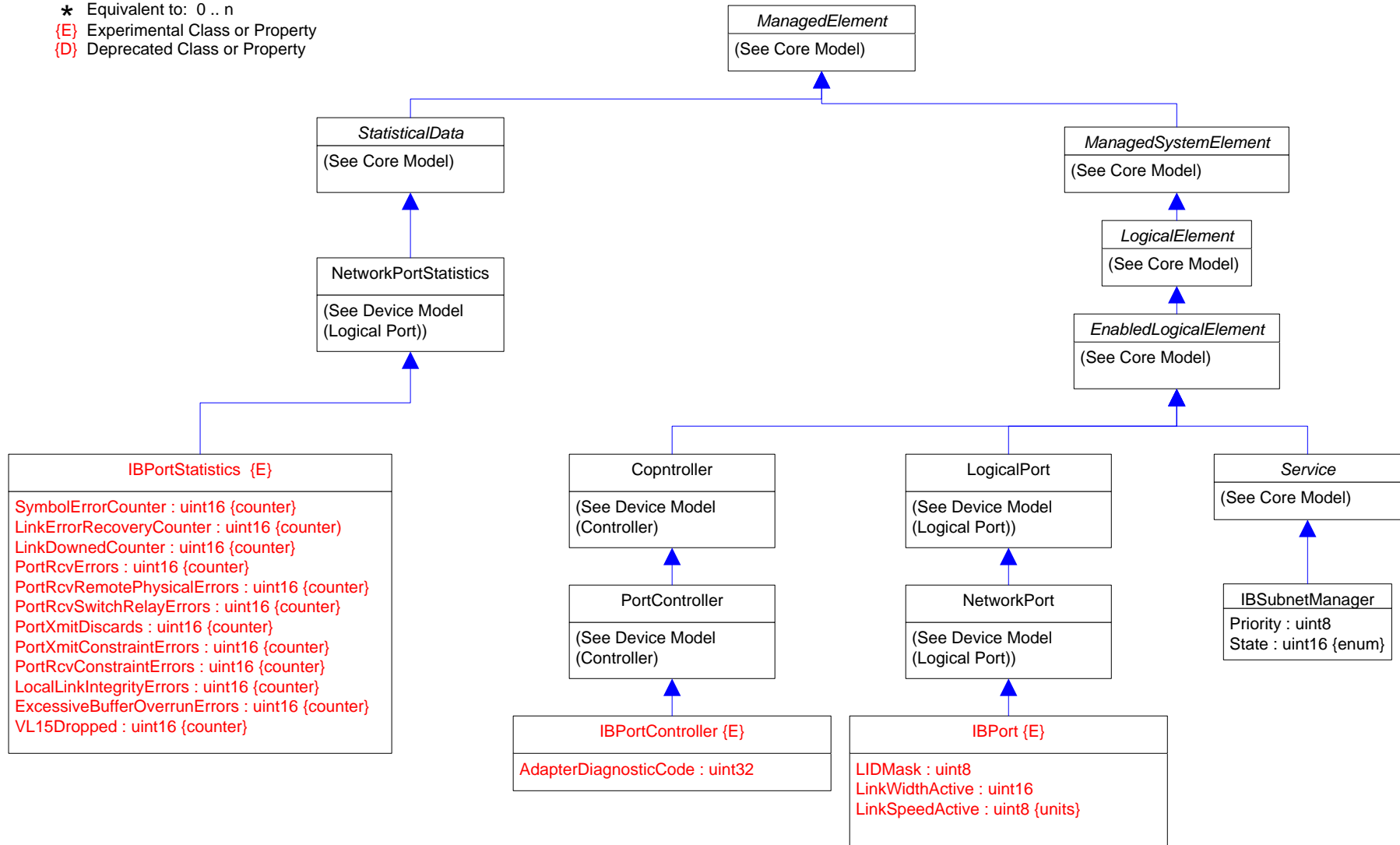


Page 13 - Fibre Channel Services and Zoning










-  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

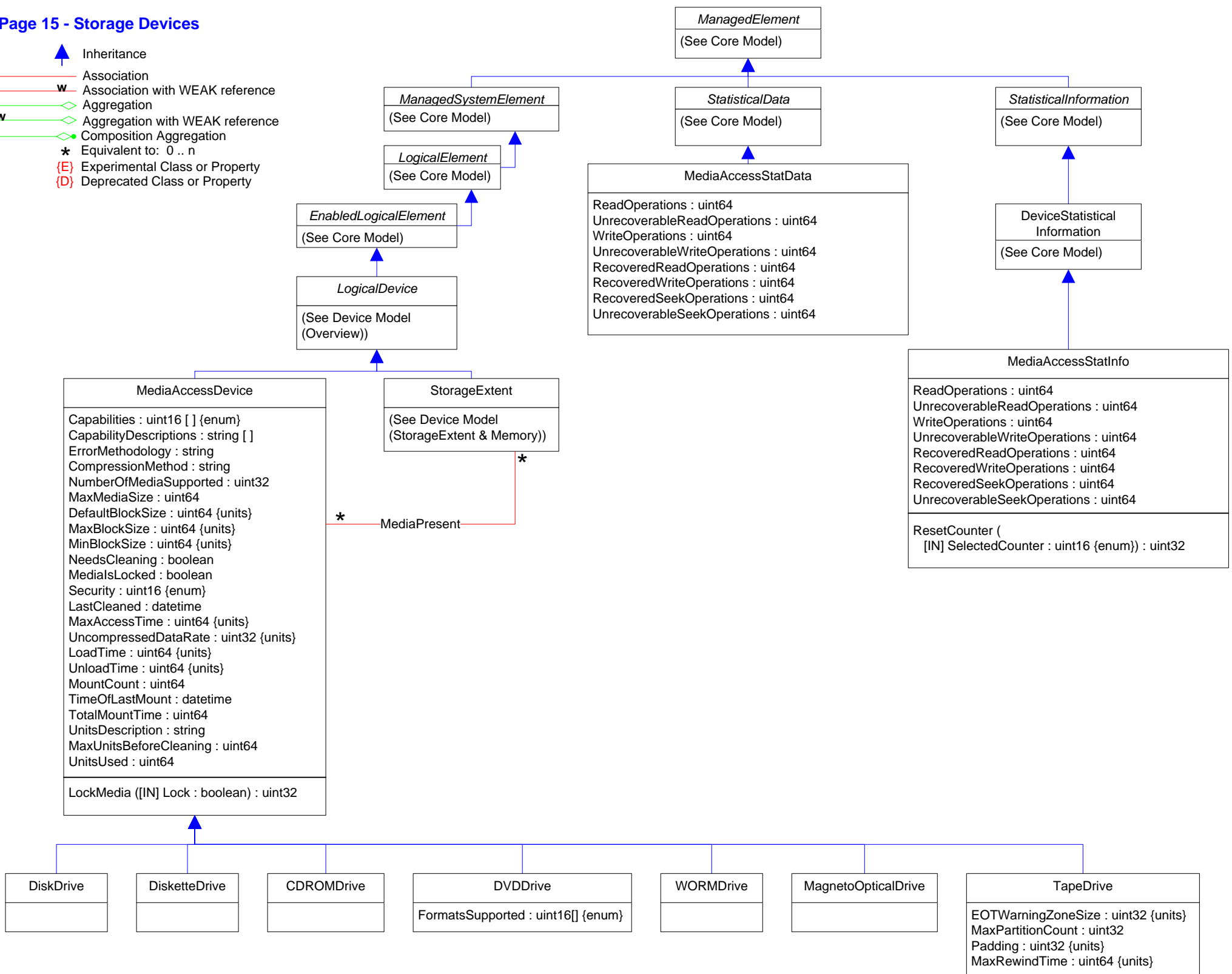



-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property



Page 15 - Storage Devices

-  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

SystemSpecificCollection
(See Core Model)

SCSITargetPortGroup {E}

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

Service
(See Core Model)

SCSIPathConfigurationService {E}

SetTPGAccess (
 [IN] LogicalUnit : ref LogicalDevice
 [IN] TargetPortGroups : ref SCSITargetPortGroup []
 [IN] AccessStates : uint32 {enum}
) : uint32 {enum}

SetLoadBalanceAlgorithm (
 [IN] LogicaDevice : ref LogicalDevice
 [IN] LoadBalanceAlgorithm : uint16 {enum}
 [IN] OtherLoadBalanceAlgorithmDescription : string
) : uint32 {enum}

AssignLogicalUnitToPortGroup (
 [IN] LogicalUnit : ref LogicalDevice
 [IN] TargetPortGroup : ref TargetPortGroup
) : uint32 {enum}

SetOverridePath (
 [IN] path : ref SCSIInitiatorTargetLogicalUnitPath
) : uint32 {enum}

CancelOverridePath (
 [IN] CancelOverridePath : ref LogicalDevice
) : uint32 {enum}

Capabilities
(See Core Model)

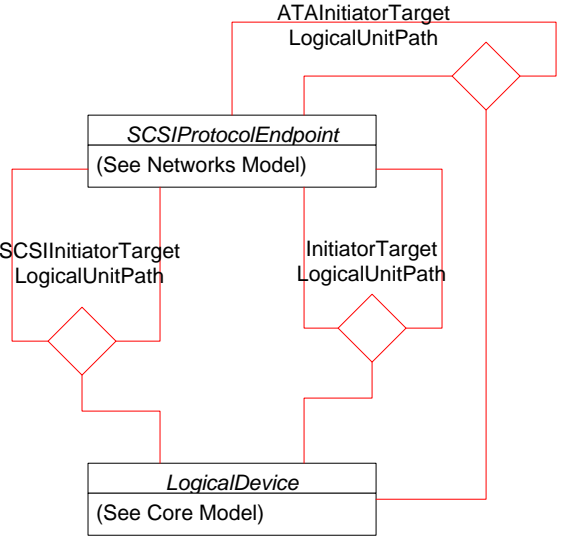
SCSImultipathConfigurationCapabilities {E}

SupportedLoadBalanceTypes : uint16 {enum}
 OtherSupportedLoadBalanceAlgorithmNames : string []
 OtherSupportedLoadBalanceVendorNames : string []
 CanSetTPGAccess : boolean
 CanOverridePaths : boolean
 ExposesPathDeviceFiles : boolean
 DeviceNameFilespace : string
 OnlySupportsSpecifidProducts : boolean
 MaximumWeight : uint32
 PollingRateMax : uint32
 PollingRateMin : uint32
 AutoFailbackSupported : boolean
 AutoFailbackEnabled : boolean
 BadPathPollingRate : uint32
 InactivePathPollingRate : uint32
 DefaultLoadBalanceType : uint16 {enum}

SettingData
(See Core Model)

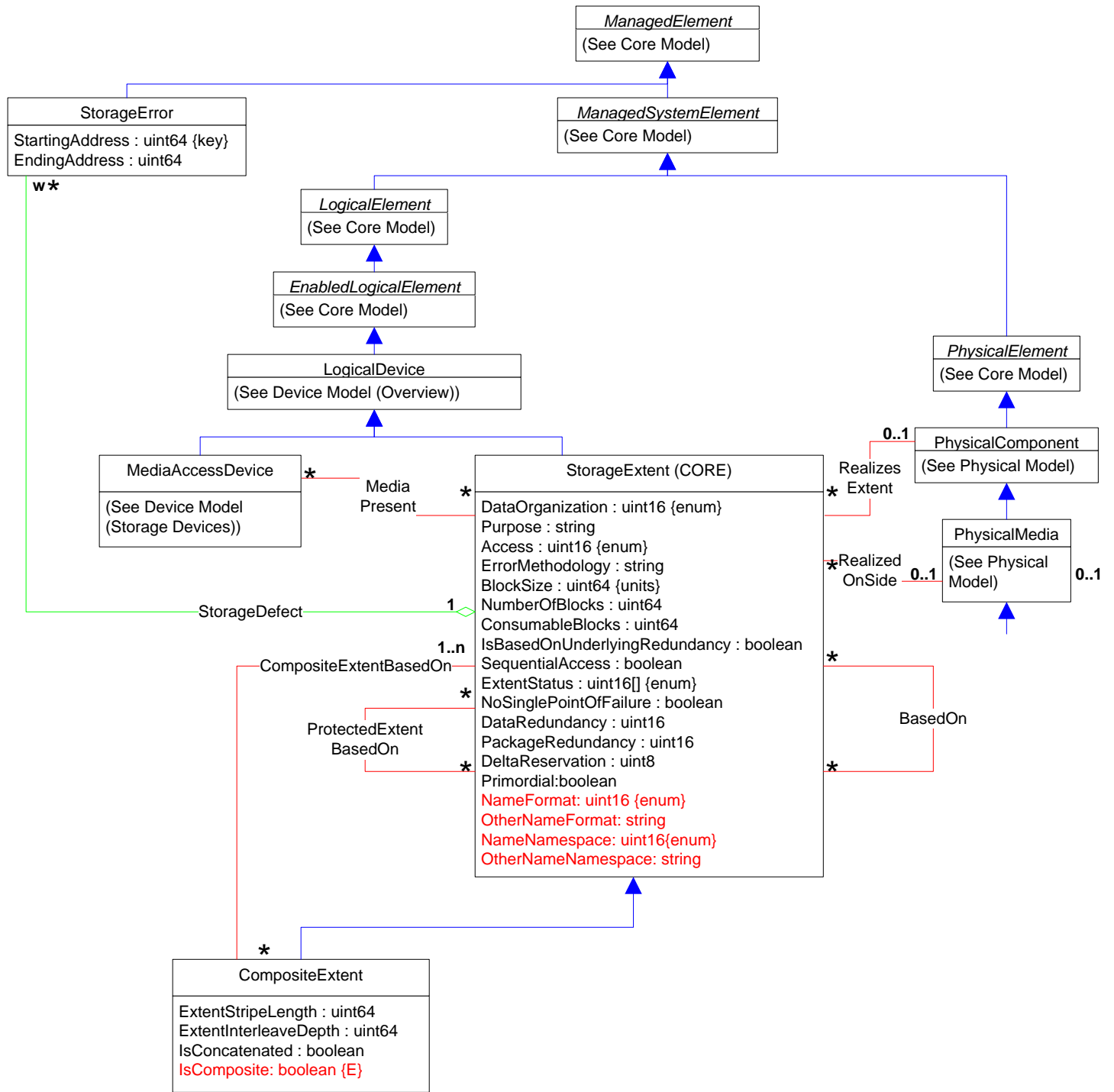
SCSImultipathSettings {E}

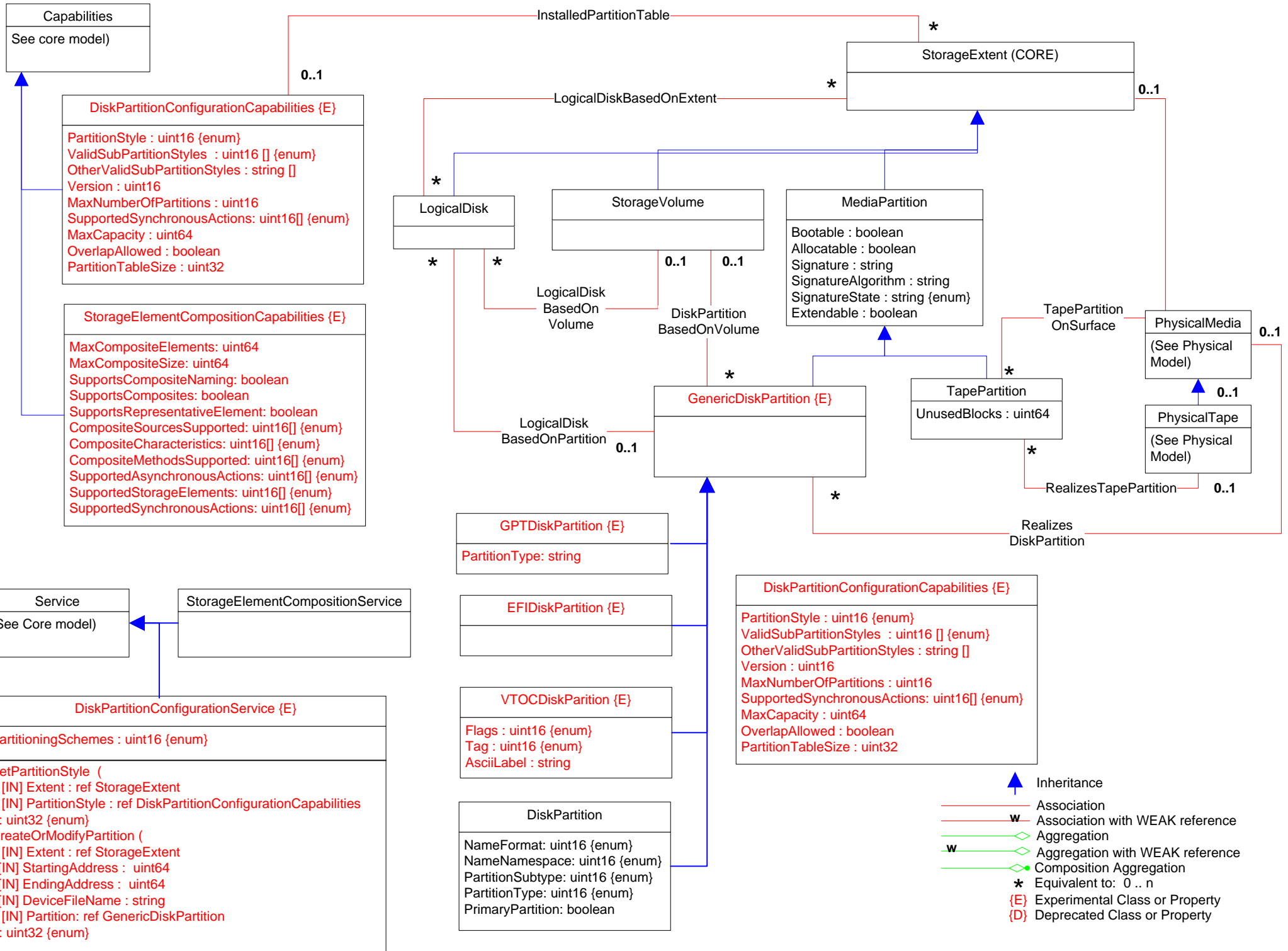
Asymmetric: boolean
 AutoFailbackEnabled: uint16 {enum}
 CurrentLoadBalanceType: uint16 {enum}
 CurrentPollingRate: uint32
 OtherCurrentLoadBalanceType: string
 PollingRateMax: uint32












Page 17- StorageExtent

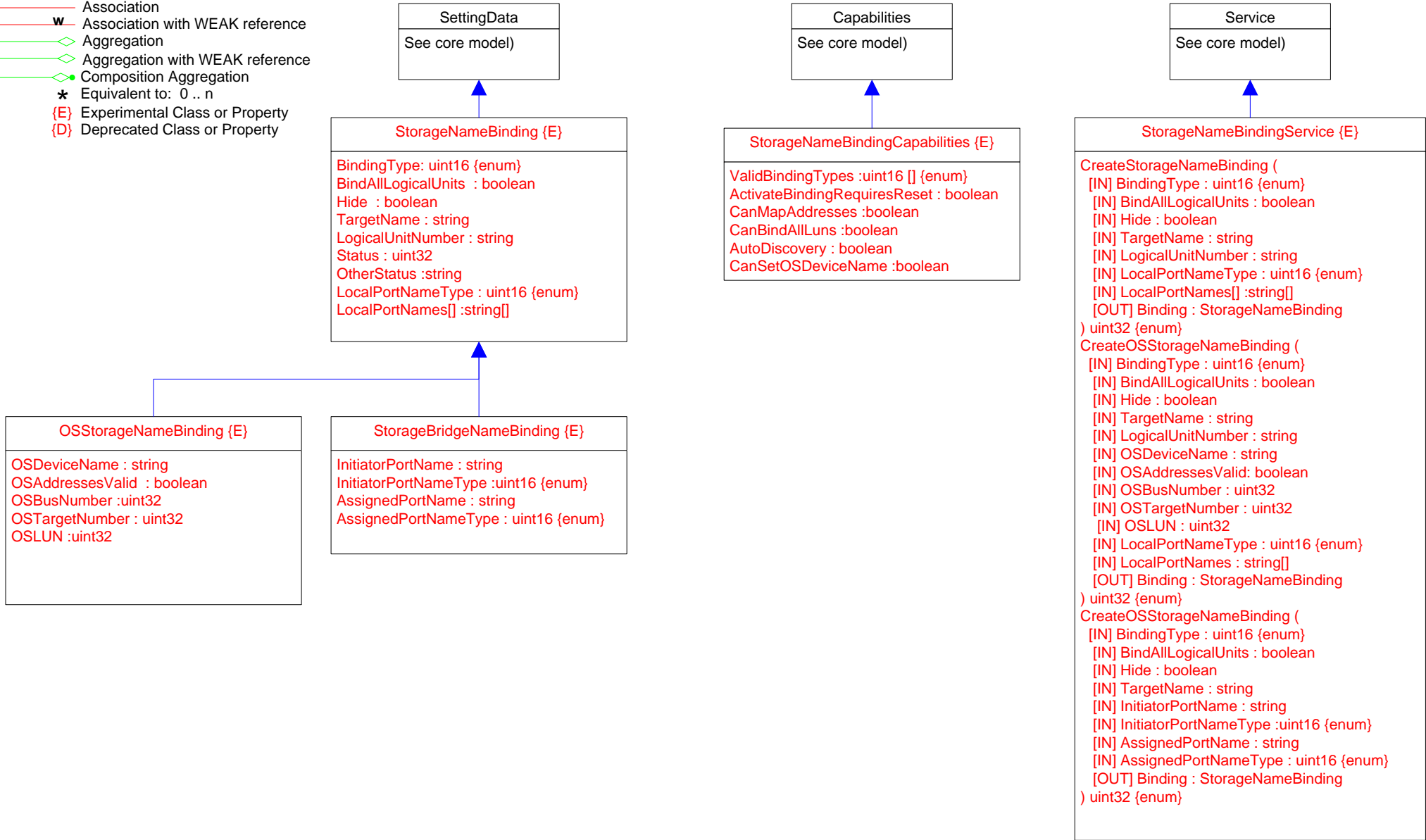
- ▲ Inheritance
- Association
- w Association with WEAK reference
- ◇ Aggregation
- w◇ Aggregation with WEAK reference
- ◇ Composition Aggregation
- *** Equivalent to: 0 .. n
- {E} Experimental Class or Property
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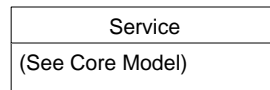




Page 19 - Storage Name Binding

-  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





ReplicationService (E)

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

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

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

RemoveMembers([IN] Members[]: ref CIM_LogicalElement, [IN] DeleteOnEmptyElement: boolean, [IN] ReplicationGroup: ref CIM_ReplicationGroup, [IN] ServiceAccessPoint: ref CIM_ServiceAccessPoint): uint32 {enum}

CreateElementReplica([IN] ElementName: string, [IN] SyncType: uint16, [IN] Mode: uint16, [IN] SourceElement: CIM_LogicalElement, [IN] SourceAccessPoint: ref CIM_ServiceAccessPoint, [IN,OUT] TargetElement: ref CIM_LogicalElement, [IN] TargetAccessPoint: ref CIM_ServiceAccessPoint, [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}

CreateGroupReplica([IN] RelationshipName: string, [IN] SyncType: uint16, [IN] Mode: uint16, [IN] SourceGroup: CIM_ReplicationGroup, [IN] SourceElement: ref CIM_LogicalElement, [IN] SourceAccessPoint: ref CIM_ServiceAccessPoint, [IN,OUT] TargetGroup: CIM_ReplicationGroup, [IN] TargetElementCount: uint64, [IN] TargetAccessPoint: ref CIM_ServiceAccessPoint, [IN] Consistency: uint16, [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}

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

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

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

ModifySettingsDefineState([IN] Operation: uint16, [IN] SettingsState: ref CIM_SettingsDefineState, [IN,OUT] TargetElement: ref CIM_LogicalElement, [IN,OUT] TargetGroup: ref CIM_ReplicationGroup, [IN] TargetElementCount: uint64, [IN] TargetAccessPoint: ref CIM_ServiceAccessPoint, [OUT] Synchronization: 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, [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, [OUT] 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, [IN] SyncType: uint16, [IN] Mode: uint16, [IN] Locality: uint16, [IN] CopyState: uint16, [OUT] Job: ref CIM_ConcreteJob, [OUT] Synchronizations[]: ref CIM_Synchronized): uint32 {enum}

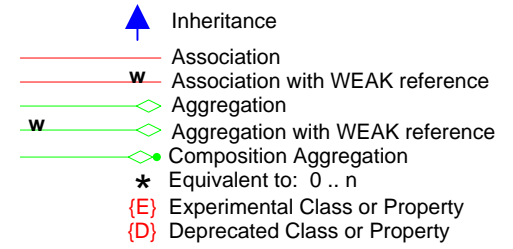
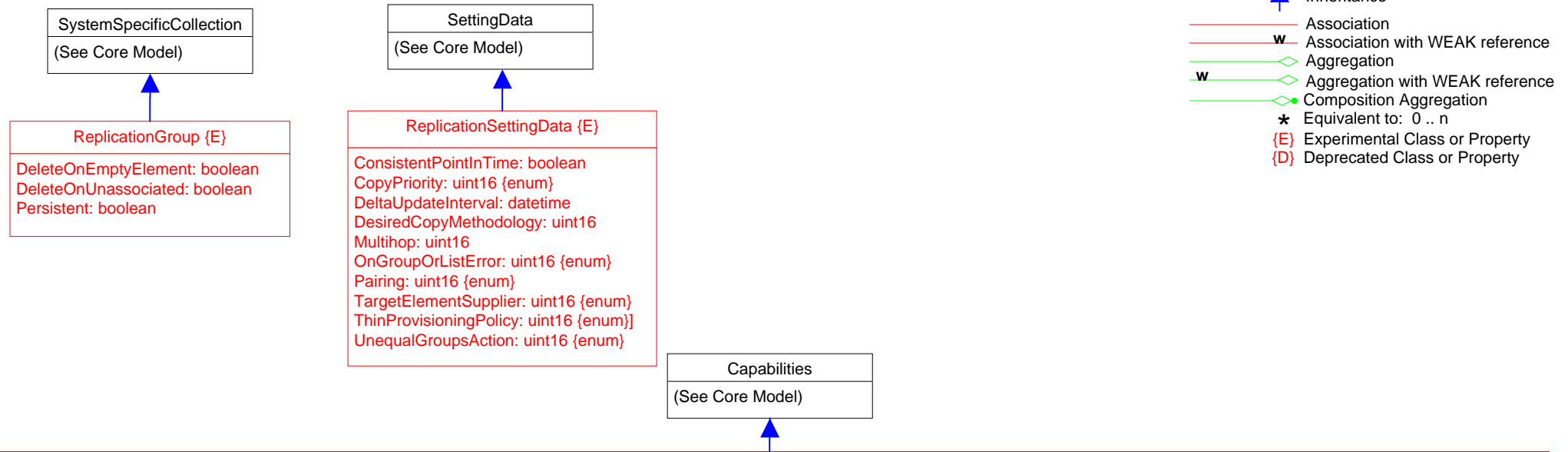
GetServiceAccessPoints([IN] System: ref CIM_ComputerSystem, [OUT] Job: ref CIM_ConcreteJob, [OUT] ServiceAccessPoints[]: ref CIM_ServiceAccessPoint): uint32 {enum}

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: CIM_ServiceAccessPoint, [IN] InstanceNamespace: string, [OUT] SharedSecretPath: ref CIM_SharedSecret): uint32 {enum}

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



ReplicationServiceCapabilities {E}

GetSupportedWaitForCopyStates([IN] ReplicationType: uint16, [IN] MethodName: uint16, [OUT] SupportedCopyStates: uint16[]): uint32 {enum}

GetSupportedFeatures([IN] ReplicationType: uint16, [OUT] Features: uint16[]): uint32 {enum}

GetSupportedGroupFeatures([IN] ReplicationType: uint16, [OUT] GroupFeatures: uint16[]): uint32 {enum}

GetSupportedConsistency([IN] ReplicationType: uint16, [OUT] SupportedConsistency: uint16[]): uint32 {enum}

GetSupportedOperations([IN] ReplicationType: uint16, [OUT] SupportedOperations: uint16[]): uint32 {enum}

GetSupportedGroupOperations([IN] ReplicationType: uint16, [OUT] SupportedGroupOperations: uint16[]): uint32 {enum}

GetSupportedListOperations([IN] ReplicationType: uint16, [IN] SynchronizationType: uint16, [OUT] SupportedListOperations: uint16[]): uint32 {enum}

GetSupportedSettingsDefineStateOperations([IN] ReplicationType: uint16, [OUT] SupportedOperations: uint16[]): uint32 {enum}

GetSupportedThinProvisioningFeatures([IN] ReplicationType: uint16, [OUT] SupportedThinProvisioningFeatures: uint16[]): uint32 {enum}

GetSupportedMaximum([IN] ReplicationType: uint16, [IN] Component: uint16, [OUT] MaxValue: uint16): uint32 {enum}

GetDefaultConsistency([IN] ReplicationType: uint16, [OUT] DefaultConsistency: uint16): uint32 {enum}

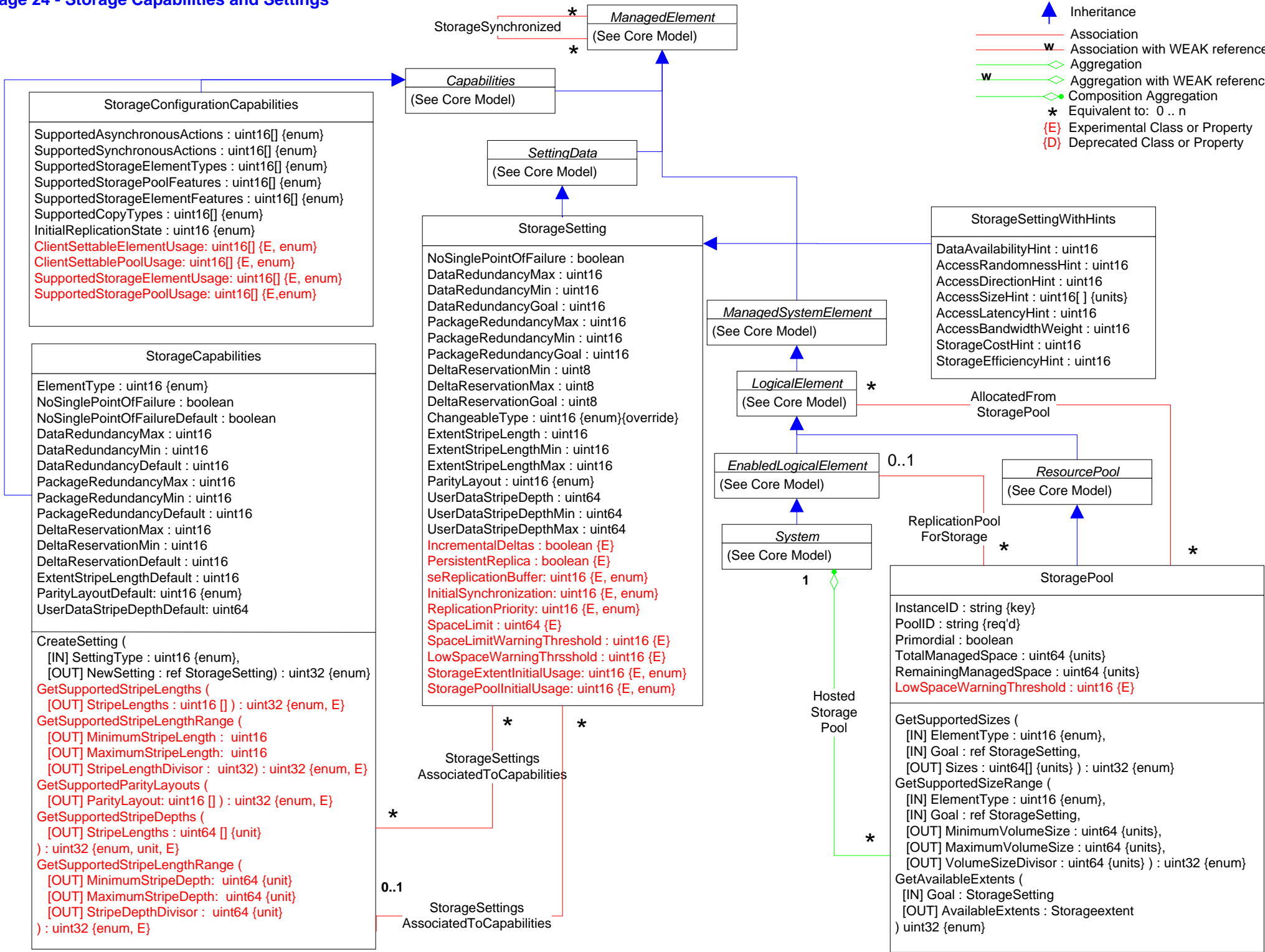
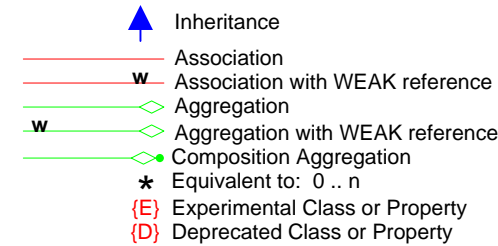
GetDefaultGroupPersistency([OUT] DefaultGroupPersistency: uint16): uint32 {enum}










GetSupportedReplicationSettingData([IN] ReplicationType: uint16, [IN] PropertyName: uint16, [OUT] SupportedValues: uint16[]): uint32 {enum}

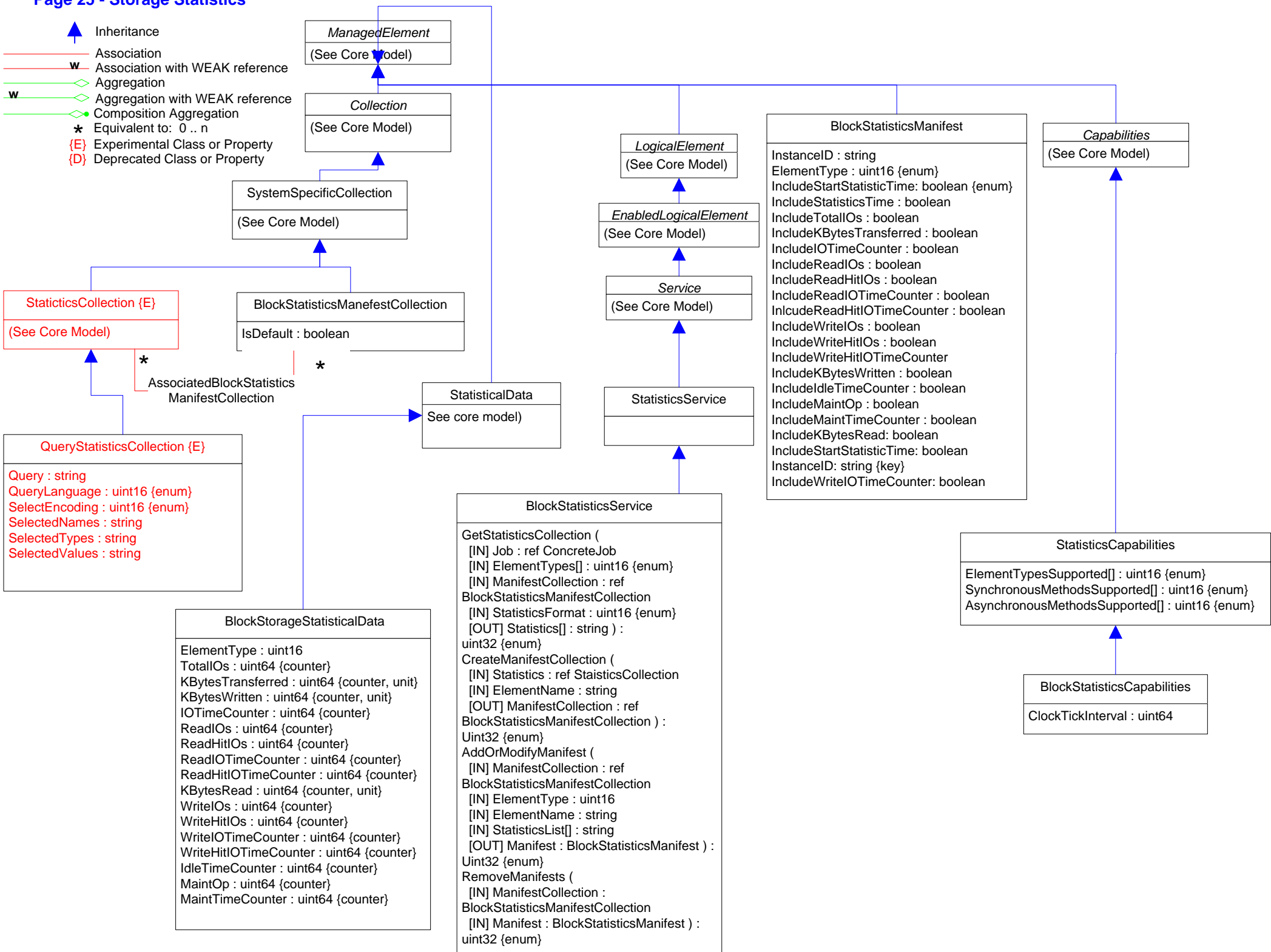
GetDefaultReplicationSettingData([IN] ReplicationType: uint16, [OUT] DefaultInstance: string): uint32 {enum}

GetSupportedConnectionFeatures([IN] connection: ref CIM_ServiceAccessPoint, [OUT] SupportedConnectionFeatures: uint16[]): uint32 {enum}










GetSynchronizationSupported([OUT] LocalElement: ref CIM_LogicalElement, [IN] OtherElement: ref CIM_LogicalElement, [IN] OtherElementAccessPoint: ref CIM_ServiceAccessPoint, [IN] MethodName: uint16, [OUT] SyncTypes: uint16[], [OUT] Modes: uint16[], [IN] LocalElementRole: uint16[]): uint32 {enum}

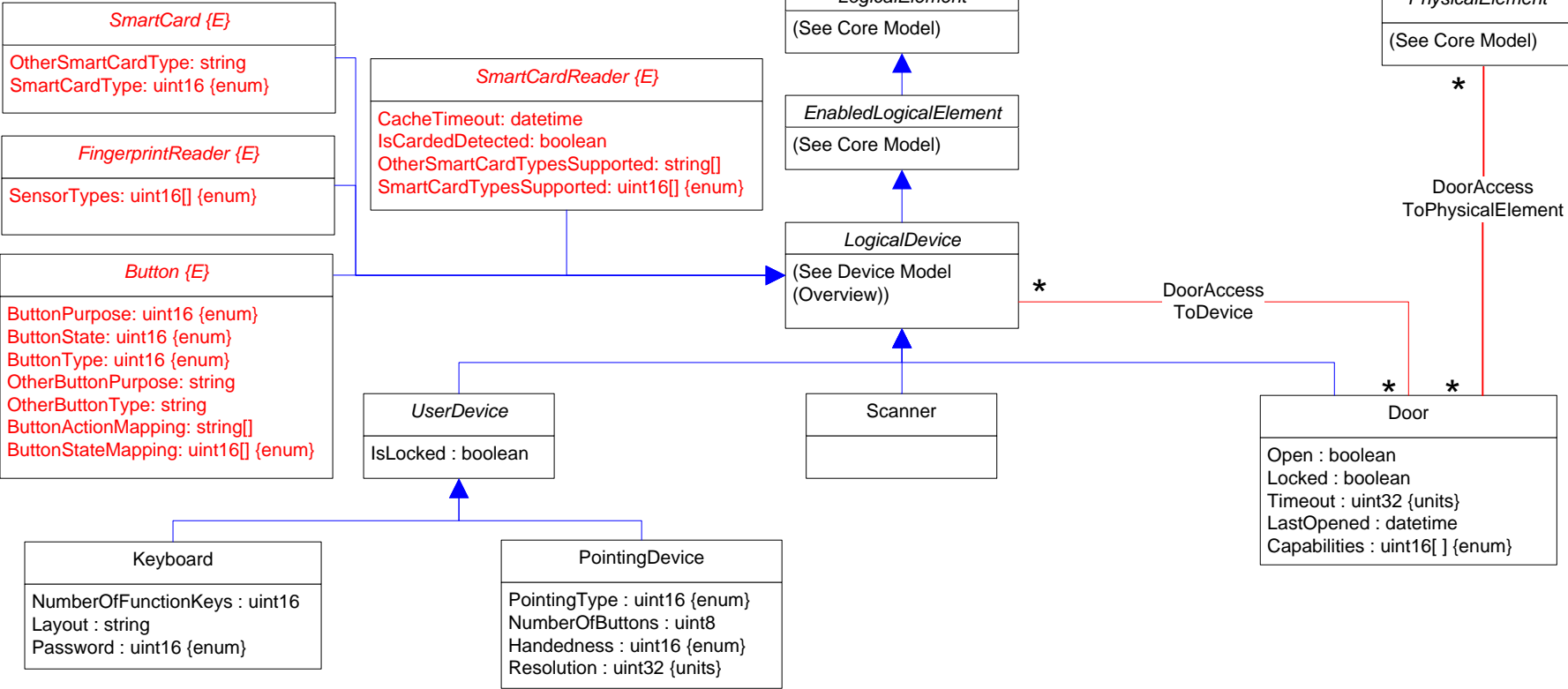



-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
-  Experimental Class or Property
-  Deprecated Class or Property

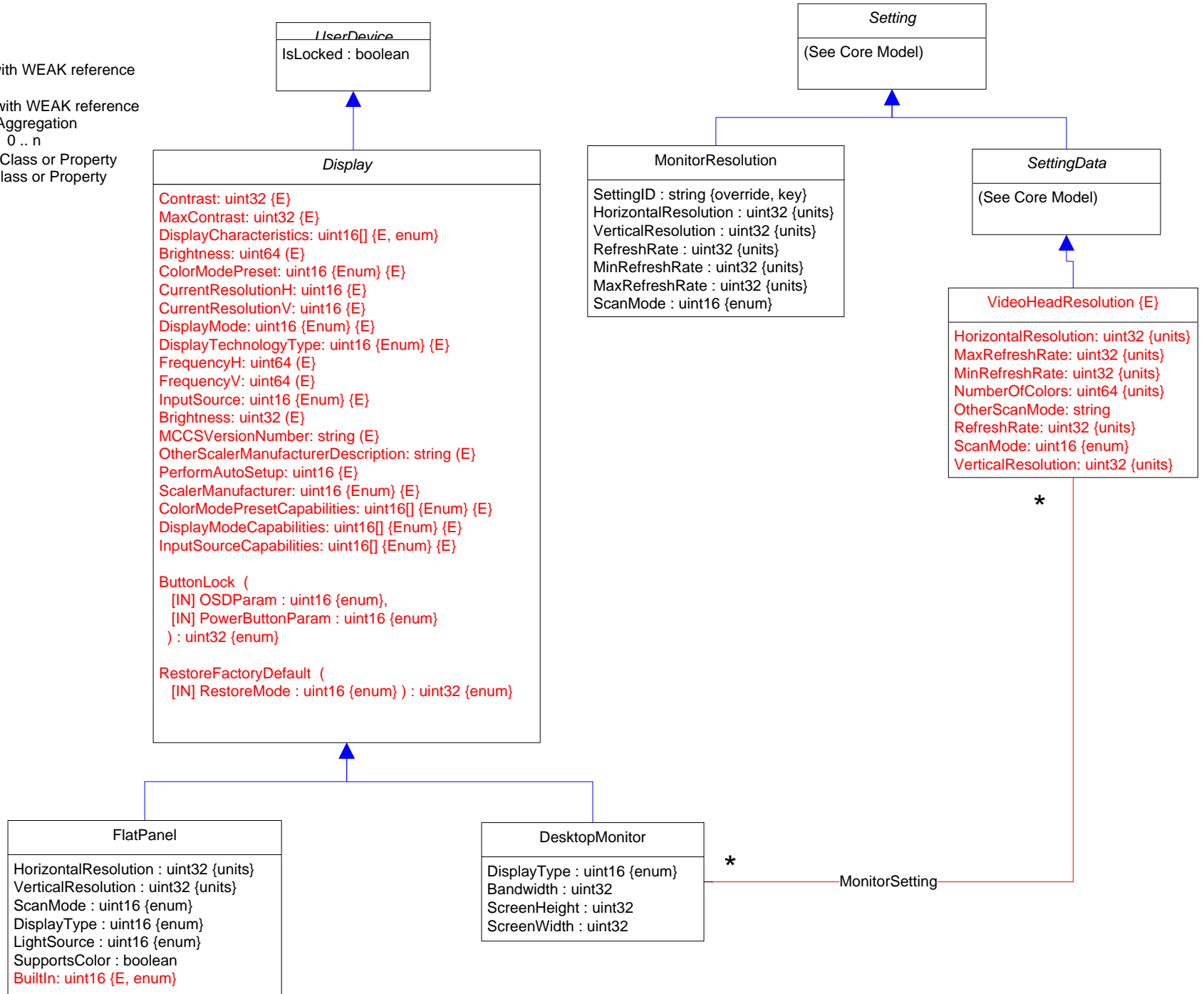


Page 27- User Devices









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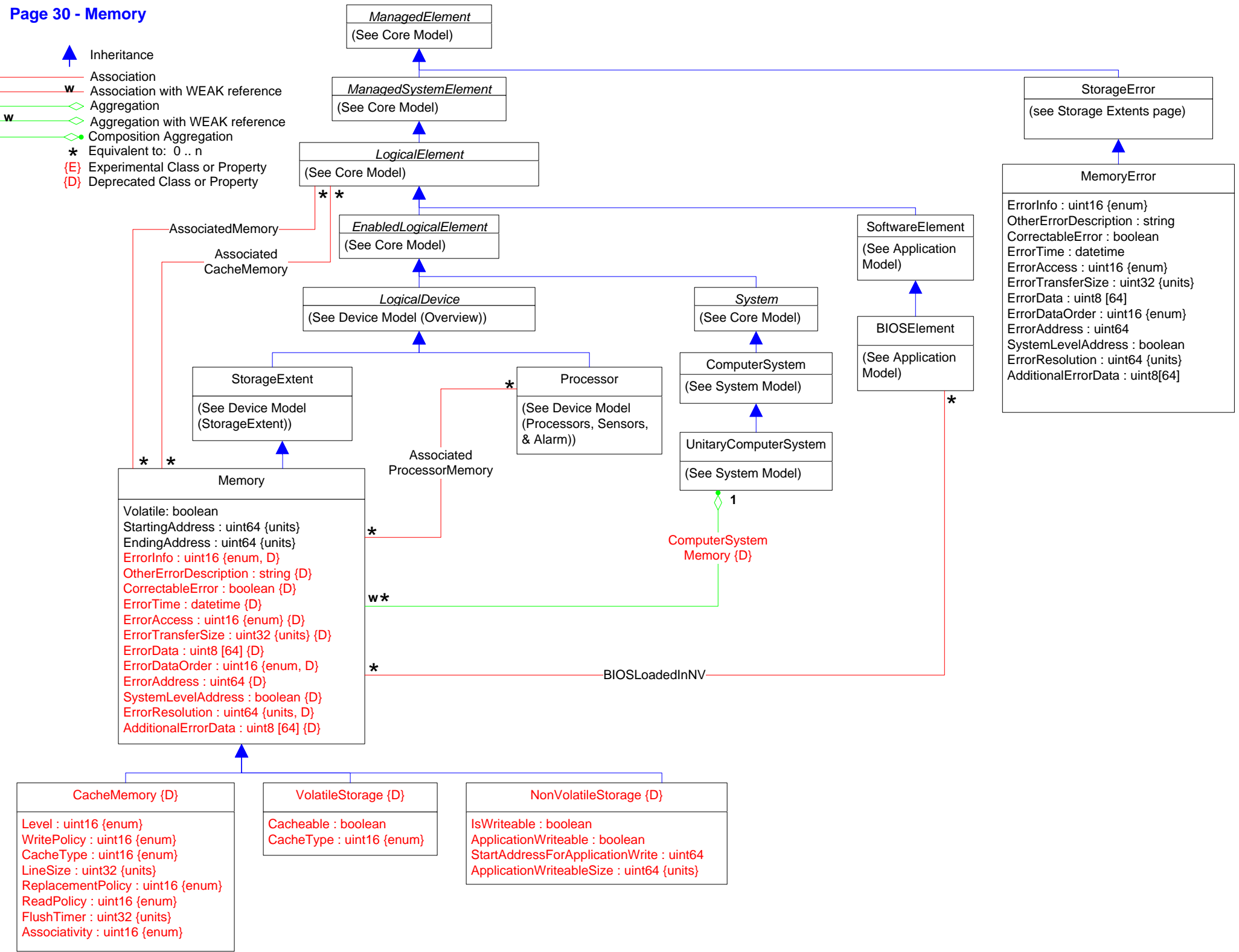


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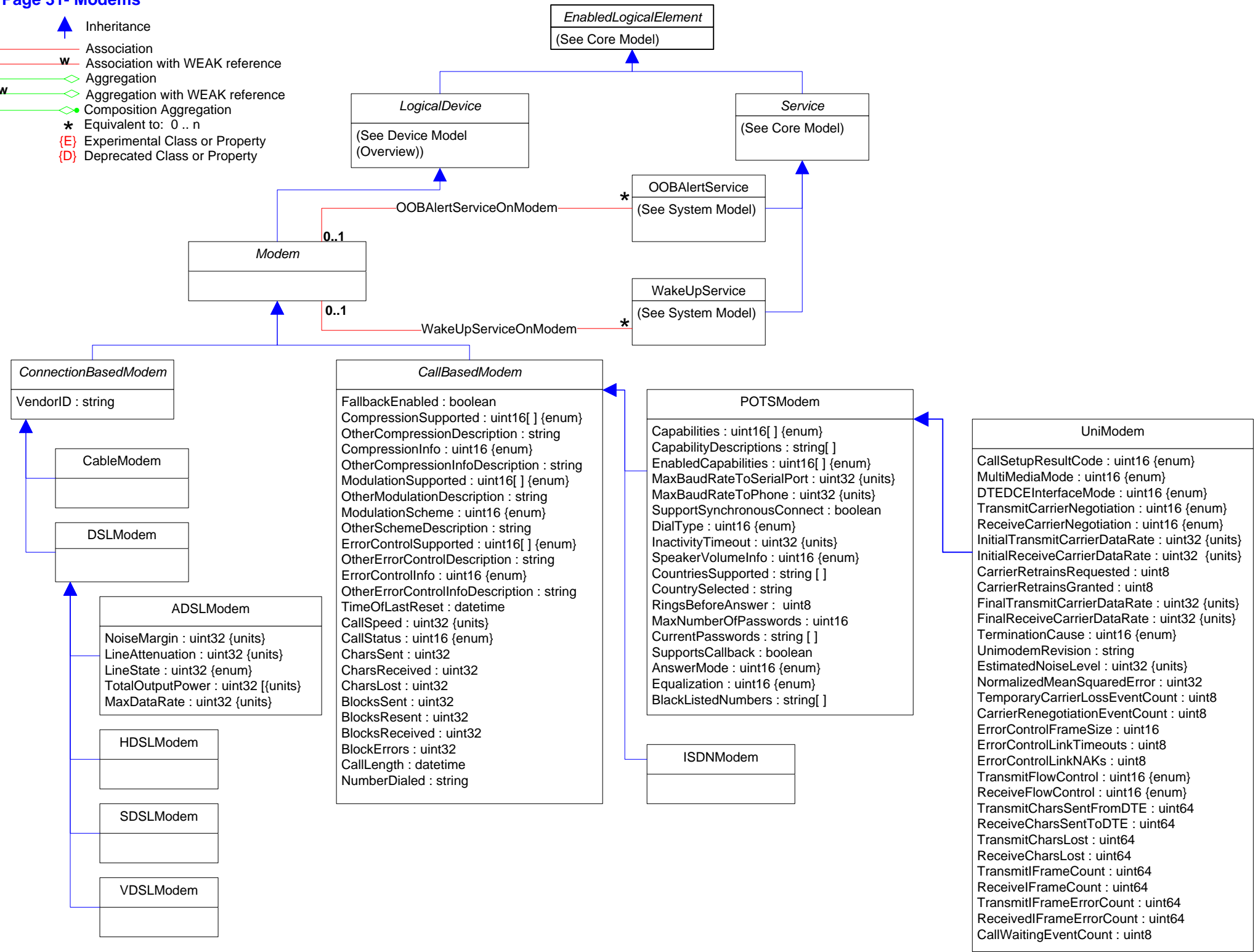
Page 30 - Memory








-  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

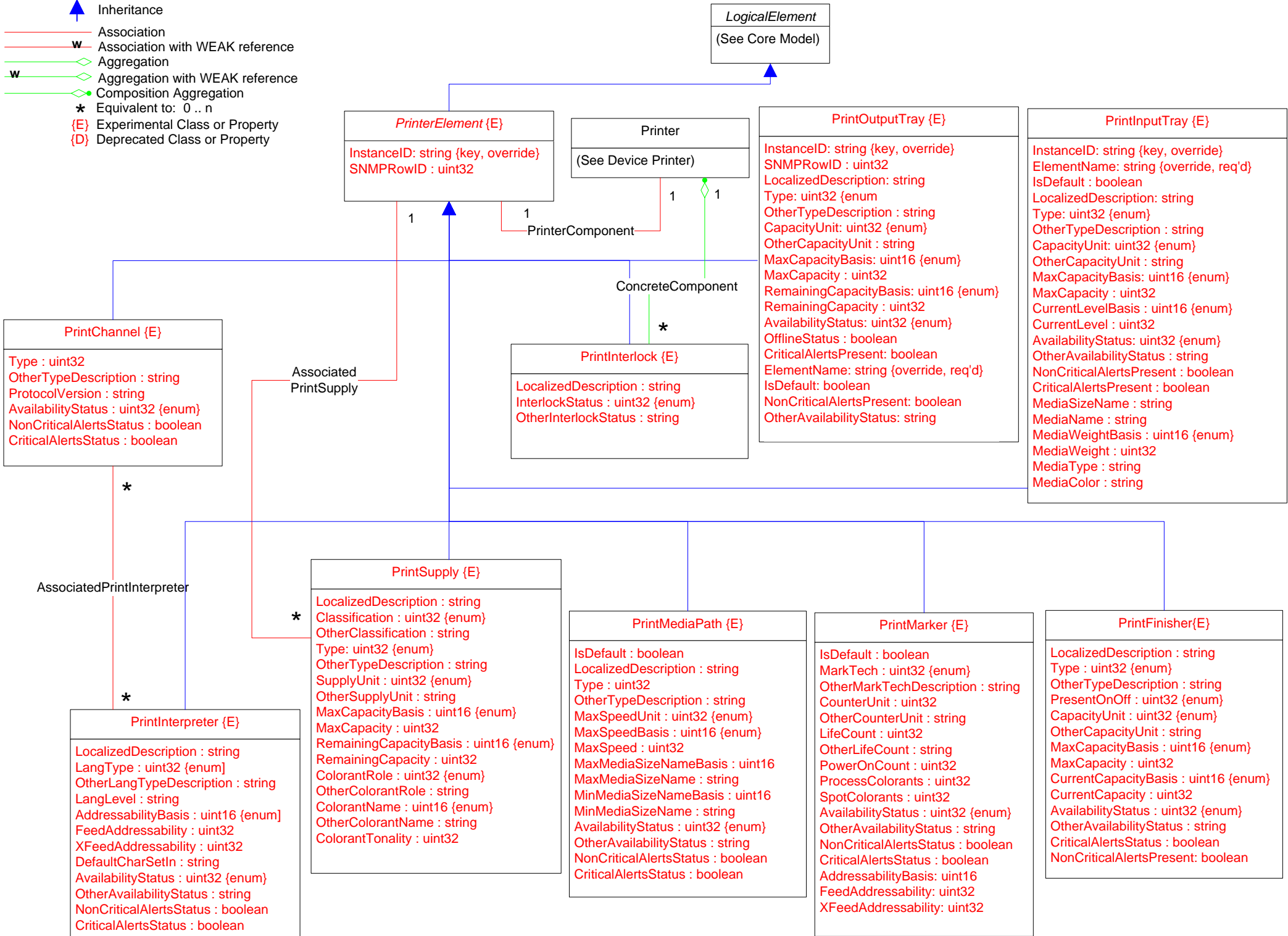


Page 31- Modems








-  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

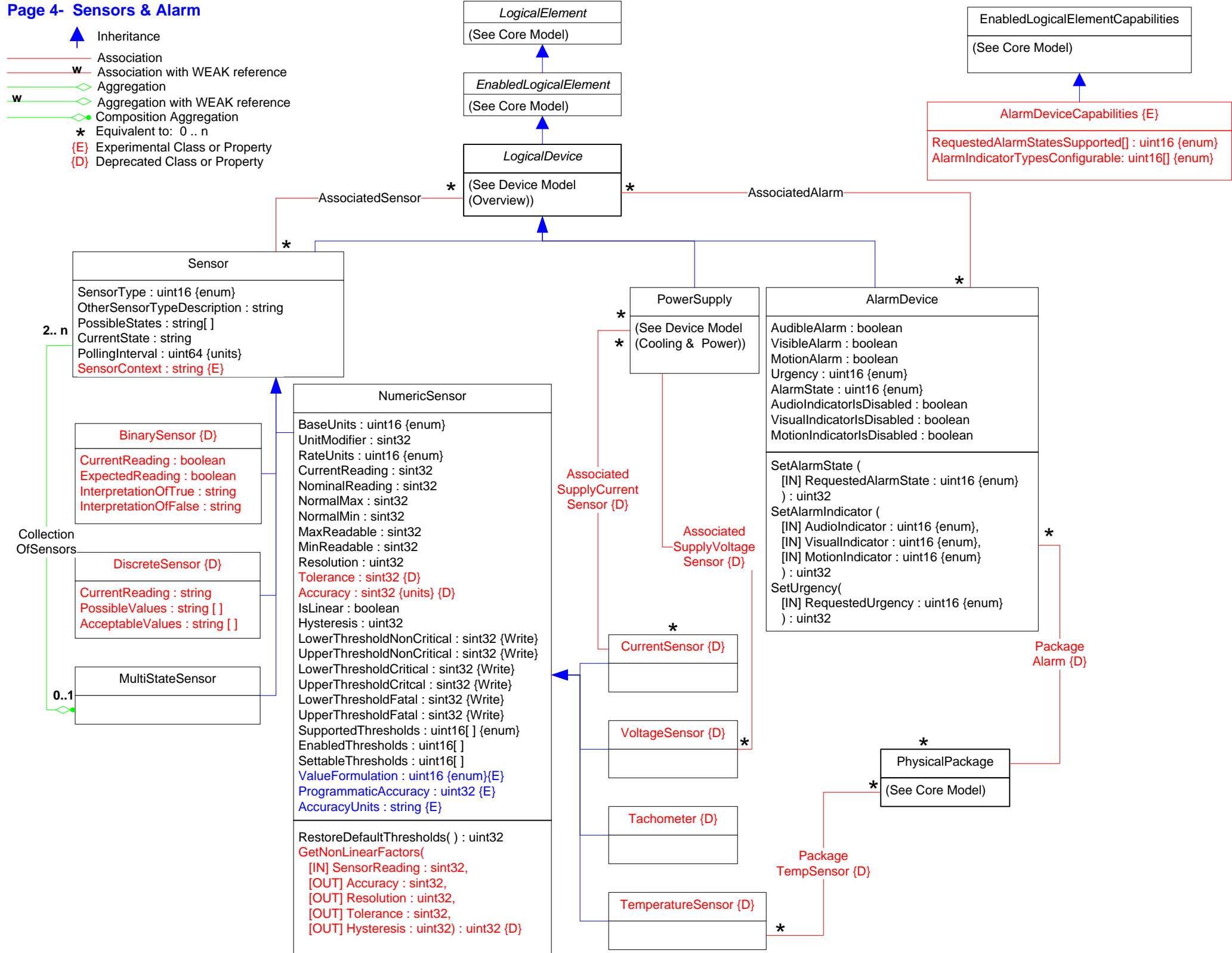









-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n
- {E} Experimental Class or Property
- {D} Deprecated Class or Property

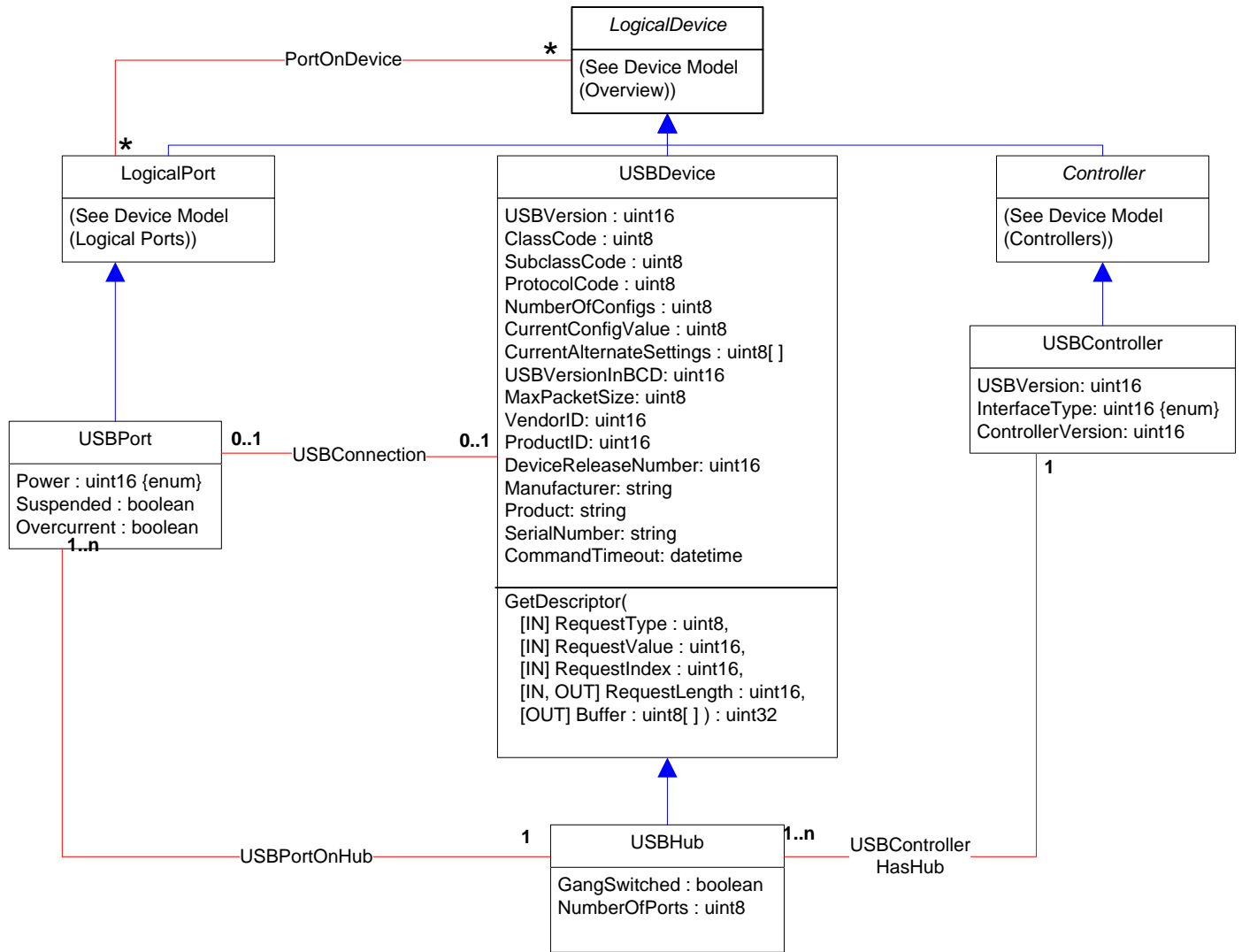


Page 4- Sensors & Alarm

-  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

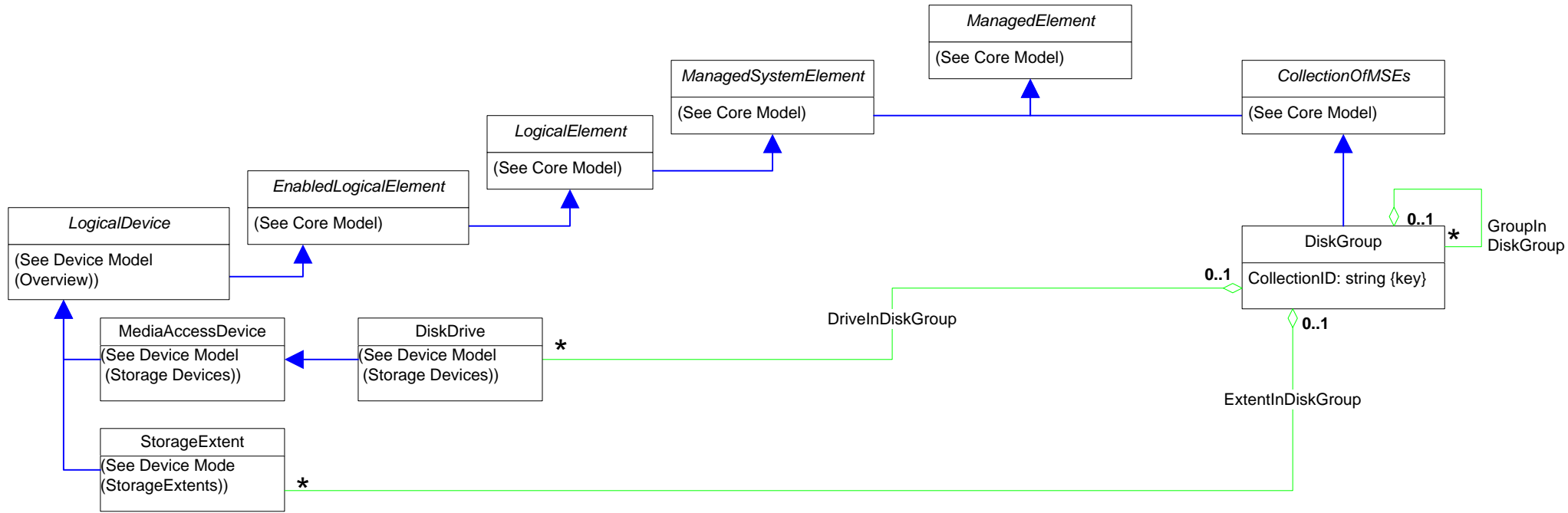


-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n










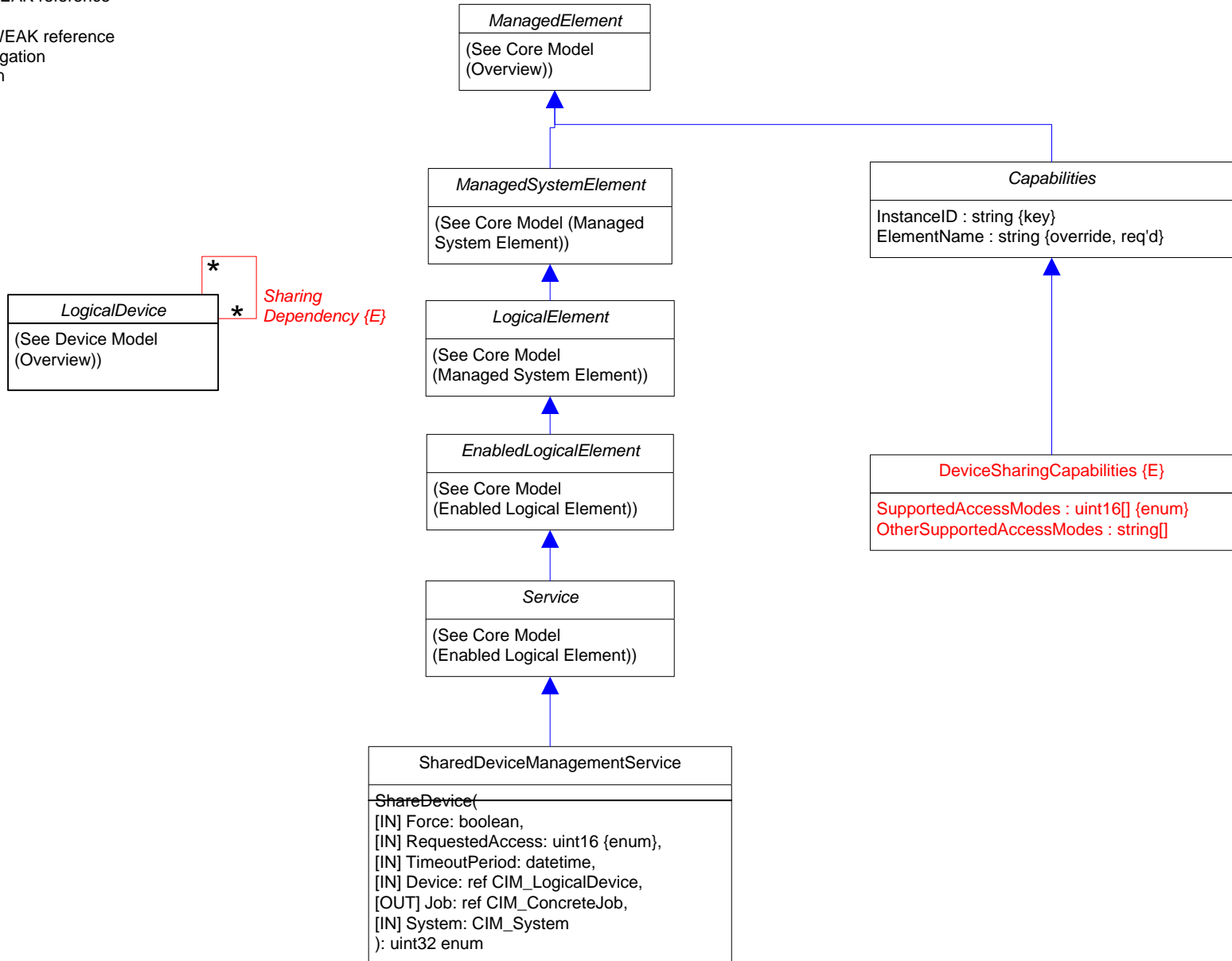
Page 36 - Disk Group








- ▲ Inheritance
- Association
- w Association with WEAK reference
- ◇ Aggregation
- w◇ Aggregation with WEAK reference
- ◇● Composition Aggregation
- * Equivalent to: 0..n

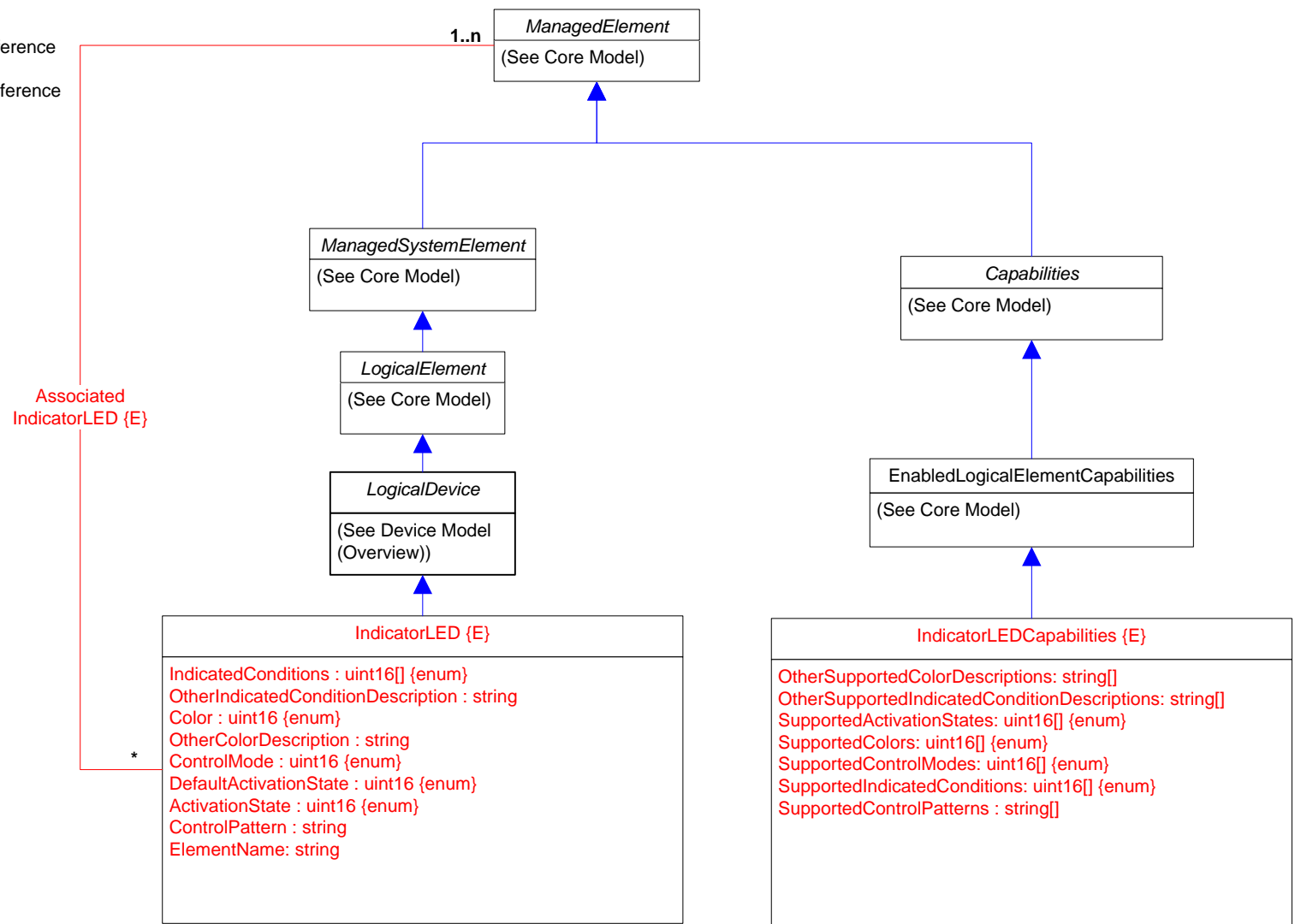



Page 37- Device Sharing

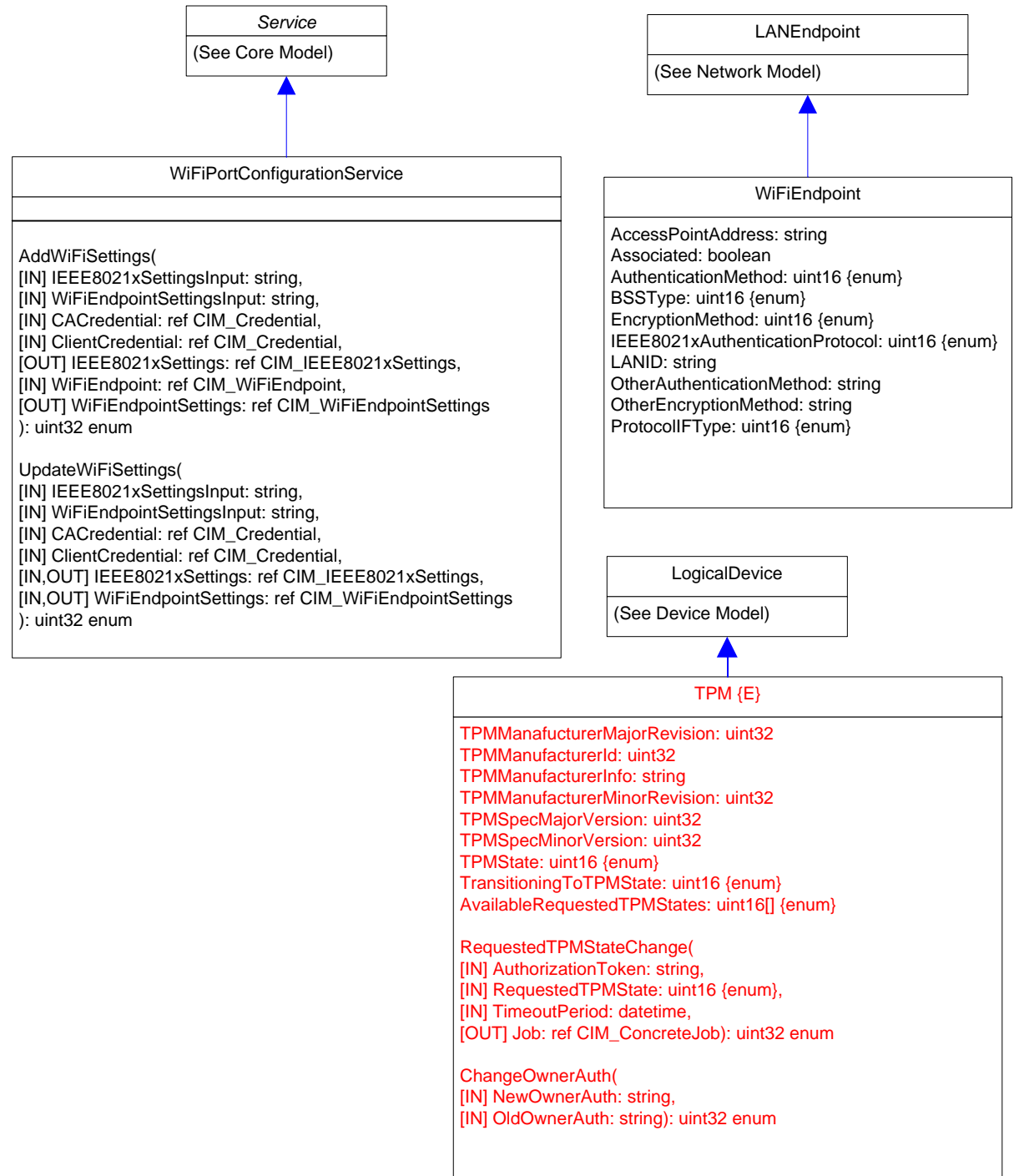
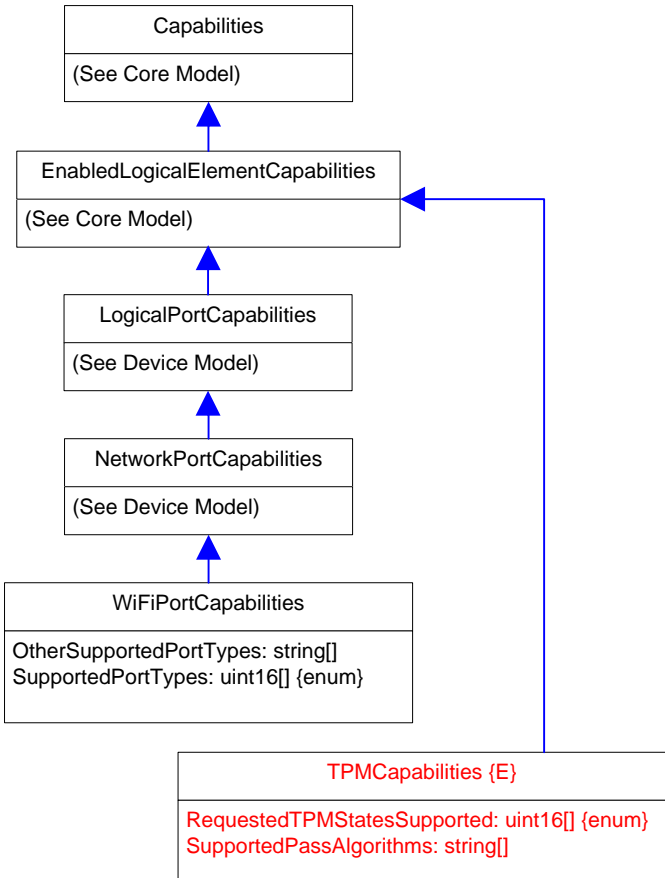
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n

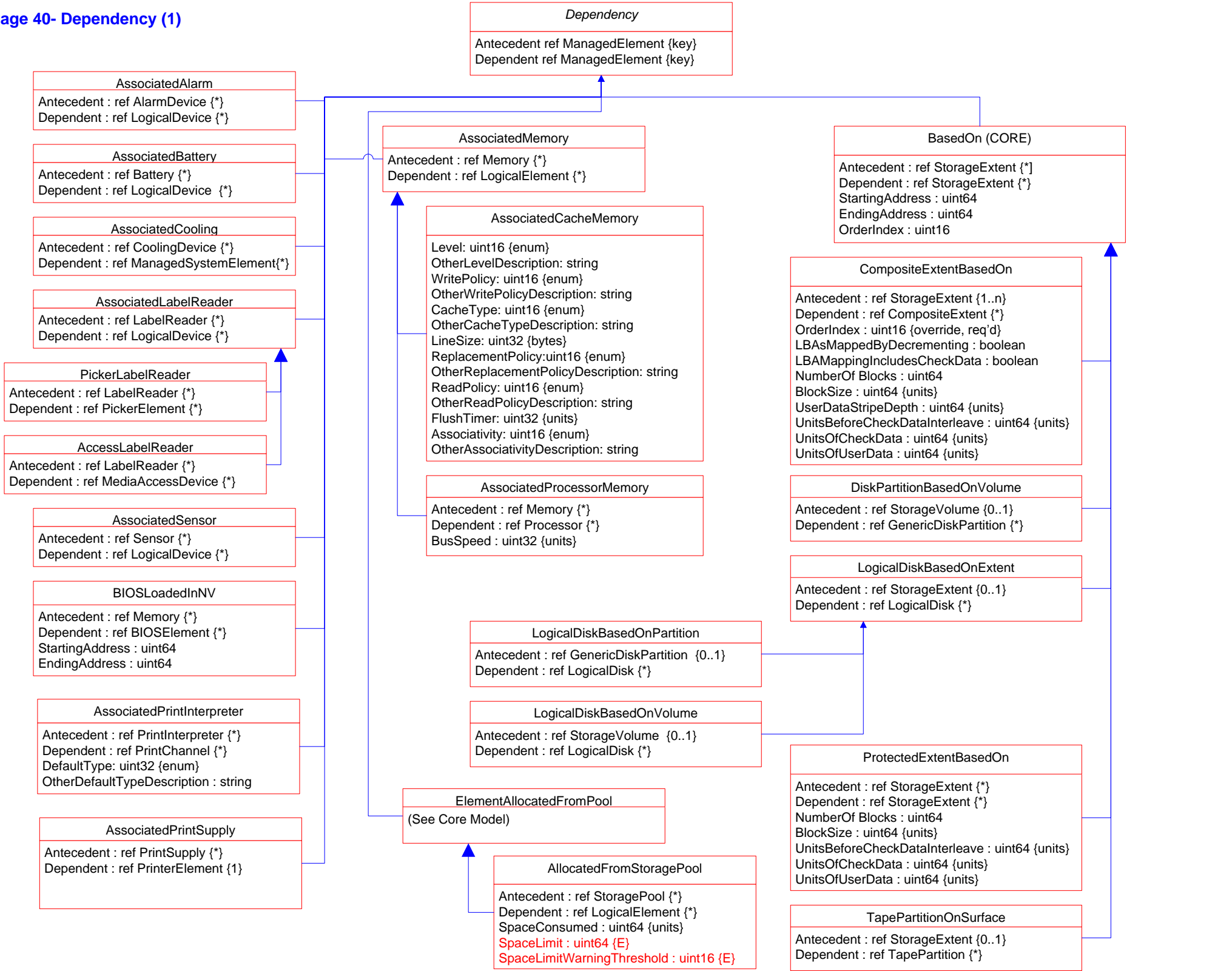


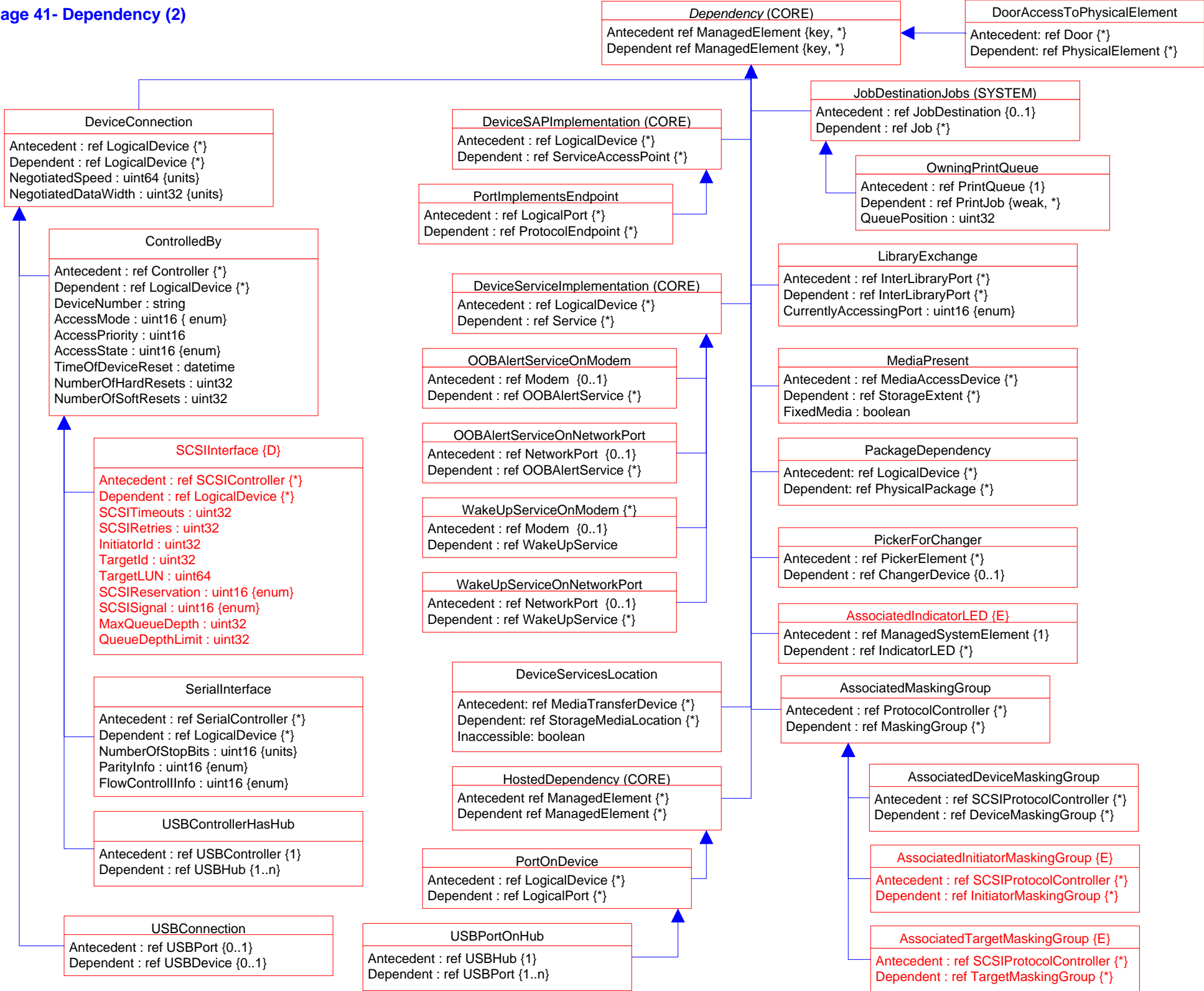
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n



-  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







Dependency (CORE)
Antecedent ref ManagedElement {key, *}
Dependent ref ManagedElement {key, *}

DeviceSoftware
Antecedent : ref SoftwareElement {*}
Dependent : ref LogicalDevice {*}
LoadedOnDevice: boolean
Purpose: uint16 {enum}
PurposeDescription: string
UpgradeableOnDevice: boolean

SuppliesPower
Antecedent : ref PowerSource {*}
Dependent : ref ManagedSystemElement{*}

SystemPackaging (CORE)
Antecedent: ref PhysicalElement {*}
Dependent: ref System {*}

LibraryPackage
Antecedent: ref PhysicalPackage {*}
Dependent: ref StorageLibrary {*}

InstalledPartitionTable {E}
Capabilities: ref DiskPartitionConfigurationCapabilities {*}
Dependent : ref StorageExtent {*}

SharingDependency
Antecedent: ref LogicalDevice{0..1}
Dependent : ref LogicalDevice{*}
CurrentStatus : uint16 {enum}
OtherCurrentStatus : string

ReplicationPoolForStorage {E}
Antecedent: ref EnabledLogicalElement {0..1}
Dependent : ref StoragePool

StorageSettingsAssociatedToCapabilities (CORE)
Antecedent: ref StorageCapabilities {*}
Dependent : ref StorageSetting {*}
DefaultSetting : boolean

StorageSettingsAssociatedToCapabilities {E}
Antecedent: ref StorageCapabilities {*}
Dependent : ref StorageSetting {*}
DefaultSetting : boolean

StorageSettingsGeneratedFromCapabilities
Antecedent: ref StorageCapabilities {0..1}
Dependent : ref StorageSetting {*}

QueueForPrintService
Antecedent : ref PrintQueue {*}
Dependent : ref PrintService {*}
QueueAcceptingFromService : boolean

QueueForwardsToPrintSAP
Antecedent : ref PrintSAP {*}
Dependent : ref PrintQueue {*}

AsymmetricAccessibility {E}
Antecedent: ref TargetPortGroup {*}
Dependent: ref StorageResourceLoadGroup {*}
CurrentAccessState: uint16 {enum}
NormalAccessState: uint16 {enum}

StorageProcessorAffinity {E}
Antecedent: ref ComputerSystem {*}
Dependent: ref Collection {*}
IsPrimjary: boolean
IsActive: boolean

Realizes (CORE)
Antecedent: ref PhysicalElement {*}
Dependent: ref LogicalDevice {*}

RealizesExtent
Antecedent: ref PhysicalComponent {0..1}
Dependent: ref StorageExtent {*}
StartingAddress: uint64

RealizedOnSide
Antecedent: ref PhysicalMedia {0..1}
Dependent: ref StorageExtent {*}
Side: uint16 {enum}

RealizesDiskPartition
Antecedent: ref PhysicalMedia {0..1}
Dependent: ref GenericDiskPartition {*}

RealizesTapePartition
Antecedent: ref PhysicalTape {0..1}
Dependent: ref TapePartition {*}

DoorAccessToDevice
Antecedent: ref Door {*}
Dependent: ref LogicalDevice {*}

PortActiveConnection
Antecedent: ref PhysicalConnector {*}
Dependent: ref NetworkPort {*}

PrinterServicingJob
Antecedent : ref Printer {*}
Dependent : ref PrintJob {*}

PrinterServicingQueue
Antecedent : ref Printer {*}
Dependent : ref PrintQueue {*}

ProtocolControllerForDevice
Antecedent : ref ProtocolController {*}
Dependent : ref LogicalDevice {*}
DeviceNumber : string
AccessPriority : uint16
AccessState : uint16 {enum}

AssociatedProtocolController
Antecedent : ref ProtocolController {*}
Dependent : ref ProtocolController {*}

ProtocolControllerAccessUnit
Antecedent : ref ProtocolController {*}
Dependent : ref LogicalDevice {*}
TargetControllerNumber : string
DeviceAccess :uint16 {enum, E}

ProtocolControllerForPort
Antecedent : ref ProtocolController {*}
Dependent : ref LogicalPort {*}

ProtocolControllerForUnit
Antecedent : ref ProtocolController {*}
Dependent : ref LogicalDevice {*}
DeviceAccess :uint16 {enum}

RealizesProcessor {E}
Antecedent: ref PhysicalComponent {0..1}
Dependent: ref StorageExtent {*}
RealizationType: uint16

