





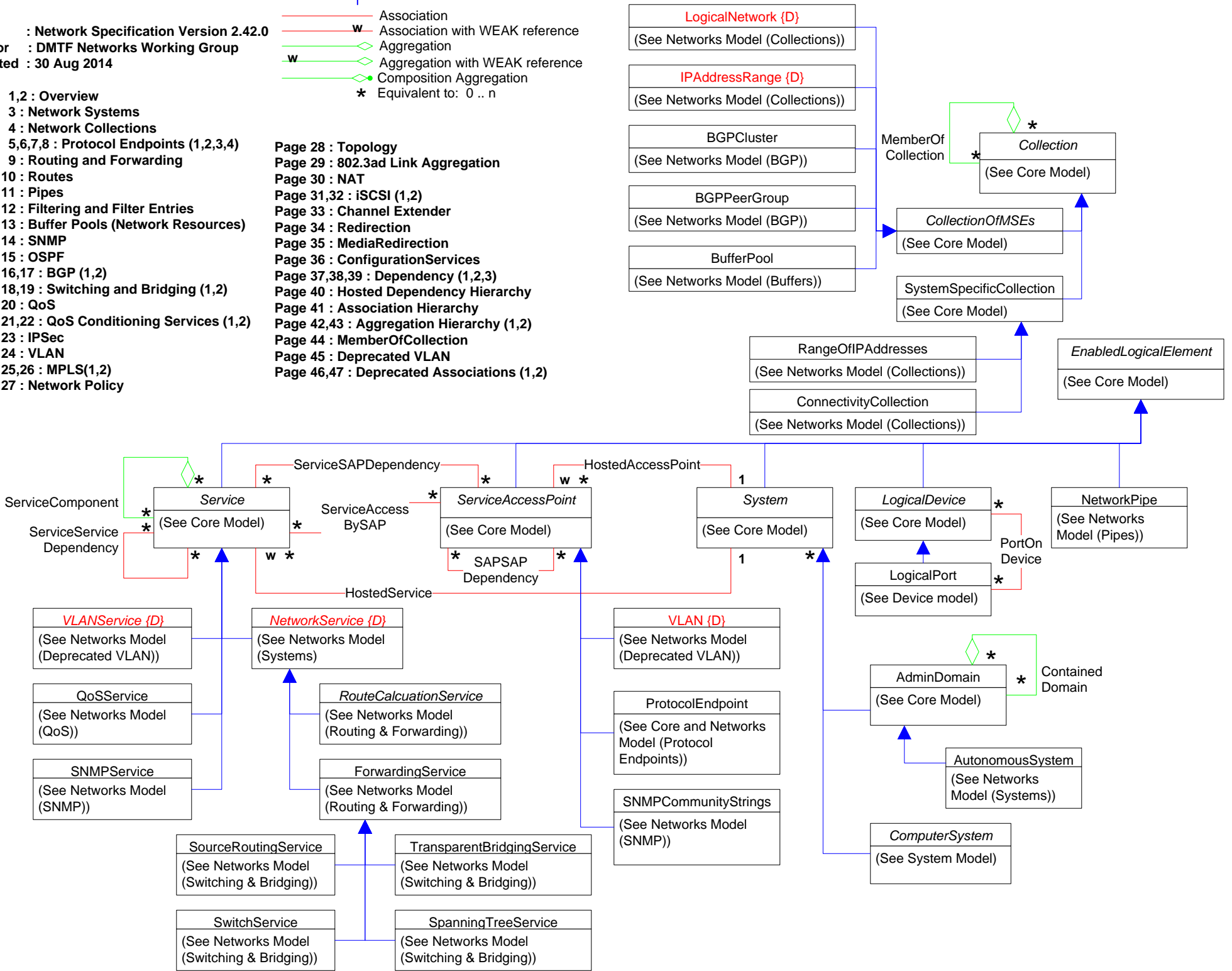


Title : Network Specification Version 2.42.0  
 Author : DMTF Networks Working Group  
 Updated : 30 Aug 2014

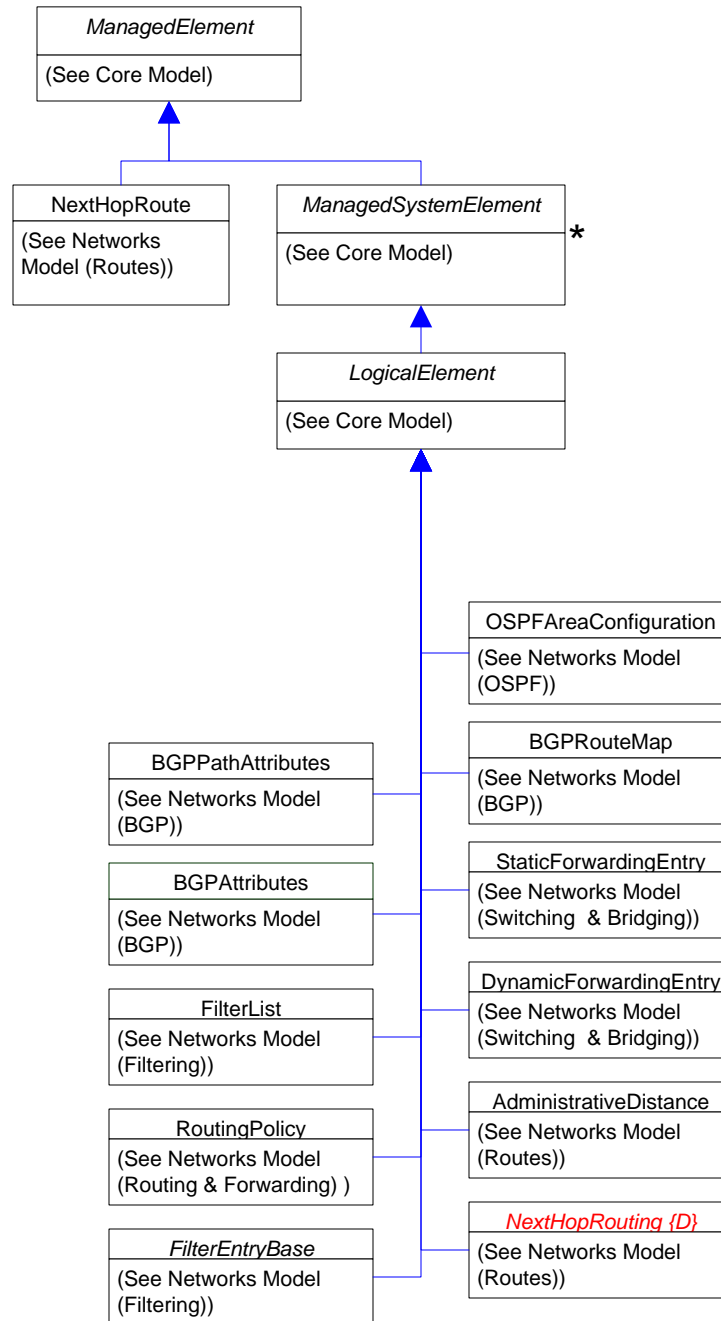
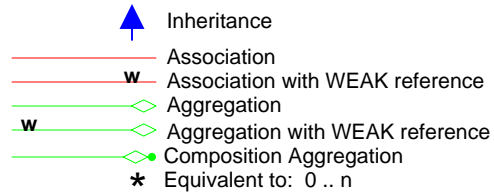
Page 1,2 : Overview  
 Page 3 : Network Systems  
 Page 4 : Network Collections  
 Page 5,6,7,8 : Protocol Endpoints (1,2,3,4)  
 Page 9 : Routing and Forwarding  
 Page 10 : Routes  
 Page 11 : Pipes  
 Page 12 : Filtering and Filter Entries  
 Page 13 : Buffer Pools (Network Resources)  
 Page 14 : SNMP  
 Page 15 : OSPF  
 Page 16,17 : BGP (1,2)  
 Page 18,19 : Switching and Bridging (1,2)  
 Page 20 : QoS  
 Page 21,22 : QoS Conditioning Services (1,2)  
 Page 23 : IPSec  
 Page 24 : VLAN  
 Page 25,26 : MPLS(1,2)  
 Page 27 : Network Policy

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








Page 28 : Topology  
 Page 29 : 802.3ad Link Aggregation  
 Page 30 : NAT  
 Page 31,32 : iSCSI (1,2)  
 Page 33 : Channel Extender  
 Page 34 : Redirection  
 Page 35 : MediaRedirection  
 Page 36 : ConfigurationServices  
 Page 37,38,39 : Dependency (1,2,3)  
 Page 40 : Hosted Dependency Hierarchy  
 Page 41 : Association Hierarchy  
 Page 42,43 : Aggregation Hierarchy (1,2)  
 Page 44 : MemberOfCollection  
 Page 45 : Deprecated VLAN  
 Page 46,47 : Deprecated Associations (1,2)

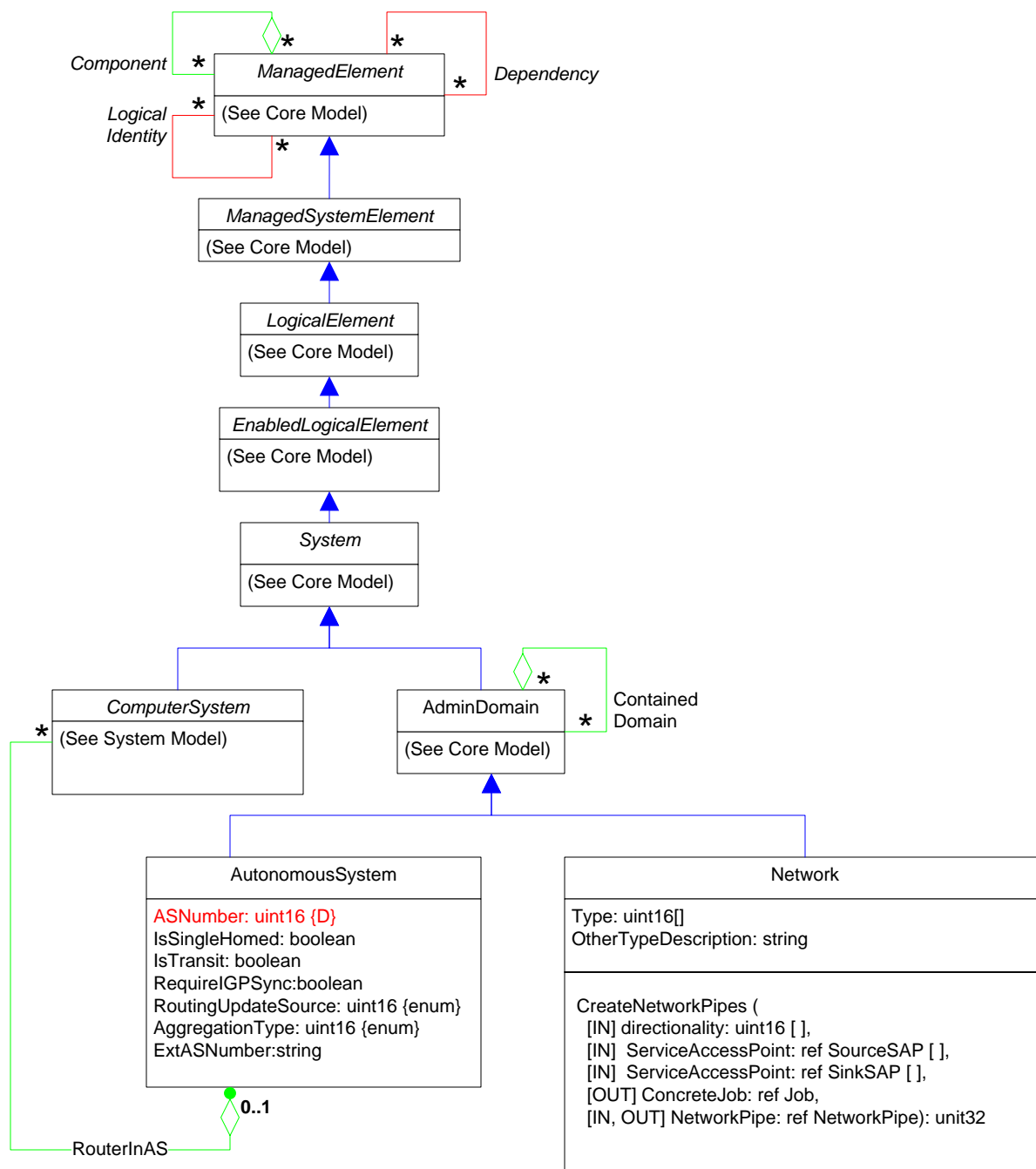









## Page 2 of 47: Overview 2

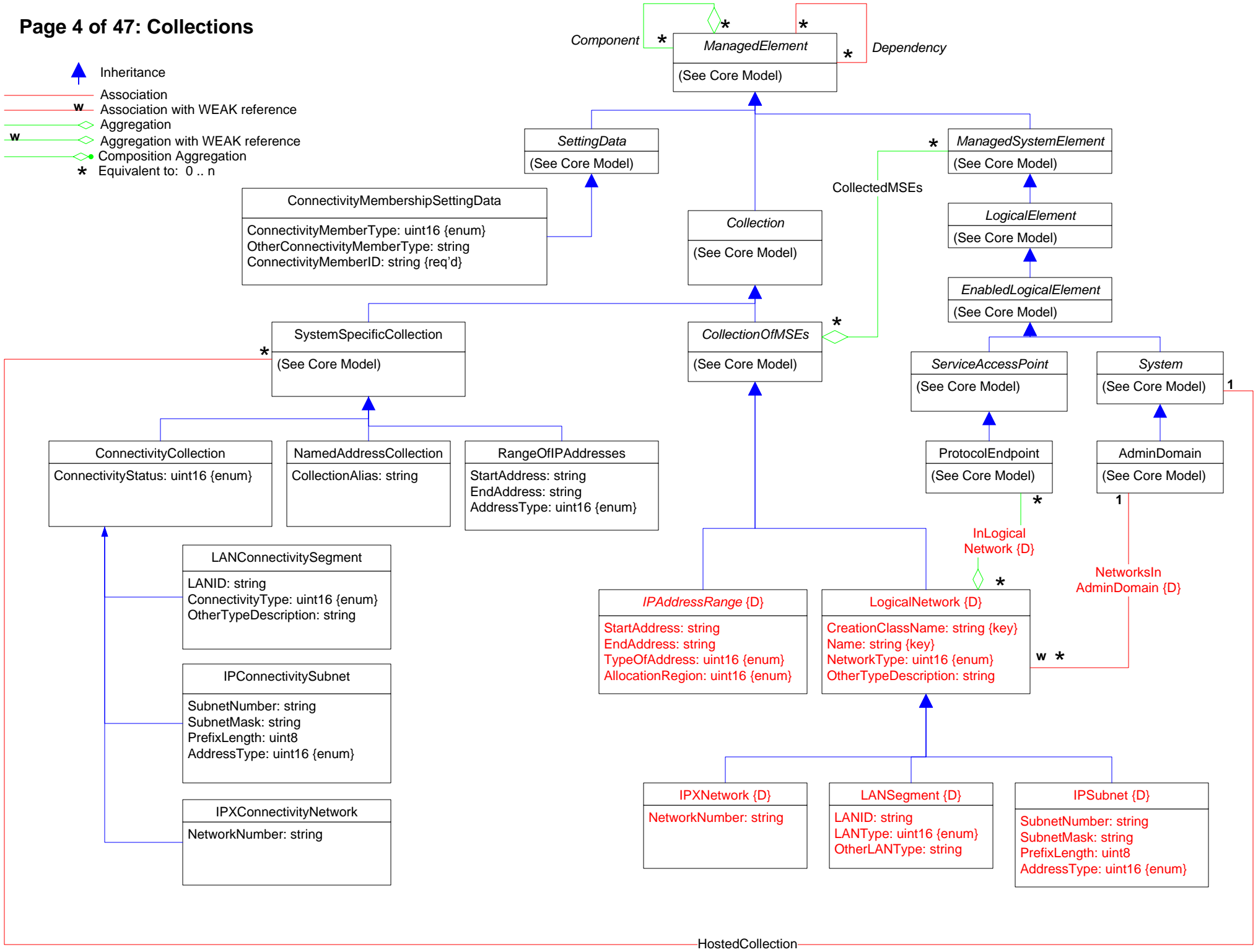


# Page 3 of 47: Systems

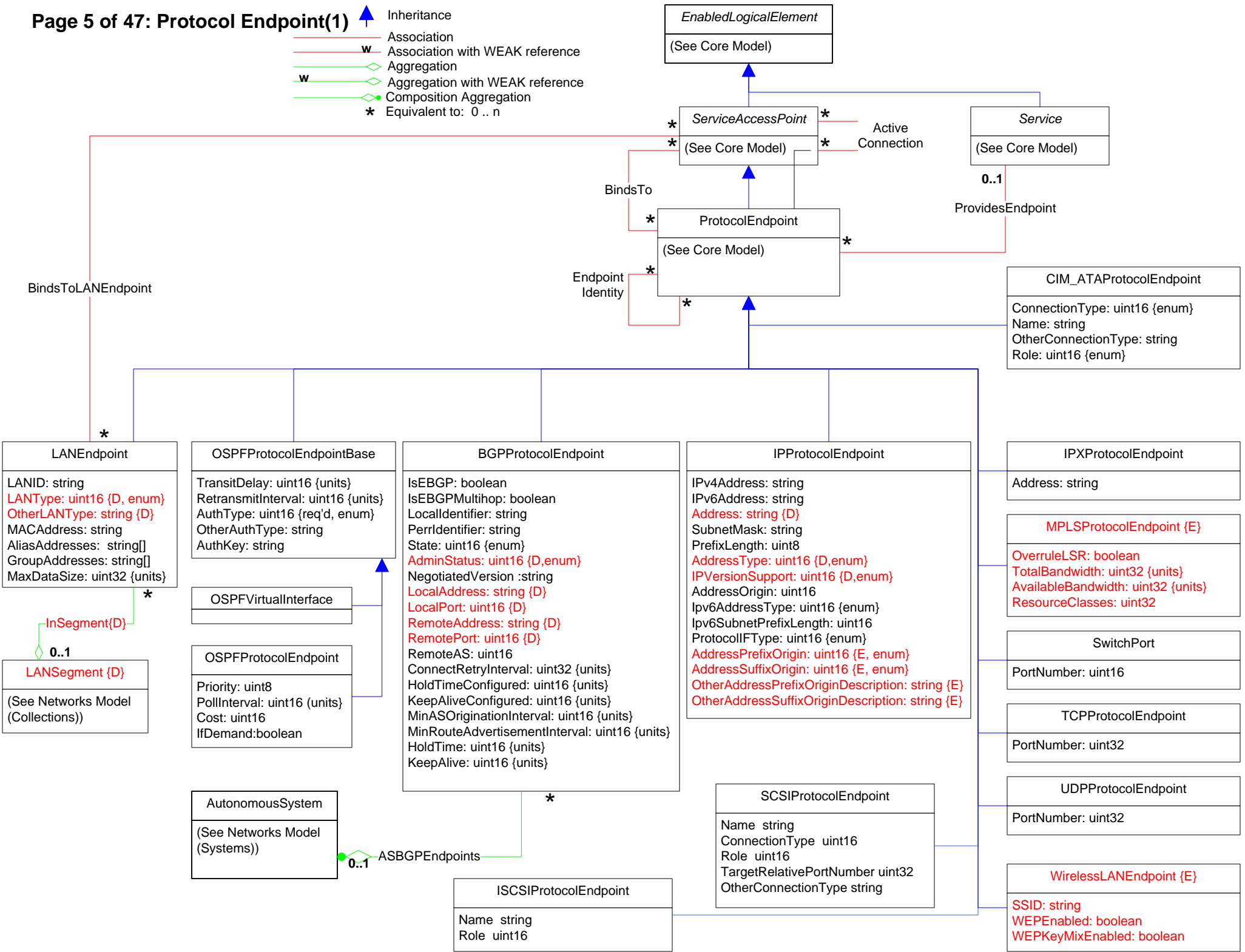
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n



-  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

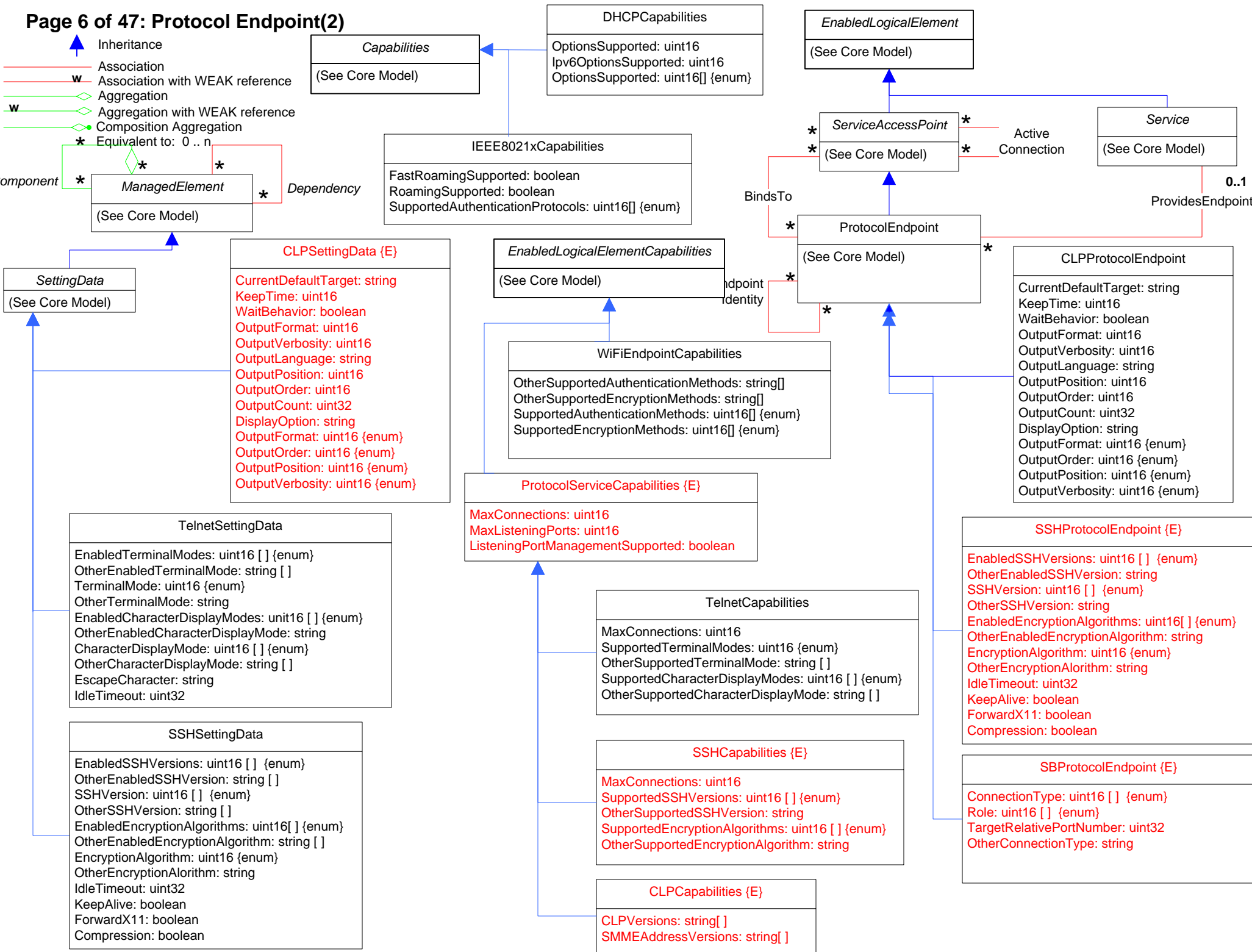


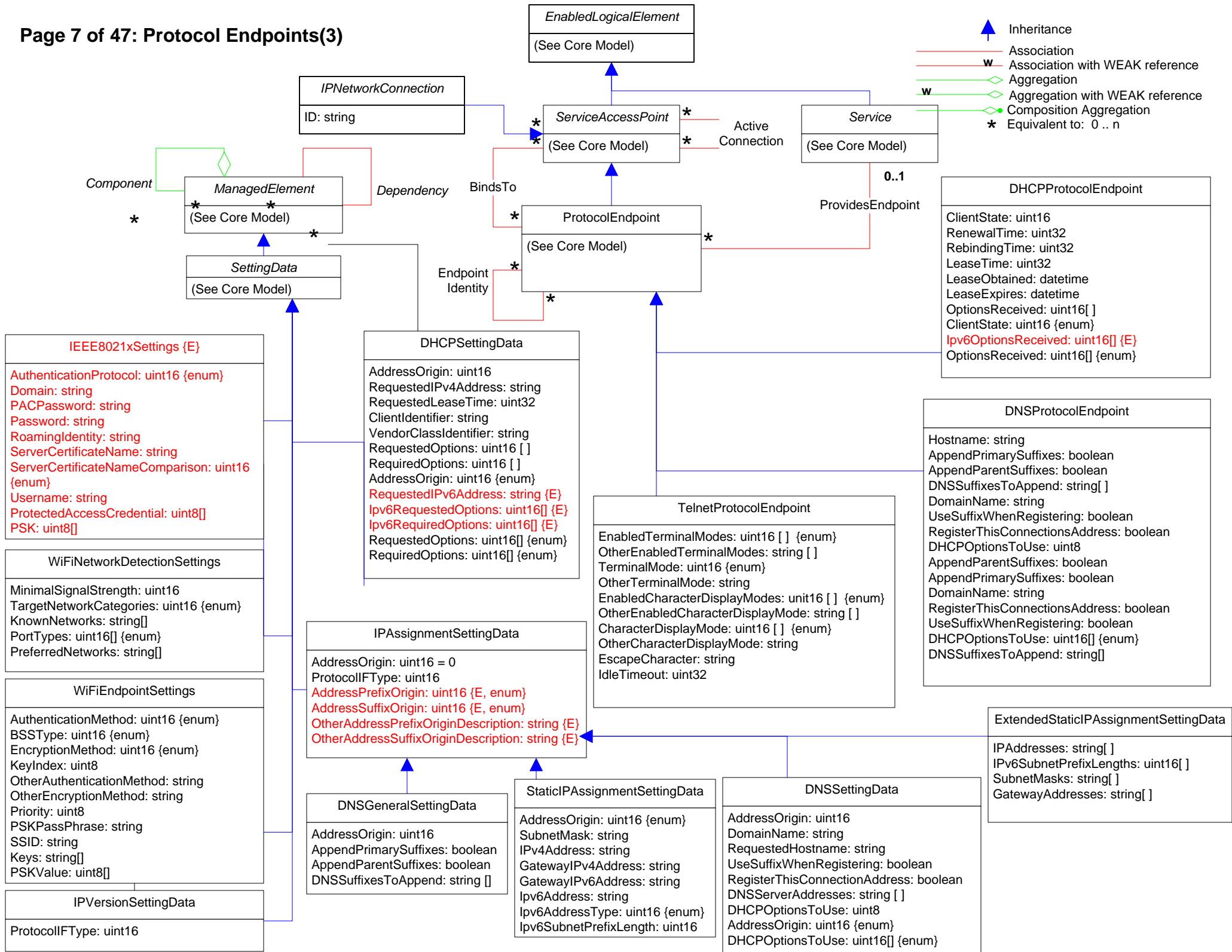
# Page 6 of 47: Protocol Endpoint(2)

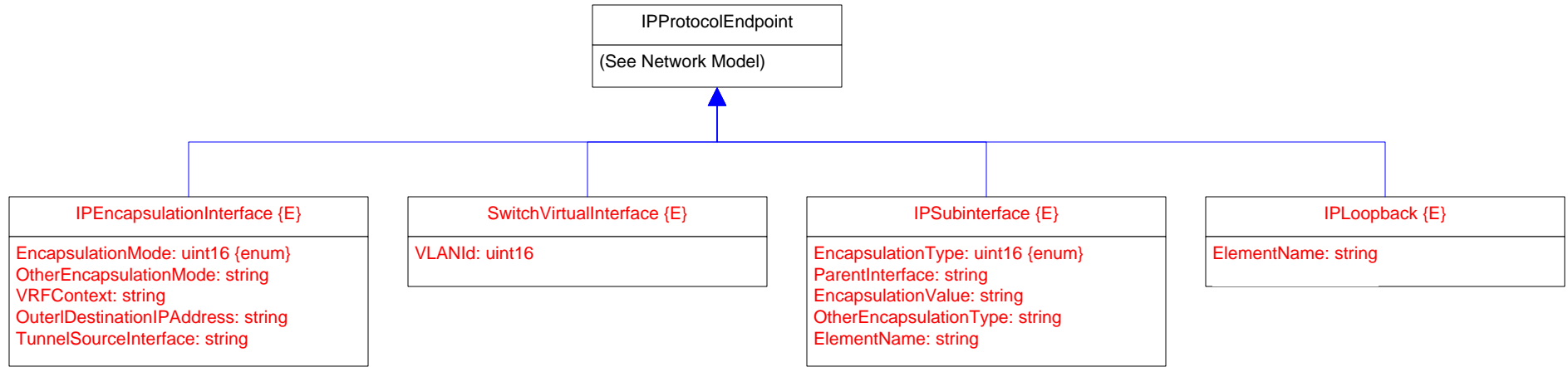
- ▲ Inheritance
- Association
- w Association with WEAK reference
- ◇ Aggregation
- ◇w Aggregation with WEAK reference
- ◇\* Composition Aggregation
- \* Equivalent to: 0 .. n

Component

Dependency



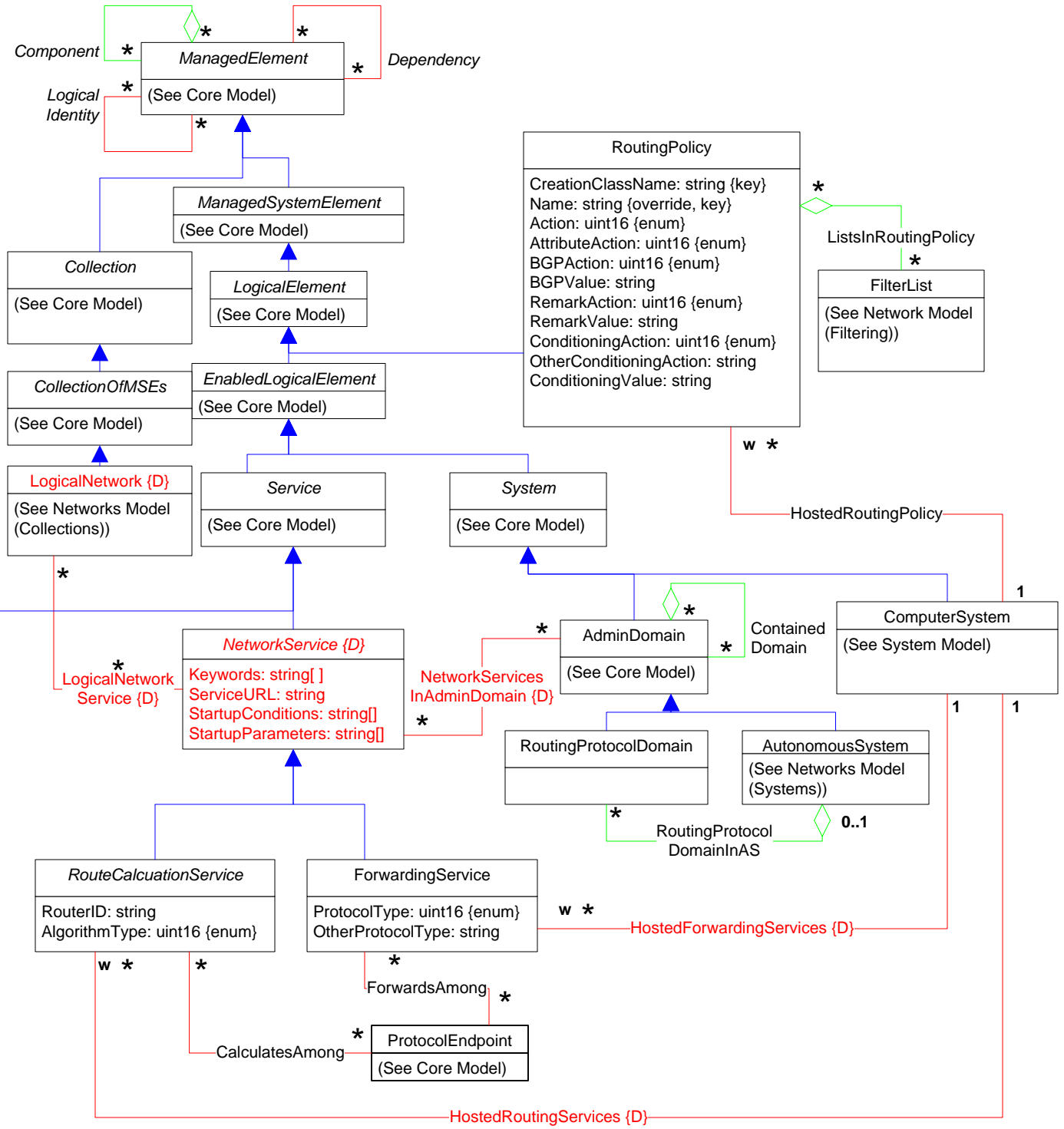






# Page 9 of 47: Routing & Forwarding

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



**VRFConfigurationService {E}**

CreateVRF ( [IN] System: ref TargetRouter, [IN] VRF: string, [IN] VirtualRoutingandForwardingTable: ref ResultingVRF, [OUT] ConcreteJob: ref Job): unit32 {enum}

RemoveVRF ( [IN] VirtualRoutingandForwardingTable: ref VRF, [OUT] ConcreteJob: ref Job): unit32 {enum}

AddRoute( [IN] VirtualRoutingandForwardingTable: ref VRF, [IN] Route: string, [IN] NextHopIPRoute: ref ResultingRoute, [OUT] ConcreteJob: ref Job): unit32 {enum}

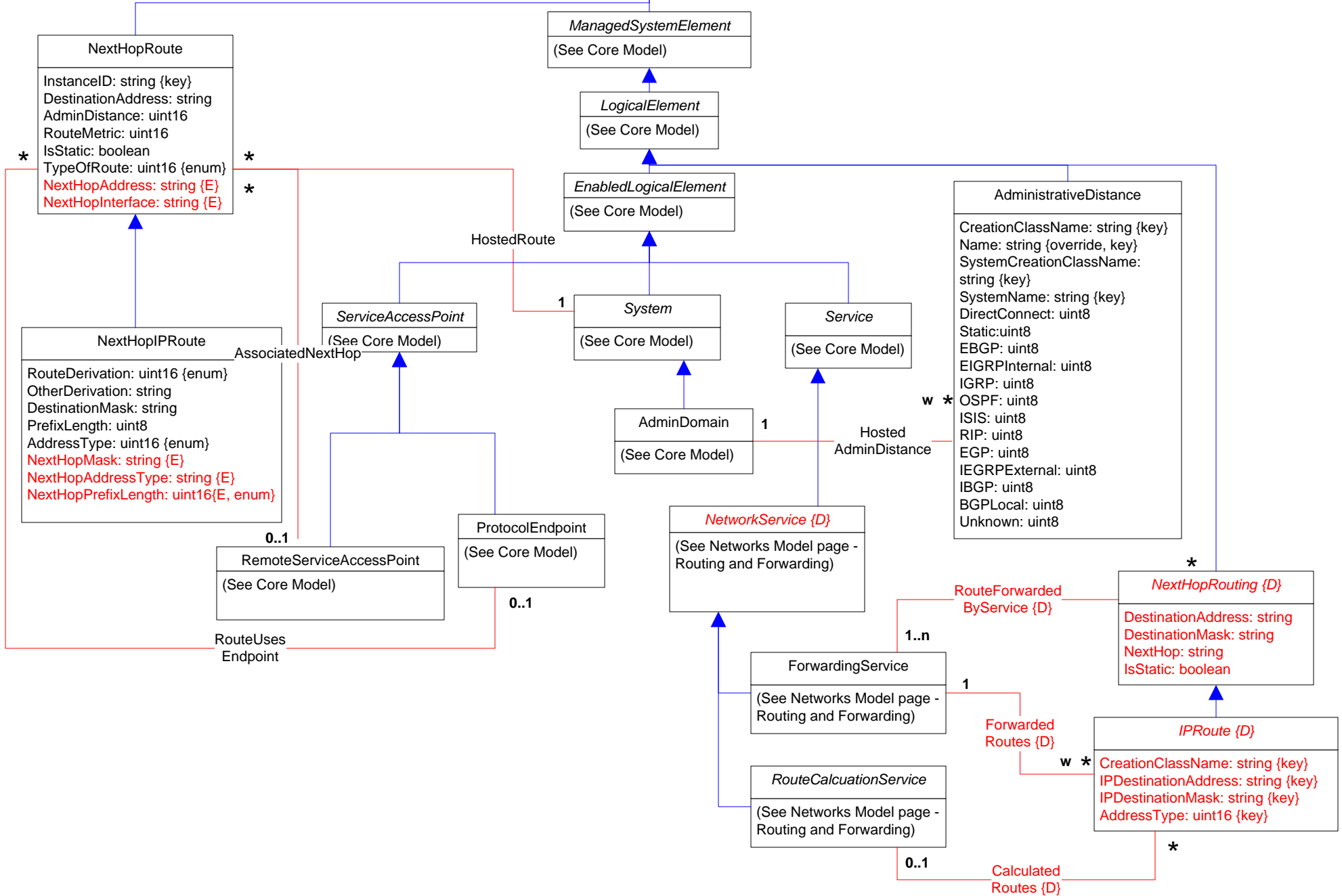
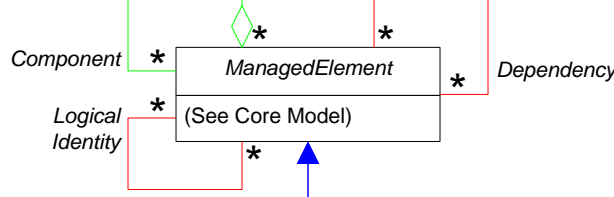
RemoveRoute( [IN] VirtualRoutingandForwardingTable: ref VRF, [IN] NextHopIPRoute: ref Route, [OUT] ConcreteJob: ref Job): unit32 {enum}








AddPortMember( [IN] VirtualRoutingandForwardingTable: ref VRF, [IN] MSFT\_EthernetPort: ref Port, [OUT] ConcreteJob: ref Job): unit32 {enum}

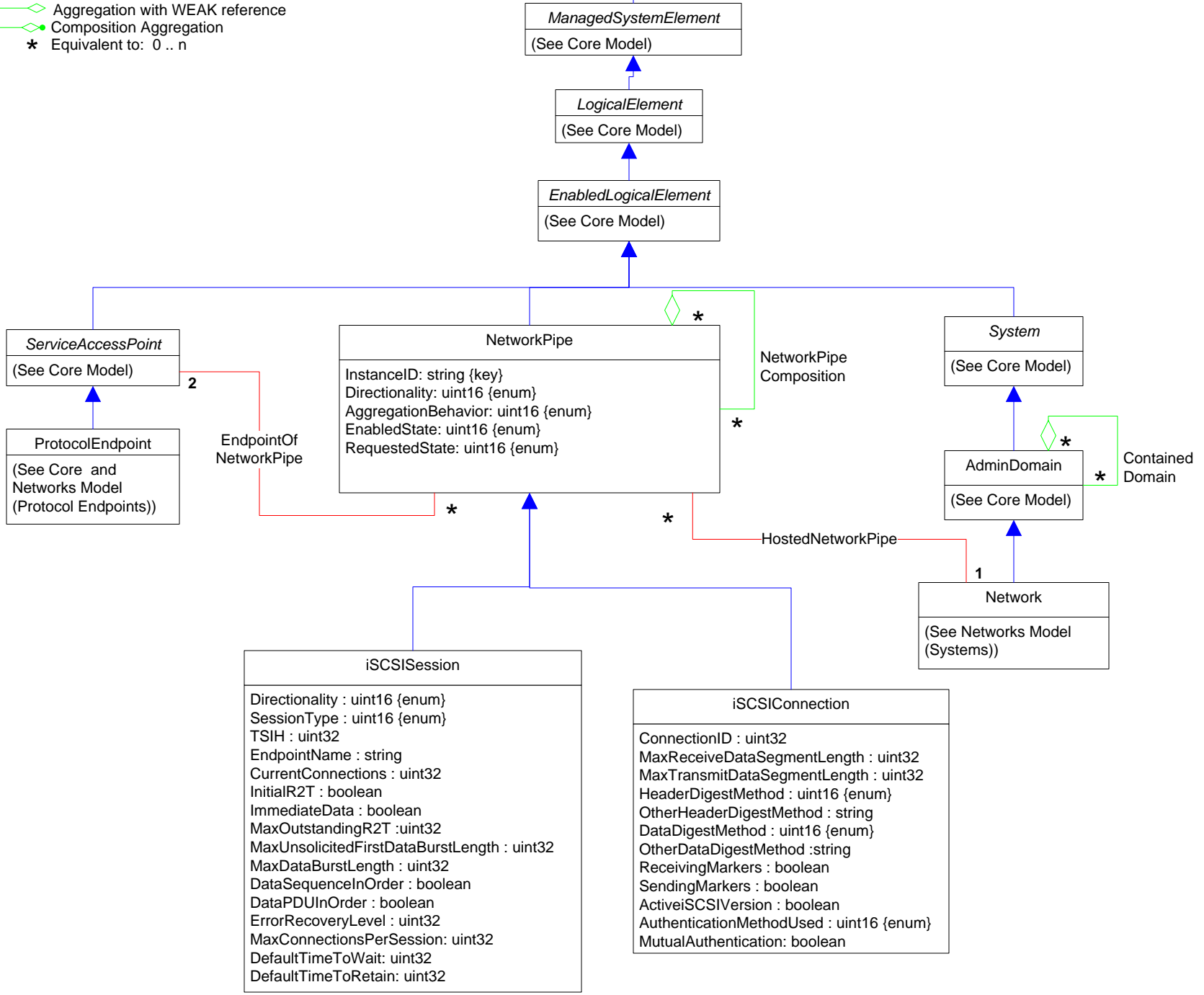
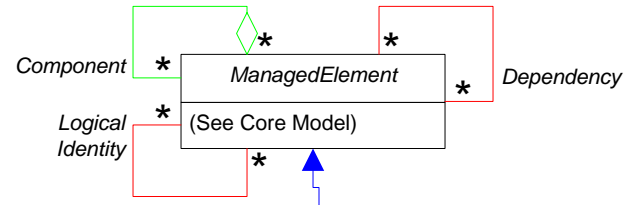
RemovePortMember( [IN] VirtualRoutingandForwardingTable: ref VRF, [IN] MSFT\_EthernetPort: ref Port, [OUT] ConcreteJob: ref Job): unit32 {enum}








AddSAPMember( [IN] VirtualRoutingandForwardingTable: ref VRF, [IN] ServiceAccessPoint: ref SAP, [OUT] ConcreteJob: ref Job): unit32 {enum}

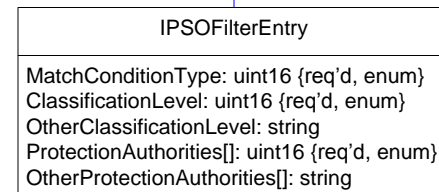
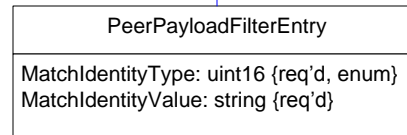
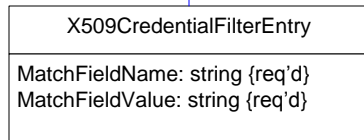
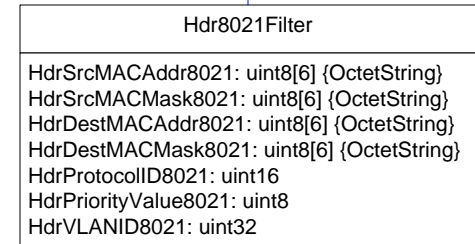
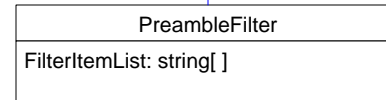
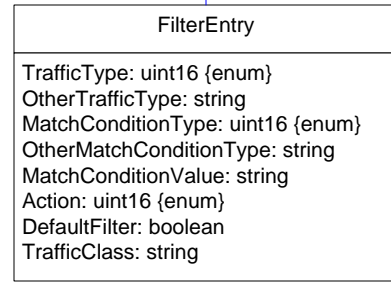
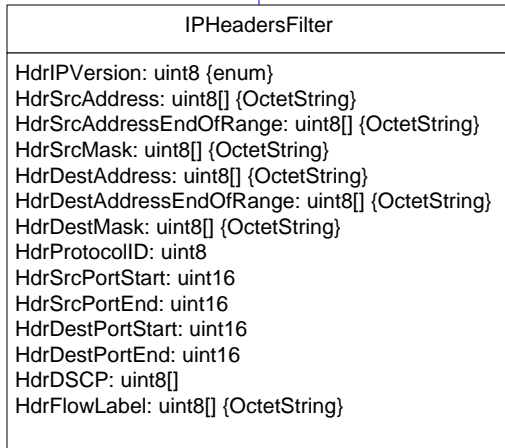
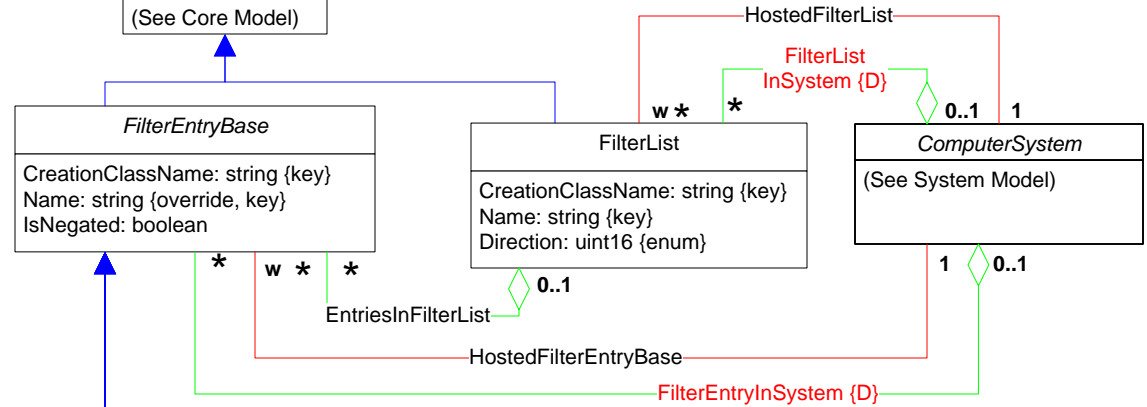
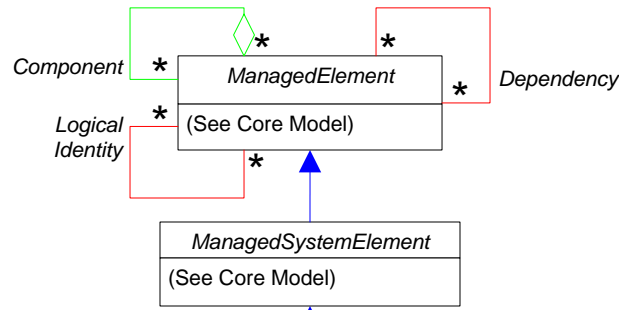
RemoveSAPMember( [IN] VirtualRoutingandForwardingTable: ref VRF, [IN] ServiceAccessPoint: ref SAPMember, [OUT] ConcreteJob: ref Job): unit32 {enum}










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

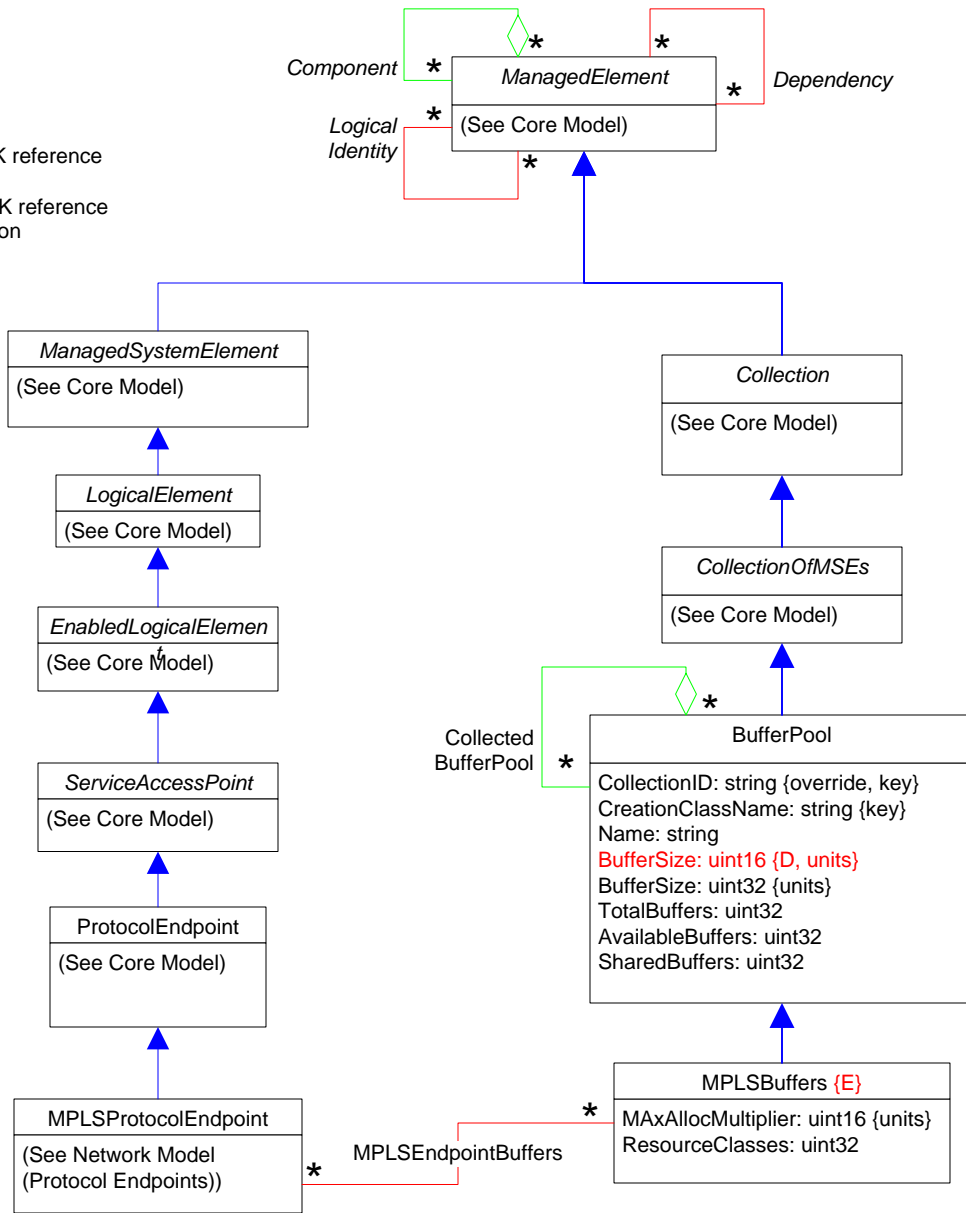


-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n










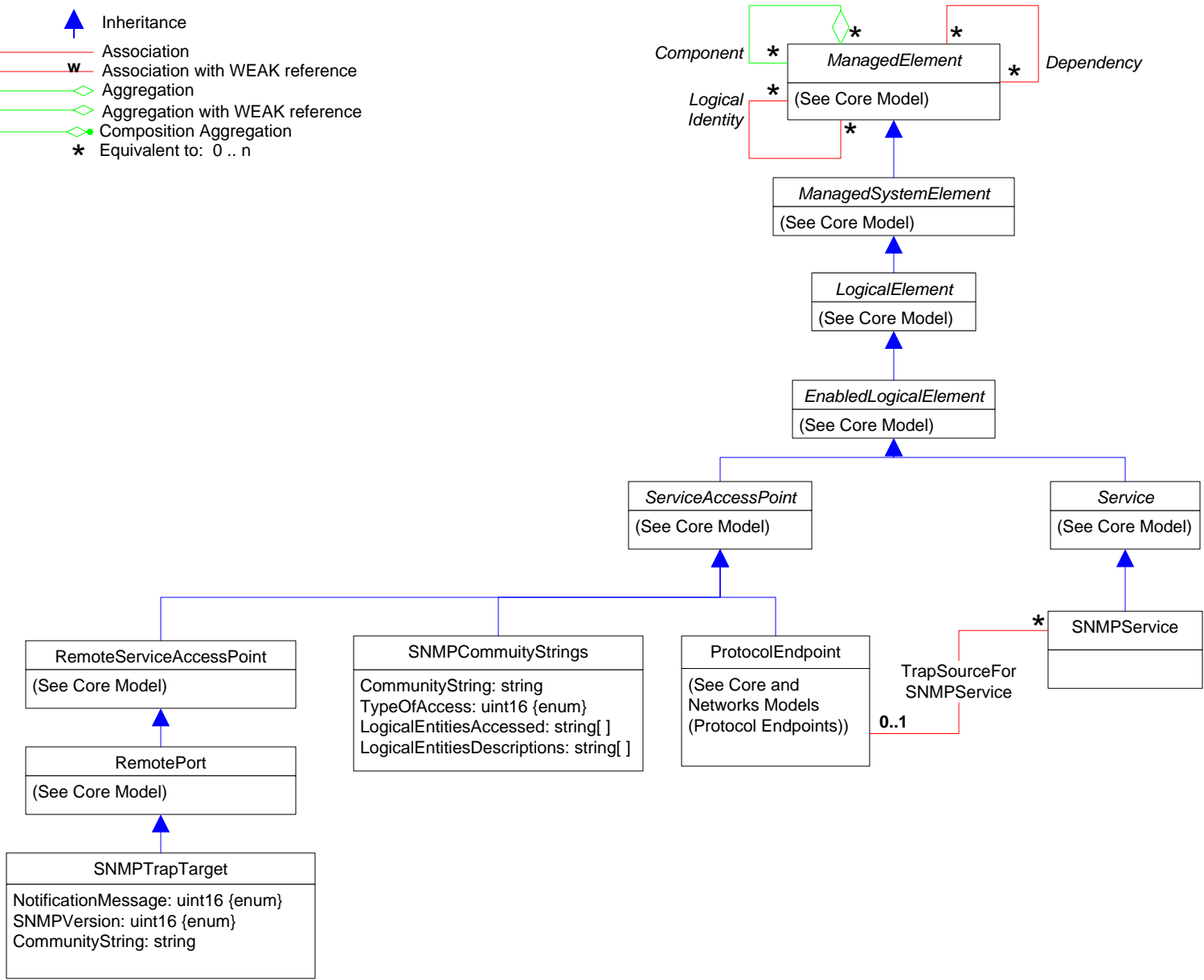
# Page 13 of 47: Buffers

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










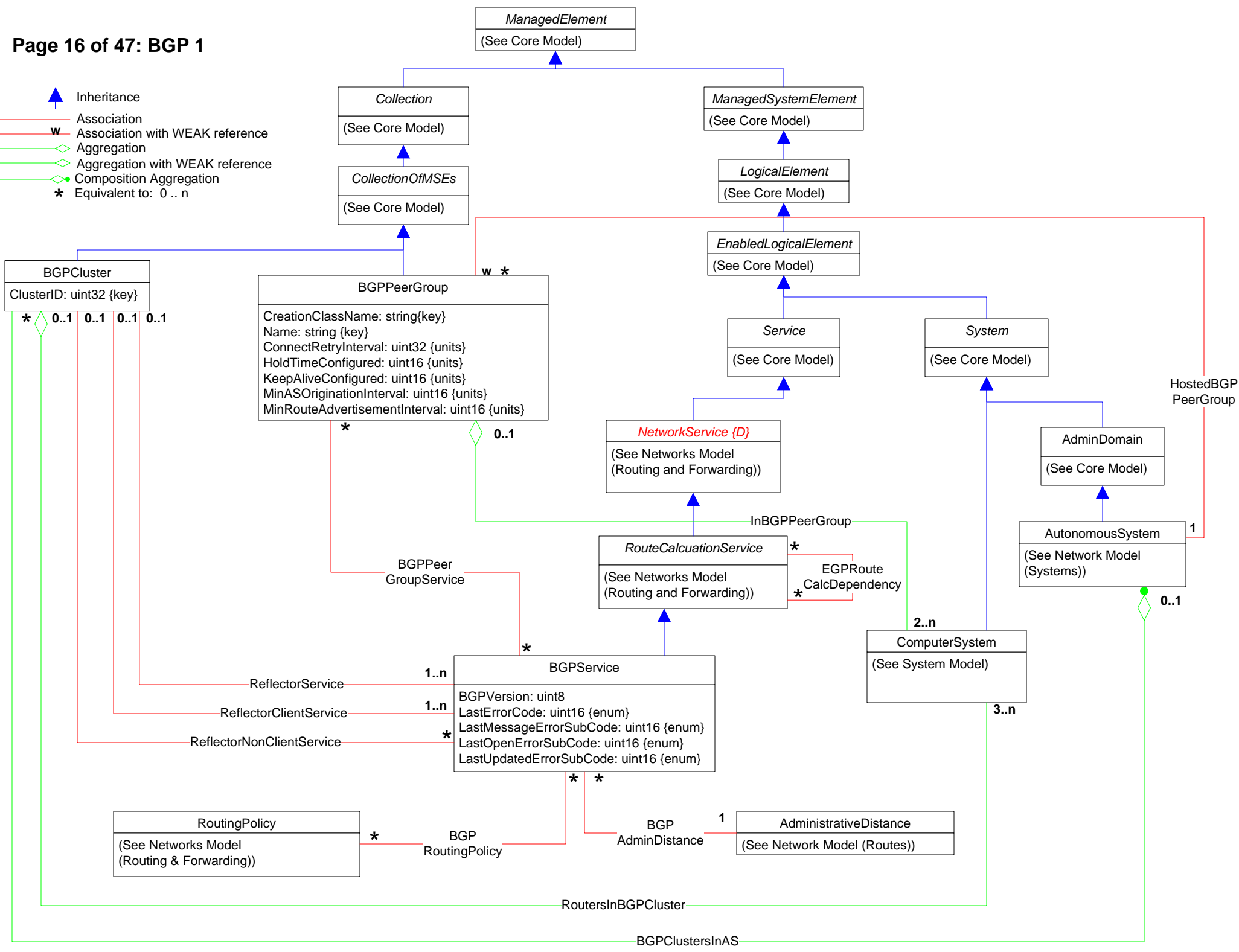
# Page 14 of 47: SNMP

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

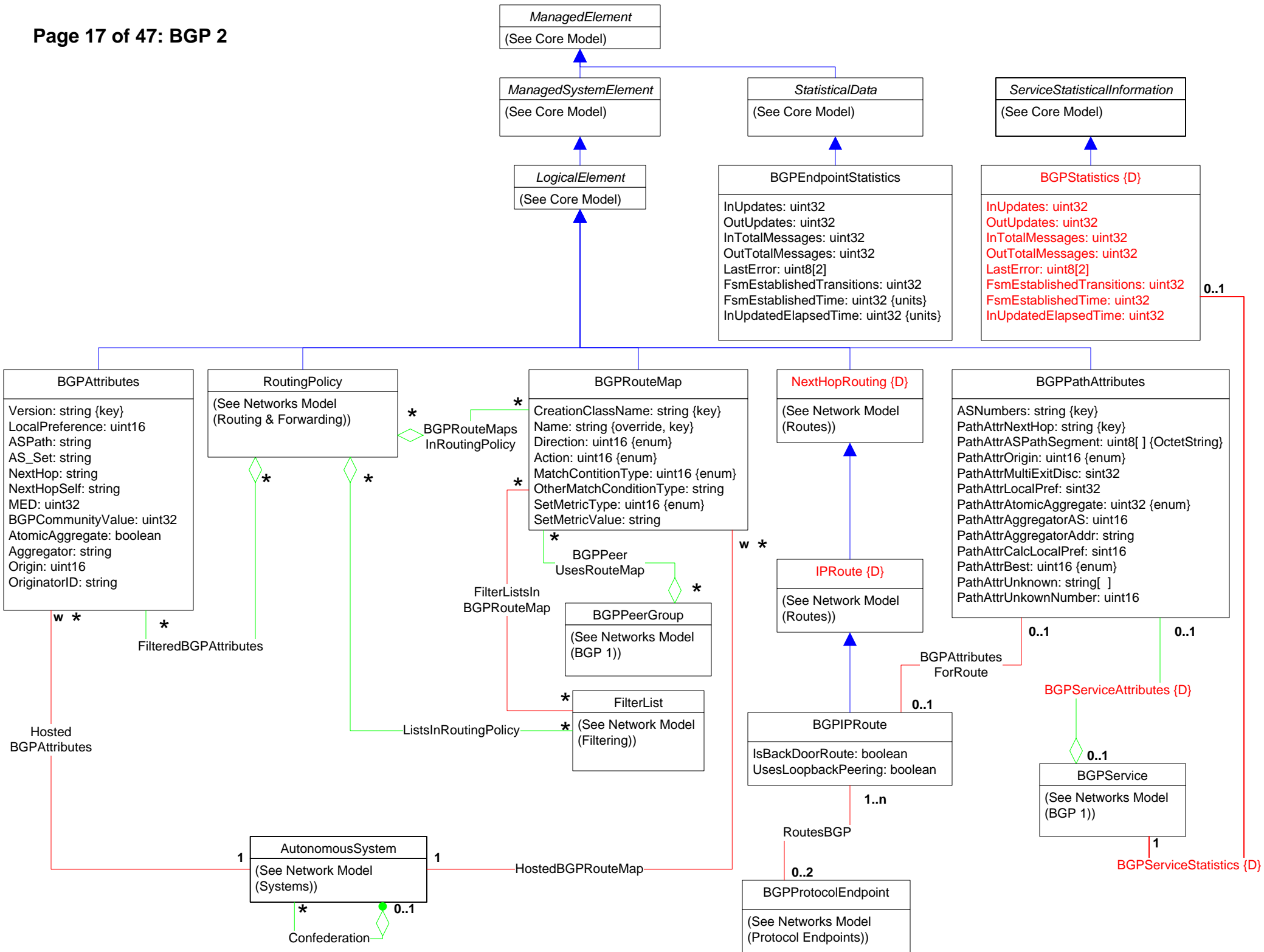




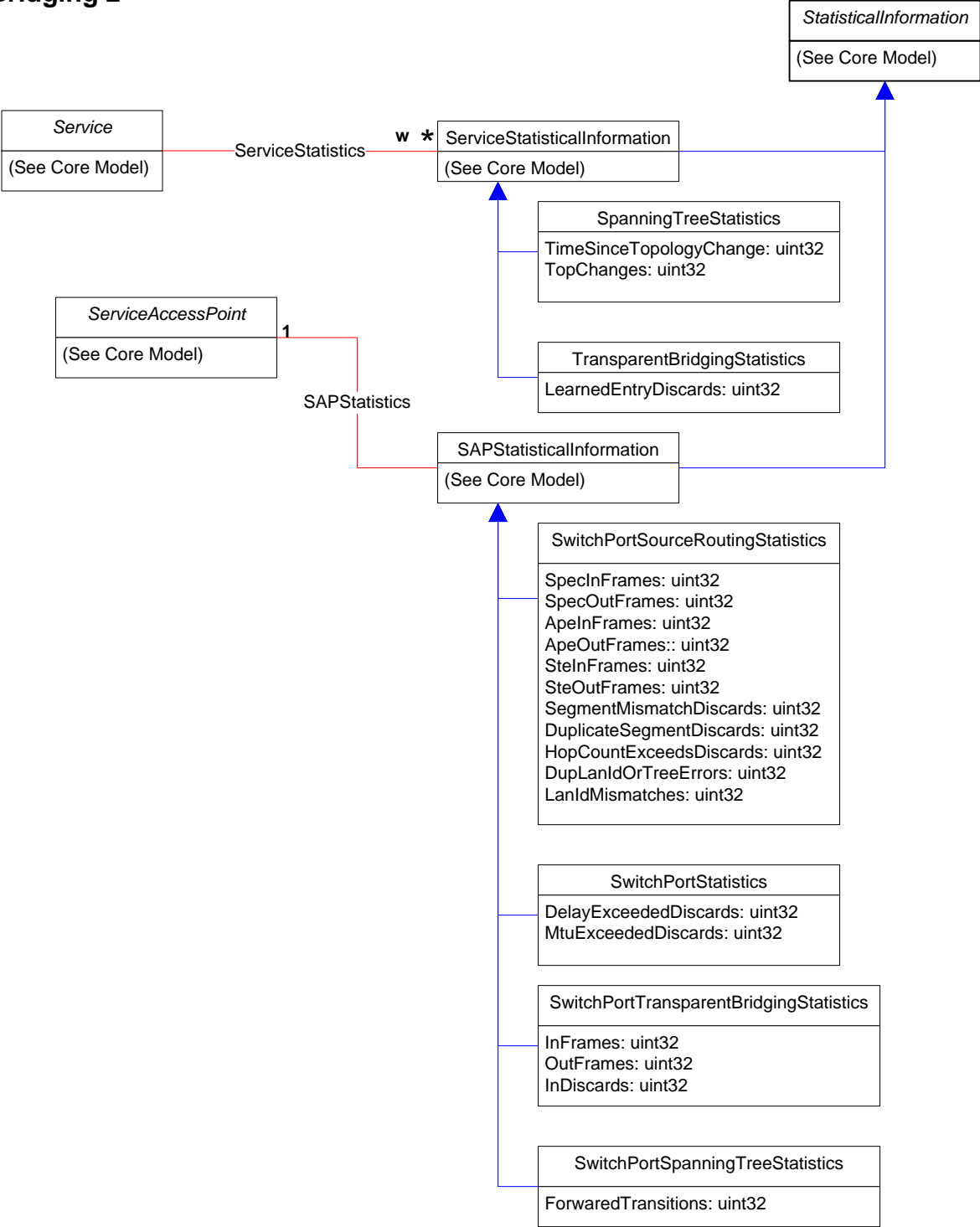
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n










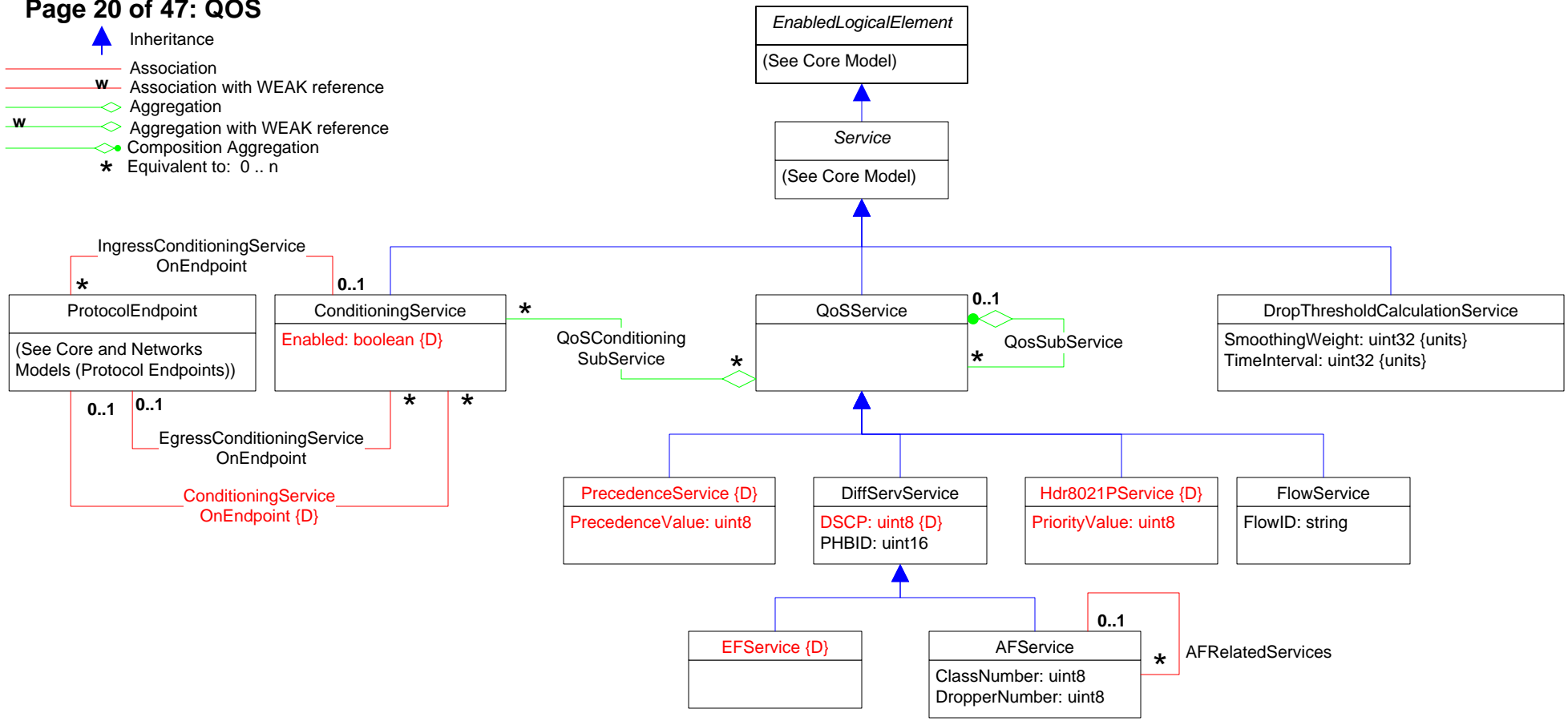


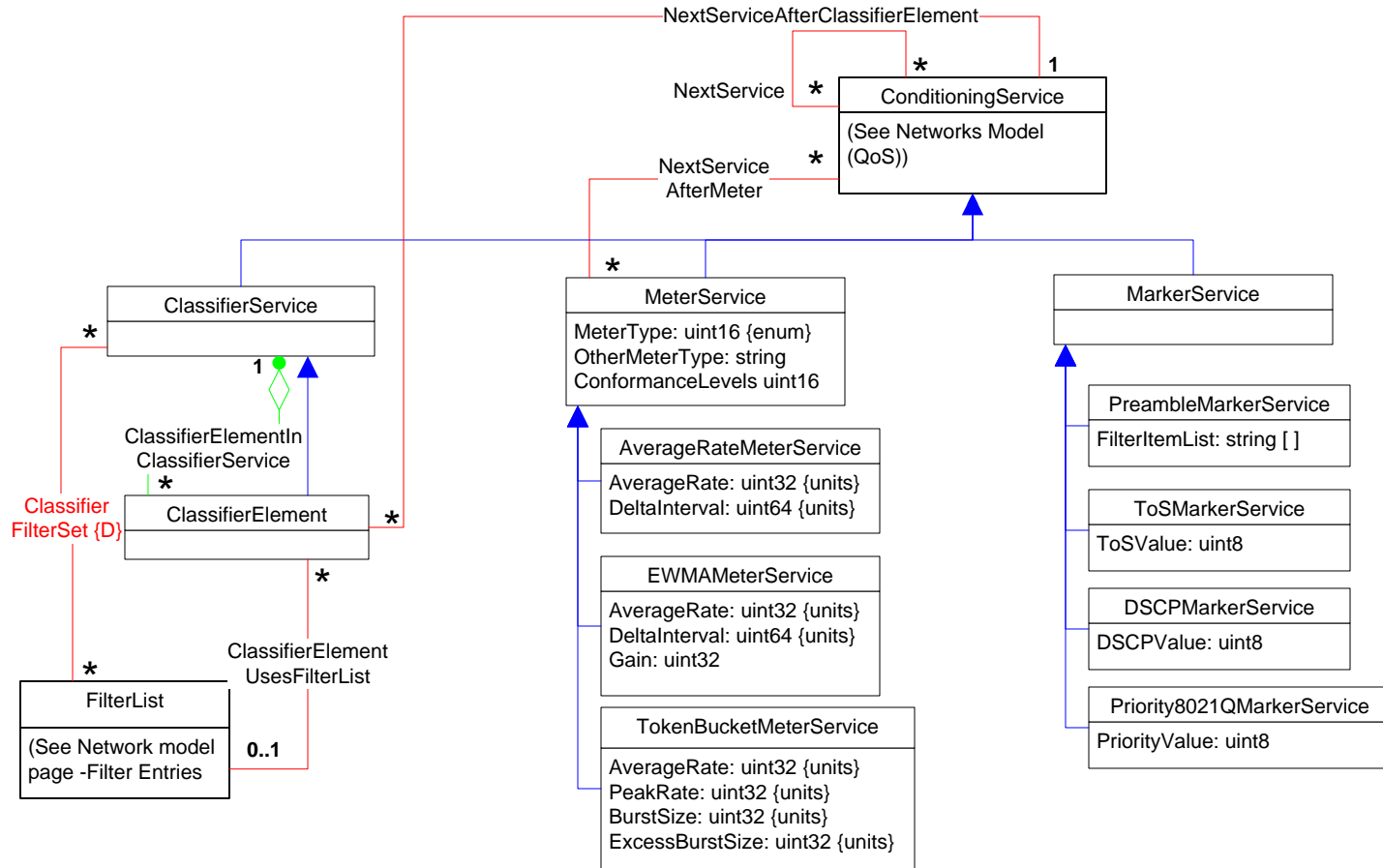
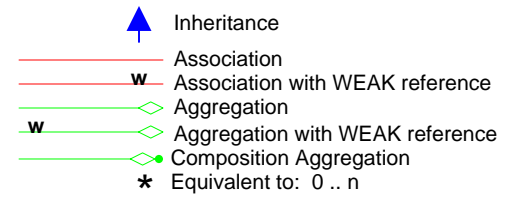


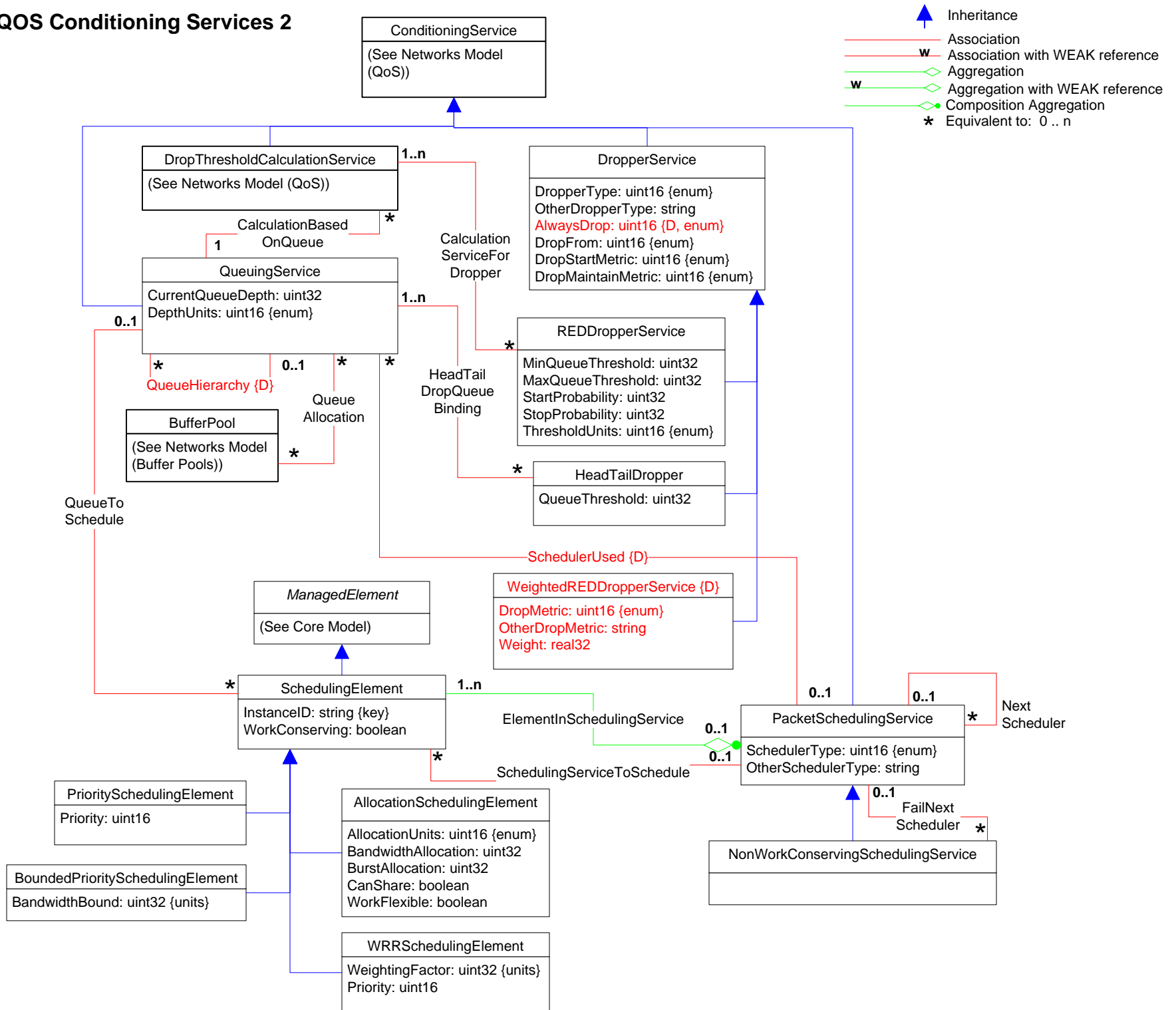


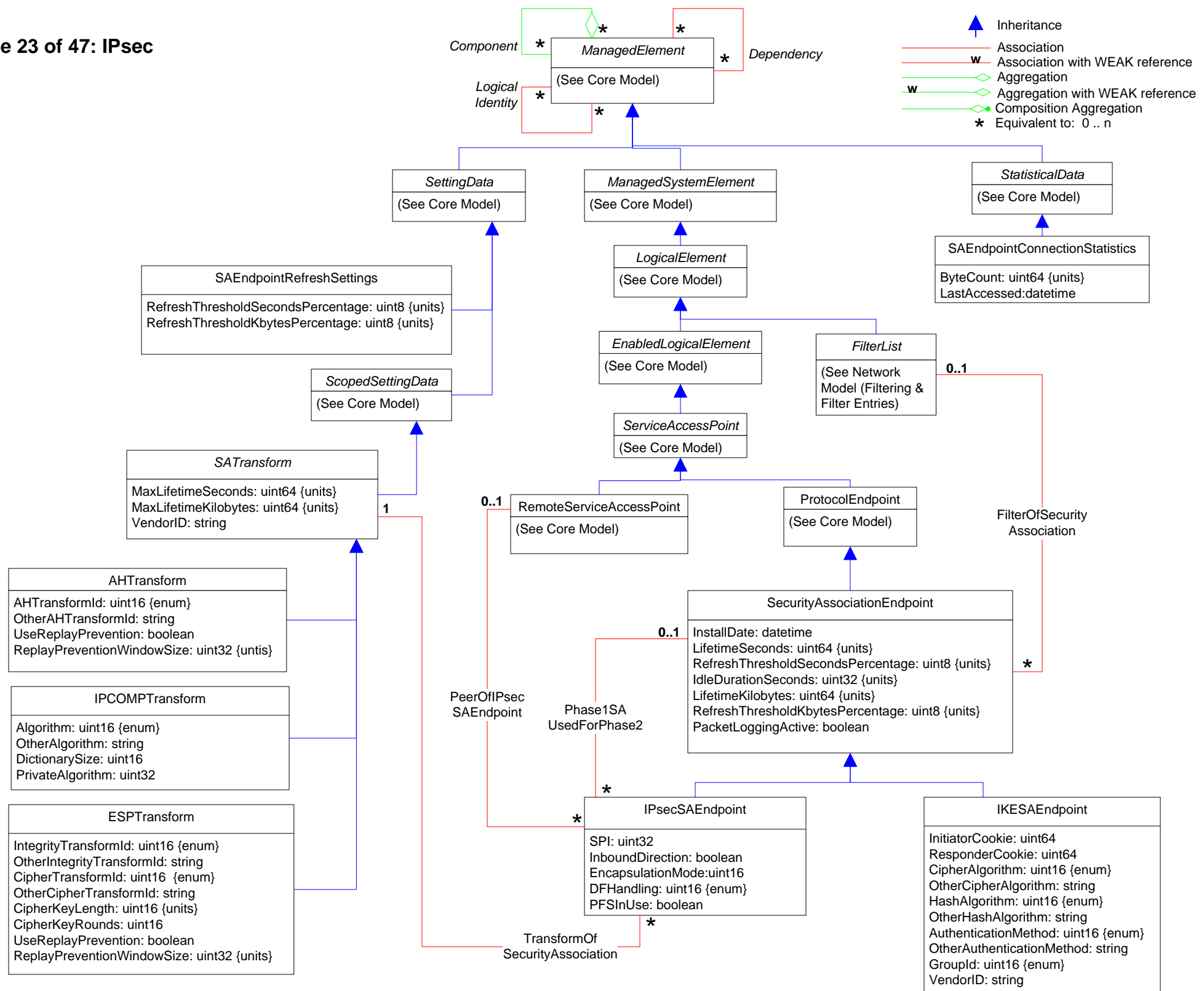


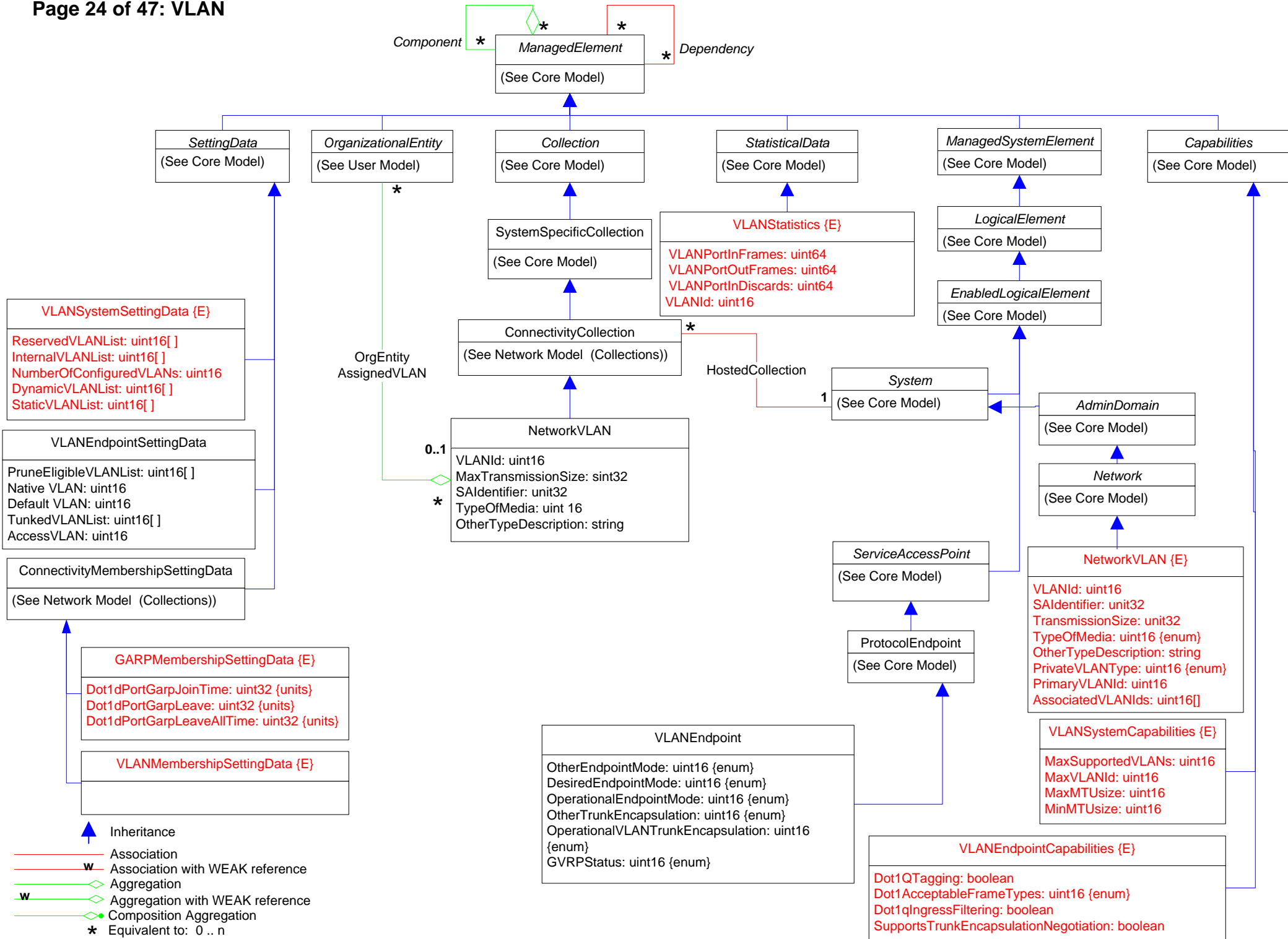
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0..n





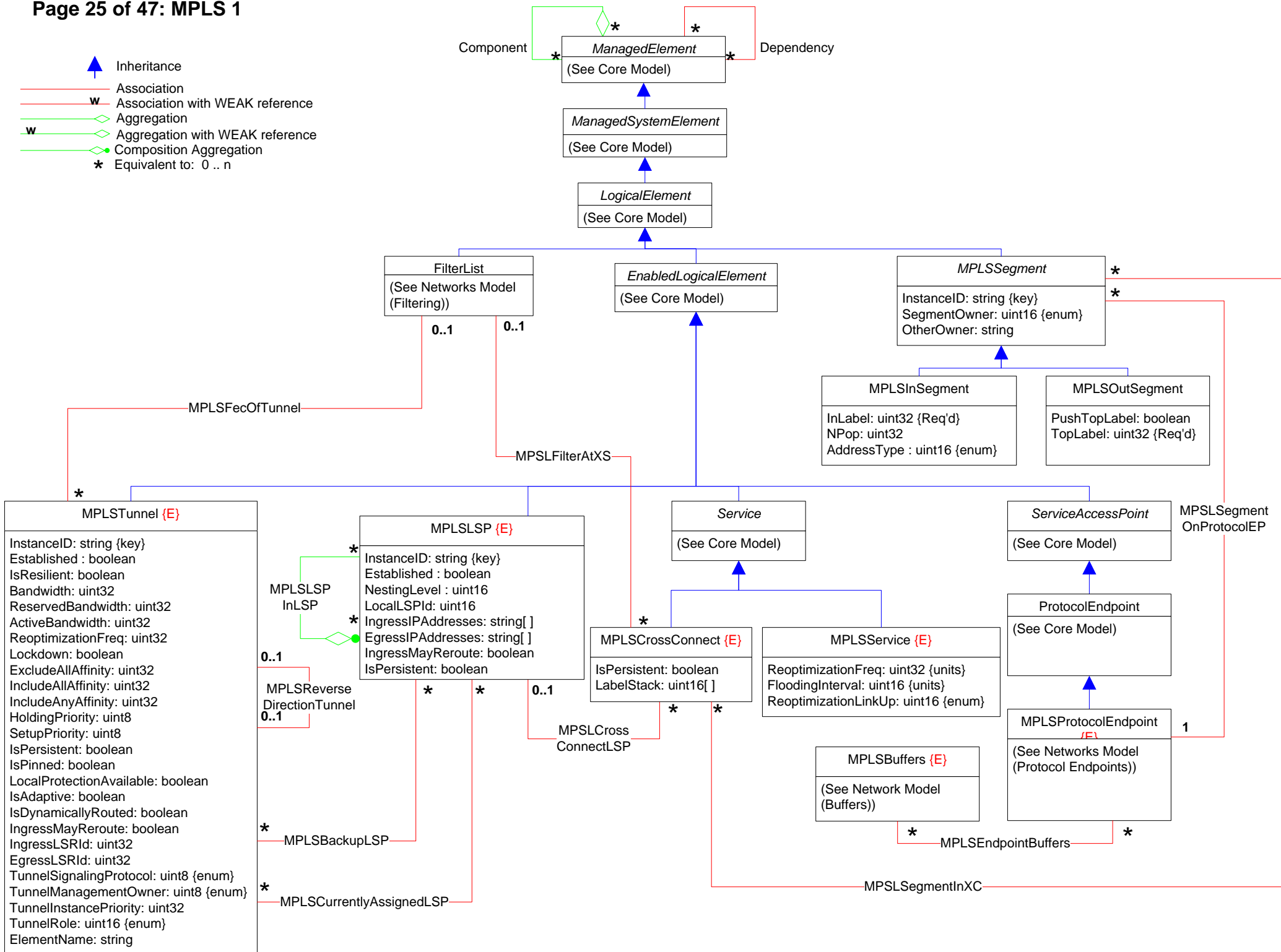


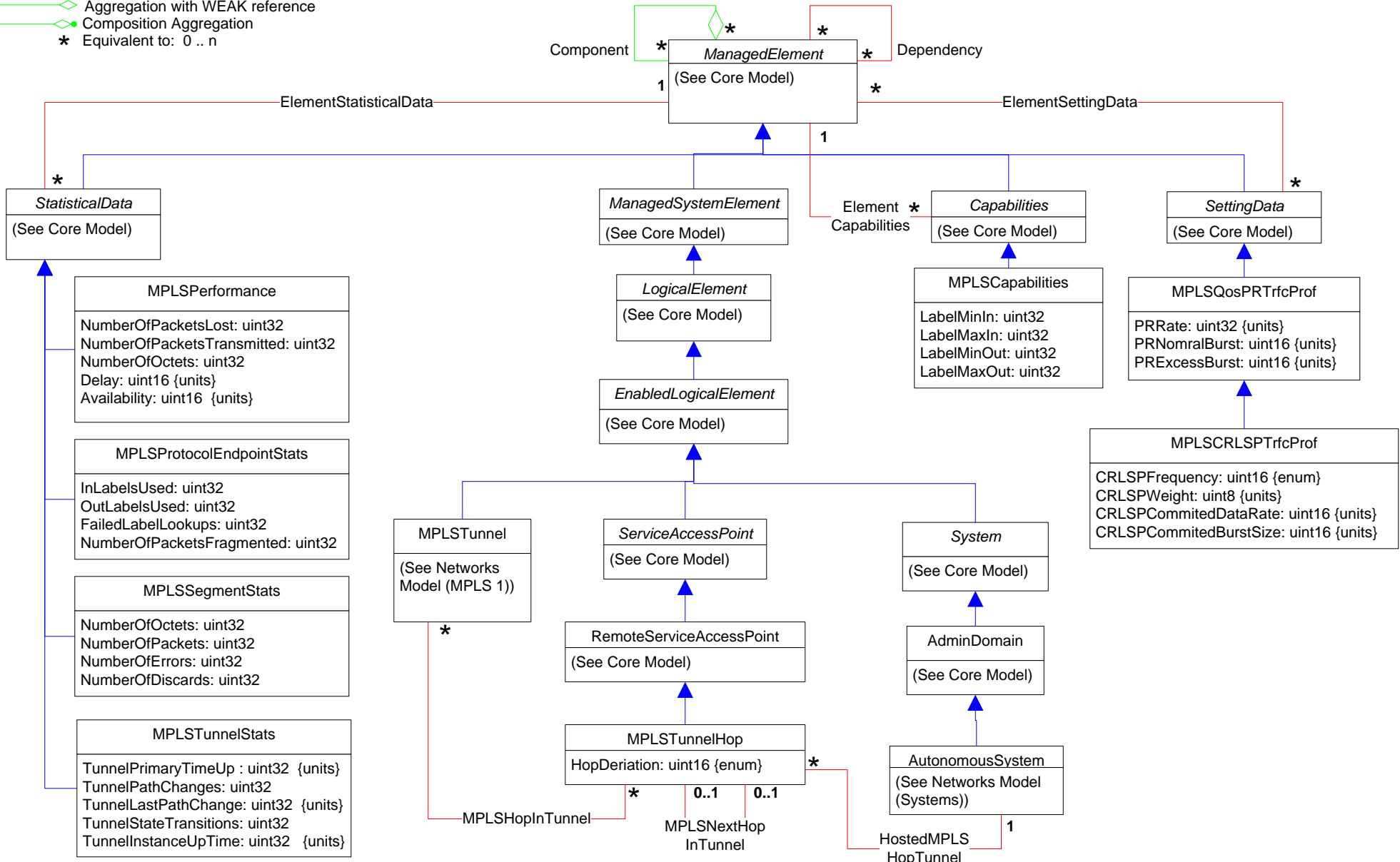
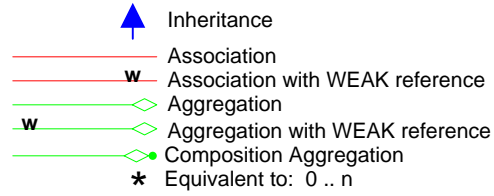


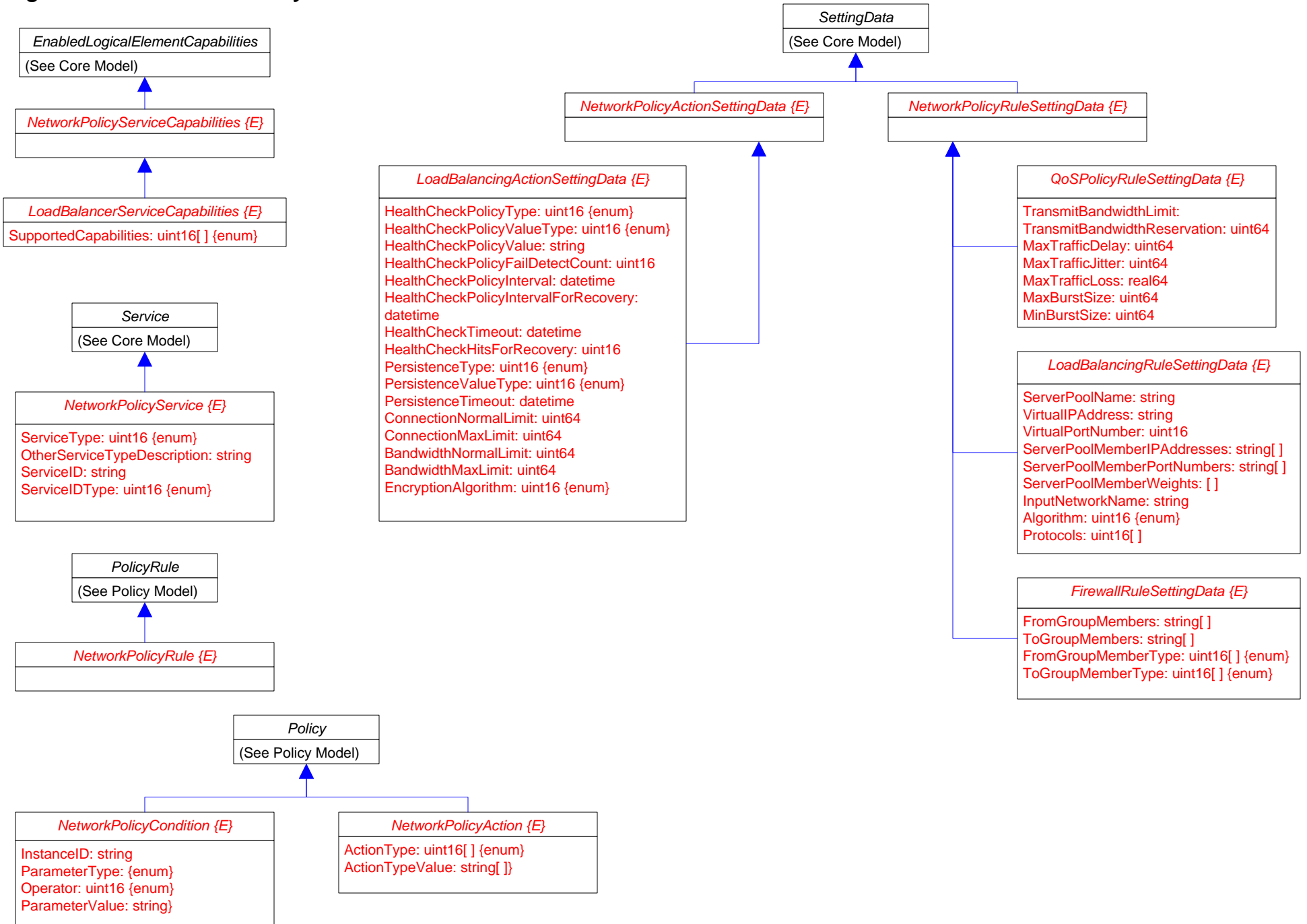




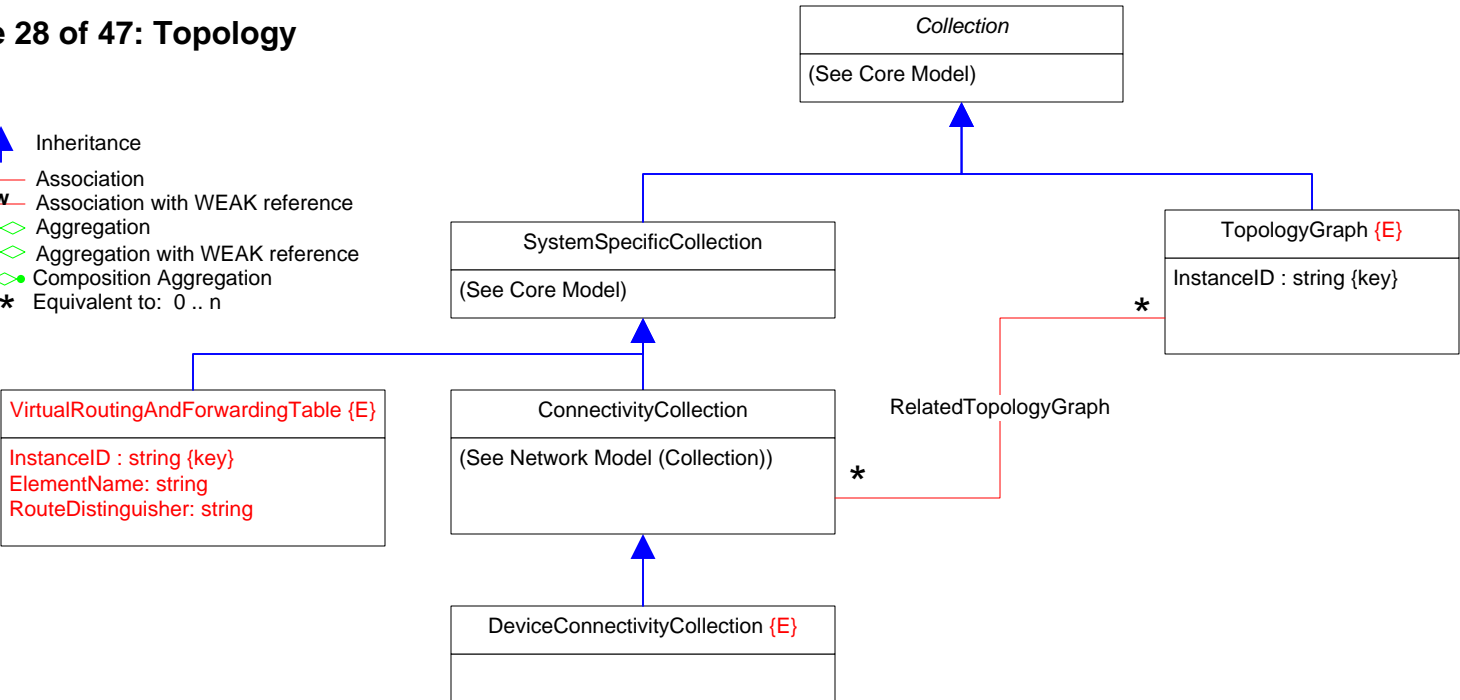
- Inheritance
- Association
- Association with WEAK reference
- Aggregation
- Aggregation with WEAK reference
- Composition Aggregation
- Equivalent to: 0 .. n

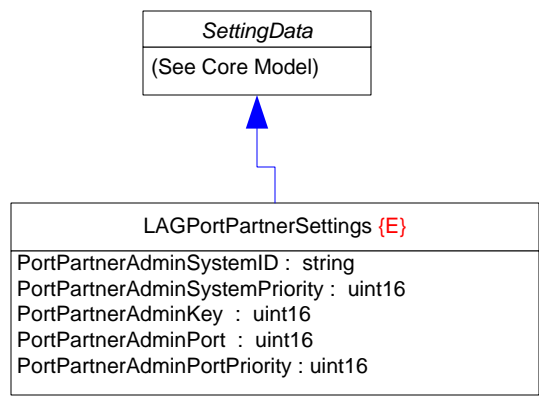
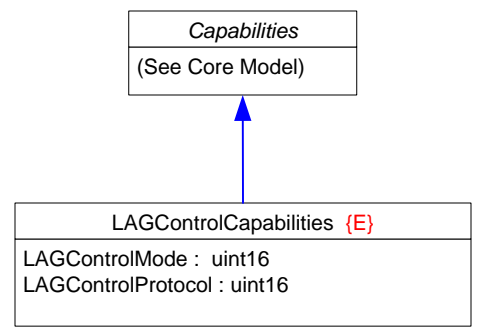
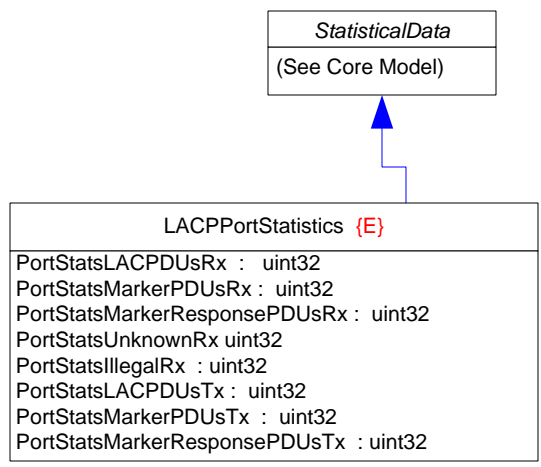
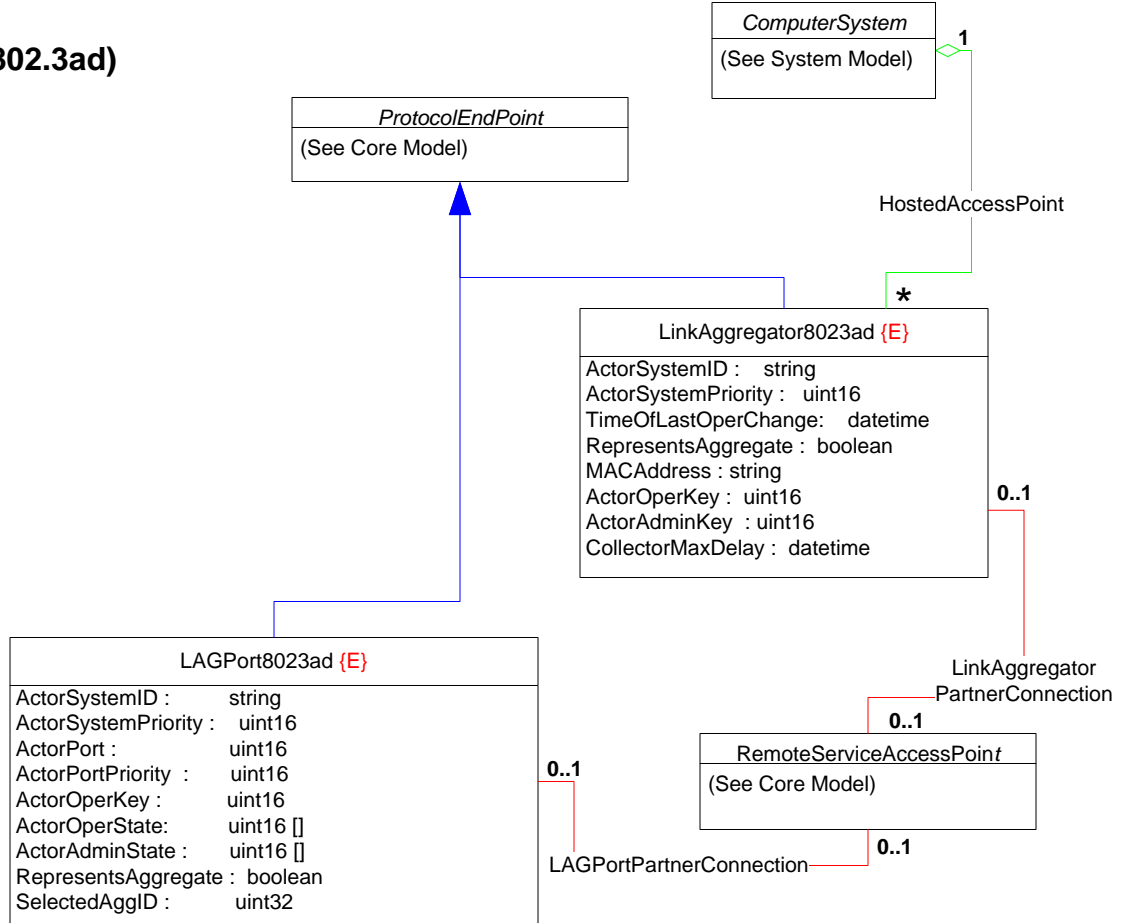
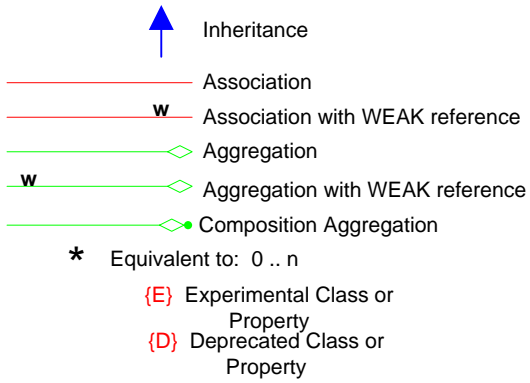




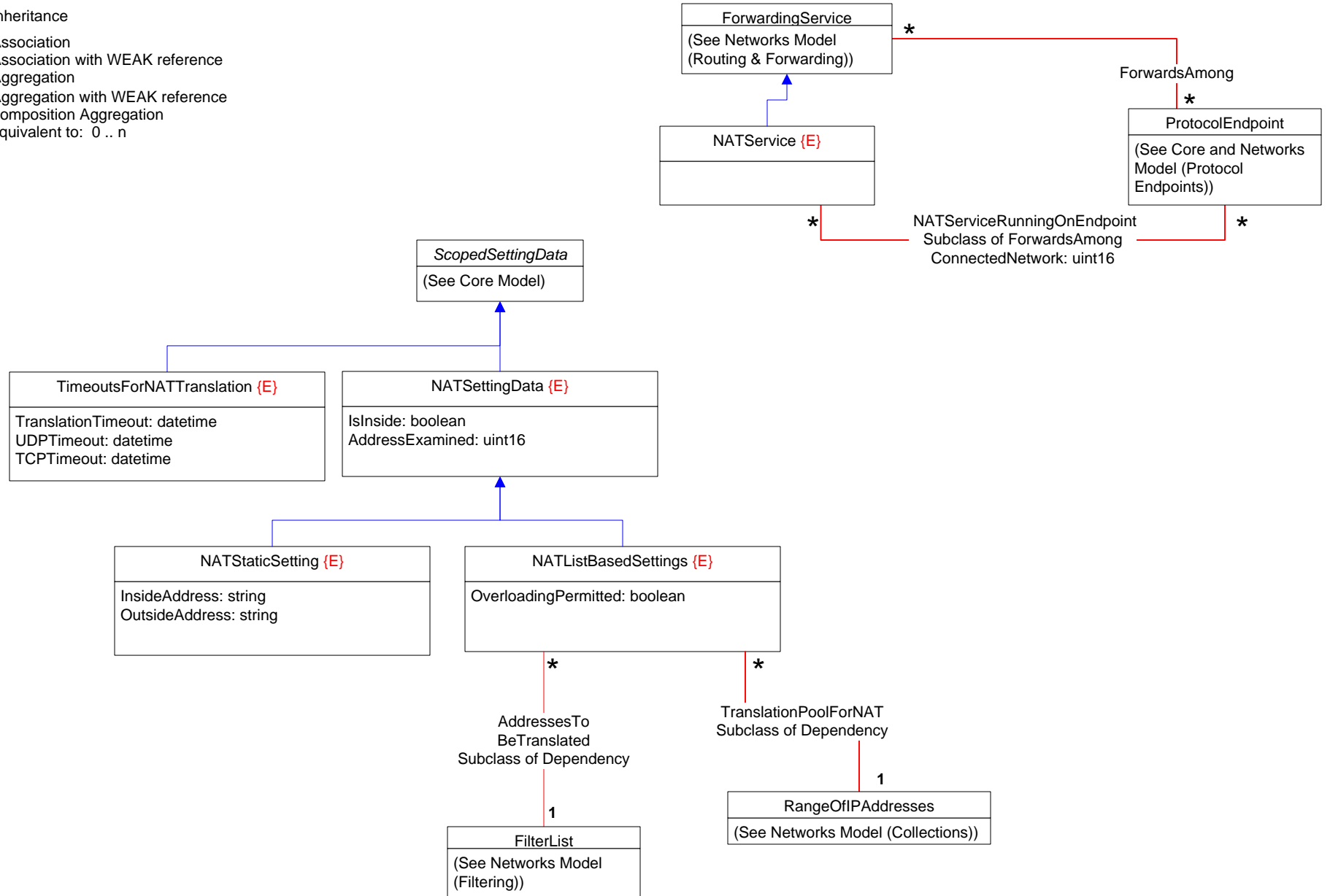
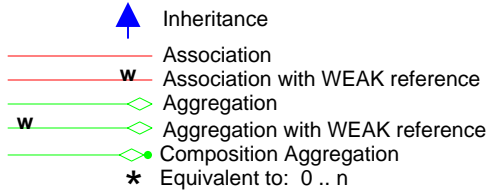









- ▲ Inheritance
- Association
- w Association with WEAK reference
- ◇ Aggregation
- w◇ Aggregation with WEAK reference
- ◇ Composition Aggregation
- \* Equivalent to: 0 .. n

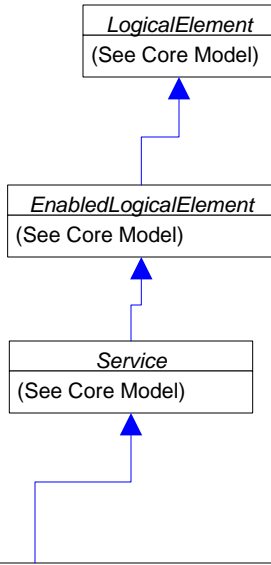




## Page 25 : Network Address Translation (NAT)



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



**iSCSIConfigurationService {E}**

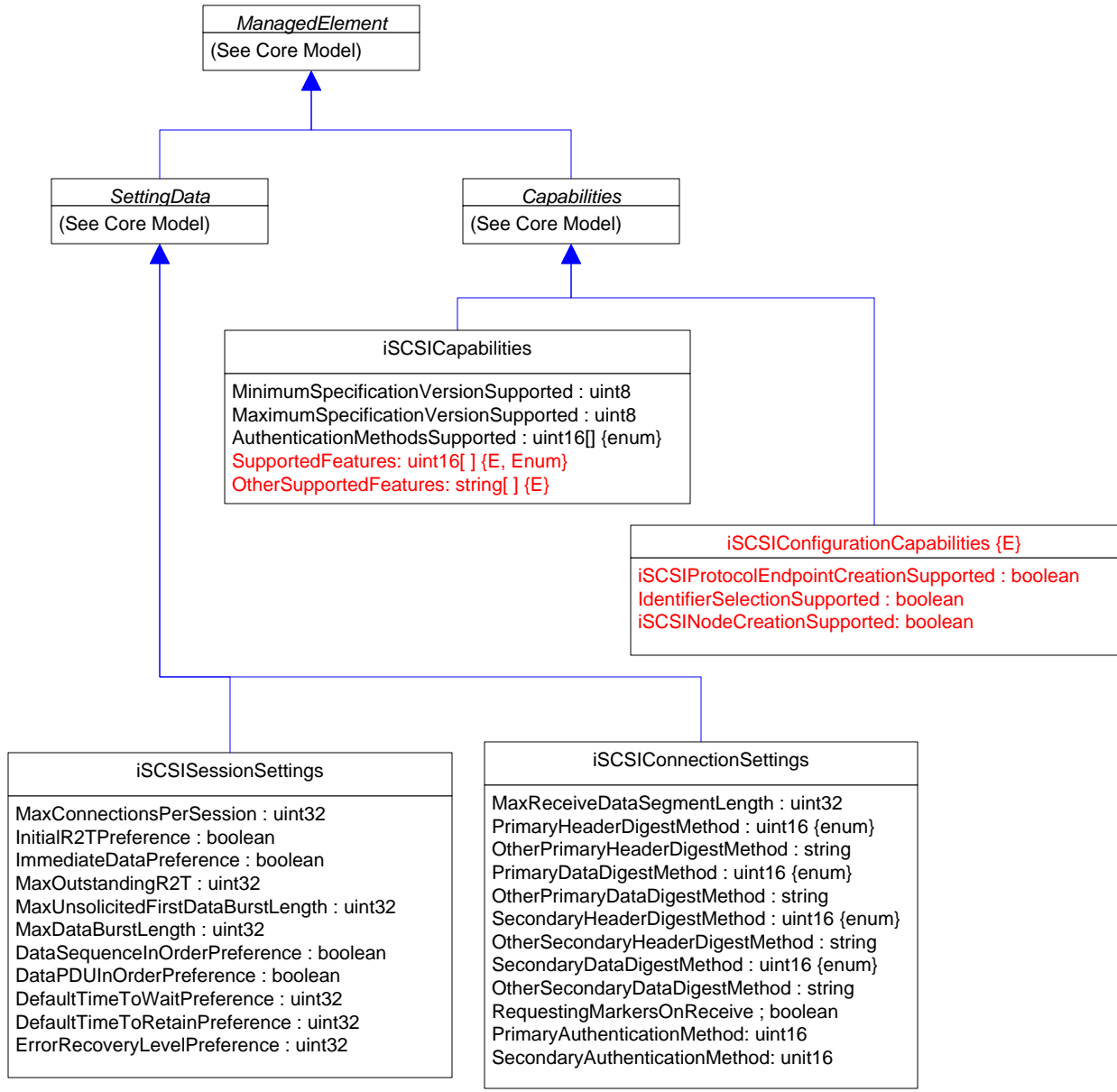
CreateiSCSIProtocolEndpoint ( [IN] iSCSINode : ref SCSIProtocolController, [IN] Role : uint16 {enum}, [IN] Identifier : string, [IN] NetworkPortals : ref ProtocolEndpoint[], [OUT] iSCSIPort : ref iSCSIProtocolEndpoint ) : uint32 {enum}








DeleteiSCSIProtocolEndpoint( [IN] iSCSIPort : ref iSCSIProtocolEndpoint ) : uint32 {enum}

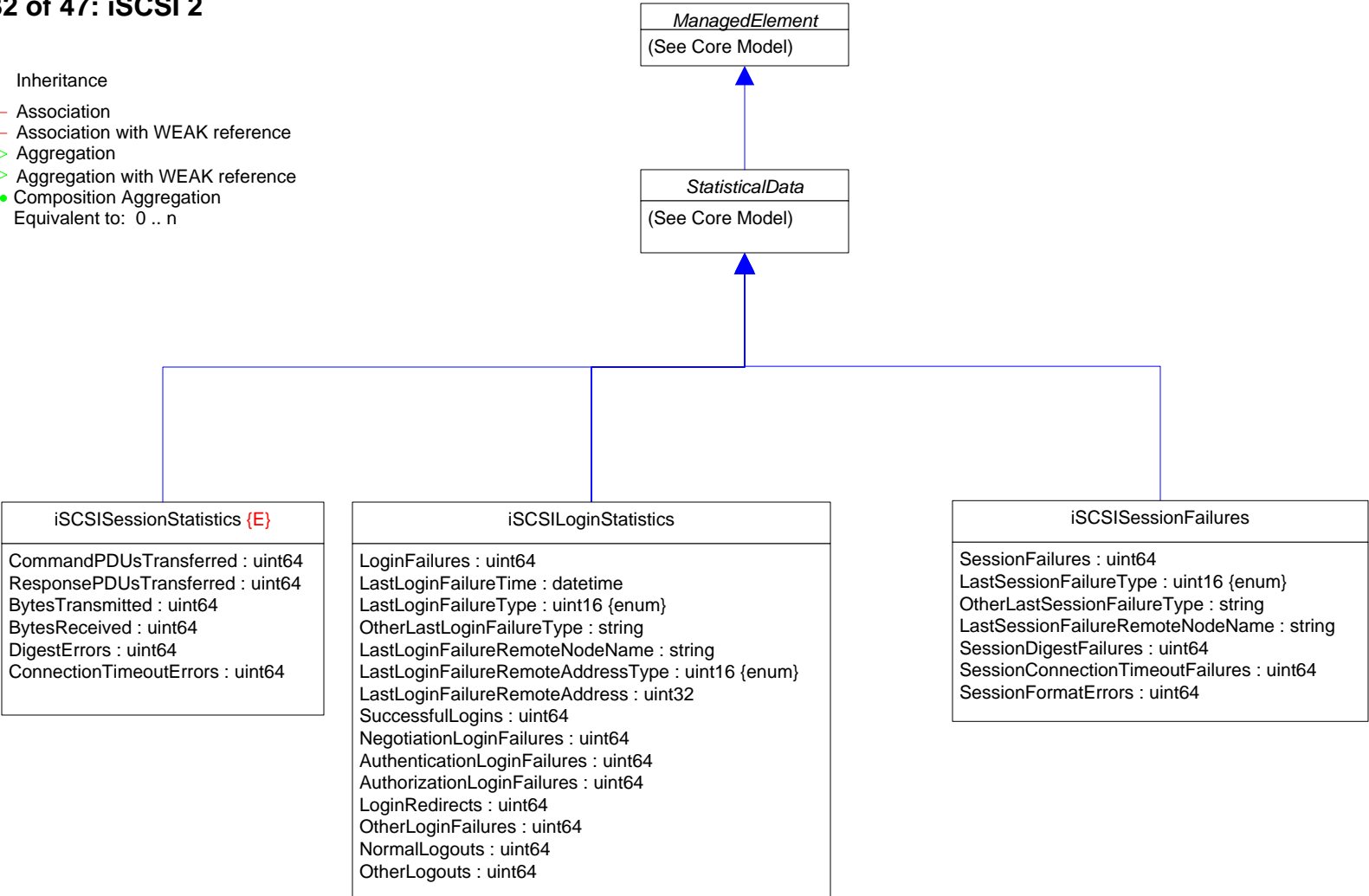
BindiSCSIProtocolEndpoint ( [IN] iSCSIPort : ref iSCSIProtocolEndpoint, [IN] NetworkPortal : ref ProtocolEndpoint ) : uint32 {enum}

CreateiSCSINode ( [IN] Alias: string, [OUT] iSCSINode: ref SCSIProtocolController) : uint32








DeleteiSCSINode ( [IN] iSCSINode: ref SCSIProtocolController) : uint32

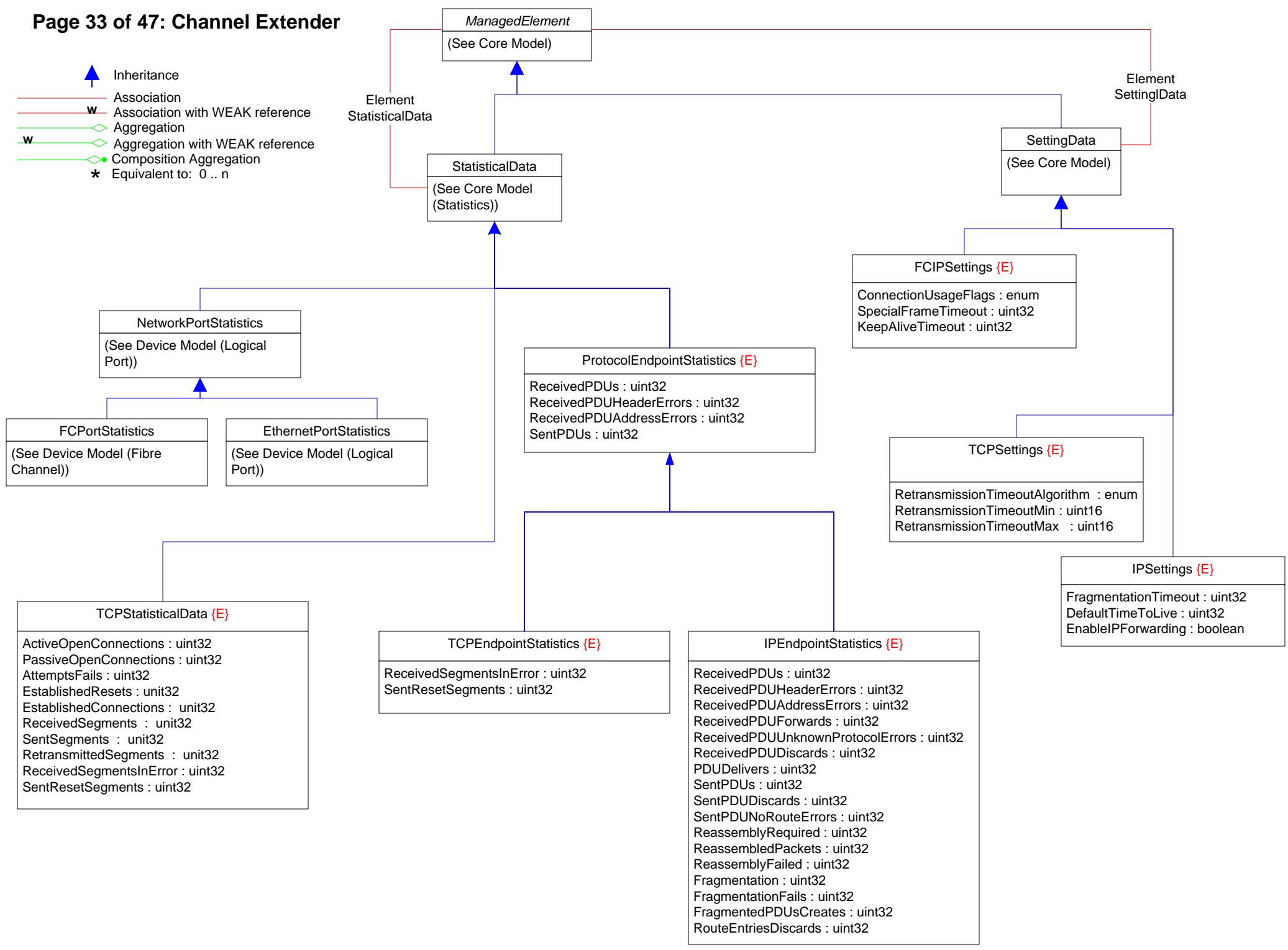


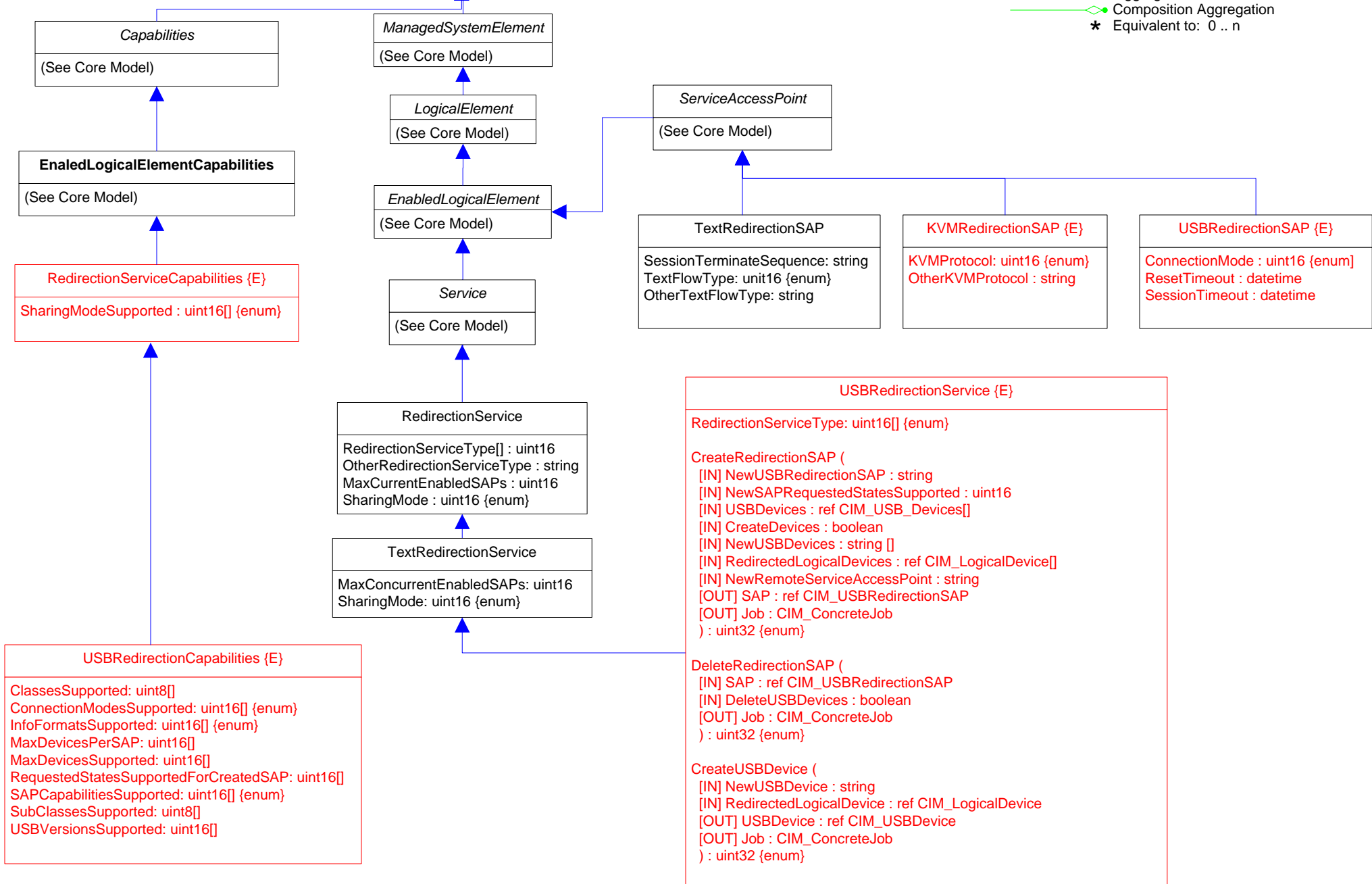
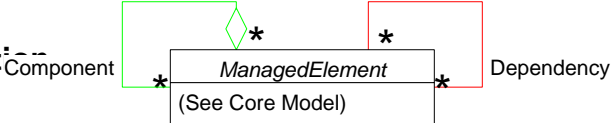
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n

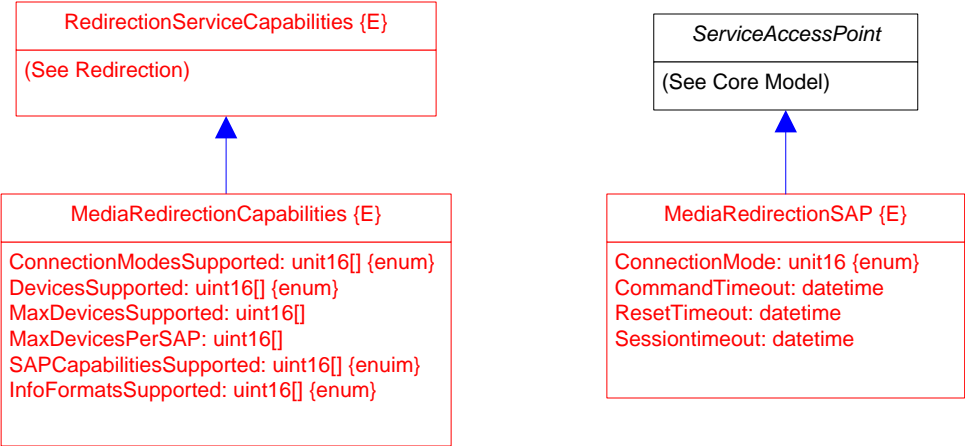
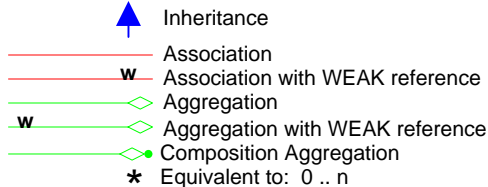











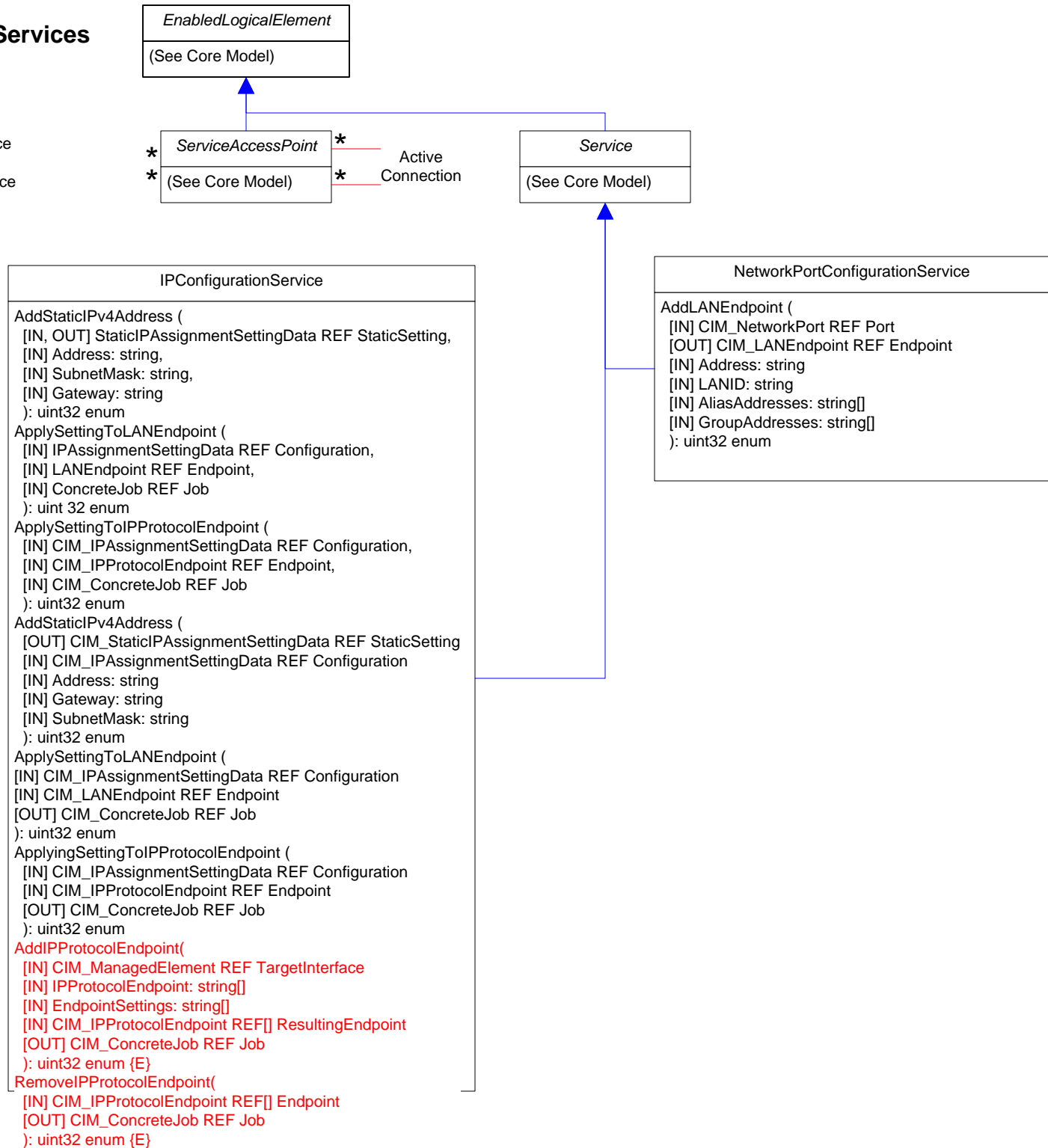
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n

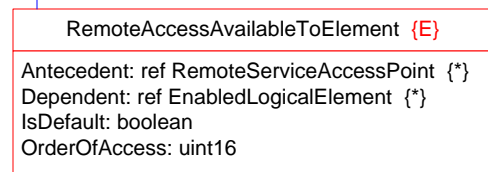
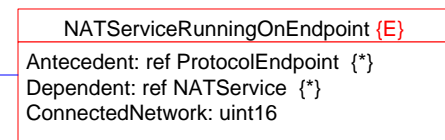
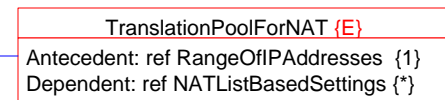
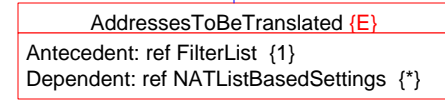
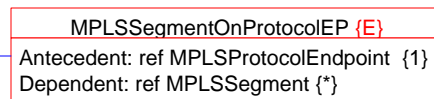
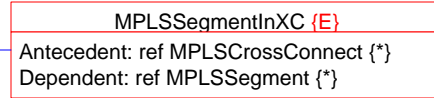
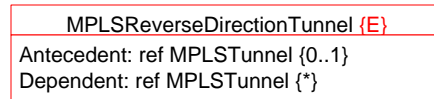
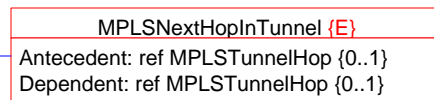
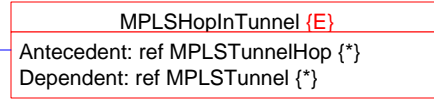
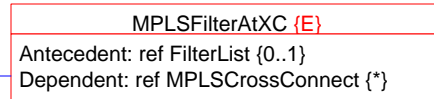
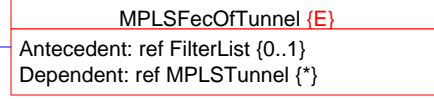
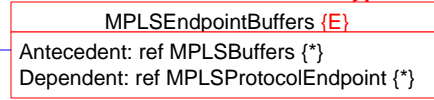
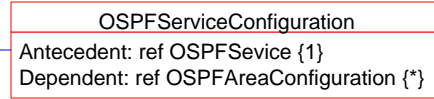
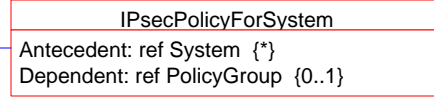
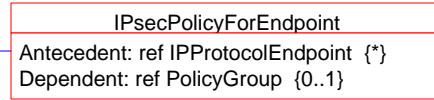
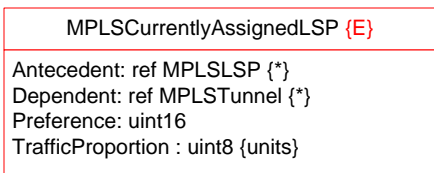
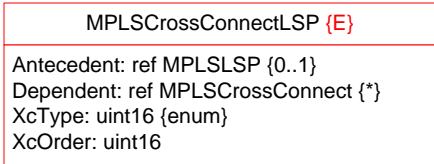
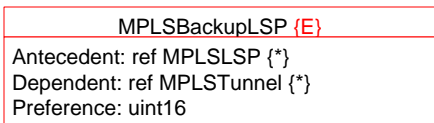
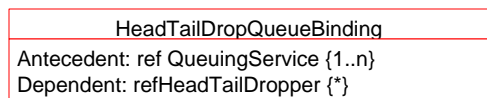
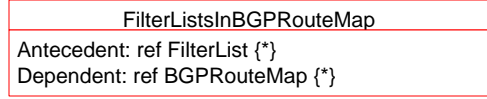
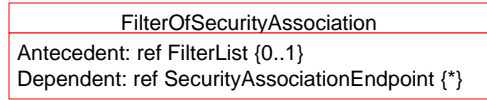
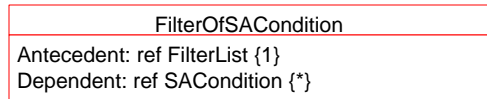
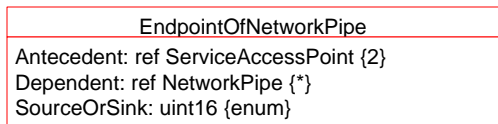
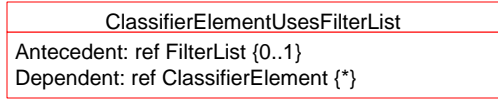
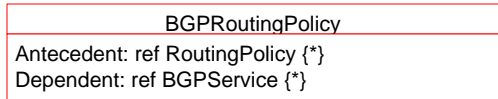
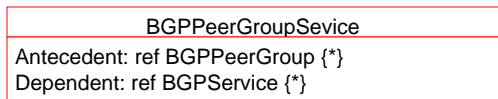
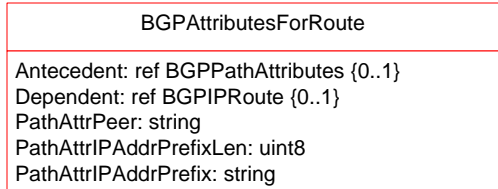
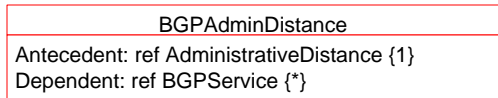
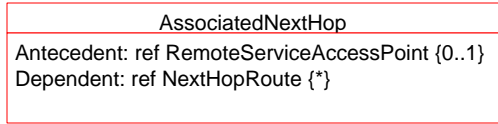
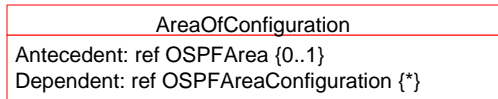
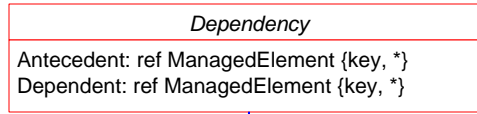


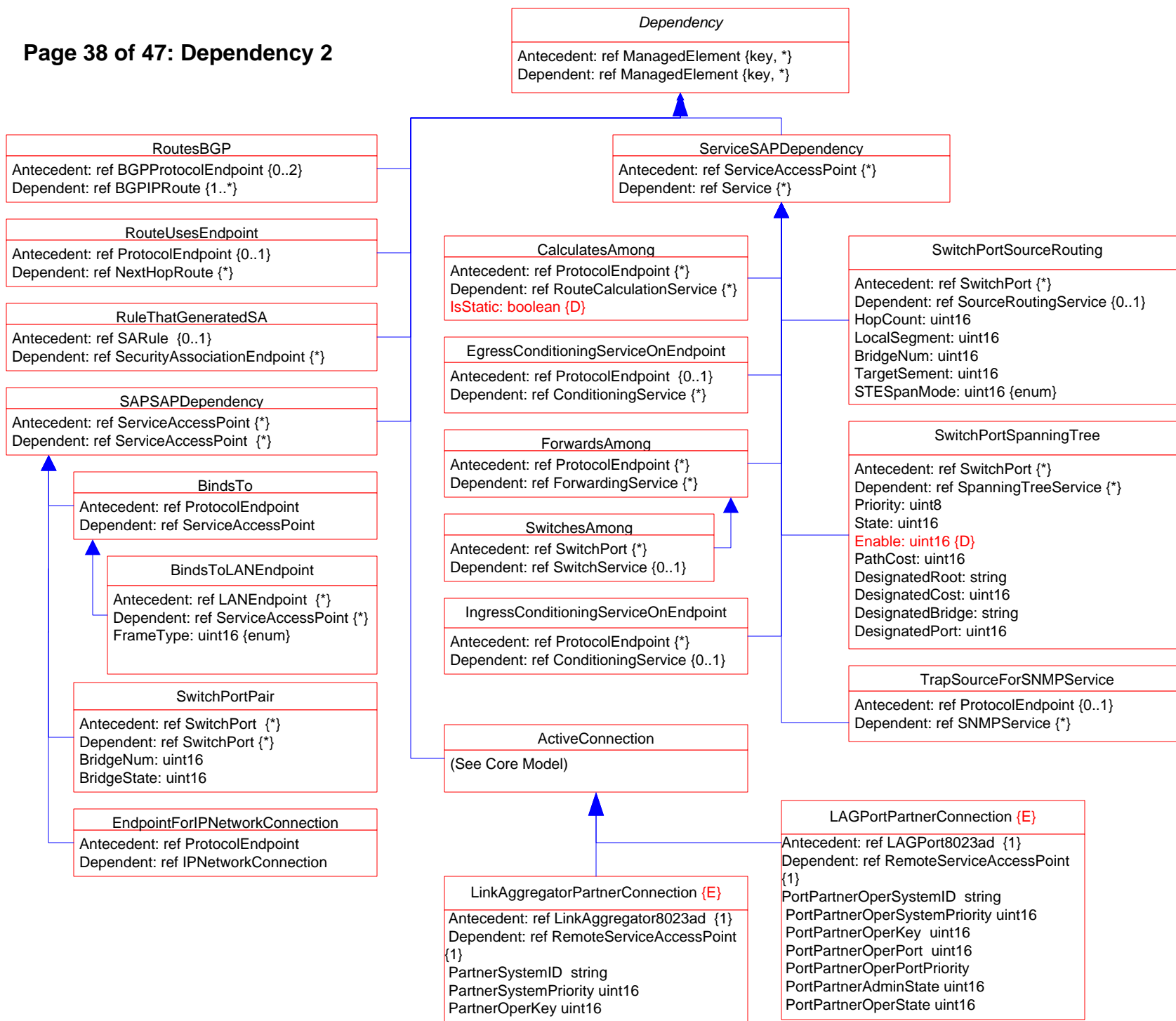


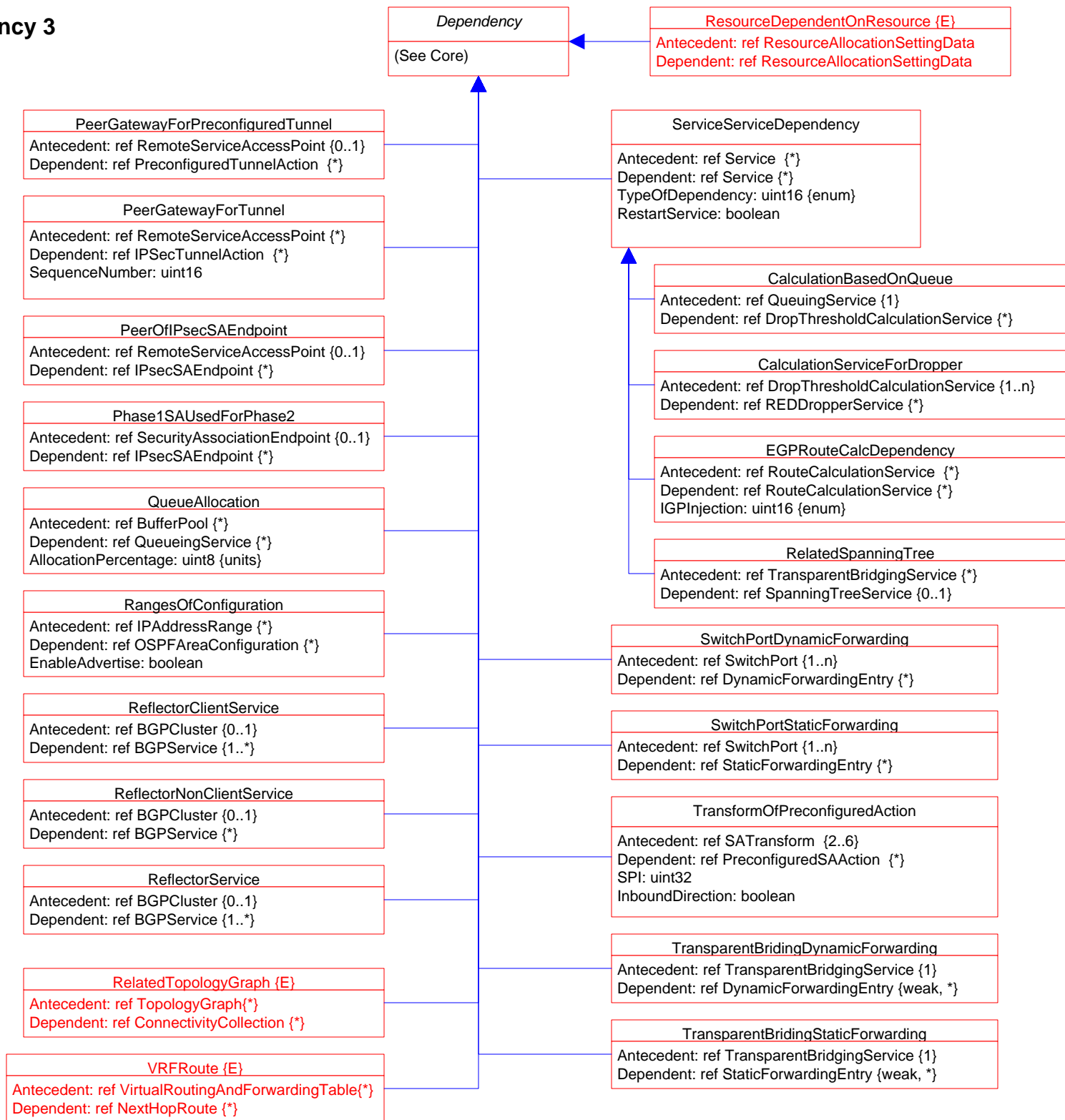


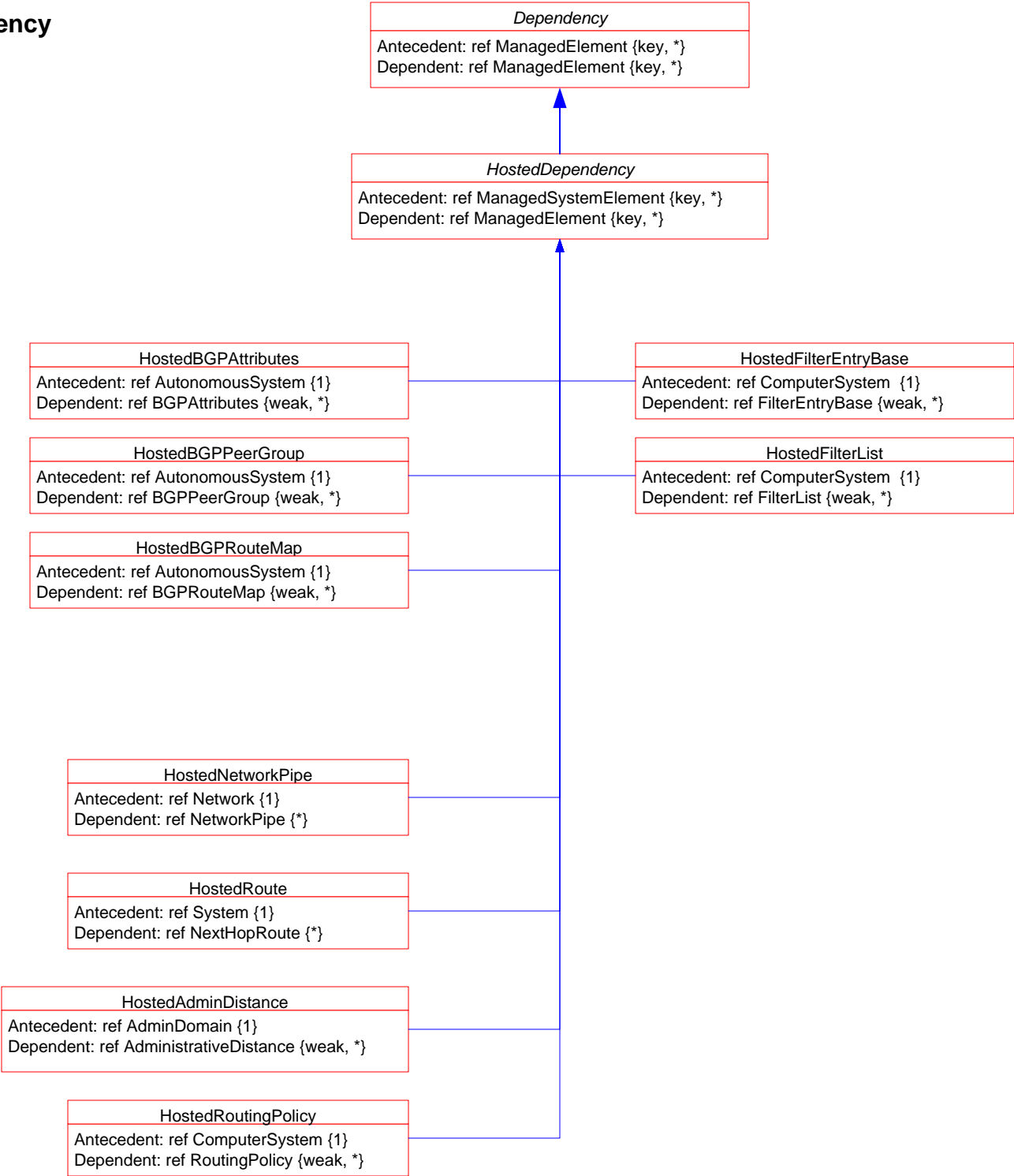
-  Inheritance
-  Association
-  Association with WEAK reference
-  Aggregation
-  Aggregation with WEAK reference
-  Composition Aggregation
-  Equivalent to: 0 .. n





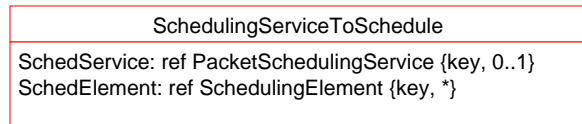
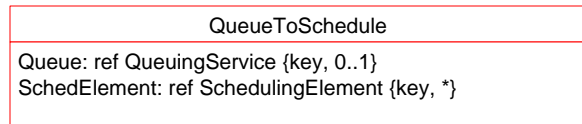
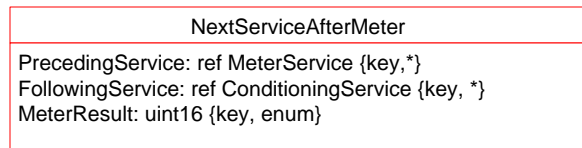
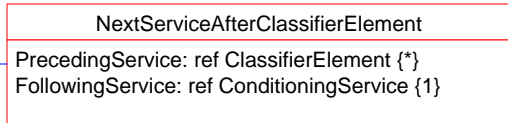
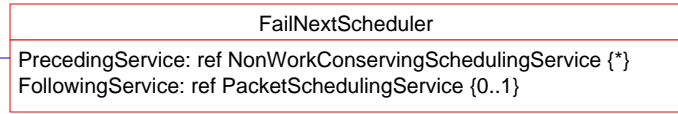
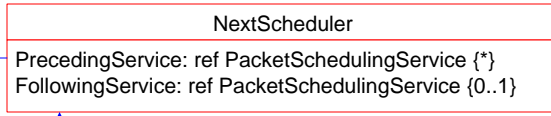
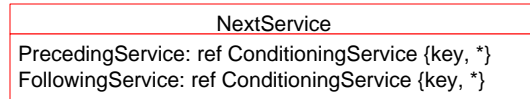
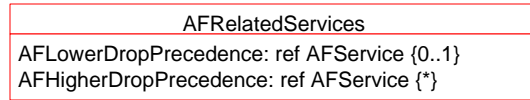
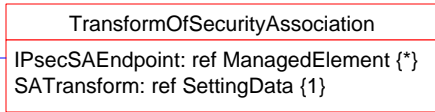
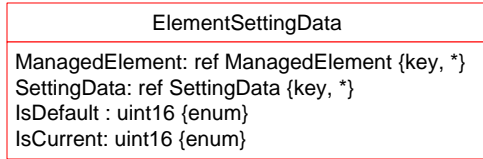
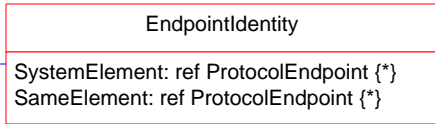
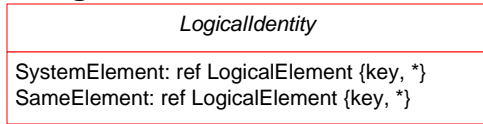




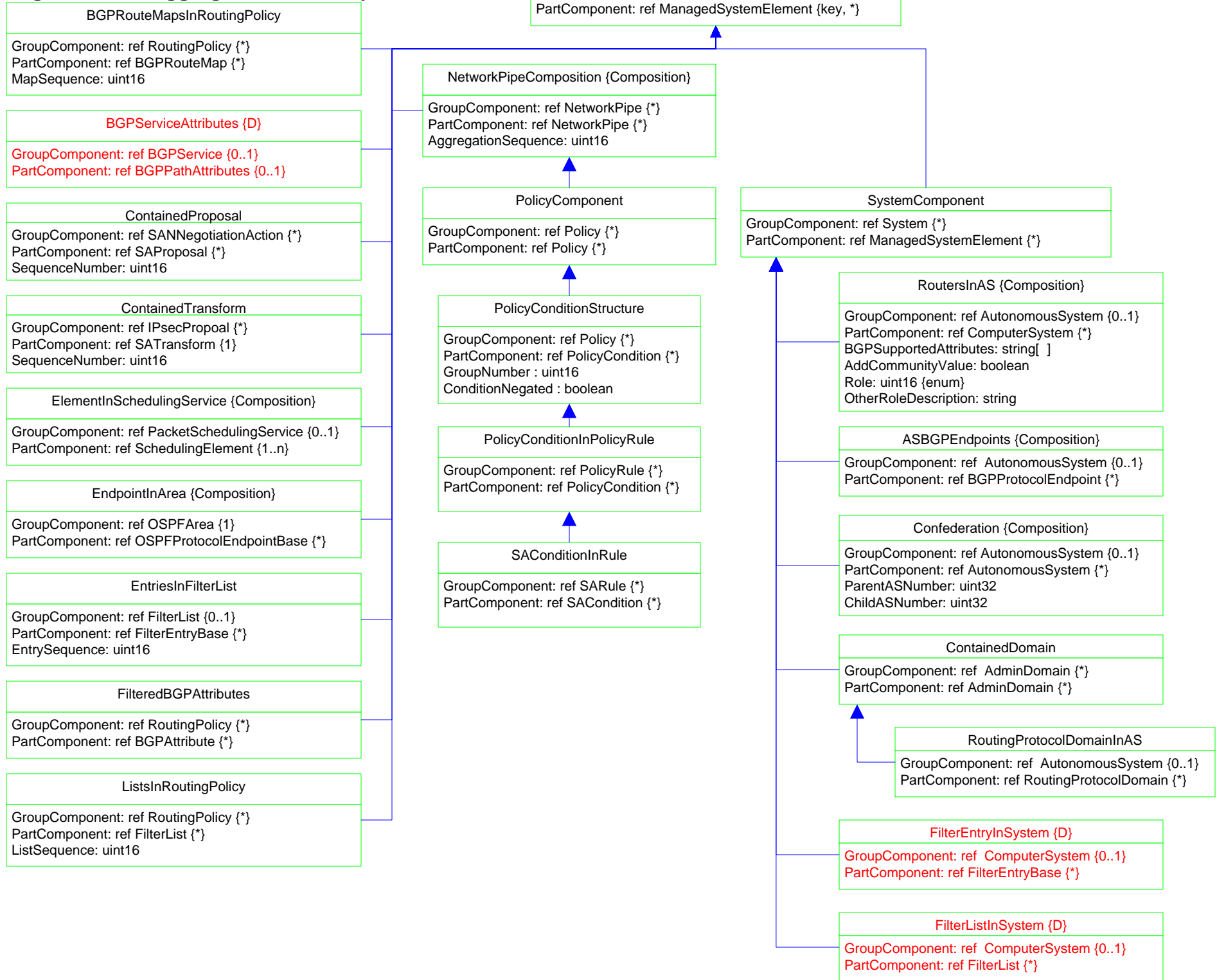


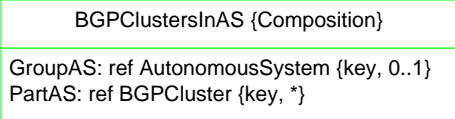
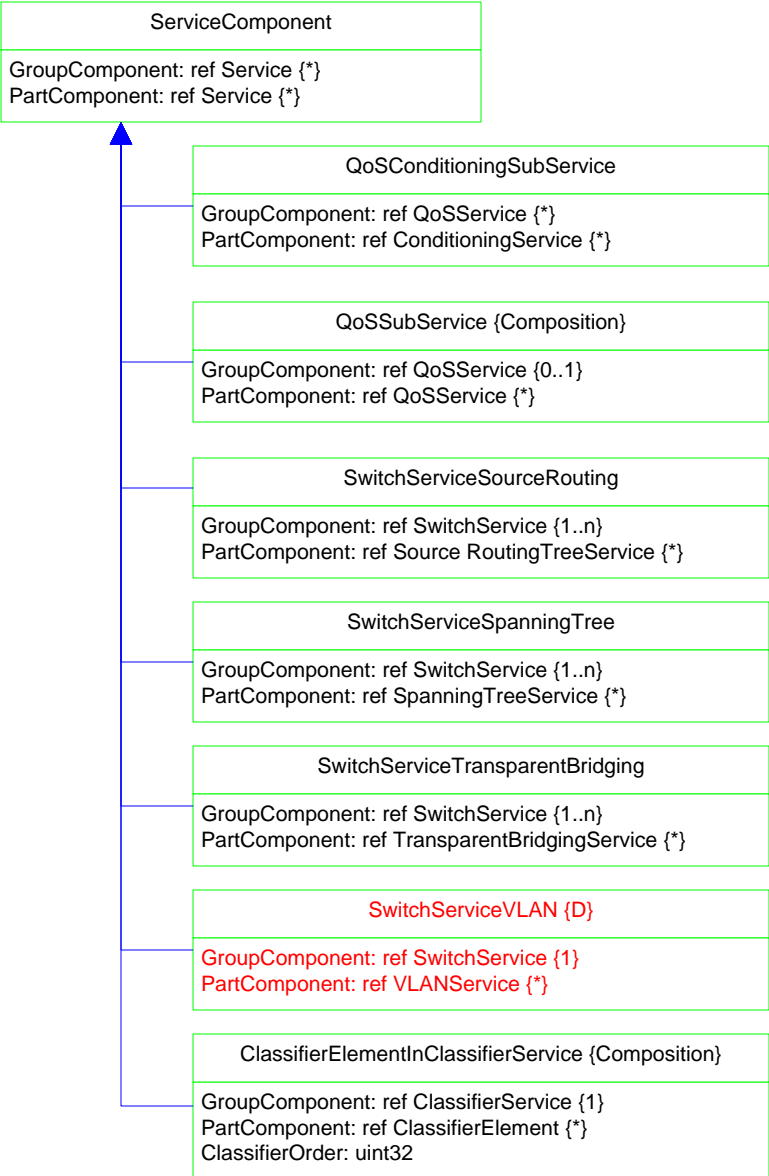


# Page 41 of 47: Association Hierarchy

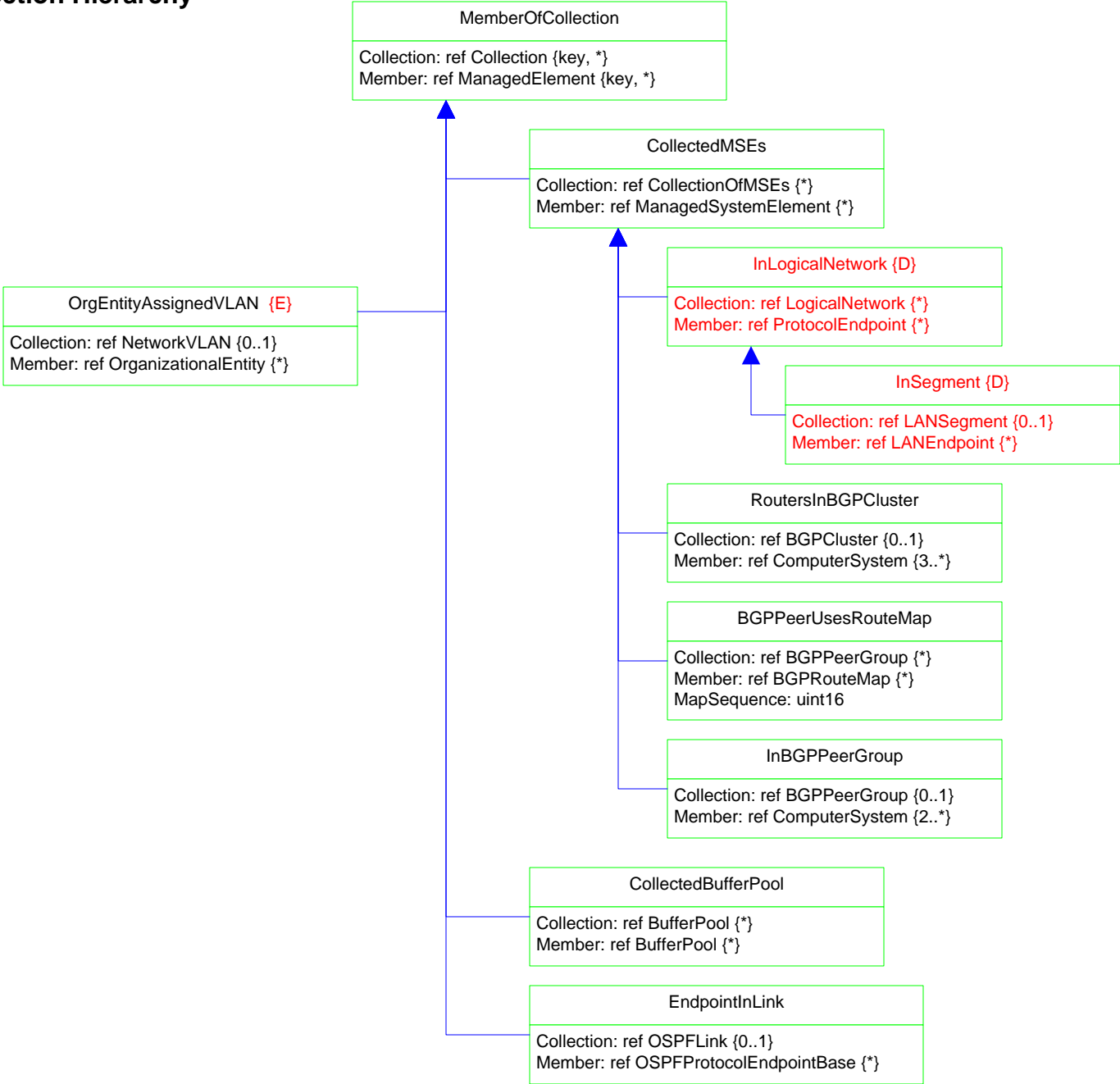


# Page 42 of 47: Aggregation Hierarchy 1










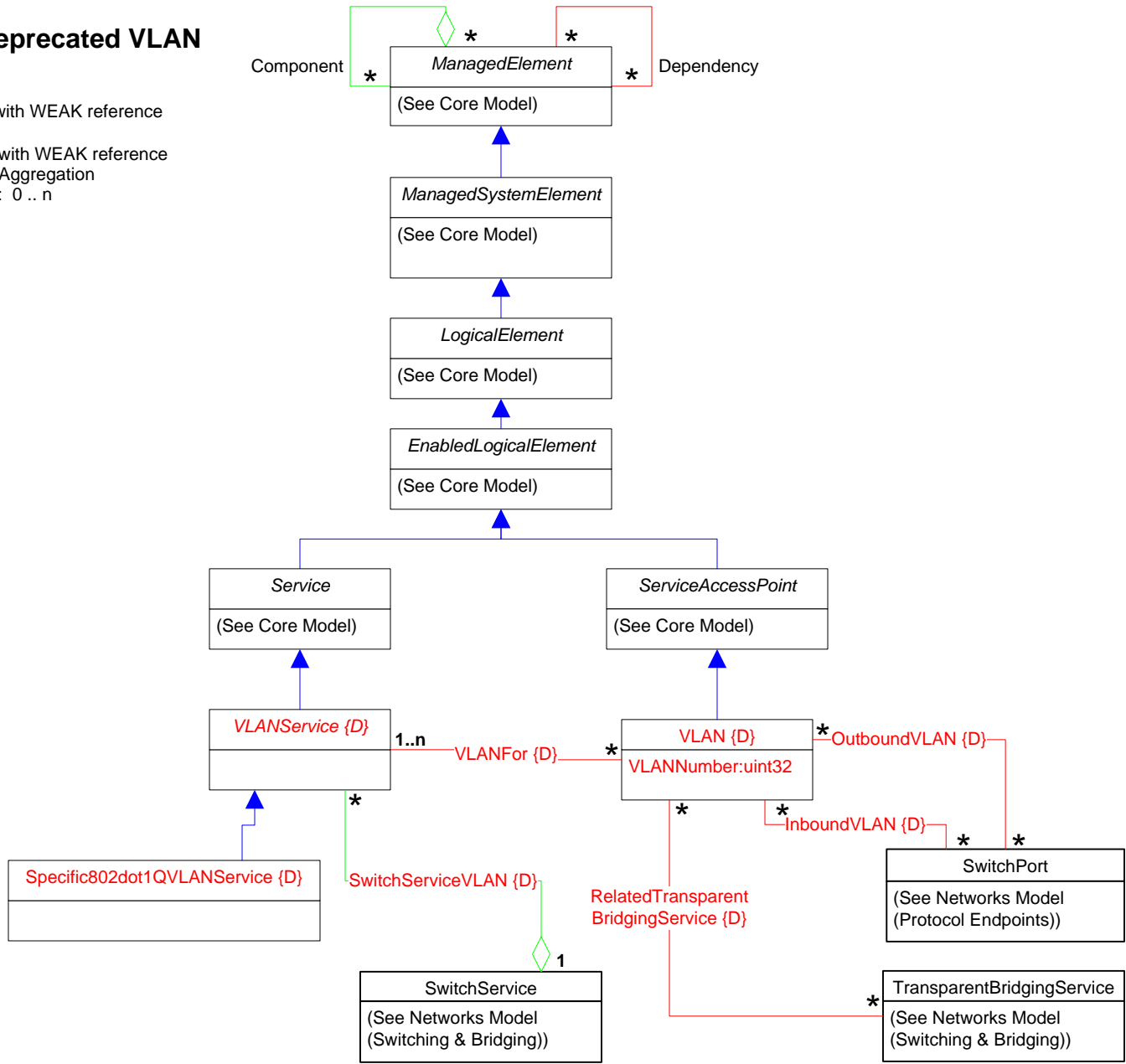


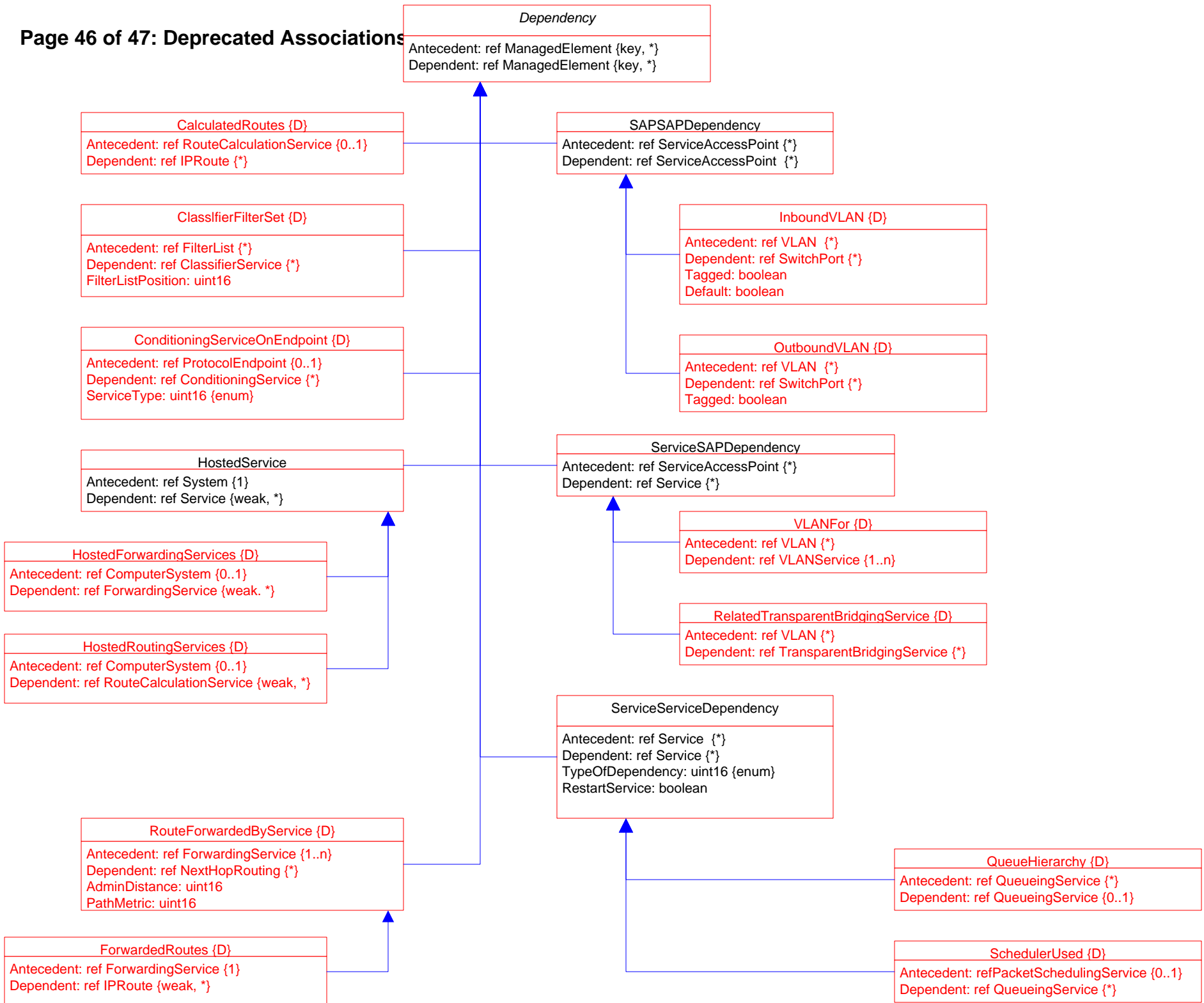
Page 44 of 47: MemberOfCollection Hierarchy



# Page 45 of 47: Deprecated VLAN

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





Page 47 of 47: Deprecated Associations 2

