

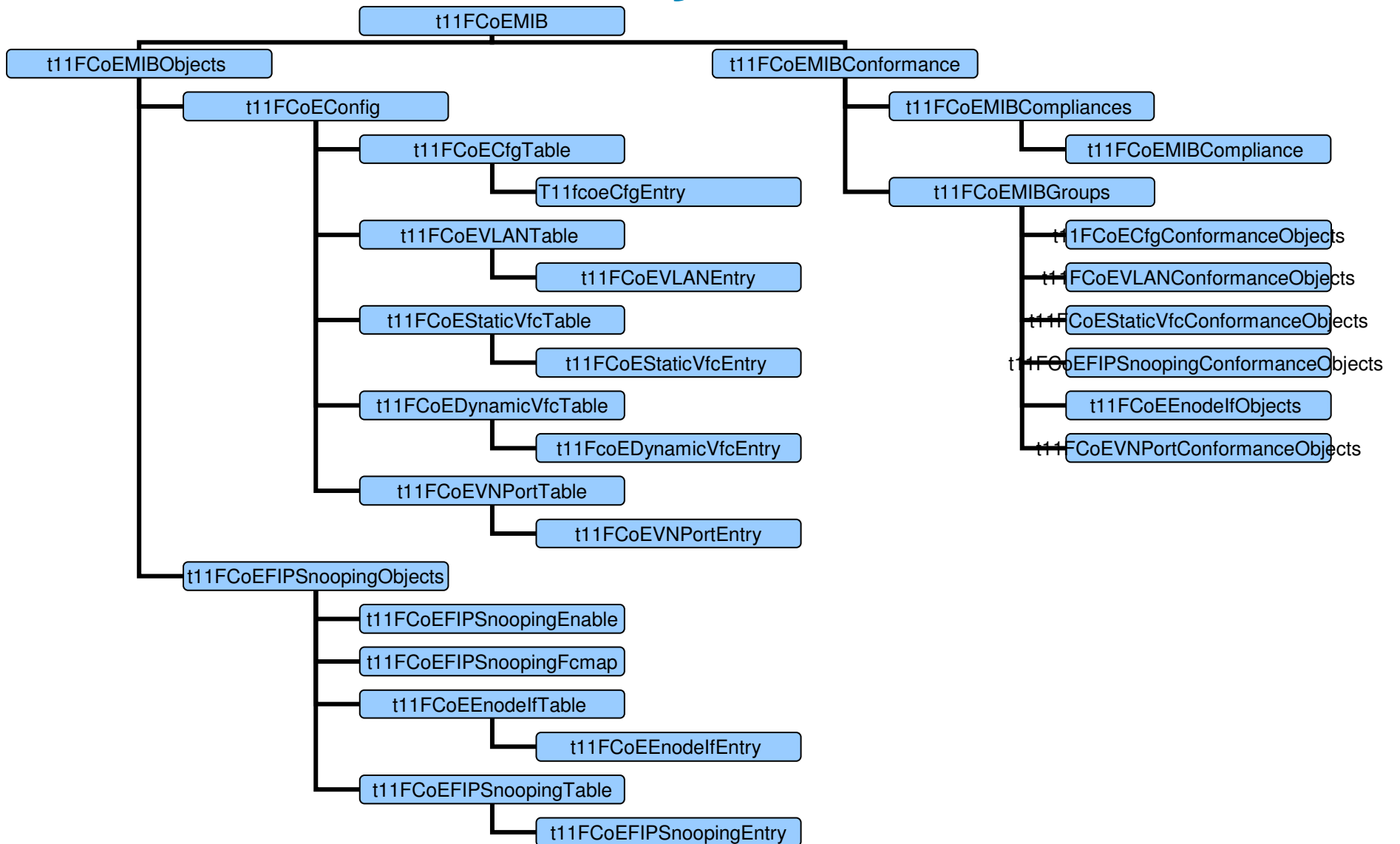


# FCoE: MIB Module Proposal Overview

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# FCoE MIB Hierarchy



# T11fcoeCfgEntry

- **t11FCoECfgFcmap** **OCTET STRING,**  
"This object configures the FC-MAP value used by the FCF when operating in FPMA mode. The default value is 0EFC00h, as written in the standard."
- **t11FCoECfgDynamicVfcCreation** **TruthValue,**  
"This object is set to 'true' to enable, or 'false' to disable, the dynamic creation of VFC interfaces on this FCF. When set to 'true', VFC interfaces are dynamically created as and when a FIP-based FLOGI or ELP request is received."
- **t11FCoECfgDefaultFCFPriority** **Unsigned32,**  
"The FIP priority value advertised by the FCF to ENodes by default. t11FCoEStaticVfcFCFPriority configured for a VFC interface overrides this setting for the ENode associated with the VFC."
- **t11FCoECfgDATov** **Unsigned32,**  
"The Discovery\_Advertisement\_Timeout value configured for the FCF. This is used as the timeout value in seconds by the FCF to send periodic Discovery Advertisements."
- **t11FCoECfgAddressingMode** **INTEGER**  
"Addressing mode(s) supported by the FCF. Implementations should fail SetRequests for unsupported modes."

# t11FCoEVLANEntry

- **t11FCoEVLANIndex**                      **VlanIndex,**  
"This object identifies the VLAN-ID that the FCoE FCF function is being enabled for."
- **t11FCoEFabricIndex**                      **T11FabricIndex,**  
"This object identifies the Fabric Index of the Virtual Fabric traffic which is to be transported over the VLAN identified by t11FCoEVLANIndex."
- **t11FCoEVLANOperState**                      **INTEGER,**  
"Operational state of this VLAN-Virtual Fabric association entry. The 'up' state is achieved when both the Virtual Fabric and VLAN are valid."
- **t11FCoEVLANRowStatus**                      **RowStatus**  
"The status of this conceptual row. The RowStatus becomes active on successful creation of an entry."

# t11FCoEStaticVfcEntry

- **t11FCoEStaticVfcIndex**                      **Unsigned32,**  
"This index uniquely identifies a static VFC entry in this table."
- **t11FCoEStaticVfcFCFPriority**            **Unsigned32,**  
"If this VFC is for a VF\_Port this object is used to configure FCF priority to be advertised to the ENode associated with the VFC."
- **t11FCoEStaticVfcBindType**                **T11FCoEVfcBindType,**  
"The mechanism to identify the ENode associated with this VFC if it is of type VF\_Port or to identify the remote-FCF associated with this VFC if it is of type VE\_Port."
- **t11FCoEStaticVfcBindPortWWN** **OCTET STRING,**  
"This object contains the WWN of the remote port."

# t11FCoEStaticVfcEntry

- **t11FCoEStaticVfcBindIfIndex**      **InterfaceIndexOrZero,**

"This object is applicable only when the local FCF is directly connected to an ENode or remote-FCF over a specific Ethernet interface, in which case this object contains the ifIndex of said Ethernet interface. If the ENode or remote-FCF is not directly connected to the FCF, this value of this object is zero."

- **t11FCoEStaticVfcBindMACAddress**      **MacAddress,**

"This object is applicable when the ENode or remote-FCF to which the local FCF is connected is identified by a MAC address. A FIP frame from a ENode or remote-FCF is associated with this VFC only if the source MAC address in the frame is the same as the value of this object."

- **t11FcoeStaticVfcBindVLANIndex**      **VlanIndex,**

"This object is applicable when the ENode or remote-FCF to which the local FCF is connected is identified by a MAC address. A FIP frame from a ENode or remote-FCF is associated with this VFC only if the source MAC address in the frame is the same as the value of this object."

# t11FCoEStaticVfcEntry

- **t11FCoEStaticVfcIfIndex**      **InterfaceIndex**,  
"The ifIndex of this Virtual FC interface."
- **t11FCoEStaticVfcCreationTime**      **TimeStamp**,  
"The timestamp of this entry's creation time."
- **t11FCoEStaticVfcFailureCause**      **SnmpAdminString**,  
"The cause of failure for the last bind operation. This object will be zero length if and only if the bind is successful."
- **t11FCoEStaticVfcRowStatus**      **RowStatus**  
"The status of this conceptual row. The RowStatus becomes active on successful creation of a VFC. The VFC does not need to be bound for the row to be active, but the VFC must be bound before becoming operational."

# t11fcoeDynamicVfcEntry

- **t11FCoEDynamicVfcIndex Unsigned32,**  
"This index uniquely identifies a dynamic VFC entry in this table."
- **t11FCoEDynamicVfcBindPortWWN OCTET STRING,**  
"This object contains the WWN of the remote port."
- **t11FCoEDynamicVfcBindIfIndex InterfaceIndexOrZero,**  
"This object is applicable only when the local FCF is directly connected to an ENode or remote-FCF over a specific Ethernet interface, in which case this object contains the ifIndex of said Ethernet interface. If the ENode or remote-FCF is not directly connected to the FCF, this value of this object is zero."
- **t11FCoEDynamicVfcBindMACAddress MacAddress,**  
"This object is applicable when the ENode or remote-FCF to which the local FCF is connected is identified by a MAC address. A FIP frame from a ENode or remote-FCF is associated with this VFC only if the source MAC address in the frame is the same as the value of this object."

# t11fcoeDynamicVfcEntry

- **t11FCoEDynamicVfcBindVLANIndex VlanIndex,**  
"A FIP frame from a ENode or remote-FCF is associated with this VFC only if it arrives on the VLAN identified by this object."
- **t11FCoEDynamicVfcIfIndex InterfaceIndex,**  
"The ifIndex of this Virtual FC interface."
- **t11FCoEDynamicVfcCreationTime TimeStamp,**  
"The timestamp of this entry's creation time."
- **t11FCoEDynamicVfcRowStatus RowStatus,**  
"The status of this conceptual row. The RowStatus becomes active on successful creation of a VFC. The VFC does not need to be bound for the row to be active, but the VFC must be bound before becoming operational."

# t11FCoEVNPortEntry

- **t11FCoEVNPortIndex Unsigned32,**  
"This index uniquely identifies a VNPort entry in this table."
- **t11FCoEVNPortAddressingMode INTEGER,**  
"Addressing mode in use by the VNPort."
- **t11FCoEVNPortFcmap OCTET STRING,**  
"FC-MAP value in use by the VNPort. Applies only if FPMA is in use, i.e. t11FCoEVNPortAddressingMode==fpma."
- **t11FCoEVNPortLocalMACAddress MacAddress,**  
"The MAC address being used by this VNPort."
- **t11FCoEVNPortLocalPortWWN OCTET STRING,**  
"This object contains the WWN of the local port."

## t11FCoEVPNPortEntry

- **t11FCoEVPNPortBindMACAddress MacAddress,**  
"The MAC address of the remote VFPort."
- **t11FCoEVPNPortBindPortWWN OCTET STRING,**  
"This object contains the WWN of the remote VFPort port."
- **t11FCoEVPNPortBindVLANIndex VlanIndex,**  
"The VLAN in use by this VN / VF port association."
- **t11FCoEVPNPortIfIndex InterfaceIndex,**  
"The ifIndex of this VNPport interface."
- **t11FCoEVPNPortDATov Unsigned32,**  
"The Discovery\_Advertisement\_Timeout value in use by this VNPport."
- **t11FCoEVPNPortCreationTime TimeStamp**

# t11FCoEEnodelfEntry

- **t11FCoEEnodelflIndex**      **InterfaceIndex,**  
"The ifIndex of the interface on the Ethernet Bridge connected to an Enode."
- **t11FCoEEnodelfRowStatus**      **RowStatus**  
"The status of this conceptual row."

# t11FCoEFIP SnoopingEntry

- **t11FCoEFIP SnoopingVLANIndex** **VlanIndex**,  
"This object identifies the VLAN-ID that the FCoE FIP Snooping function is being enabled for."
- **t11FCoEFIP SnoopingRowStatus** **RowStatus**  
"The status of this conceptual row."

# t11FCoEMIBCompliance

- **Groups Applying to FCFs:**
  - t11FCoECfgConformanceObjects,
  - t11FCoEVLANConformanceObjects,
  - t11FCoEStaticVfcConformanceObjects
- **Groups Applying to snooping bridges:**
  - t11FCoEFIPSnoppingConformanceObjects
- **Groups Applying to VNPorts**
  - t11FCoEVNPortConformanceObjects



Thank you!