

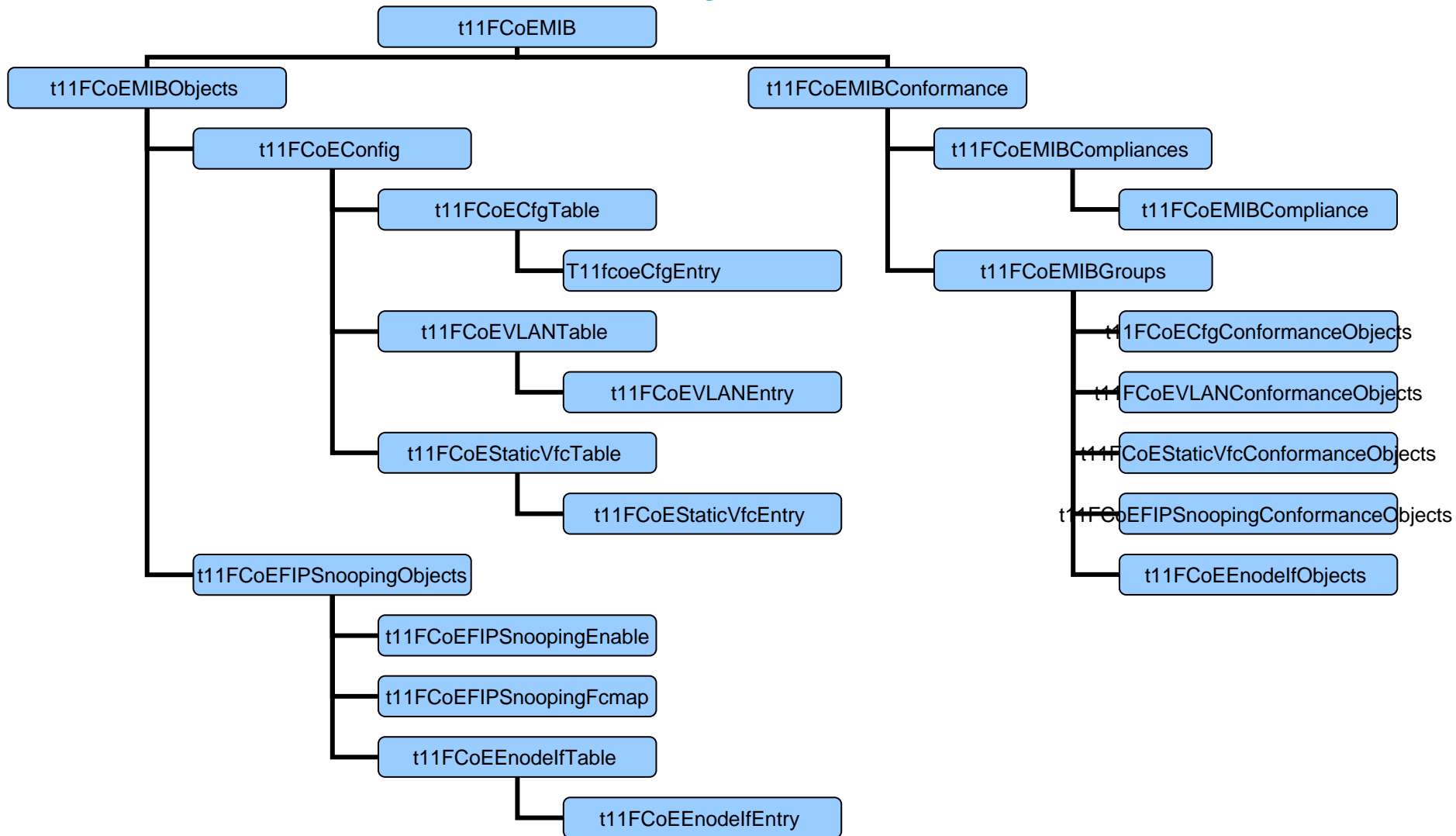


# FCoE: MIB Module Proposal Overview

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# FCoE MIB Hierarchy



Refer to 08-427v0 for the actual MIB Module

# 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."
- **t11FCoECfgDynamicVfcAgeTimer** **Unsigned32,**  
"This ageing timer (in seconds) is used by the FCF to age out dynamically created VFC interfaces."
- **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."
- **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."

# 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."

# t11FCoEEnodeIfEntry

- **t11FCoEEnodeIfIndex**      **InterfaceIndex,**

"The ifIndex of the interface on the Ethernet Bridge connected to an Enode."

- **t11FCoEEnodeIfRowStatus**      **RowStatus**

"The status of this conceptual row."

# t11FCoEMIBCompliance (1)

- **MANDATORY-GROUPS**

  - t11FCoECfgConformanceObjects,
  - t11FCoEVLANConformanceObjects,
  - t11FCoEStaticVfcConformanceObjects

- **t11FCoEFIP Snooping Conformance Objects**

  - "This group is mandatory for Ethernet Bridges which support FIP Snooping."

- **t11FCoEENode Objects**

  - "This group is mandatory for Ethernet Bridges which need configuration information indicating which of their interfaces are directly attached to ENodes."

- **t11FCoECfgFcmap**

- "Support for write access is not required."

- **t11FCoECfgDynamicVfcCreation**

  - "Support for write access is not required."

- **t11FCoECfgDynamicVfcAgeTimer**

  - "Support for write access is not required."

- **t11FCoECfgDefaultFCFPriority**

  - "Support for write access is not required."

- **t11FCoECfgDATov**

  - "Support for write access is not required."

- **t11FCoECfgAddressingMode**

  - "Support for write access is not required."

# t11FCoEMIBCompliance (2)

- **t11FCoEVLANRowStatus**  
"Support for write access is not required."
- **t11FCoEStaticVfcFCFPriority**  
"Support for write access is not required."
- **t11FCoEStaticVfcBindType**  
"Support for write access is not required."
- **t11FCoEStaticVfcBindIfIndex**  
"Support for write access is not required."
- **t11FCoEStaticVfcBindMACAddress**  
"Support for write access is not required."
- **t11FCoEStaticVfcRowStatus**  
"Support for write access is not required."
- **t11FCoEFIPsnoopingEnable**  
"Support for write access is not required."
- **t11FCoEFIPsnoopingFcmap**  
"Support for write access is not required."
- **t11FCoEENodelfRowStatus**  
"Support for write access is not required."

# t11FCoECfgConformanceObjects

- "A collection of objects related to all implementations of FCoE."

t11FCoECfgFcmap

t11FCoECfgDynamicVfcCreation

t11FCoECfgDynamicVfcAgeTimer

t11FCoECfgDefaultFCFPriority

t11FCoECfgDATov

t11FCoECfgAddressingMode

# t11FCoEVLANConformanceObjects

- "A collection of objects related to implementation of FCoE VLANs."

t11FCoEVLANOperState,

t11FCoEVLANRowStatus

# t11FCoEStaticVfcConformanceObjects

- "A collection of objects related to implementation of static VFC interfaces."

t11FCoEStaticVfcFCFPriority,  
t11FCoEStaticVfcBindType,  
t11FCoEStaticVfcBindIfIndex,  
t11FCoEStaticVfcBindMACAddress,  
t11FCoEStaticVfcIfIndex,  
t11FCoEStaticVfcCreationTime,  
t11FCoEStaticVfcFailureCause,  
t11FCoEStaticVfcRowStatus

# t11FCoEFIP Snooping Conformance Objects

- "A collection of objects related to implementation of FIP Snooping."

t11FCoEFIP Snooping Enable,

t11FCoEFIP Snooping Fcmap

# t11FCoEEnodelfObjects

- "A collection of objects related to implementation of ENode interfaces on a FIP-snooping Ethernet Bridge."

t11FCoEEnodelfRowStatus



Thank you!