# TRILL OAM Fault MIB

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# Overview

- Presented in draft-deepak-trill-oam-mib-00.
- It augments IEEE CFM MIB and define TRILL OAM on top of it
  - TRILL OAM MIB is IETF MIB
  - This is the standard practice, many others have done this ITU-T, MEF
  - We do not have to implement everything, only the parts we need and TRILL specific needed to be implemented.

# MIB Relationship (IEEE8021-CFM-MIB)

## IEEE 802.1

<<use>>

Augments

| <<component>> IEEE8021-TC-MIB | → | <<component>> IEEE8021-CFM-MIB | → | <<component>> TRILL-OAM-MIB |

# TRILL OAM MIB Tree

TRILL-OAM-MIB

- **trillOamNotifications**
  - ◦ trillOamFaultAlarm
- **trillOamMibObjects**
  - ◦ trillOamMep
    - trillOamMepTable <-- augments the dot1agCfmMepEntry
    - trillOamMepFlowCfgTable
    - trillOamPtrTable
    - trillOamMtrTable
    - trillOamMepDbTable <-- augments dot1agCfmMepDbTable

# MIB Imports

- MIB definition file contain other standard MIBs to pull-in

```
IMPORTS
    .
    .

    OBJECT-GROUP,
    NOTIFICATION-GROUP,
    MODULE-COMPLIANCE
        FROM SNMPv2-CONF

    dot1agCfmMdIndex,
    dot1agCfmMaIndex,
    dot1agCfmMepIdentifier,
    dot1agCfmMepEntry,
    dot1agCfmMepDbEntry,
    Dot1agCfmIngressActionFieldValue,
    Dot1agCfmEgressActionFieldValue,
    dot1agCfmMepHighestPrDefect,
    Dot1agCfmRemoteMepState
        FROM IEEE8021-CFM-MIB

LldpChassisId,
LldpChassisIdSubtype,
LldpPortId
    FROM LLDP-MIB;
```

# Augmenting MIB

- Use the key word *AUGMENTS* when defining the object

**trillOamMepEntry** OBJECT-TYPE

    SYNTAX            TrillOamMepEntry

    MAX-ACCESS     not-accessible

    STATUS            current

    DESCRIPTION

        "The conceptual row of trillOamMepTable."

    **AUGMENTS**       { dot1agCfmMepEntry  }

    ::= { trillOamMepTable 1 }

# What does this means ?

- Complete TRILL OAM MIB contain both CFM MIB and TRILL OAM extensions
- As an example complete TRILL OAM MEP Entry consists of
  - dot1agCfmMepEntry
  - TrillOAMMepEntry

# Next steps for MIB

- TRILL OAM MIB  is the glue between inter SDO OAM infrastructure.
  - It is done with MIB reuse in mind.
- Please take time and review draft-deepak-trill-oam-mib-00