P802.1Qcj
Data Models
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What the PAR Says

• 5.2.b. Scope of the project: This standard specifies the protocols, procedures and management objects for auto-attachment of network devices to Provider Backbone service instances by using Type, Length, Value (TLVs) within the Link Layer Discovery Protocol (LLDP)

• The PAR just mentions ‘management objects’ leaving the choice of selecting the data modeling language and the data models open
Data Models

• There are actually three data models:
  – (1) Protocol (SPB) Extensions DM
    • Was done until recently only in SMIv2 MIB modules
    • Alternate option (and dependency) – extend the YANG DM developed in 802.1Qcp
  – (2) LLDP extension (new TLVs support)
    • Was done only in SMIv2 MIB modules (LLDP MIB)
  – (3) Service Mapping (VLAN/ISID) Tables
    • New
    • YANG seems to be the obvious solution
      – Not a ‘usual’ management interface - connects to policy/SDN servers
Open

• **Discussions in Dallas**
  – The feeling in the room was that it’s too early for YANG policy extensions while .1Qcp is in early phases

• **Options**
  – Develop (1) and (2) as MIB modules, any YANG development as Informational RFC / GitHub, ad later as amendment
  – YANG development for (1) and maybe (3) as part of the current project – with corresponding delay