Energy Aware MIB draft-ietf-eman-energy-aware-mib-03

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Charter & Abstract

 "3. Energy-aware Networks and Devices MIB document The EMAN WG will develop a MIB module for monitoring energyaware networks and devices. The module will address devices identification, context information, and potential relationship between reporting devices, remote devices, and monitoring probes."

Open Issues in Version 2

 The terminology must be consistent for all EMAN drafts, and this one included.

DONE based on the last version of the terminology draft

- 2. Agreement: we need an UUID for every Energy Object, but how to model it? From the last meeting:
 - "- If we want to make it right: new OID in the ENTITY-MIB v4 with a limited compliance statement to the ENTITY-MIB, i.e. just a few OIDs?
 - If we want to make it quick: a new OID in the EMAN-MIB"

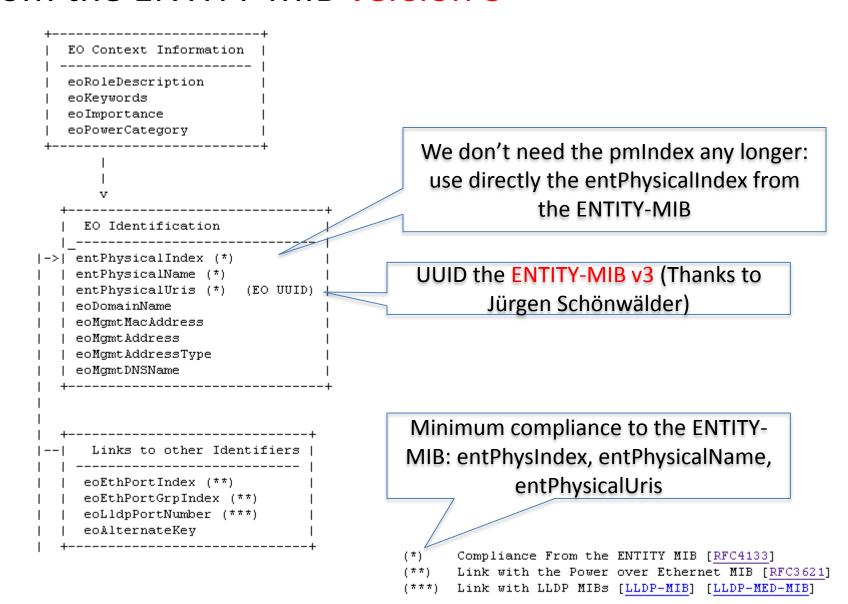
SOLVED: see next slides

3. A EO Child can have different EO parents in the monitoring, control, and power distribution. And a Child can have multiple parents in each of the topologies. In other words, the different relationships as defined in the EMAN framework must be inserted in this draft SOLVED: see next slides

Open Issue 2: UUID in the previous draft version

```
Child Specific Info
  Context Information
                                pmParentId
                               pmParentProxyAbilities
pmRoleDescription
                               pmMgmtMacAddress (*)
                               pmMgmtAddress (*)
pmKeywords
pmImportance
                               pmMqmtAddressType (*)
pmPowerCategory
                               pmMgmtDNSName (*)
                                     Specific Textual Convention in the MIB
 pmIndex
                                      module, with a reference to RFC 4122
 DIUUmq
 pmName
 pmDomainName
                                 Note: entPhysicalName
                                   from the ENTITY-MIB
   Links to other Identifiers
  pmPhysicalEntity (**)
  pmEthPortIndex (***)
  pmEthPortGrpIndex (***)
                                    Note: entPhysicalIndex
  pmLldpPortNumber (****)
  pmAlternateKev
                                    from the ENTITY-MIB
      May also be implemented by the Parent
(*)
      Link with the ENTITY MIB [RFC4133]
      Link with the Power over Ethernet MIB [RFC3621]
      Link with LLDP MIBs [LLDP-MIB] [LLDP-MED-MIB]
```

New UUID proposal: AUGMENT table from the ENTITY-MIB version 3



Open Issue 3: Multiple Parents in different topologies

- Two power supplies: eoPoweredBy = list of (UUID1, UUID2)
- Note: relationships are "optional"

Current Open Issues

- TentPhysicalUris is read-write. Is this ok for a UUID from an operational point of view
- Do we need eoMeteringChildrenList, eoPoweringChildrenList, eoDependentChildrenList, eoAggregatingChildrenList, eoProxyingChildrenList?

Conclusion

- Want to get consensus on the design
- Based on this design, this MIB module is slightly ahead of [EMAN-FMWK]

Note: must still check if all the requirements are covered

Thank You

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