



Energy Aware MIB

draft-ietf-eman-energy-aware-mib-02

John Parello, Benoit Claise

Charter & Abstract

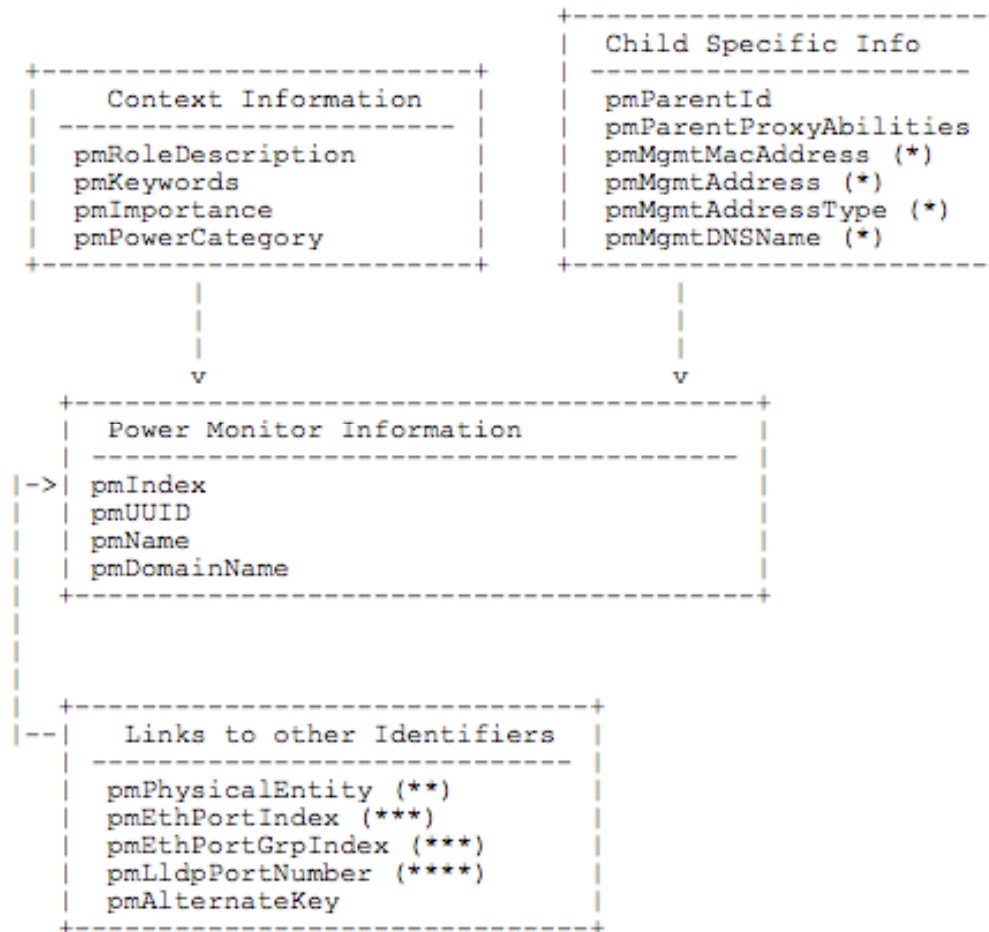
- Charter
 - “3. Energy-aware Networks and Devices MIB document The EMAN WG will develop a MIB module for monitoring energy-aware networks and devices. The module will address devices **identification**, **context** information, and potential **relationship** between reporting devices, remote devices,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

What this MIB addresses

From the Framework



Information Model



NEW: Called out alternate ids that can link to other management systems

- Open Issue: do we want a single table, or multiple ones?
 - Right now, a single table

(*) 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]

Changes in Version 02

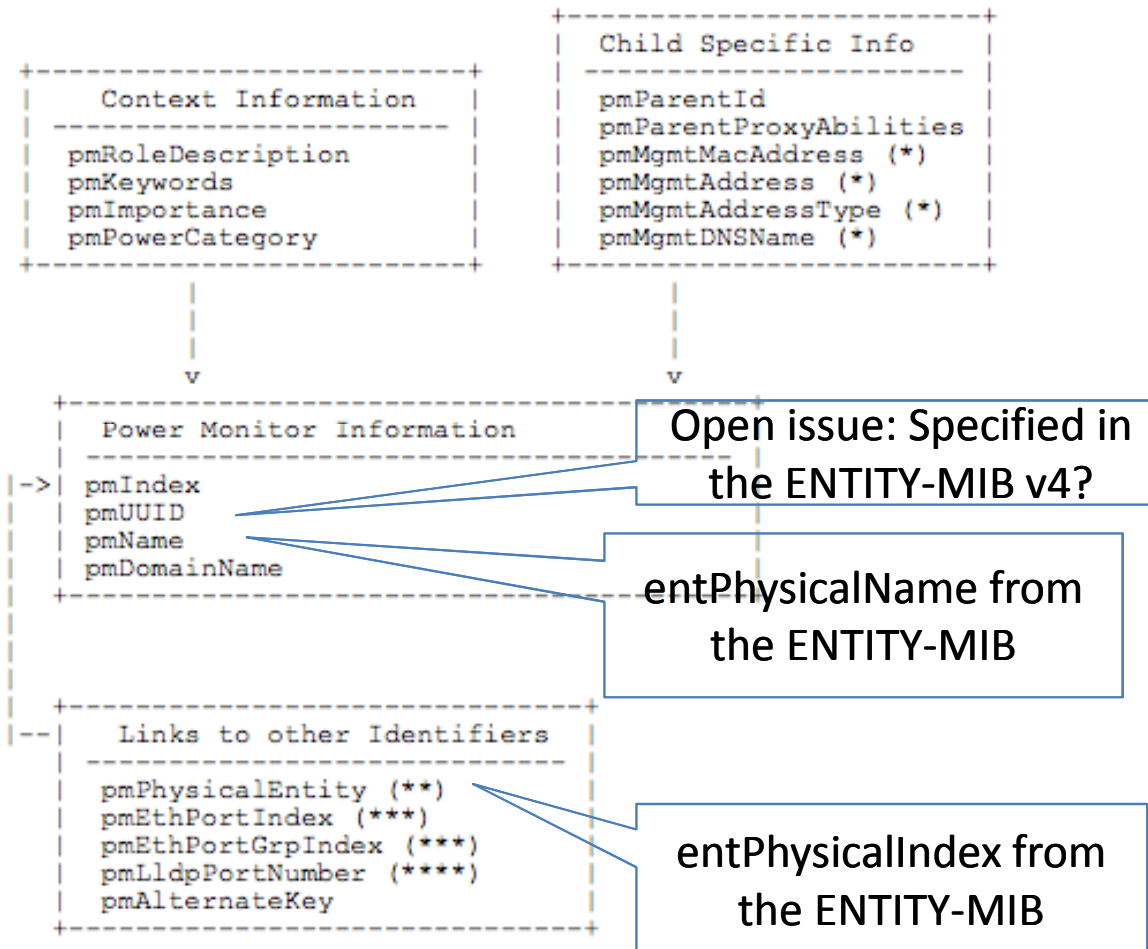
- Introduced a required UUID

At the last IETF, presentation from Jürgen Schönwälder on SNMP context and ENTITY, with the question: Should we use the SNMP context to report on Children, linking the parent/child with <SNMP context:ID>?

Next step at IETF80: document all use case

Discussion at IETF81: UUIDs for any powered devices solve the issue

Open Issues: 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]

- Open Issue: do we want to mandate the ENTITY-MIB v4, with an EMAN specific compliance statement, i.e. just a few OID?
- In other words, does it make sense to put this UUID in the generic ENTITY-MIB?

Open Issue: Multiple Parents

- How to model multiple relationships, even in the same topology?
 - Example: two “Power Source” relationships
- In the past, the assumption was one parent -> no longer true assumption

```

pmParentId OBJECT-TYPE
    SYNTAX      PowerMonitorUUID
    MAX-ACCESS  read-only
    STATUS      current
    ...
    ::= { pmEntry 18 }

pmParentProxyAbilities OBJECT-TYPE
    SYNTAX      BITS {
                none(0),
                report(1),
                configuration(2),
                wakeonlan(3)
            }
    MAX-ACCESS  read-only
    STATUS      current
    ...
    ::= { pmEntry 19 }

```

Other Open Issues

- Terminology, obviously ;-)
- UUID: for every powered device, components, battery, etc...
 - Make sure that we support everything
- Need to add guidance on role (D Prantl et al)
- How to model outlet gang? Which relationship to apply?
- Still some email threads need to be answered (Jürgen Schönwälder, Dan Romascanu)



Thank You

John Parello, Benoit Claise