EMAN Applicability Statement

draft-tychon-eman-applicability-statement-00

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Charter: Documents

1. Requirements

2. Framework.

3. Energy-aware Networks and Devices MIB

4. Power and Energy Monitoring MIB

5. Battery MIB

6. Applicability Statement
What’s Covered?

• EMAN and Use Cases
• Applicability of other related standards and technologies
EMAN & Use Cases

• The EMAN framework defines how Energy information can be retrieved, controlled and monitored from IP-enabled consumers.

• Deployment Scenarios Identified so far:
  – Communication Networks
  – Building Networks
  – Home Energy Gateways
  – Datacenters
  – Smart Power Strips
  – Any Others?
List of Other Standards / Technologies

• **IEC 61850**
  Based on the CIM model, aimed at substation monitoring. No overlap with EMAN.

• **ISO 50001**
  Defines process for Energy Management, not a way to report energy. Complementary to EMAN.

• **ANSI C12**
  Communication protocol, data and schema definition for the meter itself. Not to be used by IT people, very specific. No overlap with EMAN.

• **EnergyStar**
  The program promotes the development of energy efficient products and practices.
List of Other Standards / Technologies

• **DMTF**
  Power-state configuration and management based on CIM data model. Not using SNMP, but the data model is something we can reuse.

• **SmartGrid**
  Standards underway oriented toward energy producers and distributors and at the border with buildings, industries or homes. EMAN will enable visibility inside the buildings. Obvious opportunities to collaborate with EMAN.

• **NAESB/ASHRAE/NEMA**
  Communication between the grid and buildings to manage electrical loads and generation. Somewhat similar to EMAN, but not IT oriented. Information model might be reused.

• **ZigBee**
Feedback Received

- EMAN will be using SNMP
- EMAN is about IT management
- Standards/Technologies are not linked with their relation to EMAN. Will be done in next version.
- Acronyms/definition/reference to be worked out.
TO DO (From comments)

- Change the security section to be based on MIBs only (SNMPv3)
- More descriptive analysis of the standards/technologies
- Compare other standards/technologies with EMAN
- Review the intro section to emphasize the IT context and SNMP usage.
- Add Limitations section
- Reference to other EMAN documents, etc...
- Anything else you think should be changed?
Conclusion

• Need more feedback on draft from new group participants
• Update based upon consideration docs posted to group
• Propose considerations be incorporated as reviews of applicability statement
• Consolidate to this document