EMAN Applicability Statement

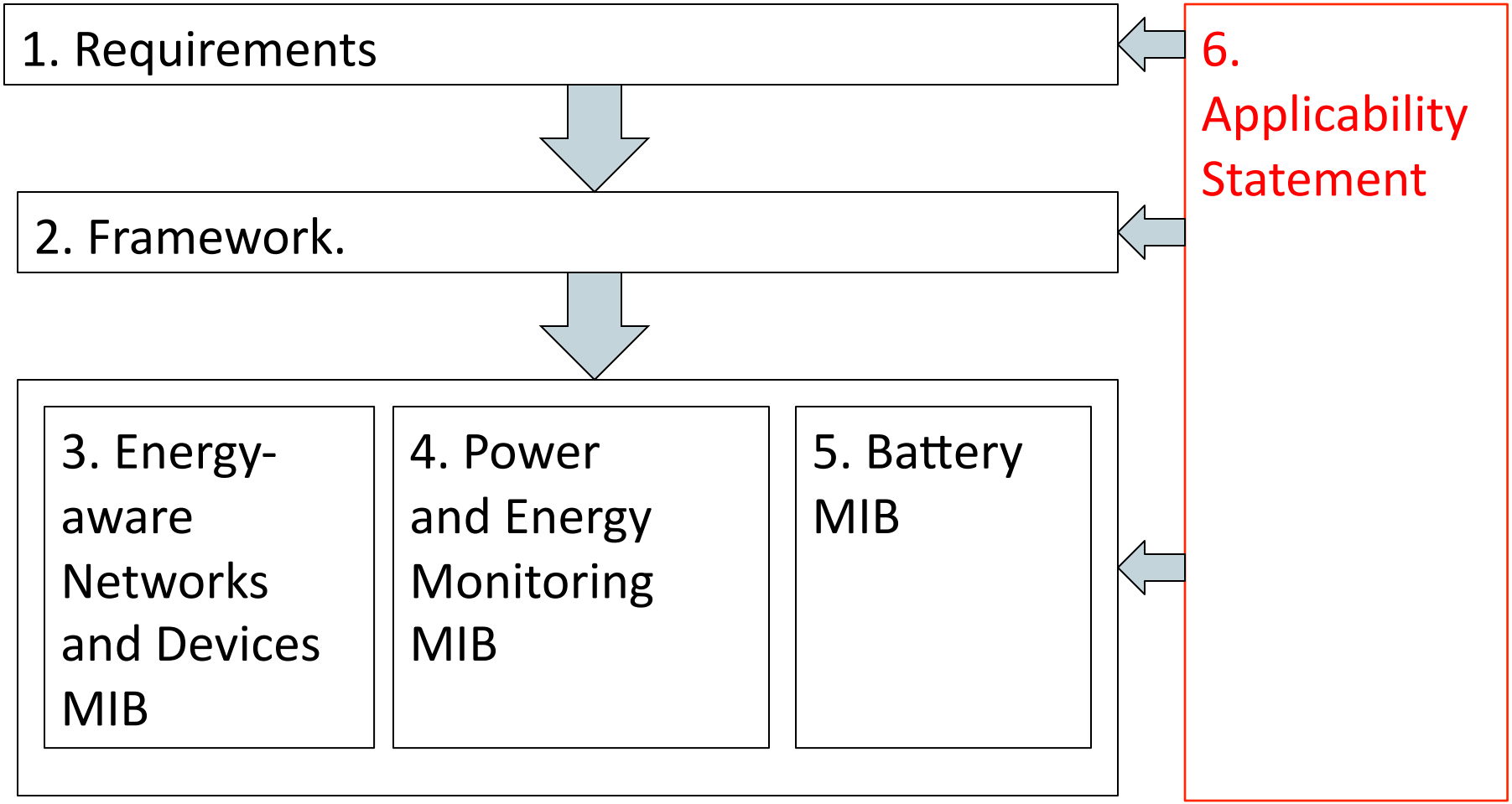
draft-tychon-eman-applicability-statement-00

Authors: E Tychon, M Laherty, B Schoening

Presenting: J Parello

79th IETF Meeting, Beijing, 2010

Charter: Documents



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 tu 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**
  Wireless communication to smart home appliances for home usage. Not a standard. Not using SNMP and not IT oriented.

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