# Energy Management (EMAN) Applicability Statement

draft-tychon-eman-applicability-statement-05

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Draft based on Working Charter

"6. The EMAN WG will develop an applicability statement, ...."

- Scope of Applicability Statement draft
  - List of use cases that EMAN should solve
    - What are the requirements needed to address those use cases?
    - MIB modules and Framework are derived from the requirements.
  - Standards that influence EMAN

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- Topics of discussion
  - What is new in version 05 ?
    - Additional use cases
    - Reorganized standards that influence EMAN
    - Consistent with terminology draft
    - Merged content with draft-nordman-eman-energyperspective-01

Open issues – feedback from the WG

- For every use case
  - Description of the network scenario
    - What are target devices ?
    - How powered?
    - Reporting mechanism

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- Use case Scenarios & Target devices
  - Network devices Routers, switches and their components
  - Devices attached to a network PoE powered devices
  - Smart Meters and PDUs
  - Proxys mid-level managers
  - Gateways to building networks
  - Home energy gateways
  - Data center devices
  - Multiple power sources
  - Energy Storage devices (battery, UPS)
  - Industrial Automation scenario (ODVA)
  - Demand Response
  - Off-Grid devices
  - Power Capping

New use cases

Thanks to Georgios

Kerry Lynn

Elwyn Davies

- Use case patterns
  - Metering
  - Metering and control
  - Power supply, metering and control
  - Multiple power sources

- EMAN <-> other Energy standards
  - 4.1. Data Model and reporting
    - IEC
    - DMTF
    - ODVA
    - ASHRAE SPC 201P
    - Ecma
    - IEEE ITSO PWG
  - 4.2. Measurement
    - ANSI-C12
    - IEC-62301
  - 4.3. Informational
    - Energy star
    - Smart Grid

- Open Issue 1
- We have a list of use cases network scenarios EMAN should solve
  - some overlap between use cases
    - should we drop some of the use cases if there is overlap
- Do we need a list of unique use cases ?
  - Use case patterns has an abstraction of the use cases
- Any use case not in scope of EMAN?
- Seeking feedback from WG

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- Open Issue -2
  - IEC Standards
    - IEC 61850 -7-4 data model for power quality/characteristics
    - IEC 61000-4-30 is useful for power quality benchmarking
    - IEC 62053-21 Energy meters, smart PDUs

• Question to the WG – any other standard to be considered?

- Open Issue -3
  - EMAN should consider
    - ASHRAE SPC-201P
      - Use cases
      - Information model
      - Should be released for public review
    - ODVA
      - Information model
      - Should be released for public review

- Next Steps
  - Trace if there are requirements for each use case
    - Use cases for requirements
      - We have requirements for Power quality/characteristics
      - Need use case for power quality

- Any other use cases that should be considered by EMAN?
  - Requirements are baselined

- Summary
  - Updated draft with additional use cases and the standards section
  - Discussed the feedback from the mailing list
  - Request the document to be a WG item