

M2M Standards Development and Applications

Ron Murias
802.16p (M2M) Chair



M2M Applications

- Secured access & surveillance
- Tracking, tracing, recovery of assets
- Public safety
- Payment systems
- Health care
- Remote management and control
- Smart metering
- Consumer devices
- Retail

Technology Focus

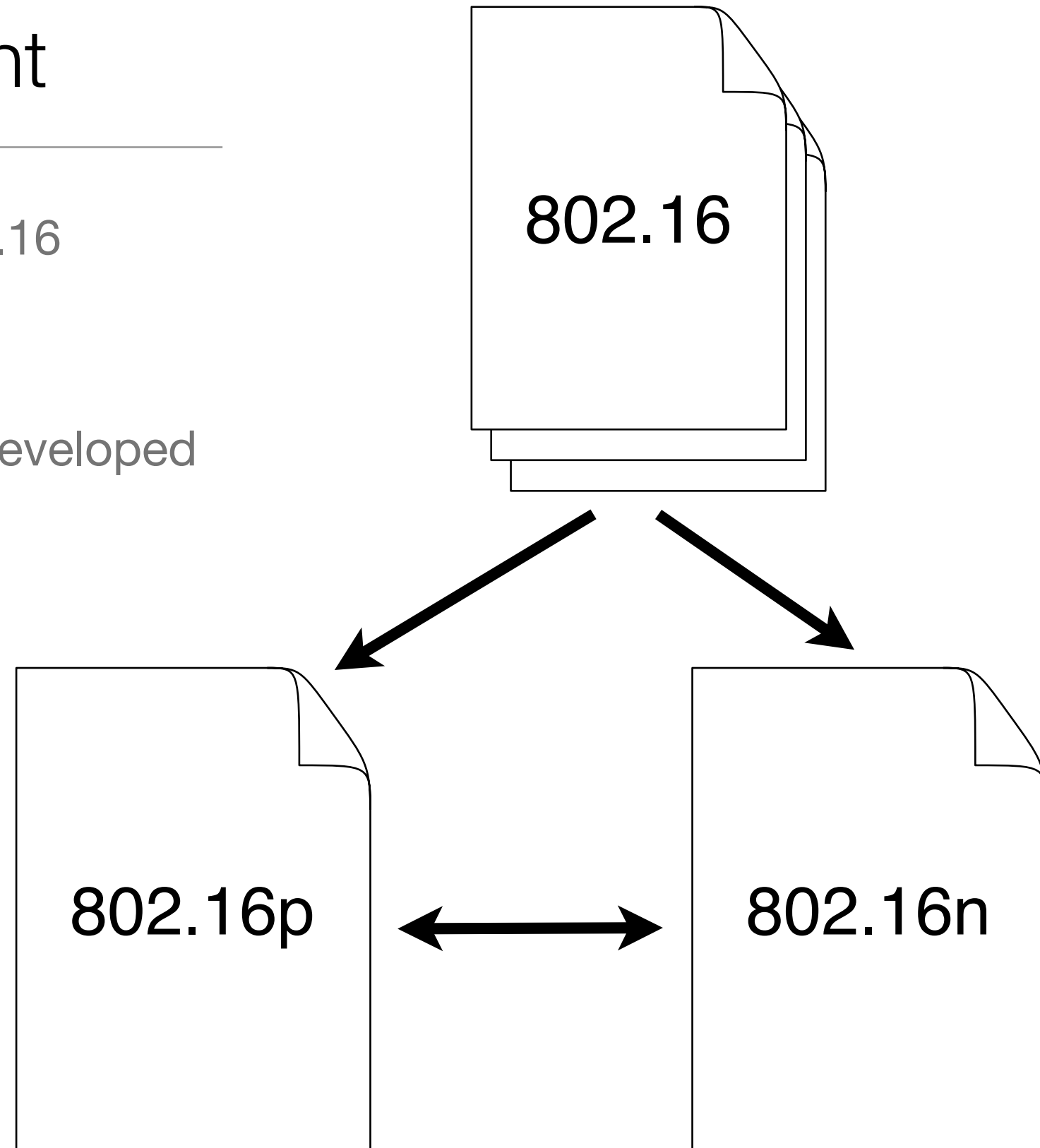
- Low power
- High reliability
- Access priority
- Large number of devices
- Security enhancements
- Tuning for small burst transmissions
- Take advantage of low or no mobility
- Time controlled operation
- One-way traffic
- Low latency
- Infrequent traffic

802.16p (M2M)

- Initial planning
 - 802.16 PPC
 - Project proposal work started Jan, 2010
 - PAR approved September 30, 2010
 - 802.16p M2M
 - First meeting as a TG November, 2010
 - 30% of 802.16 members in Dallas attended M2M meetings

M2M Document

- Amends existing 802.16 documents
- 802.16n (GridMAN) developed in parallel



Project Highlights

- Scope:

- MAC, some PHY enhancements
- Licensed bands

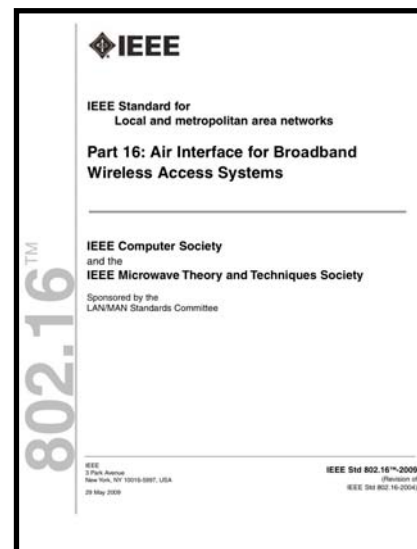
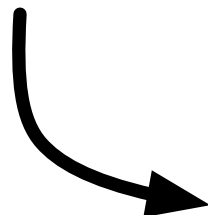
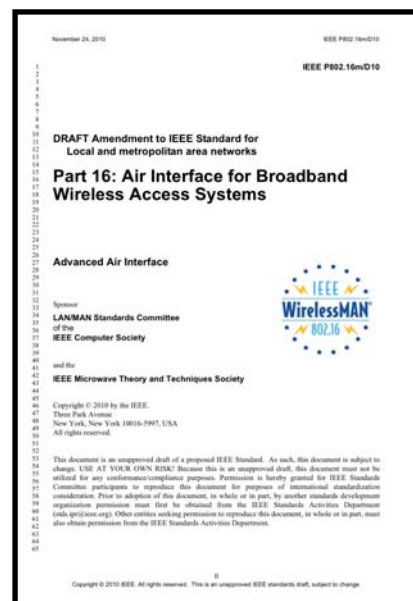
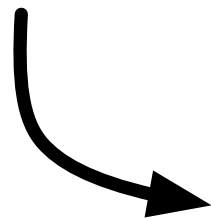
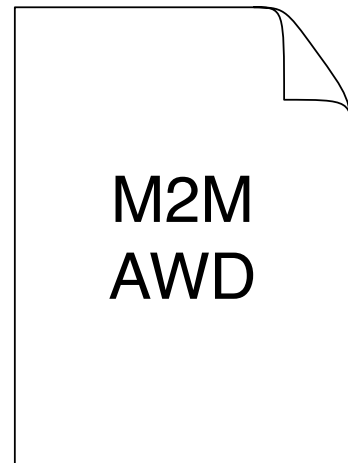
- Focus:

- Low power
- Large number of devices
- Small bursts
- Improved device authentication

Current Status

- System Requirements Document (SRD) in place, some fine tuning in progress
- Focus on the document (AWD) that will become our Amendment
- During Session 71:
 - Resolve comments on SRD (clean-up, clarification)
 - Solidify document structure for the AWD
 - Begin reviewing proposals for AWD content
 - Schedule and Work Plan updates (more detail)

Next Milestones



- Complete the AWD to a point where it is ready to begin internal Letter Ballot
 - Goal: Begin following May, 2011 meeting
- Initiate Sponsor Ballot
 - Goal: end of 2011
- Completion goal: end of 2012

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