

*Global Standards and
Successful Partnerships
-
Enablers of IoT, M2M
Services and Applications*

oneM2M steering committee meeting, July 2012

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ITU in 2012

- UN specialized agency
- 193 Member States
- 700+ industry members
- Universities, R&D
- Strong ties with other specialized agencies, industry associations, SDOs

- Standardization
- Radiocommunication
- Development



ITU, M2M and Internet of Things

- ITU-T standards laying the foundation
 - Sensor networks
 - Cloud computing
 - Access networks
 - Multimedia coding
 - QoS/QoE
 - Security
- Standards for smooth operation
 - Tariff and accounting
 - Numbering and addressing
 - Protocols and APIs
- Partnerships and coordination
 - Inter and intra SDO
 - ICT sector, verticals, academia and government organizations



ITU, M2M and Internet of Things

- Global Standards Initiative on Internet of Things / Joint Coordination Activity
 - Umbrella of IoT standards in ITU-T
 - IoT standards roadmap
 - Collaboration with SDOs and other organizations worldwide
- Approved in June 2012:
 - ITU-T Y.2060, Overview of the Internet of Things
 - ITU-T Y.2061, Requirements for support of machine-oriented communication applications in the NGN environment



Focus Group on M2M service layer

- Study requirements and specifications for a common M2M service layer
- Initial focus: M2M healthcare, APIs and protocols supporting e-health applications and services
- Deliverables will feed into ITU-T Study Group on Protocols and APIs
- Review and re-use of existing material

Focus Group on M2M service layer

- 2012:
 - 17-18 April (Geneva, ITU)
 - 26-28 June (Beijing, hosted by CCSA/CATR)
 - **29-31 August (Geneva, ITU)**
 - 13-15 November (San Jose, U.S., hosted by Cisco)
- Attracts non-members and non-ICT stakeholders
- Involvement of healthcare sector and its SDOs

ITU-T standards enabling M2M in other sectors

- Utilities and home automation
 - Networking over power lines, phone lines and coaxial cables:
 - ITU-T G.hn
 - Narrow-band PLC
 - ITU-T G.hnem
- Transportation
 - Creation of an internationally accepted, globally harmonized set of ITS communications standards
 - Use ICT to increase road safety and reduce driver distraction



ITU-T standards enabling M2M in other sectors

- Digital signage / DOOH
- ICT for smart water management (workshop in Egypt, September 2012)
- ICT for disaster relief and resilience (new Focus Group)
- Using undersea telecommunications cables to monitor ocean floors and the climate (taskforce with UNESCO/IOC and WMO)
- ...



Concluding thoughts

- Not all M2M related work done at ITU is branded with M2M logo
- FG M2M successfully launched, initially exploring healthcare apps - a niche but important market sector
- Increase in partnerships, industry and standards collaboration
- Cross-sectoral impact of ICT and standards will be major topic later this year, at Global Standards Symposium and WTSA, November, Dubai



Thank you!



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