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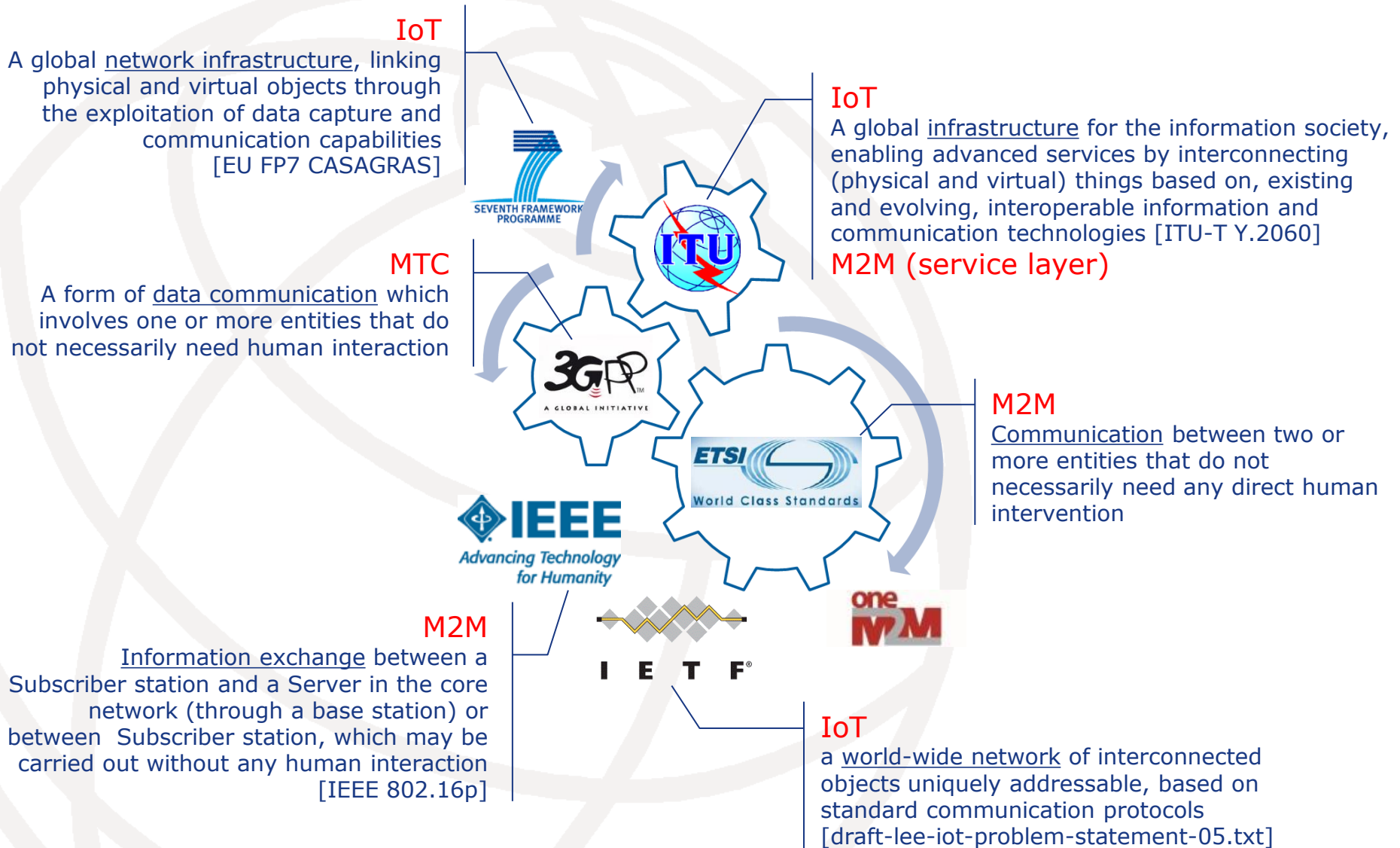
**Committee URL:** <http://isotc.iso.org/livelink/livelink/open/jtc1swg5>

ISO/IEC JTC 1/SWG 5  
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# M2M/IoT Standardization in ITU-T

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# M2M/IoT Definitions



# M2M/IoT-related entities in ITU-T

## Joint Coordination Activity on Internet of Things (2011.3 ~)

- 30 participating entities: All ITU-T SGs, ITU-R WP1A, WP1B, WP5A, ISO TC 122/104 JWG, 204, ISO/IEC JTC 1 SC 6, 31, WG 7, ETSI, CEN, OMA, GS1/EPC global, YRP, ECMA, GSIFI, TIA, GSM MSTF, OGC
- Working deliverable: IoT Standards Roadmap

### IoT Standards Roadmap

- On-going and published work on IoT in other SDOs and ITU
- Open to public ([free download](#))

other SDOs

coordination

JCA-IoT

coordination

SG 2

...

...

SG 11

...

...

SG 17

WPs

WPs

WPs

Qs

Qs

Qs

other SDOs

participation

FG M2M

### Focus Group on M2M service layer

(2012.1 ~ 2013.4)

- [Needs to be extended](#)

TSAG

report

report

IoT-GSI

participation

### IoT work plan

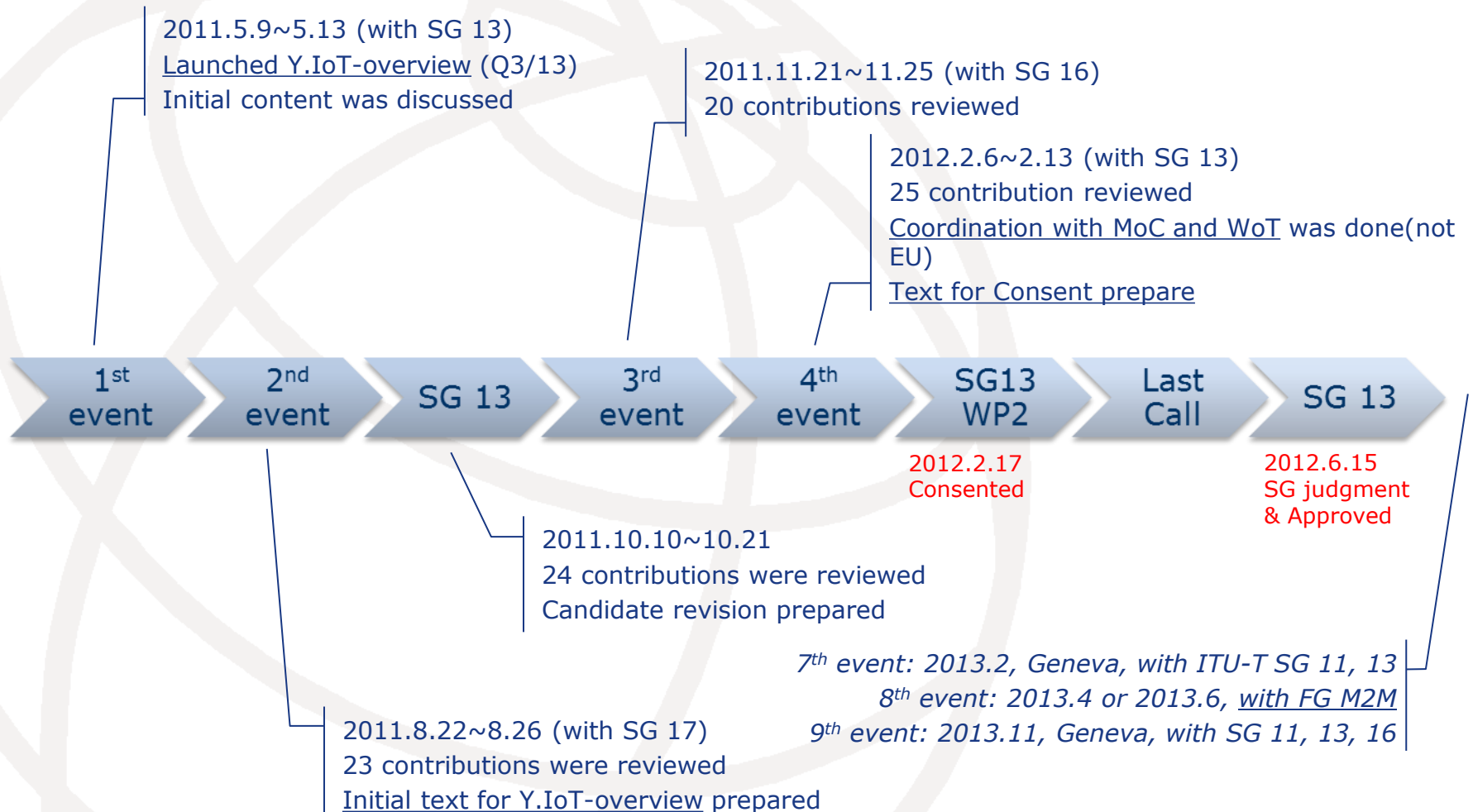
- On-going and planned work on IoT within ITU-T

### Internet of Things Global Standards Initiative (2011.5 ~)

- Core Questions: Q1/3, Q12/11, Q3/13, Q4/13, Q5/13, Q7/13, Q12/13, Q16/13, Q25/13, Q21/16, Q22/16, Q25/16, Q6/17
- Additional Questions: 16 Qs

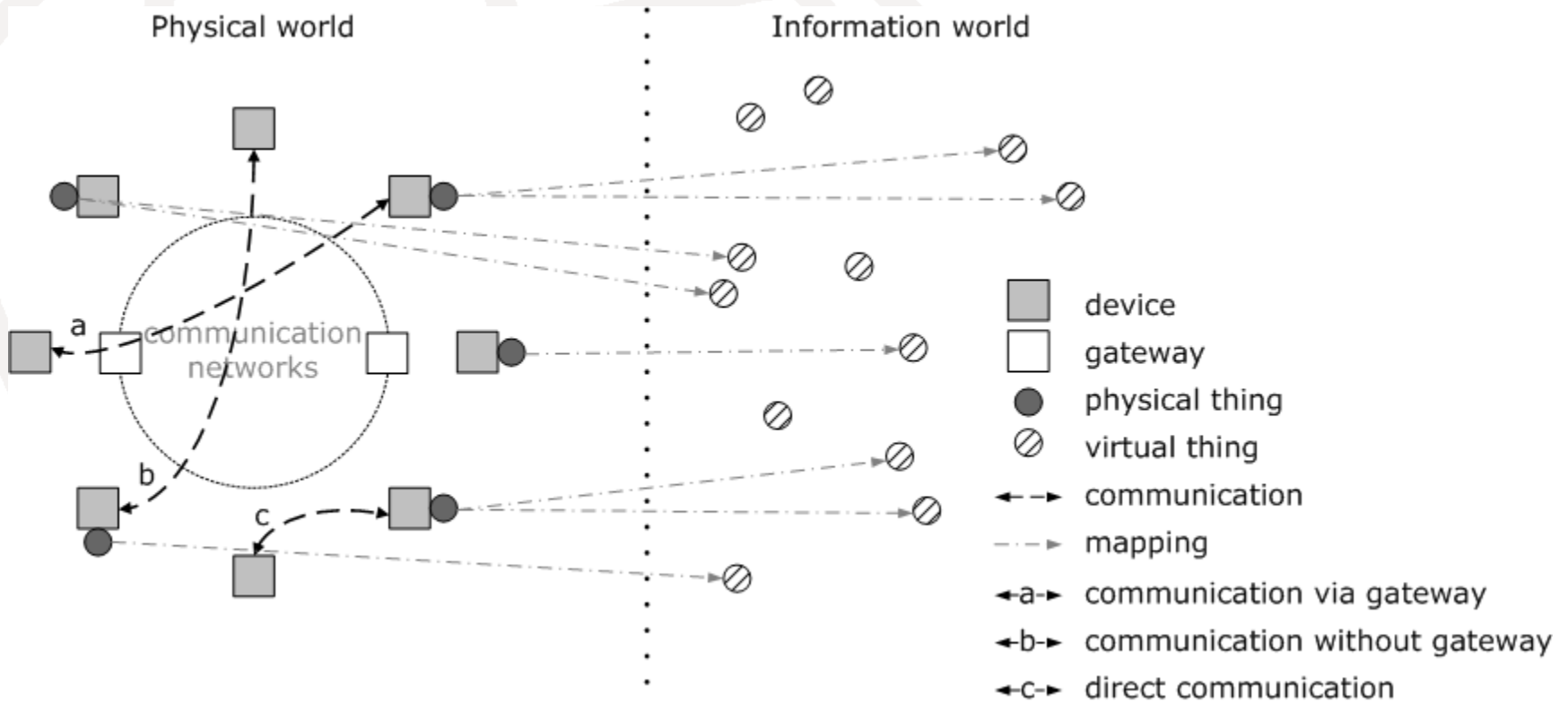
ITU-T

# Development of ITU-T Y.2060



# IoT in ITU-T Y.2060 (1/3)

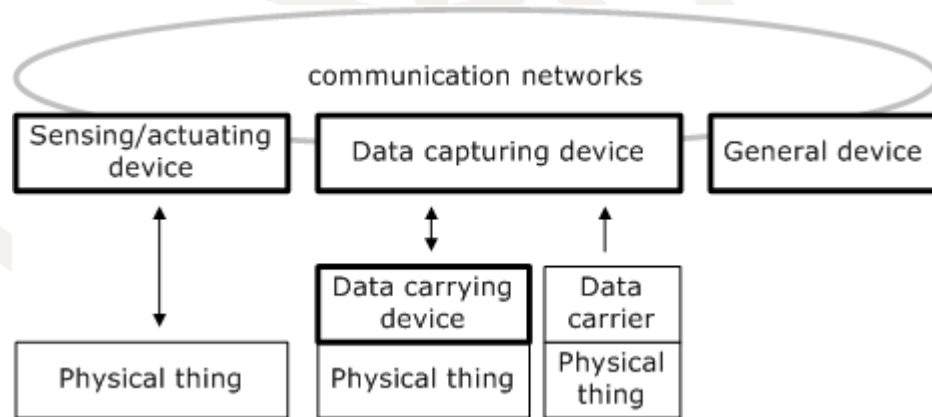
- Technical overview



Source: ITU-T Y.2060, 2012

# IoT in ITU-T Y.2060 (2/3)

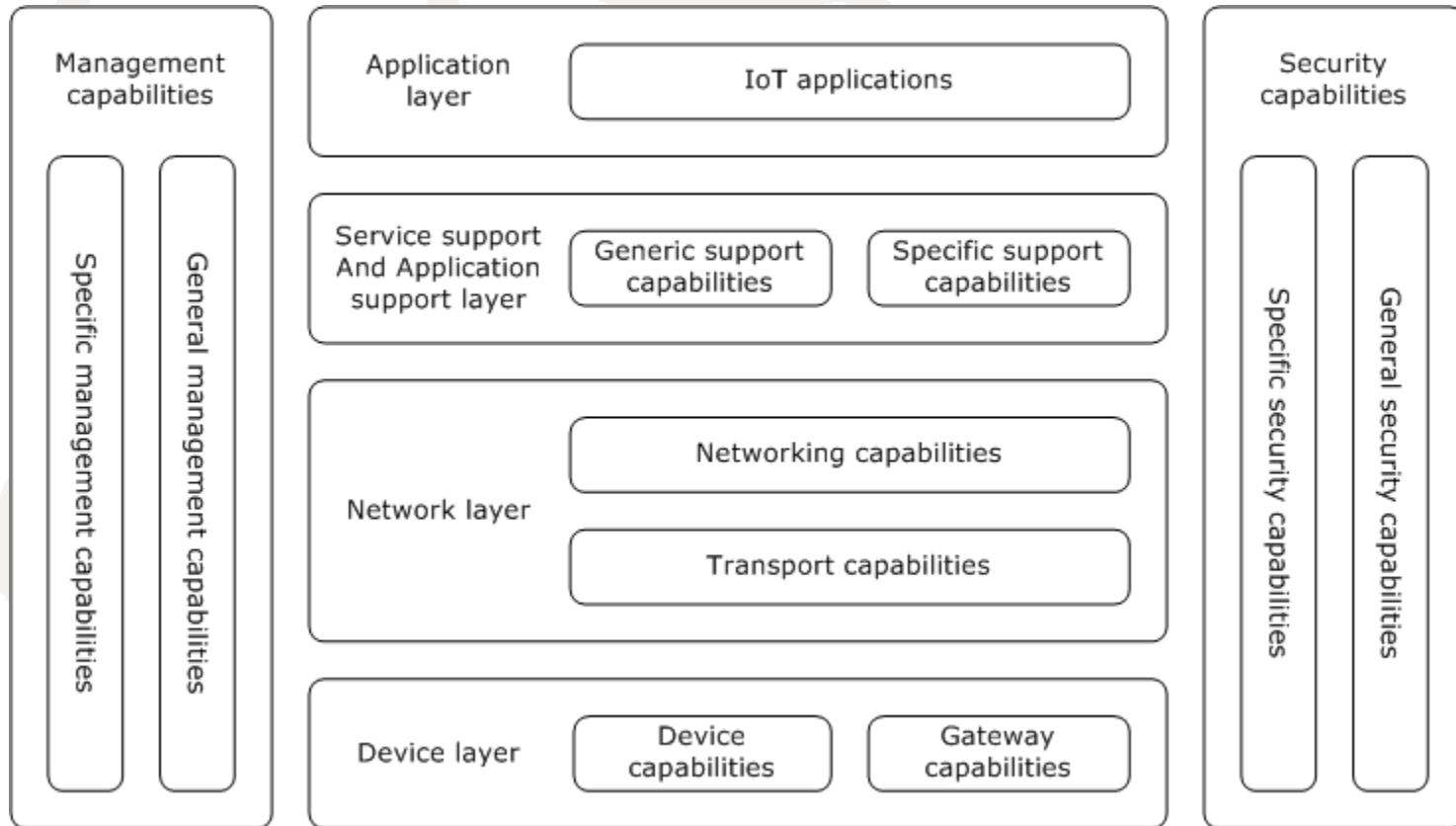
- Types of devices and relation with physical things



Source: ITU-T Y.2060, 2012

# IoT in ITU-T Y.2060 (3/3)

- Reference model



Source: ITU-T Y.2060, 2012



# Current on-going works in ITU-T

- Study Group 13

(Responsible for studies relating to network aspects of IoT)

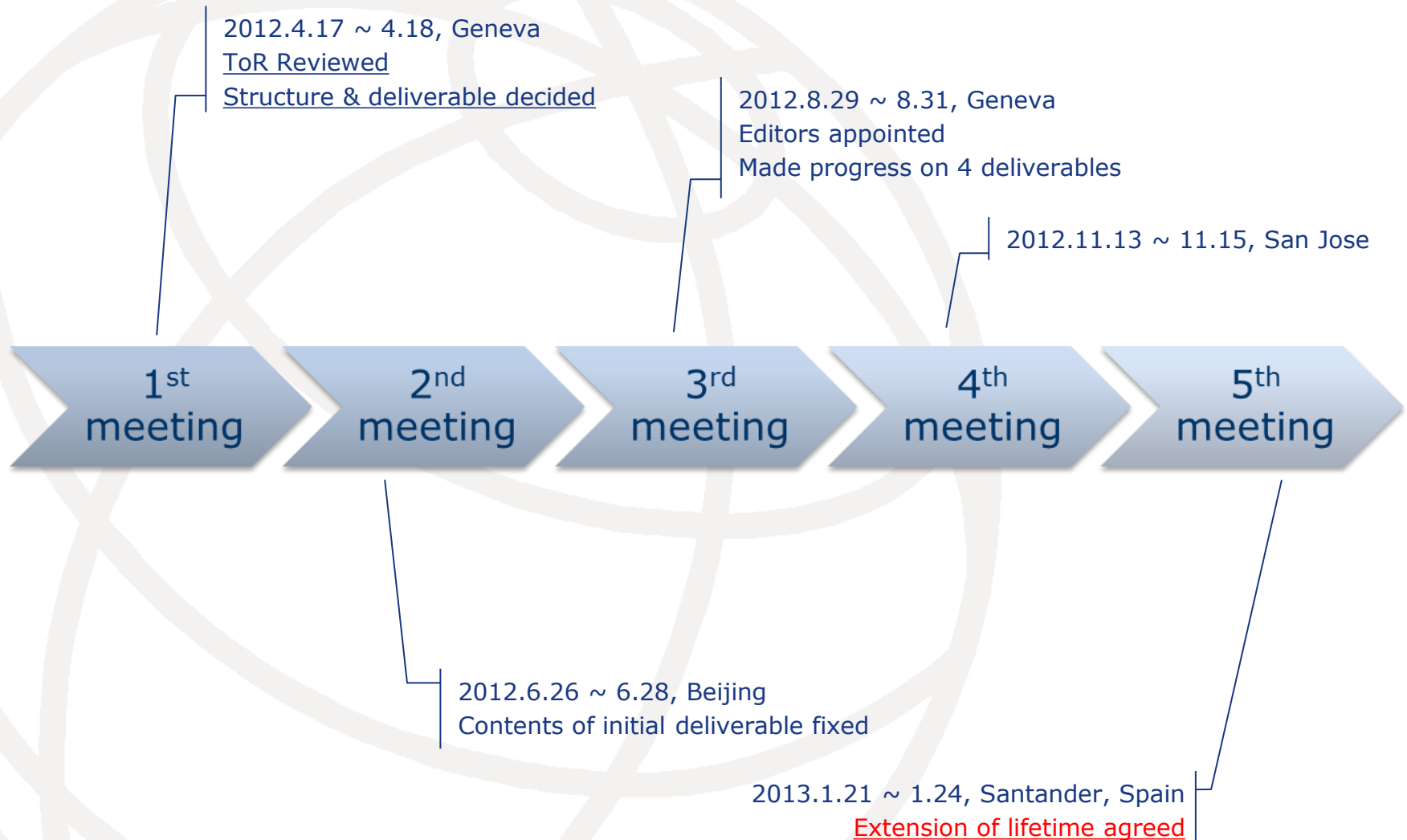
- Y.IoT-common-reqts, *Common requirements of Internet of Things* (Target date: 2013.12)
- Y.gw-IoT-reqts, *Common requirements and capabilities of gateway for IoT applications* (Target date: 2013.2)

- Study Group 16

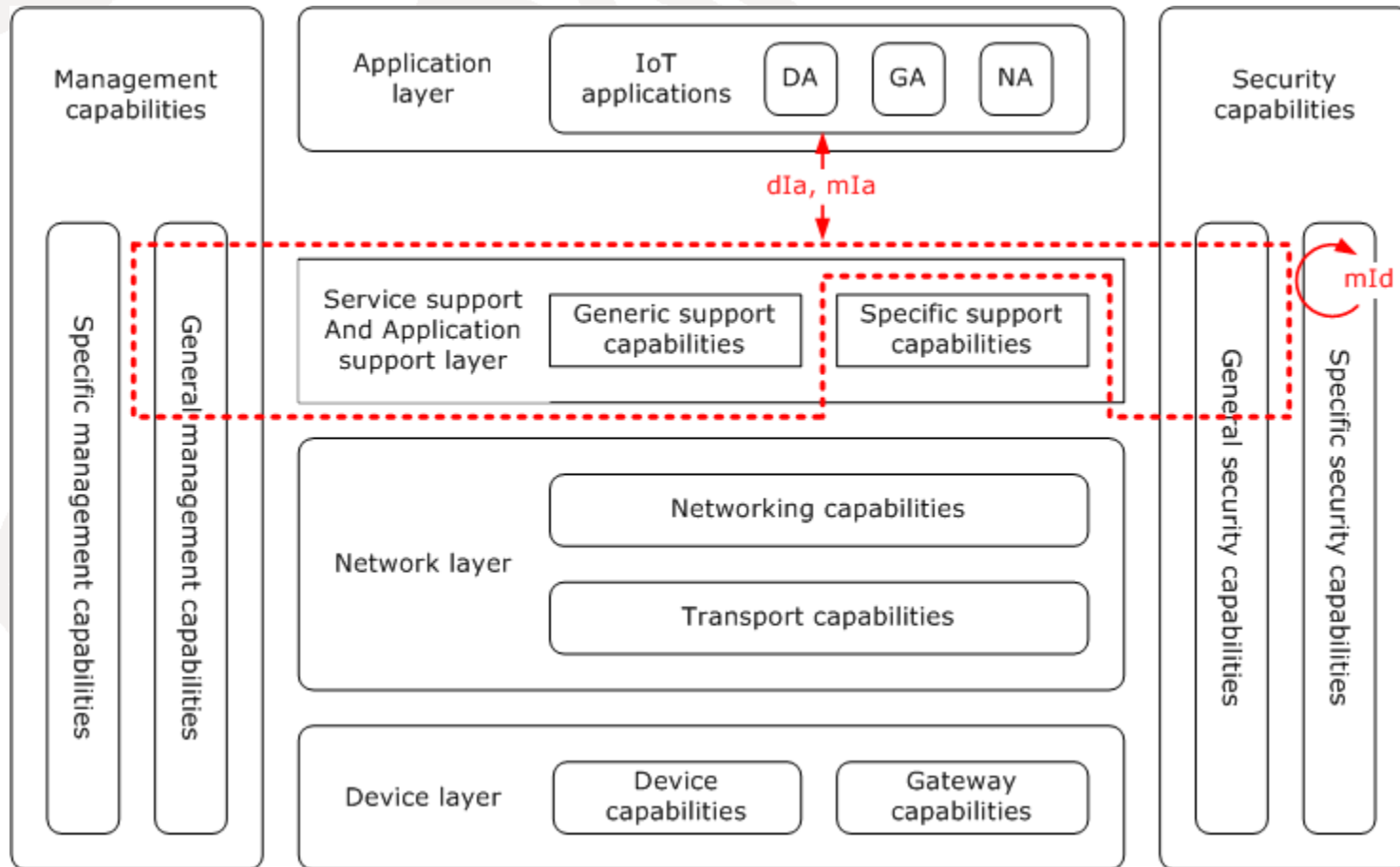
(Lead group for IoT applications)

- H.IoT-ID, *Requirements and common characteristics of IoT identifier for IoT service* (Target date: 2014)
- H.IoT-reqs, *Common requirements for the Internet of Things (IoT) applications* (Target date: 2014)

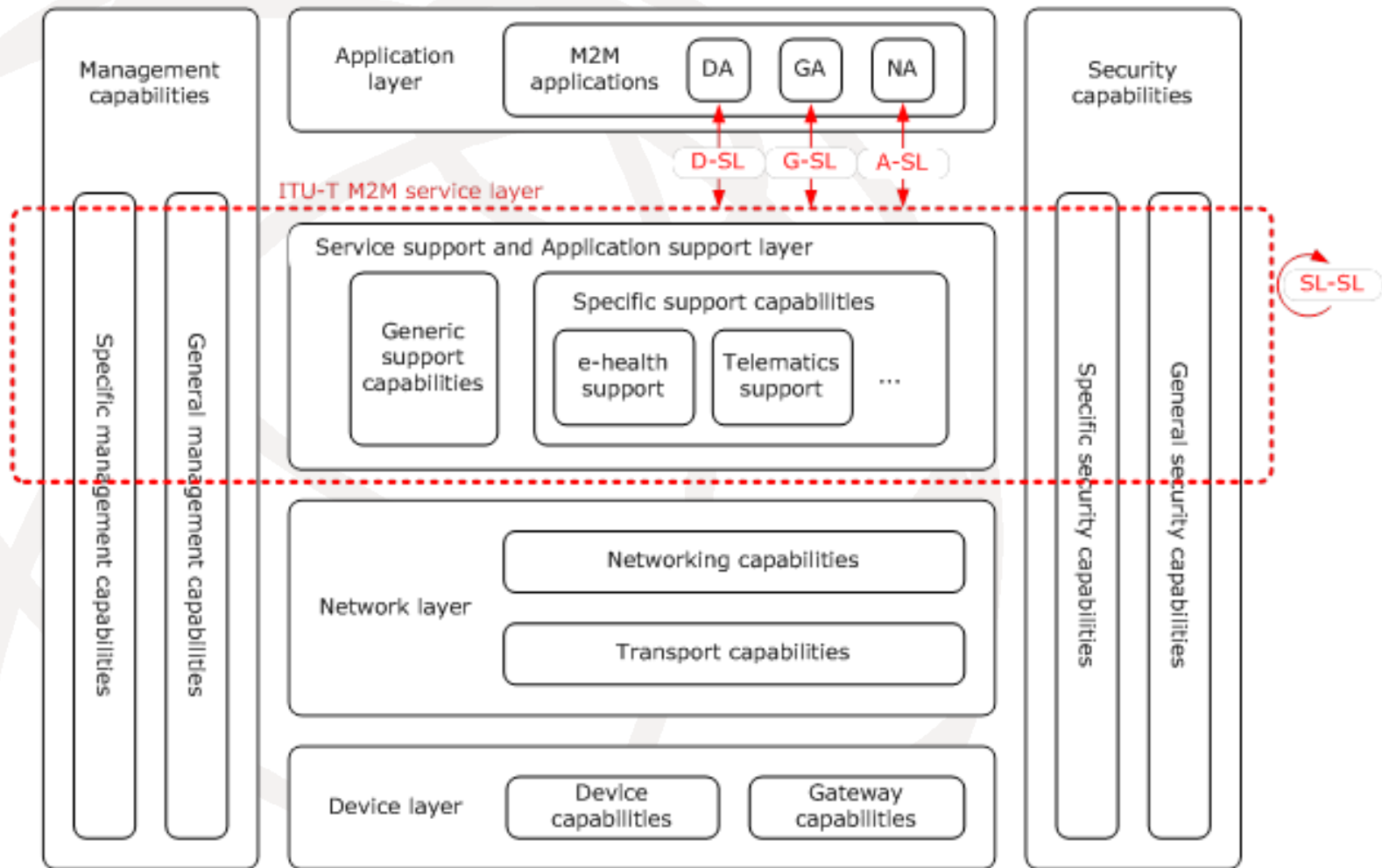
# FG M2M activities



# IoT vs. ETSI M2M SCLs



# IoT vs. M2M service layer in FG



# FG M2M structure and deliverables

- WG1: Use cases and service models
  - (D1.1) M2M use cases: e-health
- WG2: Requirements and architectural framework of the M2M Service Layer
  - (D2.1) M2M service layer: requirements and architectural framework
- WG3: API and protocols (activated on Jan. 2013)
  - Framework of M2M APIs and protocols
  - M2M APIs and protocols for specific interfaces
- Cross WGs deliverables
  - (D0.1) M2M standardization activities and gap analysis: e-health
  - (D0.2) M2M enabled ecosystems: e-health

# Further information

- **JCA-IoT**  
<http://www.itu.int/en/ITU-T/jca/iot/Pages/default.aspx>
  - Convener: Mr. Hyoung Jun KIM ([khj@etri.re.kr](mailto:khj@etri.re.kr))
- **IoT-GSI**  
<http://www.itu.int/en/ITU-T/gsi/iot/Pages/default.aspx>
  - TSR Coordinator: Mr. Heyuan Xu ([xuheyuan@catr.cn](mailto:xuheyuan@catr.cn))
- **FG M2M**  
<http://www.itu.int/en/ITU-T/focusgroups/m2m/Pages/default.aspx>
  - Chairman: Mr. Heyuan Xu ([xuheyuan@catr.cn](mailto:xuheyuan@catr.cn))



**Thank you for your attention.**

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