

6TSCH

ORLANDO 86th IETF

IEEE802.15.4e TSCH

Status:

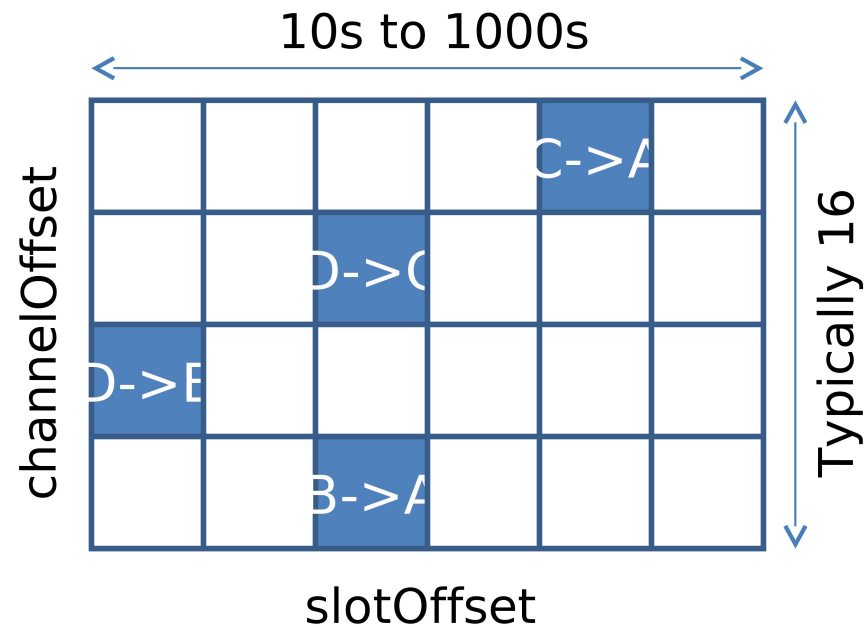
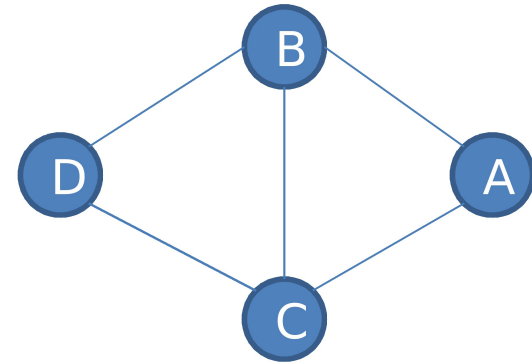
- MAC-only amendment to IEEE802.15.4-2011
- Published April 2012
- Ideas similar to ISA100.11a and WirelessHART
- Enables deterministic communication

TSCH:

- Time Synchronization
 - low-power consumption
- Channel Hopping
 - reliability

Schedule:

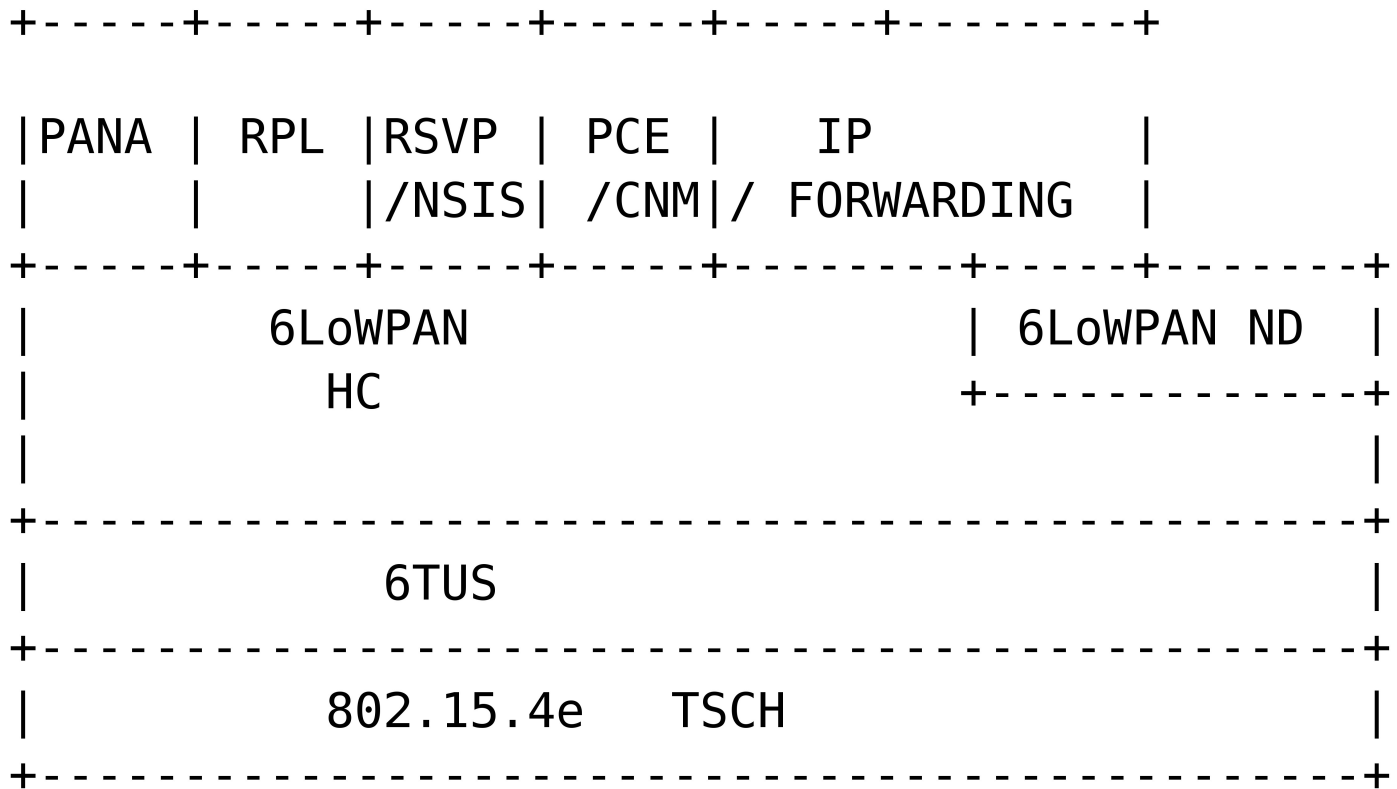
- clear trade-off between bandwidth, redundancy, latency and power consumption.



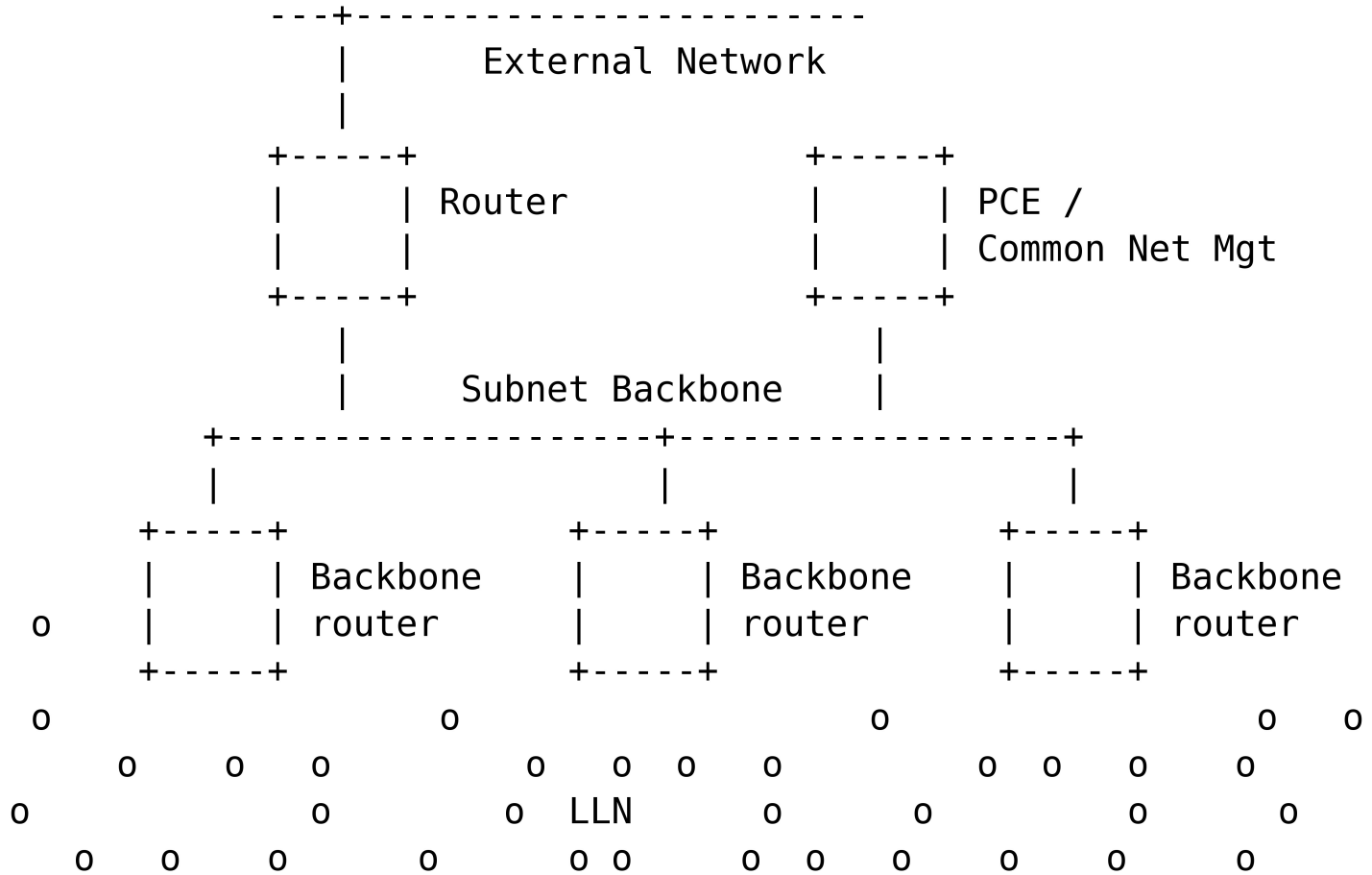
6TSCH (sixtus) IETF ML

- IPv6 access and routing over deterministic (Time Synchronized Channel Hopping) MAC
- Mix of centralized and distributed routing
- Put together architecture binding existing standards (RPL, 6LoWPAN, PANA, COMAN, ForCES/OpenFlow, NSIS/RSVP, diffserv) over 802.15.4e TSCH

Blocks



Scope



Tuesday Caribbean 2 -> 12:45

- Define scope and problem
 - Backbone + PCE + TSCH/RPL/6LoWPAN WSN
 - draft-phinney-roll-rpl-industrial-applicability
- Define goals and deliverables
 - Info: LLN context, Architecture, Terminology
 - New: 6TUS, Management protocols, track reservation
 - Adapt: 6TSCH RPL OF, fragment forwarding
 - Extern: Backbone Router PCE COMAN

Wednesday Boca 2 ->13:00

- draft-phinney-roll-rpl-industrial-applicability
- draft-palattella-6tsch-terminology
- draft-watteyne-6tsch-tsch-lln-context
- draft-wang-6tsch-6tus
- draft-thubert-6tsch-architecture
- List todos

Questions?