

IETF, IEEE & 5G

*Suresh Krishnan, Ericsson
Internet Area Director, IETF*

Goals

- 5G related work and requirements are happening in a lot of venues
 - Difficult to co-ordinate, and to ascertain what will end up in 5G
- Try to minimize surprises
 - Identify potential requirements on Internet protocols at an early stage
 - Ensure that extensions/modifications on Internet protocols happens in the IETF
- Setup some form of loose co-ordination mechanism for regular sync-ups
 - Get other organizations working on 5G involved (e.g. 3GPP,...)
 - Setup a mailing list as first step?

Working groups of potential interest to IEEE

- Lower layer WGs
 - intarea: Generic IP over wireless related work
 - dmm: Distributed mobility management work
 - detnet: Deterministic networking – working closely with 802.1 TSN
 - Ipwlan: Low-power Wireless Access Networks
 - ipwave: IP in vehicular networks
 - 6lo: IP over resource constrained nodes
 - 6tisch: specifically for TSCH mode of IEEE 802.15.4e
 - ntp/tictoc: Timing related work for NTP and PTP

Related efforts

- Upper layer efforts
 - Transport layer - quic, plus, tcpinc
 - Research groups – information centric networking, network function virtualization, thing-to-thing