



ITU-T Workshop on the evolution of the transport networks to support IMT-2020/5G

Geneva, 16 October 2017

Workshop agenda

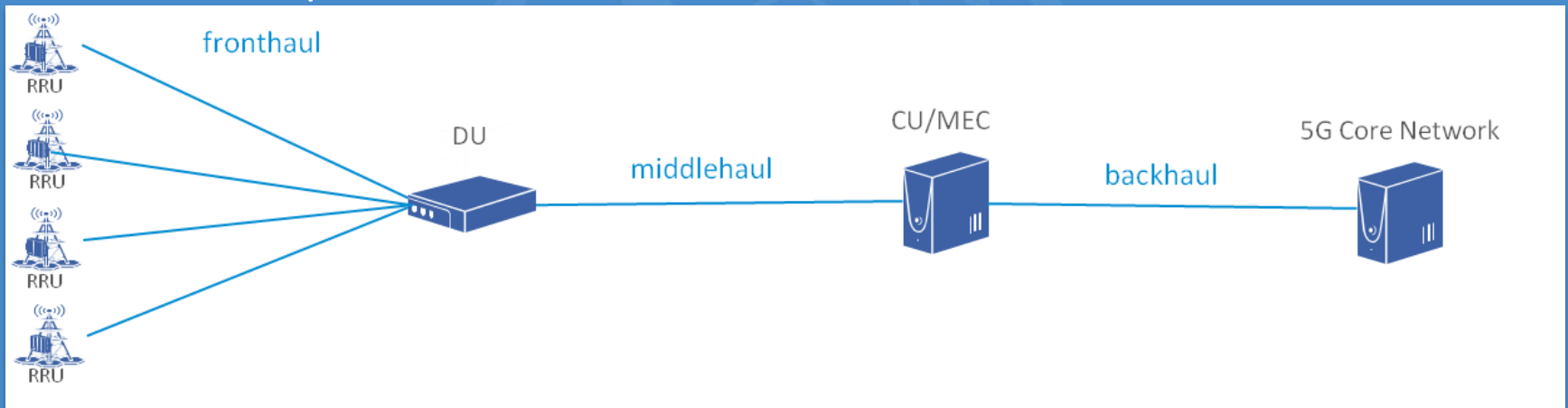
- Introduction
 - Stephen (Steve) Trowbridge
 - Chairman SG15 and workshop moderator
- Liaisons – 3GPP; IEEE802.1cm
- Presentations from Network Operators:
 - Kent G. MCCAMMON (AT&T)
 - Han LI (China Mobile)
 - Ruiqian (Rick) JING (China Telecom)
 - Richard Mackenzie (BT)
 - Noboru YOSHIKANE (KDDI)
 - Ruud van de BOVENKAMP (KPN)
- Panel discussion

SG15 overview

- WP1/15 Transport aspects of access, home and smart grid networks
- WP2/15 Optical technologies and physical infrastructures
- WP3/15 Transport network characteristics
 - Interfaces, OAM and equipment for OTN and packet-based transport networks
 - Protection/restoration
 - Network synchronization
 - Management and control
- Further details on the SG15 home page
<https://www.itu.int/en/ITU-T/studygroups/2017-2020/15/Pages/default.aspx>

Workshop background

- IMT-2020/5G is predicted to be one of the major drivers for network expansion.
 - The requirements are not well understood in SG15



- Is this view correct?
- What are the requirements for the transport network to support the fronthaul; middlehaul and backhaul segments?
- These requirements may result in the selection of different transport technologies

SG15 current work program on IMT-2020/5G

- WP3/15, has started work on a Technical Report, TRGS-TN5G, on “Transport network support of IMT-2020/5G”
 - This will provide a reference models, deployment scenarios and requirements for a transport network to support each of the:
 - Fronthaul
 - Middlehaul
 - Backhaul networks
 - Requirements will include:
 - Topology, capacity, latency, synchronization, network slicing, control/management interfaces,
- WP1/15 has started work on a supplement
 - 5G Wireless Fronthaul Requirements in a PON Context

Plan for TRGS-TN5G

- Informative document to provide guidance to the development of the appropriate new Recommendations or revisions to or amendments of existing Recommendations to support IMT-2020/5G requirements
- Tentative time frame
 - February 2018
 - First version of TRGS-TN5G
 - Focus on “physical” aspects (capacity, reach etc.)
 - New work items initiated on normative Recommendations
 - October 2018
 - Update of TR-TN5G
 - Add further details on control/management; synchronization
 - Other updates as required
 - New work items if required

Workshop objective

- Understand Mobile Network Operator requirements for Transport Network support of IMT-2020/5G so that SG15 can develop the appropriate Recommendations

