



- Opening Remarks -

ITU Workshop on **“Control plane of IMT-2020 and emerging networks. Current issues and the way forward”**

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Objectives

The importance of signaling protocols with regards to interoperability of 5G-based devices

Current issues and ITU-T progress on signalling protocols (e.g. emerging networks, 5G, network interconnection)

Overview of activities of other SDOs on 5G protocols

Worldwide practices on the implementation of 5G/IMT-2020 networks and emerging networks

New directions on standardization of 5G control plane and emerging networks

Current work items of SG11 related to 5G technologies

(the list does not contain all ongoing work items)

Work item	Q	Timing	Liaison relationship	Subject / Title
Q.rrp	Q8/11	2017-11	ITU-T SG13	Request routing protocol for content delivery
X.mp2p-mssr	Q8/11	2017-07	ITU-T SG13, SG16, SG17, ISO/IEC JTC1/SC6	Managed P2P communications: Multimedia streaming signalling requirements
X.mp2p-mspp	Q8/11	2017-11	ITU-T SG 13, ISO/IEC JTC1/SC6	Managed P2P communications: Multimedia streaming peer protocol
X.mp2p-msomp	Q8/11	2017-11	ITU-T SG 13, SG 16, SG 17, ISO/IEC JTC1/SC6	Managed P2P communications: Multimedia streaming overlay management protocol
Q. NEA-REQ	Q7/11	2018-12	SG13, ETSI	Signalling Requirements of NFV Entity Management for Network Attachment
Q.SAN-MIM	Q7/11	2017-11	SG13, JCA-SDN, IEEE 802.21	Signalling requirements of SDN-based access networks with media independent management capabilities
Q.BNG-CFS	Q5/11	2019-07		Signalling requirements for control and forwarding plane separation in vBNG
Q.BNG-DBoD	Q5/11	2017-11	SG13, JCA-SDN	Signalling requirements for dynamic bandwidth adjustment on broadband network gateway implemented by SDN technologies
Q.BNG-IAP	Q5/11	2018-12		Signalling requirements of IP address pool based on broadband network gateway by SDN technologies
Q.SCO	Q4/11	2017-07	SG13, JCA-SDN	Scenarios and signalling requirements for SDN based Central Office
Q.SD-WAN	Q4/11	2019-03	ONUG, SG13	Signalling Requirement for SD-WAN service
Q.SMO	Q4/11	2018	SG13, JCA-SDN	Signalling requirements of Software-defined Metro Orchestration
Q.SVDC	Q4/11	2018-12	SG13, JCA-SDN	Signalling requirements of the Sew interface for Virtual Data Center

Current work items of SG11 related to emerging networks (e.g. VoLTE/ViLTE) and legacy networks (SS7)

(the list does not contain all ongoing work items)

VoLTE/ViLTE

- Framework of interconnection of VoLTE/ViLTE-based networks
- Signalling requirements for interconnection between VoLTE-based network and other networks supporting emergency telecommunications service (ETS)
- VoLTE/ViLTE interconnection testing for interworking and roaming scenarios including relevant QoS/QoE testing

SS7

Q.731.3: Description for number identification supplementary services using signaling system no.7

The way forward



As 5G control plane based on the flat network architecture, SG11 needs to focus on network slice signalling procedures and protocols to be used for 5G/IMT-2020 interconnection and interworking with legacy networks

New signaling issues to study in SG11



Signalling requirements for VoLTE networks

New signaling protocols based on authentication of the signalling messages/commands (question of trust)

New protocols to be used in 5G/IMT-2020 networks

Signalling requirements for services and applications of 5G/IMT-2020 networks

Interoperability in 5G/IMT-2020 networks

Workshop Structure



The workshop is divided in three sessions:

Session 1

Activities in control plane of emerging networks from ITU and other SDOs

Session 2

Worldwide practices and perspectives on future networks

Session 3

Control Plane of 5G/IMT-2020, including brainstorming





16 Speakers & Presentations



Including:
SDOs
Operators
Vendors
Testing laboratories
Academia

Speakers representing:



SPbSUT



ITU-T SG11 & 13



MEF



A1 Telekom Austria



LJMU (UK)

**National Telecommunication
Corporation (Sudan)**

**I wish you a
very successful
Workshop!**