Workshop on
"Control plane of IMT-2020 and emerging networks. Current issues and the way forward"

Geneva, Switzerland, 15 November 2017

Takeaways and Conclusions

1. It is important to develop related protocols for control plane of IMT-2020 and emerging networks dedicated to different scenarios, using SDN, NFV, and network slicing as the fundamental supporting technologies.

2. The impacts of 5G service and architecture on the IMS need to be identified.

Suggestions to ITU-T SG11

❑ Establish collaboration with open source communities to speed up the de facto standards.

❑ Continue to coordinate with the related SDOs (3GPP, ETSI, MEF, etc.) to develop the specs and promote the testing in 5G, network slicing, hybrid network, QoE, QoS, etc.

Session 2: Worldwide practices and perspectives on future networks

Takeaways and Conclusions

1. Operators, vendors and testing laboratories presented their practice and perspectives on SDN/NFV related emerging technologies and provided very valuable experiences.

2. Research works on new emerging technologies such as IoT IMS, AI, ICN, Fog/Edge Computing, etc. were introduced. Some applicable suggestions about standardization were made accordingly.

Suggestions to ITU-T SG11

❑ Encourage members who have gained fruitful experiences through emerging network practice to submit contributions to promote the SDN/NFV-related testing standardization work in SG11.

❑ Encourage members to initiate possible work items, which are related to new emerging technologies, such as IoT IMS signaling, Fog/Edge Computing, etc.

Takeaways and Conclusions

Important standardization Issues for Control Plane of IMT-2020 network.

- ✓ Network softwarization and related technologies for IMT-2020 networks: Network slicing, Orchestration and management, QoS control, Session management, etc.;
- ✓ Interconnection and Interworking with legacy networks;
- ✓ Testing 5G/IMT-2020;
- ✓ Intelligent operation of IMT-2020 network with Machine;
- ✓ Learning technology.

Close collaboration is essential with related Entities:

- ✓ Other SGs in ITU-T;
- ✓ External entities including 3GPP, ETSI;
- ✓ Open Source Communities.

How to collaborate to achieve a practical results?