

From virtualization to cloud native: cloud computing for the Telco and coordination with ETSI NFV

Geneva, 17 July 2025



Session 1: Standardization perspectives from ITU-T SG13 and ETSI NFV ISG

Takeaways and Conclusions

1. ITU-T SG13 shared its cloud management and NFV-related standardization work (Y.3520, Y.3525, Y.2320 series, etc.) as well as Computing Power Network (CPN) were introduced as a future direction of network evolution
2. ETSI NFV presented Introduction to ETSI ISG NFV and release planning and NFV evolution toward Release 6 with cloud-native and automation focus
3. It is needed to provide the consistency among the standards of cloud computing in ETSI NFV and SG13

Suggestions to SG13

SG13 should deepen coordination with ETSI NFV technical groups to harmonize ongoing work on cloud-native orchestration, NFV-MANO architecture, and computing-network convergence. In line with clause 4.3 of the MoU between ITU and ETSI, SG13 should continue the collaboration with ETSI for technical aspects where feasible, especially in areas overlapping with ETSI NFV Release 5 and 6.

Focus on the latest developments and ongoing activities



Session 2: Industrial perspectives and practices on cloud and NFV coordination

Takeaways and Conclusions

- **NFV presented the NFV approach for Automation, Energy efficiency and Physical Infrastructure management**
- **OpenInfra Foundation shared the latest progress of its major open source projects for infrastructrue, its ecosystem and evolution, and its successful experience and further plan on network.**

Suggestions to SG13

- Continue the exchange of information for specific technical matters through Liaison activities
- Focus on the latest developments and ongoing activities
- Keep exchanging mutual progress with OpenInfra Foundation in order to explore the potential collaboration between standardization and open source solutions on computing infrastructure (in line with WTSA Resolution 90)



Takeaways and Conclusions

1. Participants agreed that close and sustained collaboration between ITU-T SG13 and ETSI ISG NFV is essential to ensure coherent standardization efforts on Telco Cloud and virtualization technologies.
2. To enable effective cooperation, both groups should avoid redundant efforts by exchanging information of existing specifications/Recommendations and on-going work items.
3. Based on this mutual understanding, each group can then identify reusable deliverables and selectively utilize them into their respective standardization tracks.
4. It was recommended to hold regular joint coordination meetings or workshops — not too frequent to avoid inefficiency — that allow both parties to stay informed of key technical updates and evolving directions in each other's work.

Suggestions to SG13

In order to make collaboration with ETSI ISG NFV more meaningful and effective, SG13 is encouraged to involve not only Working Party 2 (WP2) groups related to cloud computing, but also other relevant Questions such as Q20, Q21, Q23, and Q2, which address topics like AI, network softwarization, emerging network technologies, and etc.

Broader participation will ensure that cross-domain technical issues are adequately represented and that SG13's engagement reflects the full scope of NFV-related concerns across the SG13, especially on both aspects of computing and networking.

