

File No. 04-11/2024-C&B/TEC/NWG-21
Government of India
Department of Telecommunications
Telecommunication Engineering Centre
Khursid Lal Bhawan, Janpath, New Delhi-110001

Date: 23.12.2024

Meeting Notice

Subject: First meeting of National Working Group (NWG)-21 corresponding to ITU-T SG-21 “Technologies for multimedia, content delivery and cable television” for study period 2025-2028.

Telecommunication Engineering Centre (TEC) has re-constituted National Working Group (NWG)-21 corresponding to ITU-T SG-21 titled “Technologies for multimedia, content delivery and cable television” for the study period 2025-2028 vide letter no. 4-11/2024-C&B/TEC/NWG-21 dated 22.12.2024.

2. The meeting of ITU-T Study Group (SG)-21 for the period 2025-2028 is scheduled to be held from 13-24 January 2025 in Geneva, Switzerland.
3. The deadline for contribution submissions to ITU SG- 21 is January 2, 2025.
4. In view of the above, a meeting of National Working Group (NWG)-21 is scheduled as per below details to discuss the contributions (if any) for the same. The link of the meeting is given below:

Date, Time: 24-12-2024, 16:00 onwards.

Venue: Video-conference

Meeting Link: <https://cdotmeet.cdot.in/vmeet/rooms/fgq-aio-z3c-cog/join>

5. The contributions (if any) can be submitted to NWG 21 Chair on mukesh.kmr2029@gov.in with a copy to dircb2.tec-dot@gov.in latest by **24.12.2024, 10:00 am**. These contributions/inputs will be discussed during the meeting before finalising and submitting to ITU-T.
6. More details about ITU-T SG-21 are available at Annexure-A (enclosed).

All NWG-21 members are kindly requested to make it convenient to attend the meeting.

Director (C&B)

Email-dircb2.tec-dot@gov.in

Encl: As above

To (through email),

1. All members of NWG-21

Copy to (through email):

1. Sr. DDG & Head, TEC- for kind information pl
2. DDG (C&B), TEC & Chair NWG-21 - for kind information pl
3. AD(IT), TEC- for uploading it on TEC website.

Telecommunication Engineering Centre (TEC) has constituted National Working Group (NWG)-21 corresponding to ITU-T Study Group-21 titled “**Technologies for multimedia, content delivery and cable television**” with an objective to contribute to ITU-T SG-21 activities keeping in view the interest of Indian Telecommunications. The NWG-21 will build consensus and harmonize the interests of various stakeholders, and proactively make contributions to ITU-T on the below mentioned questions:

- i. QA/9: Transmission and delivery control of television and sound programme signal for contribution, primary distribution and secondary distribution
- ii. QB/9: Methods and practices for conditional access and content protection
- iii. QC/9: AI-enabled enhanced functions over integrated broadband network
- iv. QD/9: Guidelines for developing countries to implement and deploy digital cable television networks
- v. QE/9: Software frameworks and architectures for advanced content distribution services over integrated broadband cable networks
- vi. QF/9: Functional requirements for terminal devices of the integrated broadband cable network
- vii. QG/9: Transmission control and interfaces (MAC layer) for IP and/or packet-based data over integrated broadband cable networks
- viii. QH/9: The Internet protocol (IP) enabled multimedia applications and services for cable television networks enabled by converged platforms
- ix. QI/9: Requirements, methods, and interfaces of the advanced service platforms to enhance the delivery of audiovisual content, and other multimedia interactive services over integrated broadband cable networks
- x. QB/16: Artificial intelligence-enabled multimedia applications
- xi. QC/16: Visual, audio and signal coding
- xii. QD/16: Immersive live experience systems and services
- xiii. QE/16: Multimedia systems, terminals, gateways and data conferencing
- xiv. QF/16: Intelligent visual systems and services
- xv. QG/16: Multimedia streaming-related systems and services including content delivery, application platforms and end systems
- xvi. QH/16: Multimedia framework, applications and services
- xvii. QI/16: Multimedia aspects of distributed ledger technologies and related services
- xviii. QJ/16: Digital culture-related systems and service
- xix. QK/16: Human factors for intelligent user interfaces and services
- xx. QM/16: Vehicular multimedia communications, Systems, network and application
- xxi. QN/16: Multimedia framework for digital health application
- xxii. Q.Acc/21: Multimedia system, service and application accessibility for digital inclusion
- xxiii. AHG-MV: SG16 Ad hoc Group on metaverse standardization work in ITU –T SG 16

More details about ITU-T SG-21 are available at:

<https://www.itu.int/en/ITU-T/studygroups/2025-2028/21/Pages/default.aspx>