ITU-T SG9 activities related to accessibility

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About TEC

- Technical arm/ attached office of DoT, Ministry of Communications, India.
- Standards Setting Organization (SSO) for telecom & related ICT sector.
- Defacto sector specific National Standards Body (NSB).
- Responsibility to implement Mandatory Testing & Certification of Telecom Equipment (MTCTE).
- Voluntary testing and certification of telecom equipment and interfaces.
- Designated National Enquiry point for WTO –TBT (Technical Barrier to Trade) for telecom sector.
- Complaint resolution under PPP-MII for Telecom products and services.
- An ISO 9001:2015 certified organization.

ITU-T – Accessibility related Resolution

- WTSA Resolution 70
- **Telecommunication/information and communication technology accessibility for persons with disabilities and persons with specific needs**
  - that ITU-T study groups should consider aspects of universal design in their work, including the drafting of non-discriminatory standards, service regulations and measures for all persons, including persons with disabilities and older persons, with cross-cutting user-protection actions;
  - that all ITU-T study groups utilize the Telecommunications Accessibility Checklist, which makes it possible to incorporate the principles of universal design and accessibility;
  - that ITU workshops be held to inform about the progress in the work and the results achieved by the study groups in charge of ICT accessibility before the next world telecommunication standardization assembly,

ITU-T SG9 – Accessibility related Question

- Q11/9 (WP2/9)
- Title: **Accessibility to cable systems and services**
- Rapporteur: Avinash Agarwal, Ministry of Communications, India
- Associate rapporteur: Ming Zhao, Academy of Broadcasting Science, NRTA, China
- Motivation:
  - To investigate accessibility of existing cable TV systems
  - Propose recommendations for enhancing accessibility in line of the United Nations Convention on the Rights of Persons with Disabilities (UN CRPD), European Union Accessibility Directive and other national legislation of Member States.
  - To take forward the work earlier initiated at the ITU-T Focus Group on Smart Cable TV and liaison with ITU-T Question 26/16 and ITU IRG-AVA.

Work items under Q11/9

Work item	Status	Timing	Approval process	Version	Subject / Title
J.acc-us-prof	Under study	2024-09	AAP	New	Requirements for the ~~specific~~ semantics of a Common User Profile used to personalize audiovisual media
J.CLE-ARVR	Under study	2025-11	AAP	New	Terminology, Metrics and Functional requirements for Cognitive Load Estimation for Augmented and Virtual Reality (AR/VR) services
JSTR.LCAP	Under study	2024-09	Agreement	New	Technical advances, challenges, and best practices in live captioning
TR.CUP	Agreed 2023-11-23	2023-11	Agreement	New	Concept of a Common User Profile format used to personalize audiovisual media

J.acc-us-prof

- **Requirements for the ~~specific~~ semantics of a Common User Profile used to personalize audiovisual media**
- Summary
  - Describes the requirements for the semantics of a Common User Profile (CUP) intended to express users' needs when accessing audiovisual content.
  - The CUP facilitates the storing, sharing and transfer of a users' personalized accessibility preferences and user interface requirements across different devices, applications, and formats such as virtual worlds within allowable limits set by the content providers and/or their devices capability.
  - The document does not define the profile itself but rather defines a set of parameters, and their semantics, needed to implement such a profile and how any optional applications can be included.
  - The CUP is targeted at broadband, digital TV, computer and smart phone software and web-based audiovisual systems. It can also be applied to interactive, augmented and virtual reality applications.

TR.CUP

- **Concept of a Common User Profile format used to personalize audiovisual media**
- Technical Report containing informative content related to the proposed recommendation on Common User Profile (J.acc-us-prof).
- Presents an overview of a CUP format used to personalize audiovisual media.
- Includes example use-case studies that demonstrate how media can be adapted and personalized for users with different ranges of capabilities.
- Agreed on 2023-11-23.

J.CLE-ARVR

- **Terminology, Metrics and Functional requirements for Cognitive Load Estimation for Augmented and Virtual Reality (AR/VR) services**
- Summary
  - Definition of terms for cognitive load estimation and related concepts such as stress, boredom, and engagement.
  - Metrics for estimating cognitive load in AR/VR systems.
  - Acceptance criteria for cognitive load estimation systems in AR/VR applications.
  - Minimum technical specifications for devices used in cognitive load estimation.
- By understanding cognitive load in immersive media experiences, developers can create more accessible audio-visual content that caters to the needs of users with varying cognitive abilities, ultimately enhancing inclusivity and usability.

JSTR.LCAP

- **Technical advances, challenges, and best practices in live captioning**
- Summary
  - This Technical Report aims to provide guidance on technical aspects of live captioning and other visual accessibility features in Television Broadcasting, Cable Networks, Direct to Home (DTH), IPTV, other upcoming platforms, and emerging services such as Virtual Reality (VR).
  - The Technical Report covers various aspects related to visual accessibility features, live captioning in particular, including recent advances, implementation challenges, and global best practices.
  - The report also discusses the captioning standards and accuracy measuring metrics, such as Word Error Rate (WER).

Thanks