WORLD TELECOMMUNICATION
STANDARDIZATION ASSEMBLY

ITUWTSA
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Overview of ITU-T Study Group 9 during the Study Period 2022-2024

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Chair, ITU-T Study Group 9

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ITU-T SG9: Key Areas of Work during 2022-2024

Audiovisual content transmission and integrated broadband cable networks

Our mandates (Resolution 2 elements)

1	use of telecommunication systems for distribution of audiovisual content, e.g. television programmes and related data services.
2	use of cable networks, primarily designed for audiovisual content delivery to the home, to also provide integrated broadband services.
3	use of cloud computing, artificial intelligence (AI) and other advanced technologies to enhance integrated broadband services over the cable networks.
4	use of accessibility services (like captioning, audio caption) and new interaction technologies to enhance accessibility of audiovisual content and related services.

ITU-T SG9: Structure and Management Team

Structure	
WP1/9	Cable transport and terminals, including video and data (Q1, 2, 4, 6, 7/9)
WP2/9	Cable-related platforms and applications (Q3, 5, 8, 9, 11/9)
Plen	Coordination (Q10/9) / Accessibility issues (IRG-AVA)

Role	Name
Chair	**Mr Satoshi MIYAJI** (KDDI, Japan)
Vice-Chair	**Mr Blaise MAMADOU** (Central African Rep. Administration)
Vice-Chair & WP2 chair	**Mr TaeKyoon KIM** (ETRI, Korea Rep. of)
Vice-Chair & WP1 chair	**Mr Zhifan SHENG** (NRTA, China)
Vice-Chair	**Mr Pradipta BISWAS** (Indian Administ. / IISc, India)
Counsellor	**Mr Stefano POLIDORI** (SGD, TSB)
Admin assistant	**Ms Hiba TAHAWI** (SGD, TSB)

ITU-T SG9: Key ITU-T Recommendations

1	10 Gbit/s-class broadband internet over coaxial cable
J.224 **J.225**	Fourth-generation (J.225) and fifth-generation (J.224) transmission systems for interactive cable television services – IP cable modems
J.198.1 **J.198.2** **J.198.3**	Functional requirements for third-generation HiNoC Physical layer specification for third-generation HiNoC MAC layer specification for third-generation HiNoC

2	Interconnection with other types of access networks
J.152 **J.153**	Requirements (J.152) and system architecture (J.153) for cable television services to use IMT-2020 radio systems

3	Conditional access system (CAS) and content protection
J.1036	Factual subscriber-base reporting and protected content delivery in conditional access system – Requirements

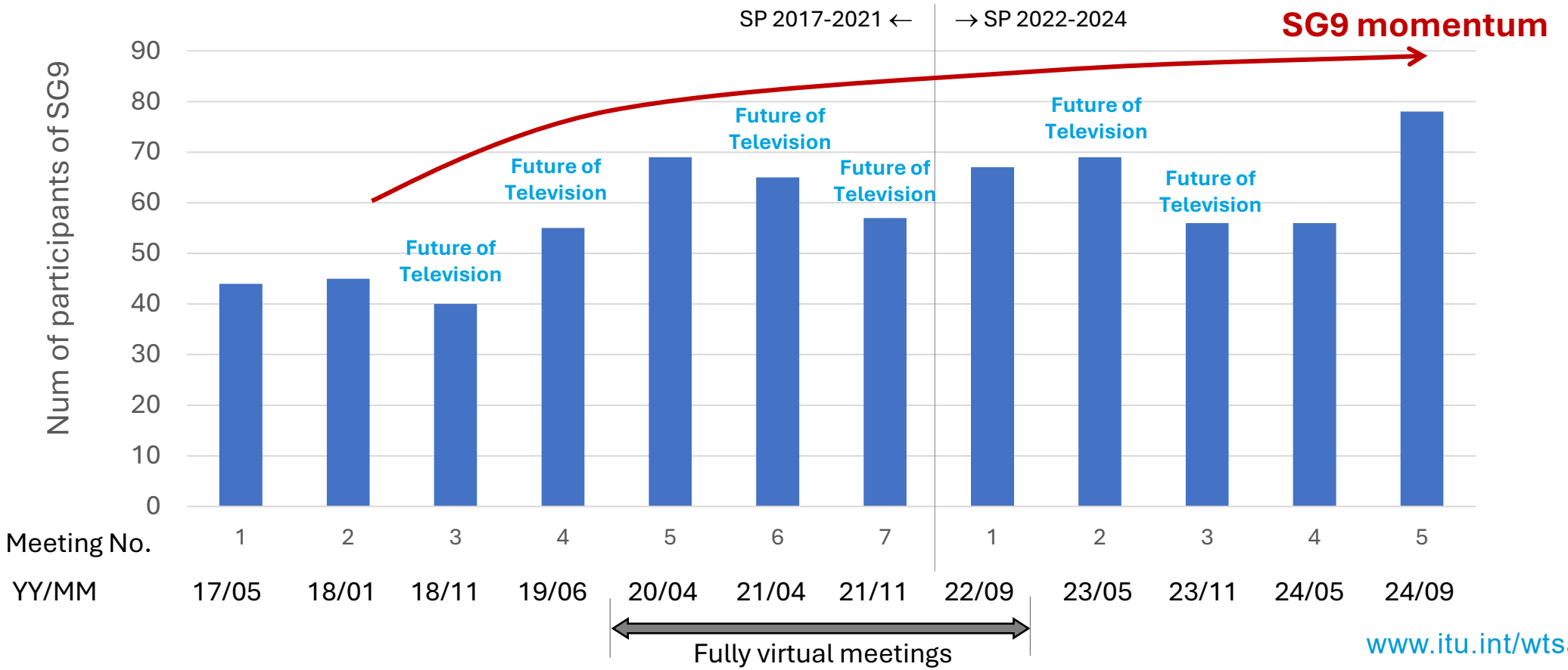
ITU-T SG9: Key ITU-T Recommendations (continued)

4	Cloud-based service platform
J.1305 **J.1306**	Requirements (J.1305) and Specifications (J.1306) of microservice architecture for audio-visual media in the converged media cloud
J.484 **J.1311** **J.1318**	Requirements of multicast adaptive bitrate (M-ABR) IP delivery Technical tequirements for cloud gaming service platforms Requirements of E2E Network Platform for Cloud-based Object Wave Transmissions

5	Termina device and middleware
J.1291 **J.1292**	Requirements and functional specifications of audio and video interfaces of cable STBs Functional requirements for cable STB supporting UHD video and VR services
J.120x -series	Smart television operating system – functional requirements, architecture, specification, security platform, HAL API, API, conformance test

ITU-T SG9: Strategic approach to increase the momentum

- A series of open workshops named ***Future of Television*** were organized in collaboration with ITU-R and ITU-D.
- Highly contributed to increase the number of participants of SG9.
- The seventh Future of Television (for Europe) is planned in November 2024 in Geneva.



Consolidation of SG9 and SG16

- Recent technology trends increase relevancy of cable television and multimedia.
- Japanese administration proposed consolidation of SG9 and SG16 at January TSAG (TSAG-C78).

Agreement at TSAG in January 2024

There was a wide support and agreed to start preparation for consolidation.

TSAG instructed SG9 and SG16 to establish a joint management team (**JMT9&16**).

JMT9&16 organized four preparation meetings and produced its report to TSAG in July.

Proposals submitted to WTSA-24 (DOC24 Annex 2)

Study Group C: ***Technologies for multimedia, content delivery and cable television***

- Consolidated mandate (Resolution 2 elements)
- Consolidated Questions: Q10/9 + Q1/16, Q11/9 + Q26/16

Collaboration

ITU

ITU-T SG16
ITU-R SG6
ITU-D
and all other Groups

ISO | IEC

ISO/IEC JTC1 MPEG

TC100

Regional SDOs

TC Cable
ISG ECI

Cable TV specific

Other fora and so on

and so on…

ITU-T SG9: Conclusion

Deliverables	Recommendations (new)	15
	Recommendations (rev, cor)	17
	Supplements, Technical Reports	9
Increasing momentum	SP 2013-2016 vs SP 2022-2024	+51% (43 → 65)
Toward future	SG9 and SG16 jointly led JMT9&16	SG C

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Thank you