Ninth joint IEEE 802 and ITU-T Study Group 15 Workshop

July 13, 2024



James E. Matthews President, IEEE Standards Association



Seizo Onoe Director of the ITU Telecommunication Standardization Bureau



James Gilb Chair, IEEE 802



Glenn Parsons Chair, ITU-T SG15



Workshop Agenda

- Opening Remarks
 - James E. Matthews, President, IEEE SA
 - Seizo Onoe, Director, TSB, ITU
 - James Gilb, Chair, IEEE 802
 - Glenn Parsons, Chair, ITU-T SG15
- Session 1: Exploration of Optical PHYs Addressing 800 Gb/s and Beyond
 - Moderators: John D'Ambrosia, Futurewei, IEEE P802.3dj Task Force Chair & Steve Gorshe, Microchip, ITU-T Q11/15 Rapporteur
- Session 2: Access and In-Premises Networks
 - Moderators: George Zimmerman, CME Consulting, IEEE P802.3dg Task Force Chair & Frank Effenberger, Futurewei, ITU-T Q2/15 Rapporteur
- Session 3: Synchronization and TSN
 - Moderators: János Farkas, Ericsson, IEEE 802.1 TSN Task Group Chair & Stefano Ruffini, Calnex, ITU-T Q13/15
- Session 4: YANG and Data Modelling
 - Moderators: Scott Mansfield, IEEE 802 YANGsters Chair, ITU-T Q14/15 Rapporteur, Principal Researcher, Ericsson: Session 4 Introduction YANG and Data Modelling
- Wrap-up, Takeaways, Closing
 - Moderators: James Gilb, Chair, IEEE 802 & Glenn Parsons, Chair, ITU-T SG15



Workshop objectives

- This workshop focused on topics of common interest such as:
 - Optical interfaces beyond 1T transmission,
 - Access and in-premises networks,
 - Synchronization and time-sensitive networking (TSN),
 - YANG and data modelling.
- The objectives of this workshop include, but are not limited to, enhancing long-standing collaboration and coordination between IEEE 802 and ITU-T Study Group 15 through discussion and information exchange on topics of common interest.



ITU-T SG15 mandate

SG15 is responsible for the development of standards on:

optical transport network	optical access network	home network and power utility network
	equipment	infrastructures
Gigabit copper transmission	maintenance	optical fibers and cables and their related installation
	management	
instrumentation		
and measurement techniques	test	control and management plane technologies

to enable the evolution toward intelligent optical networks.



Questions and Working Parties of SG15

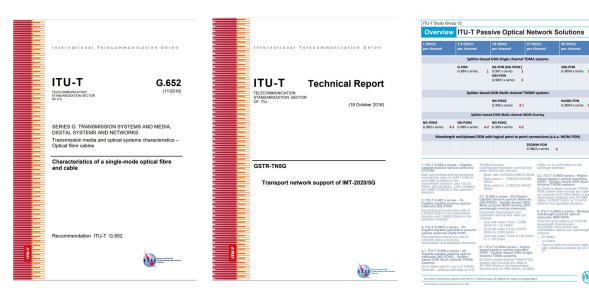
	Question Number	Question title
WP1 -	1/15	Coordination of Access and Home Network Transport Standards
	2/15	Optical systems for fibre access networks
	3/15	Technologies for in-premises networking and related access applications
	4/15	Broadband access over metallic conductors
WP2 –	5/15	Characteristics and test methods of optical fibres and cables, and installation guidance
	L /1 E	Characteristics of optical components, subsystems and systems for optical transport
	6/15	networks
	7/15	Connectivity, Operation and Maintenance of optical physical infrastructures
WP3	8/15	Characteristics of optical fibre submarine cable systems
	10/15	Interfaces, interworking, OAM, protection and equipment specifications for packet-
	10/13	based transport networks
	11/15	Signal structures, interfaces, equipment functions, protection and interworking for
	11/13	optical transport networks
	12/15	Transport network architectures
	13/15	Network synchronization and time distribution performance
	14/15	Management and control of transport systems and equipment



WP: Working Party

ITU-T SG 15 deliverables

- Work products:
 - Recommendations
 - Supplements
 - Technical papers and reports
 - Flyers



• Recommendation series

	Ŧ	G.600-G.699: Transmission media and optical systems characteristics	
	Ŧ	G.700-G.799: Digital terminal equipments	
	Ŧ	G.800-G.899: Digital networks	
	Ŧ	G.900-G.999: Digital sections and digital line system	
_	Ŧ	G.7000-G.7999: Data over Transport – Generic aspects	
5.1	Ð	G.8000-G.8999: Packet over Transport aspects	
; 5.2	Ŧ	G.9000-G.9999: Access networks	
	Ŧ	G supplements: Supplements to ITU-T G-series Recommendations	
ter ks uttl- DM- ates the 564 16			





