Glenn Parsons, Chair, ITU-T SG15



GLENN PARSONS is an internationally known expert in mobile transport and Ethernet technology. He is a principal standards advisor with Ericsson Canada, where he coordinates standards strategy and policy for Ericsson, including network architecture for 5G radio transport networks. Previously, he has held positions in development, product management and standards architecture in the ICT industry. Over the past number of years, he has held several management and editor positions in various standards activities including IETF, IEEE, and ITU-T. He is currently involved with 5G transport standardization in IEEE and ITU-T and is the chair of ITU-T SG15 as well as the working group chair of IEEE 802.1 In addition, he is a member of the IEEE Standards Association Board of Governors, and the chair of the Public Policy Committee for IEEE Canada. He graduated in 1992 with a B.Eng. degree in electrical engineering from Memorial University of Newfoundland.



ITU Workshop on "Future Optical Networks for IMT2030, AI, broadband and more"

Location: Arcs de Seine, Paris Date: 12 June 2025

Introduction to ITU-T SG15

Glenn Parsons Ericsson Canada



Responsibility of Study Group 15

The development of standards on:



to enable the evolution toward intelligent transport networks ...



ITU-T SG15 management team (2025-2028)



- Vice Chairs
 - Mohamed Amine BENZIANE
 - Sudipta BHAUMIK
 - Taesik CHEUNG
 - Adel HLILOU
 - Thomas HUBER
 - Umarbek IZBASAROV
 - Marcel KEBRE
 - Stephen SHEW
 - Fatai ZHANG

WP1/15

- Ian HORSLEY
- Frank VAN der PUTEN
- WP2/15
 - Paul DOOLAN
 - Sudipta BHAUMIK
- WP3/15
 - Tom HUBER
 - Silvana RODRIGUES

- Promotion and Coordination
 - Taesik CHEUNG
 - Vince FERRETTI
- TSB counsellors
 - Hiroshi OTA
 - Hiyato FUKUZONO



Questions and Working Parties of SG15

	Question Number	Question title					
Г	2/15	Optical systems for fibre access networks					
WP1 –	3/15	Technologies for in-premises networking and related access applications					
	4/15	Broadband access over metallic conductors					
Γ	5/15	Characteristics and test methods of optical fibres and cables, and installation guidance					
	C /1 F	Characteristics of optical components, subsystems and systems for optical transport					
WP2 🚽	6/15	networks					
	7/15	Connectivity, Operation and Maintenance of optical physical infrastructures					
L	8/15	Characteristics of optical fibre submarine cable systems					
Г	10/15	Interfaces, interworking, OAM, protection and equipment specifications for packet-					
	10/15	based transport networks					
WP3 –	11/15	Signal structures, interfaces, equipment functions, protection and interworking for					
		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					



ITU-T SG 15 deliverables

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

International T	elecommunication Union
ITU-T TELECOMMENICATION STANGARZATION SECTOR OF ITU	G.652 (11/2016)
DIGITAL SYSTEMS A Transmission media a Optical fibre cables	ISSION SYSTEMS AND MEDIA, NND NETWORKS Ind optical systems characteristics – a single-mode optical fibre
Recommendation ITU	J-T G.652
Recommendation	Pri Gudz

	International Telecommunication Union	
	TELECOMMUNICATION STRADARDIZATION SECTOR OF ITU (19 October 2018)	
		NC G.
	GSTR-TN5G	1.1
	Transport network support of IMT-2020/5G	Bot and dow Mbo and dow Do and dow Do and dow Mbo
		Augustine and a state
ł	@	4.1 Gig net bas sys Na1 che

1 Gbit/s per channel	2.5 Gbit/s per channel		10 Gbit/s per channel		S Gbit/s er channel	50 Gbit/s per channel
	Splitte	r-based	ODN Single cha	innel TD	MA systems	
	G-PON G.984.x series	1	XG-PON (NG-PC G.987 x series XGS-PON G.9807 x series	2 3		SOG-PON G.9804.x series 5.3
	Splitter	r-based	ODN Multi-cha	nnel TW	DM systems	
			NG-PON2 G.989.x series	4.1		Nx50G-PON G.9804.x series 5.2
	Split	ter-base	d ODN Multi-cha	nnel WD	M Overlay	
NG-PON2	NG-PON2		NG-PON2			
G.989.x series 4.2	G.989.x series	4.2	G.989.x series	4.2		
Wavelength	multiplexed C	DDN wit	th logical point t	o point	connections (a.k.a.	WDM-PON)
					SGMW-PON 9802.x series 6	
 THT-G. 20,845 x seeds. THT-G. 20,845 x seeds. THT-G. 20,845 x seeds. THT-G. 20,845 x seeds. THT-G. 20,845 x seed. 	Detroit of the second sec		spatnesin direct spatnesin direct spatnesin spatnesin	- 25 Gbt/s		

- Recommendation series
 - G.600-G.699: Transmission media and optical systems characteristics
 - G.700-G.799: Digital terminal equipments
 - G.800-G.899: Digital networks
 - G.900-G.999: Digital sections and digital line system
 - G.7000-G.7999: Data over Transport Generic aspects
 - G.8000-G.8999: Packet over Transport aspects
 - G.9000-G.9999: Access networks
 - G supplements: Supplements to ITU-T G-series Recommendations
 - L.100-L.199: Optical fibre cables
 - L.200-L.299: Optical infrastructures
 - L.300-L.399: Maintenance and operation
 - L.400-L.429: Passive optical devices
 - L.430-L.449: Marinized terrestrial cables
 - L supplements: Supplements to ITU-T L-series Recommendations



SG15 – activity and impact





Study Group 15







G-Series Technical Report (GSTR) International Optical Networks towards 2030 and Beyond (ION-2030)

- Summary
 - describe the framework and overall objectives of the future development of International Optical Networks for 2030 and beyond (ION-2030), as well as the associated roadmaps and timelines
- Timing
 - July 2026 agreement

- Topics
 - Trends of ION-2030
 - Motivation and societal considerations
 - Application trends and drivers
 - Technology trends, particularly in optical communication
 - Usage scenarios of ION-2030
 - Overarching design principles
 - Key characteristics and features in optical systems and transport networks
 - Key characteristics and features in optical access and in-premise networks
 - Capabilities of ION-2030
 - Considerations of standardization development
 - Relationships
 - Timelines
 - Focus areas for further study



Photograph time!

Smile

