Highlights of SG5 meeting results
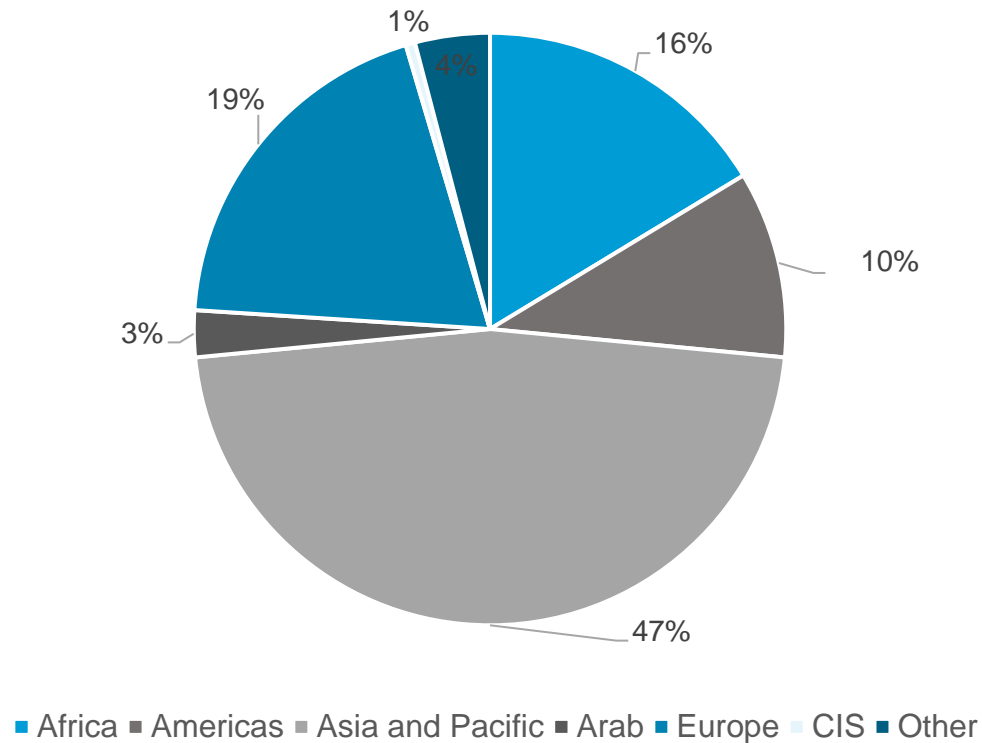
General Information

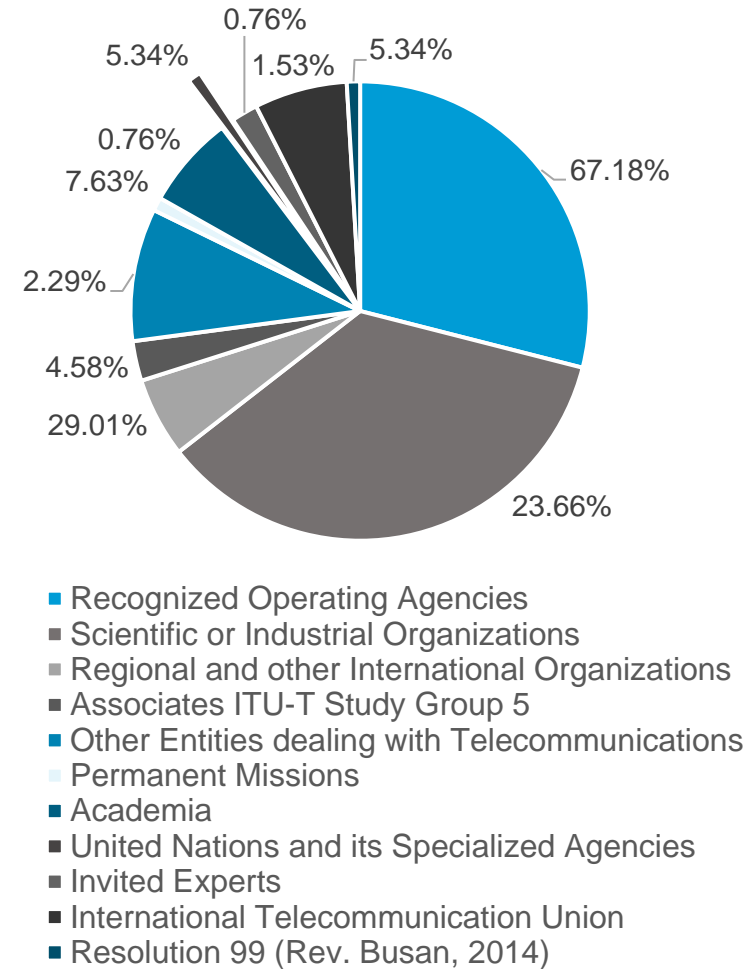- **Dates**: 17 – 21 June 2024 in Wroclaw.

- **Photos of the meeting**: TD1581 and TD1725

- **Statistics and outcomes**:

  - **Participants**: 192 (TD1529-R1)

  - **Contributions**: 147 (148 were received but 1 was withdrawn)

  - **TDs** (not counting the revisions): 435

  - **Incoming/ outgoing liaison statements**: 62 incoming liaison statements and 16 outgoing liaison statements (TD1335-R4)

  - **Consented Recommendations:** 21 (of which 9 are revised Recommendations)

  - **Recommendations Approved:** none at this meeting;

  - **Other texts agreed:** 3 at this meeting;

  - **New work items:** 30 at this meeting.

  - Finalization of the SG5 ToR Questions, title, and mandate.

Participants by Region

16%
10%
1%
4%
19%
3%
47%

■ Africa ■ Americas ■ Asia and Pacific ■ Arab ■ Europe ■ CIS ■ Other

Participants by Sector

0.76%
5.34%
5.34%
1.53%
0.76%
67.18%
7.63%
2.29%
4.58%
29.01%
23.66%

■ Recognized Operating Agencies
■ Scientific or Industrial Organizations
■ Regional and other International Organizations
■ Associates ITU-T Study Group 5
■ Other Entities dealing with Telecommunications
■ Permanent Missions
■ Academia
■ United Nations and its Specialized Agencies
■ Invited Experts
■ International Telecommunication Union
■ Resolution 99 (Rev. Busan, 2014)

Main Discussions

- The objective of the SG5 meeting were to:

    - Progress on the work of the different Questions.

    - Consent Recommendations that were in a mature stage.

    - Agree documents that were in a mature stage.

    - Discuss the results of the Ad-hoc Group on SG5 WTSA-24 preparation and finalize the ToR and texts that will be submitted to WTSA-24.

Ad-hoc Group on SG5 WTSA-24 preparation

- The report of the progress report of the *Ad-hoc Group on SG5 WTSA-24 preparation* from August 2023 to June 2024 was presented during the SG5 opening plenary on 17 June 2024, as contained in TD1566-R2.

- During the SG5 meeting the ad-hoc group held four meetings on 17, 18, 19 and 20 June 2024.

- During these sessions, the group revised and finalized the SG5 ToR Questions, title, and mandate. The new proposed SG5 title to be submitted for WTSA-24 is Environment, climate action, circular economy and EMF (as contained in TD1720).

- The report is contained in TD1722-R1.

Results by Working Party

	WP1/5 EMC, lightning protection, EMF	WP2/5 Environmental efficiency, e-waste, circularity and sustainable ICT networks	WP3/5 Climate change, adaptation, mitigation and net-zero emissions	Total
Report	TD1320-R4	TD1325-R4	TD1330-R6	-
New Work Items	9	4	18	31
Consented Recommendations	10	7	4	21
Agreed Documents	1	0	2	3

Consented Recommendations – Revised (1)

ITU-T Rec. Number	Title	Question	TD
K.81	High-power electromagnetic immunity guide for telecommunication systems	Q1/5	TD1656
K.87	Guide for the application of electromagnetic security requirements – Overview	Q1/5	TD1657
K.12	Characteristics of gas discharge tubes for the protection of telecommunications installations	Q2/5	TD1614
K.52	Guidance on complying with limits for human exposure to electromagnetic fields	Q3/5	TD1665
K.83	Monitoring of electromagnetic field levels	Q3/5	TD1686-R1
K.100	Measurement of radio frequency electromagnetic fields to determine compliance with human exposure limits when a base station is put into operation	Q3/5	TD1641-R3
K.42	General Principle for the definition of emission and immunity requirements for Telecommunications/ICTs Equipment	Q4/5	TD1601

Consented Recommendations – Revised (2)

ITU-T Rec. Number	Title	Question	TD
L.1310	Energy efficiency metrics and measurement methods for telecommunication equipment	Q6/5	TD1584-R2 TD1585 (A.5)
L.1410	Methodology for environmental life cycle assessments of information and communication technology goods, networks and services	Q9/5	TD1597-R1

Consented Recommendations – New (1)

ITU-T Rec. Number	Work item or provisional name	Title	Question	TD
K.SPDM	K.155	Performance Requirements and Test Methods for Surge Protective Modules Used in AC power port of Telecommunication Equipment	Q1/5	TD1579-R2
K.peak	K.156	Time and spatial averaging in RF-EMF exposure assessment	Q3/5	TD1562-R3
K.emc_satellite	K.157	Electromagnetic compatibility requirements and test methods for satellite communication terminal equipment	Q4/5	TD1591
L.FEMS	L.1260	Reference Model of a Factory Energy Management System	Q6/5	TD1583-R2
L.Cooling_DC	L.1327	Guidelines on the selection of cooling technologies for data centres in multiple scenarios	Q6/5	TD1588-R2
L.Env.PerSmartphone	L.1017	Environmental performance scoring of smartphones	Q7/5	TD1582-R2

Consented Recommendations – New (2)

ITU-T Rec. Number	Work item or provisional name	Title	Question	TD
L.D4PI	L.1071	An information model for digital product information on sustainability and circularity	Q7/5	TD1586-R2
L.UPR10	L.1028	Indicator for global-warming-potential impact as a function of ICT-equipment operating-lifetime extension	Q7/5	TD1595
L.IDENT	L.1632	Identification method for building infrastructure equipment in a sustainable city	Q13/5	TD1615-R1
L.database	L.1472	Requirements for the creation of an ITU database on energy consumption and GHG emissions of the ICT sector	Q9/5	TD1635-R5
L.VMPS	L.1384	Implementation of a virtual micro power station at base station sites	Q11/5	TD1619-R3
L. GHG management	L.1490	Framework and Functional Requirements of Greenhouse Gas Emissions Management System using Digital Technology for Public Sector	Q11/5	TD1621-R1

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Agreed Documents

Informative texts

Document	Work item or provisional name	Title	Question	TD
K.Suppl.32	K.Suppl.32	Case studies of radio frequency - electromagnetic field (RF-EMF) assessment	Q3/5	TD1652
L.Suppl.60 to ITU-T L.1410	L.Suppl.Mobile_Phone_LCA	Example of an LCA of a mobile phone fully compliant with L.1410	Q9/5	TD1596
L. Suppl.44	L. Suppl.44	Guide on the use of the overvoltage resistibility for Recommendations ITU-T K.20, K.21 and K.45	Q11/5	TD1649-R2

Approved New Work Items (1)

ITU-T Rec. Number	Title	Question	TD
K.12 (rev)	Characteristics of gas discharge tubes for the protection of telecommunications installations	Q2/5	TD1613
K.Suppl.25	Long reach single twisted-pair Ethernet resistibility testing	Q2/5	TD1683
K.91 (rev)	Guidance for assessment, evaluation and monitoring of human exposure to radio frequency electromagnetic fields	Q3/5	TD1610
K.100 (rev)	Measurement of radio frequency electromagnetic fields to determine compliance with human exposure limits when a base station is put into operation	Q3/5	TD1608
K.calibr	Calibration for equipment for the EMF assessment	Q3/5	TD1643
K.RIS_EMC	Electromagnetic compatibility requirements and measurement methods for Reconfigurable Intelligent Surface	Q4/5	TD1599
K.42	Preparation of emission and immunity requirements for telecommunication equipment – General principles	Q4/5	TD1602

Approved New Work Items – Continued (2)

ITU-T Rec. Number	Title	Question	TD
K.emc_satellite_ES	Electromagnetic compatibility requirements and test methods for Earth stations for satellite communications	Q4/5	TD1604
L.DLEE	Deep Learning Computing Energy Efficiency Evaluation Framework and Metrics	Q6/5	TD1634-R3
L.S_AI	Recommendation for the design of Environmentally Sustainable AI-based and XR-based Systems	Q6/5	TD1664-R2
L.DPP4C	Consumer-oriented environmental information and reversed value chain information about ICT goods on digital product passports	Q7/5	TD1637-R2
ICT4RD	Methodology of Using ICTs to Manage the Recycling and Disposal of E-waste	Q7/5	TD1648-R3
L.ClimAI	Guidelines for Assessing the Impact of Artificial Intelligence on Greenhouse gas emissions	Q9/5	TD1690-R2
L.Carbon_DA	Guidelines for Data Annotation for Carbon emissions Verification Knowledge Graph	Q9/5	TD1661-R1

Approved New Work Items – Continued (3)

ITU-T Rec. Number	Title	Question	TD
L.TR_MAP_GHG	Assessing the Projections of Urban Greenhouse Gas Emission	Q9/5	TD1673-R2
L.PCF_SEM	Methodology for the assessment of the carbon footprint of a smart electricity meter	Q9/5	TD1650-R2
L.Suppl.CFA_BSE to ITU-T L.1410	Guidelines for Carbon Footprint Assessment of 5G Base Station Equipment	Q9/5	TD1653-R1
L.Suppl.CE_Shared_BS to ITU-T L.1420	Carbon Emission Accounting and Allocation Methods for infrastructure Shared Base Station Sites	Q9/5	TD1660-R3
L.TR_GLC_service	General principles for the evaluation of low-carbon ICT service enterprises	Q9/5	TD1701-R2
L.TR_GLC_manufacturing	General principles for the evaluation of low-carbon ICT manufacturing enterprises	Q9/5	TD1707-R2
L.EnvImpServers	Requirements for environmental impact evaluation of servers	Q9/5	TD1706-R2

Approved New Work Items – Continued (4)

ITU-T Rec. Number	Title	Question	TD
L.impact_simplified	Simplified assessments of the GHG emissions impact of the use of ICT solutions	Q9/5	TD1708-R2
L.PS_HPC	Distributed Power Supply Architecture for High Performance Computing (HPC) Data Center	Q11/5	TD1623-R1
L.PV_base station	Smart controlling methods for photovoltaics system installed in base station site	Q11/5	TD1642-R2
L.TR_DG assessment	Assessment method of sustainable transition in cities using ICTs	Q11/5	TD1676-R3
L.1203 (Revision)	Colour and marking identification of up to 400 VDC power distribution for information and communication technology systems	Q11/5	TD1710-R1
L.1210 (Revision)	Sustainable power-feeding solutions for 5G networks	Q11/5	TD1711-R1
L.liquid_DC	High Efficiency Liquid Cooling Solutions and Practices for Data Centres"	Q12/5	TD1669-R1

Approved New Work Items – Continued (5)

ITU-T Rec. Number	Title	Question	TD
L.low_DC	Guidelines for the construction of low-carbon data centres for adapting to climate change mitigation	Q12/5	TD1670-R3
L.Bio-Adapt	Biodiversity Adaptation to Climate Change	Q12/5	TD1671-R1

ITU-T SG5 Regional Groups

- **ITU-T Regional Group for the Arab Region (SG5RG-ARB)**

ITU-T SG5 Regional Group for the Arab Region (SG5RG-ARB) met in Muscat-Sultanate of Oman, from 13–16 May 2024. The SG5 Secretariat presented the report as contained in TD1561.

The meeting was collocated with the ITU Regional Workshop on EMF Harmony: Balancing Connectivity, Safety and Tower Location Selection in the Arab Region from 13–16 May 2024.

Additionally, the revised Terms of Reference of SG5RG-ARB were presented, and approval was requested. During the closing plenary, the SG5 meeting approved the revised ToR as contained in TD1560.

- **ITU-T Regional Group for Africa (SG5RG-AFR)**

ITU-T SG5 Regional Group for Africa (SG5RG-AFR) met in Ouagadougou, Burkina Faso, from 7–9 May 2024. The SG5RG-AFR Chair presented the report as contained in TD1558.

The meeting was collocated with the 15th Symposium on ICT, Environment, Climate Change and Circular Economy from 7 to 9 May 2024.

- **ITU-T Regional Group for the Latin America (SG5RG-LATAM)**

ITU-T SG5 Regional Group for the Latin America (SG5RG-LATAM) will convene its meeting on 5 September 2024 in Lima, Perú.

TD1506 contains the request to consider the appointment of Ms Lina Zuluaga from the Agency of the National Spectrum of Colombia as Chair of SG5RG-LATAM in replacement of Miguel Felipe Anzola. The appointment was approved by the meeting.

Dates of the next ITU-T SG5 meeting and upcoming regional meetings and events

- ITU-T SG5RG-LATAM on **5 September 2024** in Lima, Perú

- ITU and ETSI ICT Sustainability Symposium: Standards Driving Environmental Innovation on **11 and 12 December 2024** in Geneva, Switzerland

- ITU and IEEE event on Climate Resilience, **12–13 December 2024** in Geneva, Switzerland

- The next ITU-T SG5 is planned to be held from **26 May to 6 June 2025, in Geneva, Switzerland**. It was mentioned that the date and venue might change depending on invitations received.

Thank you!