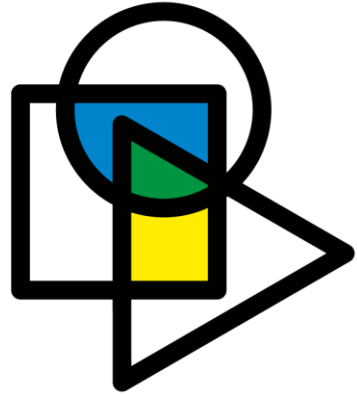WORLD TELECOMMUNICATION
STANDARDIZATION ASSEMBLY

ITUWTSA-20
GENEVA**2022**

1– 9 March 2022
Geneva, Switzerland

An Overview of ITU-T Study Group 3 during the Study Period 2017-2021

Mr Seiichi Tsugawa,
Chairman ITU-T Study Group 3

ITU-T SG3: Key Areas of Work during 2017-2021

ITU-T SG3 Focus:

*To strengthen the ties between **technical innovation, business needs, and economic and policy requirements**.*

Hot Topics under ITU-T SG3:

- International and Regional Roaming

- Digital Financial Services

- International Internet Connectivity (IIC)
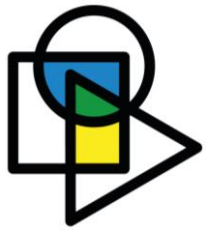
- Trans-multi-country terrestrial cable resource sharing

- Over-the-Top (OTT)

- Customer Redress and Consumer Protection

- Big Data

- Significant Market Power

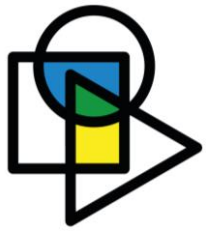- Roaming Aspects of Internet of Things (IoT) and Machine to Machine (M2M)

ITU-T SG3: Key ITU-T Recommendations

Recommendation ITU-T D.262 (2019)	*Collaborative Framework for OTTs*
Recommendation ITU-T D.1101 (2020)	*Enabling environment for voluntary commercial arrangements between telecommunications network operators and OTT providers*
Recommendation ITU-T D.1102 (2021)	*Customer redress and consumer protection mechanisms for OTTs*

In **ITU-T Recommendation D.262**,
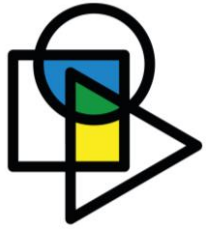the definition of **over-the-top (OTT)** was developed as:
"An application accessed and delivered over the public Internet that may be a direct technical/functional substitute for traditional international telecommunication services."

ITU-T SG3: Future Topics in 2022-2024

New topics for future work

1.	Accounting and billing aspects in Internet of Things (IoT) ecosystem
2.	Distributed Ledger Technology (DLT) in accounting/settlement process
3.	Internet Protocol Version 6 (IPv6) deployment

Thank You to the SG3 Community

Management Team

- Vice-Chairmen
- Working Party Chairmen and Vice-Chairmen

Leadership Team

- Rapporteurs
- Associate Rapporteurs
- Liaison Rapporteurs
- Editors

Regional Groups

- Regional Groups' Management Teams
- Regional Rapporteurs

Other Leaders and Experts

- Chairmen of Correspondence Groups
- SG3 Mentors

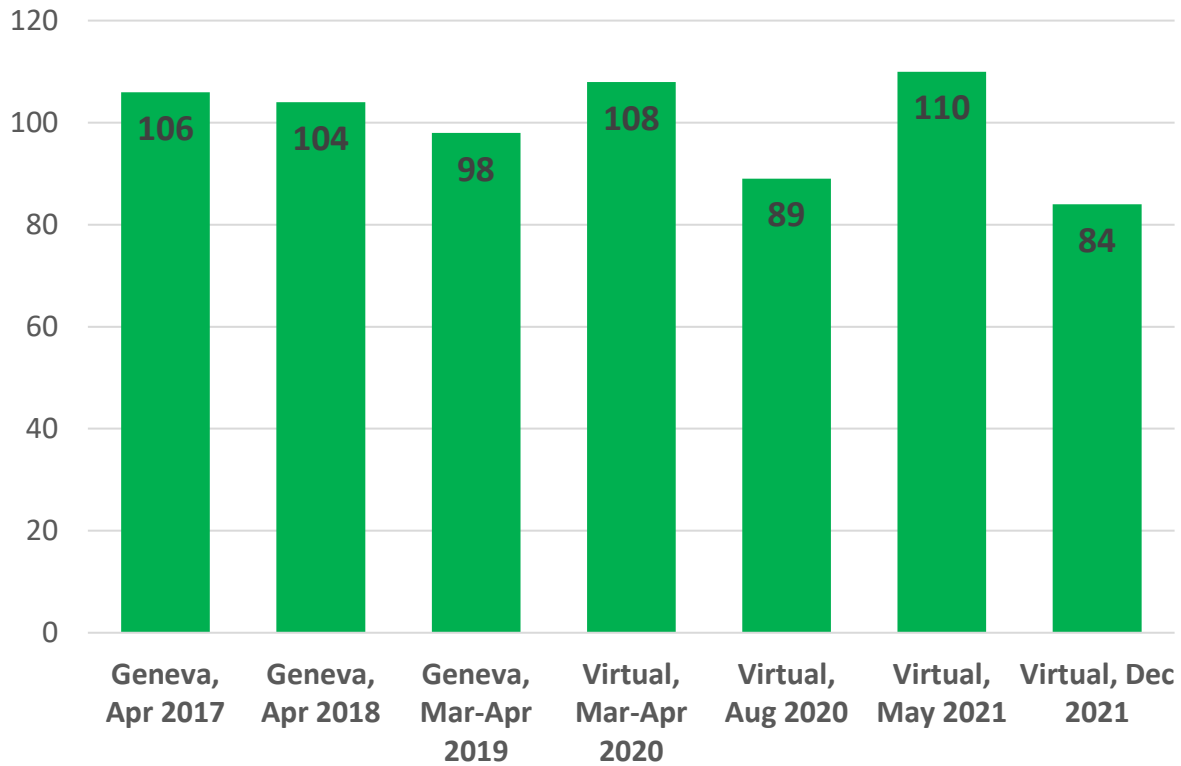**Thank You to ALL Contributors and Supporters**

Additional material

- SG3 is responsible, *inter alia*, for studying **international telecommunication/ICT policy and economic issues and tariff and accounting matters** (including costing principles and methodologies), with a view to informing the development of enabling regulatory models and frameworks.

- SG3 shall in particular **foster collaboration** among its participants with a view to the establishment of rates at levels as low as possible consistent with an efficient service and taking into account the necessity of **maintaining independent financial administration of telecommunications** on a sound basis.

- SG3 is the **Lead Study Group** in the following areas of study:

    - *Tariff and accounting principles* relating to international telecommunications/ICT

    - *Economic issues* relating to international telecommunications/ICT

    - *Policy issues* relating to international telecommunications/ICT
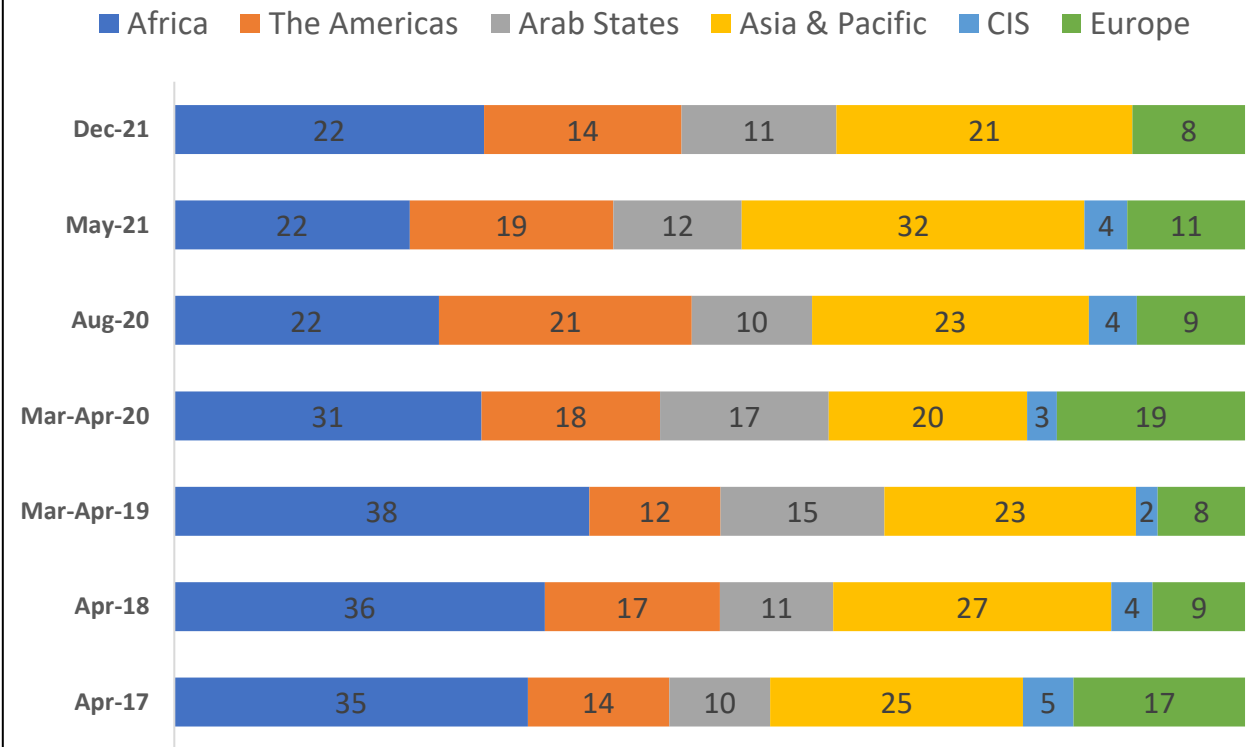
ITU-T SG3: **Meeting Statistics**

Participation at ITU-T SG3 Meetings during 2017-2021

Meeting	Participation
Geneva, Apr 2017	106
Geneva, Apr 2018	104
Geneva, Mar-Apr 2019	98
Virtual, Mar-Apr 2020	108
Virtual, Aug 2020	89
Virtual, May 2021	110
Virtual, Dec 2021	84

Participation by Region at ITU-T SG3 Meetings during 2017-2021

	Africa	The Americas	Arab States	Asia & Pacific	CIS	Europe
Dec-21	22	14	11	21		8
May-21	22	19	12	32	4	11
Aug-20	22	21	10	23	4	9
Mar-Apr-20	31	18	17	20	3	19
Mar-Apr-19	38	12	15	23	2	8
Apr-18	36	17	11	27	4	9
Apr-17	35	14	10	25	5	17

About ITU-T SG3 Meetings

- SG3 meetings are held **once per year** only, unlike other SG meetings that are held approximately twice per year.
- SG3 meetings operate on a **Working Party level** only.
- SG3 organizes Rapporteur Group Meetings (RGMs) to discuss and operate on a **Question level**.

ITU-T SG3: **Highlights of Main Results**

9 Approved ITU-T Recommendations

2 Agreed ITU-T Supplements

12 Agreed ITU-T Technical Reports

23 Initiated New Work Items

	2013-2016	2017-2021
Normative Texts (Recommendations)	5	9
Non-normative Texts (Supplements, Technical Papers, and Technical Reports)	5	14

Approved ITU-T Recommendations	
ITU-T D.198	Principles for unified format of price/tariffs/rates-lists used for exchanging telephone traffic
ITU-T D.262	Collaborative Framework for OTTs
ITU-T D.263	Costs, Charges and Competition for Mobile Financial Services (MFS)
ITU-T D.264	Shared uses of telecommunication infrastructure as possible methods for enhancing the efficiency of telecommunications
ITU-T D.1040	Optimizing terrestrial cable utilization across multiple countries to boost regional and international connectivity
ITU-T D.1101	Enabling environment for voluntary commercial arrangements between telecommunications network operators and OTT providers
ITU-T D.1140/X.1261	Policy Framework including Principles for digital identity infrastructure
ITU-T D.1041	Policy and methodological principles for determining co-location and access charges
ITU-T D.1102	Customer redress and consumer protection mechanisms for OTTs

ITU-T SG3: **Highlights of Main Results**

OTTs: *Part of ITU's Mandate*

ITU Resolution 21 (Rev. Dubai, 2018)	*Measures concerning alternative calling procedures on international telecommunication networks*
ITU Resolution 206 (Rev. Dubai, 2018)	*OTTs*
WTSA Resolution 29 (Rev. Hammamet, 2016)	*Alternative Calling Procedures*
WTDC Resolution 22 (Rev. Buenos Aires, 2017)	*Alternative calling procedures on international telecommunication networks and identification of origin in providing international telecommunication service*

OTTs: *Work of ITU-T SG3*

ITU-T Technical Report	*Economic Impact of OTTs* (2017)
Recommendation ITU-T D.262	*Collaborative framework on OTTs* (2019)
Recommendation ITU-T D.1101	*Enabling environment for voluntary commercial arrangements between telecommunications network operators and OTT providers* (2020)
Recommendation ITU-T D.1102	*Customer redress and consumer protection mechanisms for OTTs* (2021)

Final Acts of the Plenipotentiary Conference Dubai, 2018

446   Res. 206

RESOLUTION 206 (DUBAI, 2018)

OTTs

The Plenipotentiary Conference of the International Telecommunication Union (Dubai, 2018),

In **ITU-T Recommendation D.262**, the definition of **over-the-top (OTT)** was developed as:

"An application accessed and delivered over the public Internet that may be a direct technical/functional substitute for traditional international telecommunication services."

ITU-T SG3: **Highlights of Main Results**

Engagement with ITU-T Lead Study Groups

- SG3 liaised with ITU-T Lead Study Groups on **common topics of study**:
  - ITU-T SG2 – Alternative Calling Procedures (ACP) and OTTs.
  - ITU-T SG12 – Quality of Service (QoS), Quality of Experience (QoE), and Mobile Financial Services (MFS).
  - ITU-T SG13 – Big Data and Future Networks.
  - ITU-T SG17 – Digital Identity.
  - ITU-T SG20 – Accounting & Billing aspects in IoT ecosystem.

Engagement with ITU-D and ITU-R

- SG3 liaised with ITU-D on **common areas of work such as OTTs**, especially with regular updates on ongoing work with the group.
- SG3 liaised with ITU-R on **Recommendation ITU-T D.264**, with active participation from ITU-D and ITU-R towards the approval of the Recommendation.

Engagement with Membership

- SG3 circulated a questionnaire on the implementation status of **Recommendation ITU-T D.98**, "Charging in international mobile roaming service", and **Recommendation ITU-T D.97**, "Methodological principles for determining international mobile roaming rates".
- SG3 circulated a questionnaire on **Dispute Resolution between Telecommunication Operators and Providers of OTTs**.
- SG3 maps out and updates significant items of relevance for the work of SG3 related to the outcomes of **Plenipotentiary Conference (PP-18)**, **World Telecommunication Standardization Assembly (WTSA-16)**, **World Telecommunication Development Conferences (WTDC-17)**, **and World Conference on International Telecommunications (WCIT-12)**.

Engagement with TSAG

- SG3 liaised with TSAG on its **two new Questions, inter-sector coordination, regional groups, hot topics, and updates on its WTSA-20 preparations**.
- SG3 shared with TSAG the group's progress of its **lead study group roles**.

ITU-T SG3: **An International Platform**

Meetings of ITU-T SG3 Regional Groups during 2017-2021

SG3RG-AFR
(Africa)

| 2017 Zimbabwe |
| 2018 Rwanda |
| 2019 Madagascar |
| 2020 Virtual |
| Apr 2021 Virtual |
| Jul 2021 Virtual |

SG3RG-AO
(Asia and Oceania)

| 2017 China |
| 2018 Rep. of Korea |
| 2019 Sri Lanka |
| 2020 Virtual |
| 2021 Virtual |

SG3RG-ARB
(Arab Region)

| 2017 Saudi Arabia |
| 2018 Kuwait |
| 2019 United Arab Emirates |
| 2020 Virtual |
| 2021 Virtual |

SG3RG-EECAT
(Eastern Europe, Central Asia and Transcaucasia)

| 2019 Russian Federation |
| 2020 Belarus |

SG3RG-LAC
(Latin America and the Caribbean)

| 2017 Trinidad and Tobago |
| 2019 Nicaragua |
| 2020 Virtual |
| 2021 Virtual |

In 2018, SG3 celebrated **50 years of ITU-T Regional Groups** and effective presence in the Regions.

An **ITU Regional Standardization Forum (RSF)** or **ITU Workshop/Forum** is usually organized in conjunction to each regional meeting.

A **Bridging the Standardization Gap (BSG) session** is typically held during each regional meeting for the capacity building of each region.