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| ITU logo | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2017-2020 | TSAG-TD478 |
| **TSAG** |
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| **Source:** | Chairman, ITU-T Study Group 3 |
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| **Purpose:** | Information |
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| **Keywords:** | ITU-T SG3; Lead Study Group; |
| **Abstract:**  | This document reports on the progress to date on the lead study group roles of SG3. It covers the period from the last TSAG meeting and addresses some anticipated activities. |

**Report of Lead Study Group 3 Activities**

WTSA-16 assigned three lead study group function to Study Group 3 on the following topics:

* Tariff and accounting principles relating to international telecommunication/ICT
* Economic issues relating to international telecommunication/ICT
* Policy issues relating to international telecommunication/ICT.

## 1 Achievements

Annex 1 provides a set of tables that lists the results, between 1 October 2018 and 30 June 2019, of ITU-T SGs concerning their work on Recommendations on the above lead study group topics.

## 2 Ongoing work

Annex 2 presents recommendations and other texts in scope of the above lead study group functions currently under development in ITU-T study groups.

**3 Lead study group on tariff and accounting principles relating to international telecommunication/ICT**

The studies on accounting principles are being carried out by Q1/3, Q2/3, Q4/3, Q7/3, Q12/3, and Q13/3. The activities on accounting principles are summarized as follows.

* SG3 approved Recommendation [ITU-T D.198](https://www.itu.int/rec/T-REC-D.198) on “Principles for unified format of price/tariffs/rates-lists used for exchanging telephone traffic”.

**4 Lead study group for economic and policy issues relating to international telecommunication/ICT**

The studies on economic and policy issues are being carried out by Q3/3, Q4/3, Q6/3, Q7/3, Q9/3, Q10/3, Q11/3, Q/12/3, and Q13/3. The activities on economic issues are summarized as follows.

* SG3 approved Recommendation [ITU-T D.262](https://www.itu.int/rec/T-REC-D.262) on “Collaborative framework for OTTs”.
* SG3 approved Recommendation [ITU-T D.263](https://www.itu.int/rec/T-REC-D.263/) on “Costs, charges and competition for mobile financial services (MFSs)”, which proposes a possible approach to reduce high retail and wholesale telecommunication charges related to mobile financial service (MFS).
* SG3 achieved the first stage agreement (TAP Determination) on new Recommendation [ITU-T D.264](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG03-R-0017) (D.SpectrumShare), “Shared use of spectrum and telecommunication infrastructure as possible methods for enhancing the efficiency of telecommunications”.
* SG3 agreed on nine reports from Focus Group on Digital Financial Services (FG-DFS) to be published as SG3 Technical Reports:
1. The Digital Financial Services Ecosystem
2. Regulation in the Digital Financial Services Ecosystem
3. Impact of Social Networks on Digital Liquidity
4. Competition Aspects of Digital Financial Services
5. The Regulator’s Perspective on the Right Timing for Inducing Interoperability
6. Access to payment infrastructures
7. Review of DFS User Agreements in Africa: A Consumer Protection Perspective
8. Commonly identified Consumer Protection themes for Digital Financial Services
9. Main Recommendations.
* SG3 circulated a questionnaire on the implementation status of Recommendation [ITU-T D.98](https://www.itu.int/rec/T-REC-D.98), “Charging in international mobile roaming service” and Recommendation [ITU-T D.97](https://www.itu.int/rec/T-REC-D.97/), “Methodological principles for determining international mobile roaming rates”. The questionnaire is contained in [TSB Circular 168](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSB-CIR-0168).

## 5 Implementation of ITU Resolutions

## SG3 as Lead Study Group on tariff and accounting principles, on economic issues, and on policy issues relating to international telecommunication/ICT considers:

* Implementation of WTSA Resolutions 29, 44, 54, 61, 62, 64, 65, 84, 88, 89, and 95;
* Implementation of PP Resolutions 2, 21, 101, 102, 123, 130, 137, 146, 180, 197, 203, 204, 205, 206, COM5/Rec.8;
* Implementation of WTDC Resolutions 22, 23, 63, and 77;
* Implementation of WCIT-12 Articles/Resolutions: 3.7, 4.4, 4.5, 4.6, 4.7, 8.1.1, 8.1.2, 8.2.1, 8.3.1, Appendix 1/1.2, Appendix 1/3.1.3, and Resolution 5 (Dubai 2012).

**6 Engagement of developing countries**

SG3 has six regional groups, of which five regional groups are active, and one regional group is established on an as-needed basis. In the reporting time frame, four regional groups of SG3 met with strong participation of developing countries, which helped to prepare the April 2019 SG3 parent meeting.

* ITU-T SG3 Regional Group for the Arab Region (SG3RG-ARB):
Kuwait City, Kuwait, 19-20 December 2018;
* ITU-T SG3 Regional Group for Africa (SG3RG-AFR):
Antananarivo, Madagascar, 18-22 February 2019;
* ITU-T SG3 Regional Group for Latin America and the Caribbean (SG3RG-LAC):
Managua, Nicaragua, 25-29 March 2019;
* ITU-T SG3 Regional Group for Eastern Europe, Central Asia and Transcaucasia (SG3RG-EECAT): Saint-Petersburg, Russian Federation, 21 May 2019.

Moreover, in conjunction to each regional meeting, an ITU Regional Standardization Forum (RSF) or ITU workshop/forum was organized with the objective to provide an open forum for debating and exchanging views on a number of standardization topics under discussion at ITU-T.

* ITU Regional Standardization Forum On Emerging Economic, Regulatory and Policy Trends In a Fast-Changing Digital World; *Kuwait City, Kuwait, 17 December 2018;*
* ITU Regional Standardization Forum on Emerging Economic, Regulatory and Policy Trends for an Inclusive, Sustainable and Trustworthy Digital World, *Antananarivo, Madagascar, 18 February 2019.*
* ITU Workshop on International Numbering Resources (INRs) for the Americas, *Managua, Nicaragua, 25-26 March 2019.*
* ITU Forum “Internet of Things: future Applications and Services. Perspective 2030", the Fourth ITU Workshop on Network 2030”, *Saint-Petersburg, Russia Federation, 21-23 May 2019.*

**7 Capacity building**

* A newcomers’ training session was conducted by one of the SG3 mentors during the April 2019 SG3 meeting.
* A special session on “Economic and Policy aspects of IoT” was organized during the April 2019 SG3 meeting.
* An ITU-T SG3 Leadership team training took place during the April 2019 SG3 meeting.
* A SG3 mini-workshop on measurement methods to capture the economic value of the Internet is planned at the SG3 meeting in 2020.
* Bridging the Standardization Gap (BSG) activities are highlighted at meetings as a measure to build capacity and to improve working methods in study group functions, especially through the completion and certification of the ITU-T [A.1 training course](https://academy.itu.int/index.php?option=com_joomdle&view=coursecategoryextended&cat_id=:&course_id=1069:recommendation-itu-t-a-1-working-methods-of-itu-t-study-groups-2017&Itemid=478&lang=en).
* Tutorials and guidelines on the presentation, format and submission of contributions are routinely presented at meetings in order to advance the work of ITU-T SG3.

## 8 Cooperation with ITU-T Lead Study Groups, and with TSAG

SG3 considered incoming liaison statements from other ITU-T Lead Study Groups, and sent responses to SG2 on IoT and M2M roaming, on OAM, on OTT bypass, and on ACP; to SG11 on CASC; to SG13 on big data, and to SG12 on quality of service and regulatory frameworks, and on Y.cvms.

SG3 received liaison statements from TSAG, and replied on hot topics, on regional groups, and the proposed FG-QIT4N, and on WTSA-20 preparations.

# 9 Cooperation with other Coordination Groups

SG3 received liaison statements from ITU coordination groups and provided liaison responses to the Collaboration on ITS Communication Standards; and to ITU-T JCA-IMT2020.

# 10 Collaboration with ITU-D, and Collaboration with ITU-R

SG3 received incoming liaison statements from the ITU Development Sector (ITU-D) on subjects such as inter-sector coordination, on economic issues, on OTT, and on contribution related to Universal Services Fund for telemedicine and electronic health projects.

SG3 identified potential collaboration with ITU-D Q1/1, Q2/1, Q3/1, Q4/1, Q6/1, and Q7/2 on policy and economic matters. Generally, ITU-D Question 4/1 will liaise closely with ITU-T SG3 and its regional groups for Africa (SG3RG-AFR), Asia and Oceania (SG3RG-AO), Arab States (SG3RG-ARB), Latin America and the Caribbean (SG3RG-LAC), and Eastern Europe, Central Asia and Transcaucasia (SG3RG-EECAT).

SG3 meeting received incoming liaison statements from the ITU Radio Communication Sector (ITU-R) on subjects such as inter-sector coordination, and on economic aspects of spectrum management. The 2019 SG3 meeting sent liaison statements to ITU-R SG1 on inter-Sector coordination, to ITU-R SG1 WP1B and ITU-D SG1 Q4/1 on matters of shared spectrum, and replied to ITU-D SG1 Q3/1 for continued collaboration, to ITU-D SG1 and ITU-D SG2 on inter-Sector coordination.

## Annex 1Achievements of ITU-T Study Groups onTariff and accounting principles relating to international telecommunication/ICT,Economic issues relating to international telecommunication/ICT,Policy issues relating to international telecommunication/ICT(1 October 2018 - 30 June 2019)

**a) Recommendations approved**

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| **SG** | **No.** | **Title** |
| SG3 | D.198 | Principles for unified format of price/tariffs/rates-lists used for exchanging telephone traffic |
| SG3 | D.262 | Collaborative framework for OTTs |
| SG3 | D.263 | Costs, charges and competition for Mobile Financial Services (MFS) |

**b) Technical Reports agreed**

| **SG** | **No.** | **Title** |
| --- | --- | --- |
| SG3 | DSTR-DFSECO | ITU-T Technical Report: Digital Financial Services – The Digital Financial Services Ecosystem |
| SG3 | DSTR-DFSREG | ITU-T Technical Report: Digital Financial Services – Regulation in the Digital Financial Services Ecosystem |
| SG3 | DSTR-SNDL | ITU-T Technical Report: Digital Financial Services – Impact of Social Networks on Digital Liquidity |
| SG3 | DSTR-DFSCA | ITU-T Technical Report: Digital Financial Services – Competition Aspects of DFS |
| SG3 | DSTR-DFSRP | ITU-T Technical Report: Digital Financial Services – The Regulator’s Perspective on the Right Timing for Inducing Interoperability |
| SG3 | DSTR-DFSPI | ITU-T Technical Report: Digital Financial Services – Access to payment infrastructures |
| SG3 | DSTR-DFSUAAFR | ITU-T Technical Report: Digital Financial Services – Review of DFS User Agreements in Africa: A Consumer Protection Perspective |
| SG3 | DSTR-DFSCP | ITU-T Technical Report: Digital Financial Services – Commonly identified Consumer Protection themes for Digital Financial Services |
| SG3 | DSTR-DFSMR | ITU-T Technical Report: Digital Financial Services – FG DFS recommendations report |

**c) Draft Recommendations determined**

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| **SG** | **No.** | **Title** |
| SG3 | D.264(D.SpectrumShare) | Shared use of spectrum and telecommunication infrastructure as possible methods for enhancing the efficiency of telecommunications |

## Annex 2Current work plan of ITU-T Study Groups onTariff and accounting principles relating to international telecommunication/ICT,Economic issues relating to international telecommunication/ICT,Policy issues relating to international telecommunication/ICT(status 30 June 2019)

| **SG** | **Q** | **No.** | **Title** |
| --- | --- | --- | --- |
| SG3 | 1 | D.Framework\* | Framework for ICT service delivery with the guaranteed QoS and requested bitrate on fixed & mobile data networks, for development of efficient economic mechanisms and models of interaction in the "operator-provider-user" chain |
| SG3 | 2 | D.Colocation\* | Colocation and Access Charges |
| SG3 | \*\*\* | D600R\_AnnexE\* | Annex E to Regional Recommendation ITU-T D.600R |
| SG3 | 2 | STUDY\_COMMAG\*\* | Study of the use of commercial agreements for international telecommunications services arrangements |
| SG3 | 2 | STUDY\_doublecharging\*\* | Study on ‘double charging’ in terms of accounting/settlement mechanisms for International telecommunications services |
| SG3 | 2 | STUDY\_DR\*\* | Dispute Resolution Processes (previously "Dispute Resolution Related to Charging and Invoicing") |
| SG3 | 3 | D.264 (D.SpectrumShare)\* | Shared use of spectrum and telecommunication infrastructure as possible methods for enhancing the efficiency of telecommunications |
| SG3 | 3 | D.Classification\* | Classification of telecommunications services in data networks |
| SG3 | 3 | D.datatariff\* | Principles for tariff regulation of Data Services |
| SG3 | 3 | D.GVR\* | Towards better governance of telecommunication regulation |
| SG3 | 3 | D.IoTpolicy\* | Guidelines on Tariff and regulatory aspects of Internet of Things (IoT) |
| SG3 | 3 | D.Licensing\* | Mechanisms for pricing of licenses for mobile/broadband/fixed |
| SG3 | 3 | STUDY\_DTRANS\*\* | Future of Regulation for Digital Transformation |
| SG3 | 3 | STUDY\_EPQoS\*\* | Study of economic and policy factors relevant to the efficient provision of international telecommunication services |
| SG3 | 3 | STUDY\_IMT2020MVNOs\*\* | 5G related policy considering MVNOs |
| SG3 | 4 | STUDY\_ROAMREG\*\* | Regional Roaming Initiatives |
| SG3 | 6 | D.50.Suppl.3\*\* | Reducing the cost of the international Internet connectivity of the Central African Backbone (CAB) project, Central African Republic component |
| SG3 | 6 | D.BGPE\* | Proposed new recommendation on International Internet Connectivity |
| SG3 | 6 | D.CompIIC\* | Draft Recommendation ITU-T D.XX on Framework for the Competitive Provision of International Internet Connectivity (IIC) |
| SG3 | 6 | D.CostModelIIC\* | Cost model for international Internet connectivity |
| SG3 | 6 | STUDY\_D52GUIDE\*\* | Guidelines on implementation of Recommendation ITU-T D.52 focusing on operationalization of regional Internet exchange points |
| SG3 | 6 | STUDY\_IIC\*\* | International Internet Connectivity, including IP peering, Regional Traffic Exchange Points, and cost of provision of services |
| SG3 | 6 | STUDY\_IPV6\*\* | Economic impact of transition from IPv4 to IPv6 |
| SG3 | 7 | D.IoT/M2M Roaming\* | Roaming aspects of IoT and M2M including any related development and tariff principles |
| SG3 | \*\*\* | D.ONARegionalRoaming | Regional Recommendation AFR on One Network Area Roaming |
| SG3 | \*\*\* | D6\_R\_ROAM | Regional Recommendation to address high roaming charges, regulatory approaches and impact on traffic |
| SG3 | \*\*\* | D7\_R\_ROAM | Regional Recommendation to address high roaming charges, regulatory approaches and impact on traffic |
| SG3 | 7 | TR\_IoTM2M\_roaming\*\* | Roaming aspects of IoT and M2M including any related development and tariff principles |
| SG3 | 8 | D.SIMBOX\* | Economic impact of SIMBOX bypass |
| SG3 | 8 | STUDY\_ACPMI\*\* | Alternative Calling Procedures, and misappropriation and misuse of facilities and services (CLI, CPND and OI) |
| SG3 | 9 | D.50Supp\_OTT\*\* | OTTs in the context of IIC |
| SG3 | 9 | D.ConsumerOTT\* | Customer redress mechanism and consumer protection |
| SG3 | 9 | D.OTTBypass\* | OTT Bypass |
| SG3 | 9 | D.OTTMNO\* | Guidelines on OTT-MNO Partnerships |
| SG3 | \*\*\* | D7\_R\_OTTBypass | Regional Recommendation on OTT bypass including national and regional collaboration between Member States and operators to deal with the OTT bypass issue |
| SG3 | 9 | STUDY\_Convergence\*\* | Study on the economic impact of convergence of technology and services and the role of the Regulator |
| SG3 | 10 | D.CrossBorderSMP\* | Quantifying cross-border market power |
| SG3 | 10 | D.DynamicTariff\* | Impact of Dynamic Tariffing on Market Competitiveness |
| SG3 | 10 | D.NumberPort\* | Recommendation ITU-T "Methodological guide for determining the impact of numerical portability on competition " |
| SG3 | 11 | D.DigID\* | Guidelines for digital identity |
| SG3 | 11 | D.princip\_bigdata\* | ITU-T D.policy framework and principles for data protection in the context of big data relating to international telecommunication services |
| SG3 | 11 | STUDY\_bigdata\*\* | Technical Paper on economic and policy aspects of Big Data in international telecommunication services and networks |
| SG3 | 12 | D.AgentMFS\* | Guidelines for Mobile Financial Service Agents |
| SG3 | 12 | D.ConsumerMFS\* | Consumer Protection in Mobile Financial Services |
| SG3 | 12 | D.EMoneyMFS\* | Guidelines for e-money issuers |
| SG3 | 12 | D.InteropCompetition\* | Interoperability for Competition in Mobile Financial Services |
| SG3 | 12 | D.MFSCM\* | Mobile Financial Services Transaction Cost Model |
| SG3 | 12 | D.MFScoop\* | Guidelines for MOU between telecommunications regulators and central banks taking into account the Zambian experience and existing MOU. |
| SG3 | 12 | STUDY\_DCB\*\* | Direct Carrier Billing |
| SG3 | 13 | D.ModelTTC\* | Model of trans-multi-country terrestrial cable resource sharing |
| SG3 | 13 | STUDY\_TCST\*\* | Charging and accounting settlements in Trans-multi-country terrestrial cable circuit |

Notes:
\* Marked draft Recommendations are for determination.

\*\* Texts for approval by agreement (AAP/TAP not applicable)

\*\*\* Regional Recommendation

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