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| ITU logo | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2017-2020 | | | **TD 84** |
| **TSAG** |
| **Original: English** |
| **Question(s):** | | | N/A | Geneva, 1-4 May 2017 |
| **TD** | | | | |
| **Source:** | | | Rapporteur, TSAG RG-WP | |
| **Title:** | | | Draft report of TSAG Rapporteur Group on Work Programme and structure (Geneva, 1-4 May 2017) | |
| **Purpose:** | | | Discussion | |
| **Contact:** | | Reiner Liebler  Germany | | Tel: +49 228 14-3000 E-mail: [reiner.liebler@bnetza.de](mailto:reiner.liebler@bnetza.de) |

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| **Keywords:** | Report, TSAG, Rapporteur Group, Work Programme, structure |
| **Abstract:** | Report for the TSAG Rapporteur Group on Work Programme and structure |

# 1. Introduction

The TSAG Rapporteur Group on Work Programme and structure (RG-WP) met in two sessions in Geneva, 1-4 May 2017, chaired by the Rapporteur, Mr Reiner Liebler (Germany), assisted by Mr Hiroshi Ota (TSB).

# 2. Agenda

The draft agenda and document allocation is given in [TD79](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0079) (Rapporteur RG-WP). It was decided to handle [TD109](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0109) (SG12) with [TD61](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0061) (SG3). With this modification, the meeting adopted the draft agenda and document allocation.

# 3. Documentation

The RG-WP addressed the 52 documents listed in **Annex A**.

# 4. Recapitulation of previous discussions

The Rapporteur mentioned that the reports from the previous meeting of the RG and TSAG are available in [TD614](https://www.itu.int/md/T13-TSAG-160718-TD-GEN-0614/en) and [TSAG-R8](https://www.itu.int/md/T13-TSAG-R-0008/en), respectively.

# 5. General issues

## 5.1 ToR of RG-WP ([TD99](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0099) (Chair TSAG))

The meeting updated the terms of reference given in TD99 as in **Annex B** and requests approval by TSAG.

## 5.2 Mapping of WTSA Resolutions and ITU-T A-Series Recommendations to TSAG Rapporteur groups ([TD69Rev.2](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0069) (Chair TSAG))

The meeting took note of the mapping given in TD69Rev.2.

## 5.3 Statistics ([TD111](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0111)(TSB))

The meeting took note of the statistics regarding ITU-T Study Group work given in TD111. In particular, regarding “stale work items”, it was decided to request TSAG to send a Liaison Statement to all SGs to encourage to review and consider the stale work items shown in TD111. A draft Liaison Statement is contained in **Annex C**. It was further mentioned that “yellow alarm”, which shows work items that would become stale at the subsequent SG meeting if no update is done, helps management of work items.

# 6. Study Group matters

## 6.1 SG3: New Questions ([TD61](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0061) (SG3) and [TD109](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0109) (SG12))

The meeting recommended to TSAG to endorse the proposed two new Questions (Q12/3 and Q13/3) with the suggestion to delete the sentence “Other topics may be studied as appropriate, based on contributions.” at the end of the “Tasks” section in both Questions. The new Question XX/3 “Economic and Policy Issues pertaining to Quality of Service (QoS) and Quality of Experience (QoE)” was not endorsed. TD109 explains that the scope of SG12’s work is not limited to technical issues. It was mentioned that SGs 3 and 12 should liaise and cooperate as appropriate.

## 6.2 SG13: Revised Questions 19/13, 20/13 and 21/13 ([TD34](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0034) (SG13))

The meeting recommended to TSAG to endorse these revised Questions.

## 6.3 SG17: Creation of a new Question 13/17 and revision of Question 6/17 ([TD51](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0051) (SG17))

The meeting recommended to TSAG to endorse these Questions with a suggestion to delete Questions of other SGs from “Questions:” in “4. Relationships” section since it is covered by “Study Groups:” part. SG17 Chairman mentioned that SG17 will ensure collaboration with SG16 and SG20 since these Questions are closely related to these SGs.

## 6.4 SG20: New structure and revised Questions of ITU-T SG20 ([TD40](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0040) (SG20) and [TD96](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0096) (SG20))

The meeting recommended to TSAG to endorse the revised set of seven Questions of SG20. The meeting noted the new structure of SG20.

# 7. Lead study group activities

## 7.1 Lead Study Group on Big Data ([TD32](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0032) (SG13) and [TD37](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0037) (SG20))

TD32 requests TSAG to designate SG13 as Lead Study Group on Big Data while TD37 requests TSAG not to designate a specific SG as a Lead Study Group on Big Data. The meeting decided not to consider this issue in the RG and to leave it for decision by the plenary session of TSAG.

## 7.2 Report on SG12 lead activities ([TD35](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0035) (SG12))

TD35 reported the SG12 lead activities. It also offered the candidates of recent AAP approved Recommendations for translation (E.802 Amd.1, E.811 and Y.1545.1). Both issues were noted.

## 7.3 Other lead study group activities

The meeting took note of reports from various SGs: SG2 ([TD7](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0007), [TD64](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0064) and [TD67](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0067)), SG11 ([TD60](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0060)), SG13 ([TD52](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0052)), SG15 ([TD8](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0008), [TD11](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0011) and [TD12](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0012)), SG16 ([TD110](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0110)), SG17 ([TD38](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0038), [TD93](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0093), [TD94](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0094) and [TD95](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0095)).

## 7.4 General comments on lead SGs

It was mentioned that lead SG reports should also include activities of relevant other organizations (e.g., other SGs, SDOs) which work on the subject in addition to their own activities. It was also mentioned that information of other organizations’ activities can be obtained through liaisons and JCAs. TSAG is requested to approve a liaison statement on the issue to all SGs (**Annex C**).

# 8. Joint Coordination Activities (JCA)

## 8.1 SG17: LS on JCA-COP ([TD44](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0044))

TD44 reported that the JCA-COP is currently dormant. It was noted. However, SG17 requested its continuation for future consideration. The meeting recommended to TSAG to approve its continuation.

## 8.2 SG16: Creation of JCA on multimedia aspects of e-services ([TD22](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0022))

The meeting recommended to TSAG to endorse the creation of the new JCA.

## 8.3 SG17: JCA-IdM ([TD43](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0043))

The meeting noted the revised ToR and recommended to TSAG to approve its continuation.

## 8.4 JCA on IoT and SC&C ([TD4](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0004), [TD5](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0005) and [TD97](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0097))

The meeting took note of the reports contained in TD4 and TD5. The meeting recommended to TSAG to approve its continuation as requested by TD97.

## 8.5 SG13: New JCA on IMT-2020 ([TD31](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0031) (SG13) and [TD59](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0059) (Chair JCA-IMT-2020))

The meeting recommended to TSAG to endorse this JCA and took note of the roadmaps given in TD59.

## 8.6 SG13: Continuation of JCA-SDN with revised ToR ([TD33](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0033) (SG13))

The meeting recommended to TSAG to approve its continuation.

## 8.7 JCA on technical aspects of telecommunication networks to support the Internet (JCA-Res178)

As there was no document available on this issue, it was not considered by the meeting.

The Rapporteur proposes to TSAG to briefly consider the issue and to close JCA-Res178. The last meeting of JCA-Res178 was held in May 2015. TSAG, at its June 2015 meeting concluded that JCA-Res178 will continue, awaiting contributions from the members of the JCA. No contributions have been received since then.

## 8.8 Report on Collaboration on ITS Communication Standards and ITS-related activities ([TD106](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0106) (Chair CITS))

The meeting took note of the report. ITU-T Study Groups with activities related to ITS communications (SG12, SG16, SG17, SG20) are invited to provide regular updates on their ITS work items to the Collaboration on ITS Communication Standards (CITS).

# 9. Follow-up of FG on Digital Financial Services ([TD36](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0036) (FG-DFS), [TD66](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0066) (SG2) and [TD104](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0104) (TSAG))

The meeting took note of TD66. The meeting agreed on TD104, which was drafted based on TD36, with some revisions. This updated draft Liaison Statement is given in **Annex D** for approval by TSAG.

# 10. Miscellaneous issues

## 10.1 SG13: Insufficient responses on the questionnaires disseminated by SG13 on Cloud Computing Scenarios in developing countries ([TD56](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0056))

Due the importance of the issue, the meeting agreed that it would be advisable to consider TD56 also in TSAG Plenary as there is a broader participation from developing countries than in the RG which may lead to constructive proposals to overcome the problem.

One suggestion made in the RG was that TSAG should send a Liaison Statement to TDAG asking help to increase responses since TDAG/ITU-D may have more channels to developing countries.

## 10.2 Other issues

The meeting took note of the information from various SGs: SG2 ([TD65](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0065), [TD68](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0068)), SG11 ([TD26](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0026)), SG12 ([TD20](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0020)), SG15 ([TD9](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0009), [TD10](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0010), [TD13](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0013) and [TD29](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0029)), SG16 ([TD6](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0006)), SG17 ([TD49](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0049) and [TD50](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0050)), SG20 ([TD1](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-170501-TD-GEN-0001)).

# 11. AOB

It was mentioned by a remote participant at around 10:55 that remote participation was not working properly for this participant.

# 12. Outgoing liaison statement

The RG-WP prepared two draft outgoing liaison statements as follows (see 5.3 and 9.):

* Draft LS/o on stale work items and SG Reports on lead study group activities [to all ITU-T SGs]
* Draft LS/o on transfer of FG DFS (Focus Group Digital Financial Services) outputs to ITU-T Study Groups [for action to ITU-T SG2, SG3, SG12, SG16 and SG17 / for information to ITU-T SG5, SG9, SG11, SG13, SG15 and SG20]

# 13. Closing

The RG-WP meeting closed at 1245 hours on 2 May 2017. The Rapporteur thanked participants, contributors, the SG chairmen and vice-chairmen present for their support and all other people who helped this RG-WP session. He also thanked the secretariat, and in particular Mr. Hiroshi Ota, for the assistance given.

Annex A: List of documents

| **#** | **Agenda Item** | Docs | Summary and Proposal |
| --- | --- | --- | --- |
| **22.2** | **TSAG Rapporteur Group on Work Programme and structure (RG-WP)** |  |  |
| **22.2.1** | **General issues** |  |  |
| 22.2.1.1 | Rapporteur, TSAG Rapporteur Group on Work Programme and structure: draft agenda | TD [079](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0079) | Draft agenda RG-WP. |
| 22.2.1.2 | TSAG Chairman: Proposed TSAG Rapporteur Groups with terms of references and proposed Rapporteurs | [TD 099](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0099) | Terms of references for RG-WP are in Annex B.  TSAG RG-WP is invited to review and approve the Rapporteur Groups with their respective Rapporteurs. |
| 22.2.1.3 | TSB: Mapping of WTSA Resolutions and ITU-T A-Series Recommendations to TSAG Rapporteur groups | [TD 069](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0069) Rev.2 | This document lists all WTSA-16 Resolutions, one Opinion – sorted thematically – and ITU-T A-Series Recommendations and Supplements to the A-Series, and proposes a mapping to the TSAG Rapporteur Groups.  TSAG RG-WP is invited to review this document and to utilize it for its further business. |
| 22.2.1.4 | TSB: Statistics regarding ITU-T study group work (position of 2017-05-01) | [TD 111](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0111/en) | This TD shows Statistics regarding ITU-T study group work (position of 2017-05-01)  TSAG to note. |
| 22.2.2 | **Study Group matters** |  |  |
| 22.2.2.1 | SG3: LS on new Questions for ITU-T SG3 [from ITU-T SG3] | [TD 061](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0061) | SG3 approved two additional Questions (Q12/3 - Tariffs, Economic and Policy Issues Pertaining to Mobile Financial Services (MFS); and Q13/3 - Study of Tariff, Charging Issues of Settlements Agreement of Trans-multi-country Terrestrial Telecommunication Cables) in line with new WTSA-16 Resolutions.  ITU-T SG3 requests TSAG’s approval of these 2 new Questions, as contained in Annex 1 and Annex 2.  SG3 is seeking the view of TSAG on the approval of new Question QXX/3 – Economic and Policy Issues pertaining to Quality of Service (QoS) and Quality of Experience (QoE).  SG3 modified the Terms of Reference for Q7/3. |
| 22.2.2.2 | SG13: LS on endorsement of Questions 19/13, 20/13 and 21/13 revisions [from ITU-T SG13] | [TD 034](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0034) | SG13 revised texts of Questions 19/13, 20/13 and 21/13.  According to WTSA Resolution 1 (Hammamet, 2016) clause 7, 7.1.7, 7.2.4 and 7.2.5, SG13 requests TSAG to endorse the revised texts of the attached documents. |
| 22.2.2.3 | SG17: LS on the creation of a new Question 13/17 and revision of Question 6/17 [from ITU-T SG17] | [TD 051](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0051) | TSAG is requested to endorse new Question 13/17 “Security aspects for Intelligent Transport System” and revised Question 6/17 “Security aspects of telecommunication services, networks and Internet of Things”. |
| 22.2.2.4 | SG20: LS on the new structure of ITU-T SG20 [from ITU-T SG20] | [TD 040](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0040) | This TD contains the new structure of SG20 as approved during the SG20 meeting, Dubai, 13-22 March 2017.  ITU-T SG20 agreed the revised set of seven Questions, which are submitted to TSAG for review and comments, as appropriate, as per Resolution 1, article 7.1.7.  The revised set of Questions are found in Annex 1. |
| 22.2.2.5 | SG20: LS on the new structure of ITU-T SG20 and revised set of Questions | [TD 096](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0096) | This TD contains the new structure of SG20 as approved during the SG20 meeting, Dubai, 13-22 March 2017  ITU-T SG20 agreed the revised set of seven Questions, which are submitted to TSAG for review and comments, as appropriate, as per Resolution 1, article 7.1.7.  The revised set of Questions are found in Annex 1. |
| **22.2.3** | **Lead study group activities** |  |  |
| 22.2.3.1 | SG12: LS from SG12 management on SG3’s proposed new QoS/QoE Question | [TD 109](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0109/en) | The SG12 management team has taken note of SG3–LS1 (TSAG TD61) seeking the view of TSAG on the approval of a new Question under ITU-T SG3 on economic and policy issues pertaining to Quality of Service (QoS) and Quality of Experience (QoE).  As the WTSA-16 designated lead study group on QoS and QoE, the SG12 management team wishes to share its initial views on the SG3 proposal and offer guidance on a way forward.  SG12 invites SG3 delegates with an interest in QoS and QoE to actively contribute to the implementation of the action plan, e.g., by participating and contributing to existing activities and meetings of the QSDG and SG12. |
| 22.2.3.2 | SG13: LS on Lead Study Group Big Data [from ITU-T SG13] | [TD 032](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0032) | SG13 informs on its activities related to Big Data standardization.  SG13 requests TSAG to designate SG13 as Lead Study Group on Big Data. |
| 22.2.3.3 | SG20: LS/r on Lead Study Group Big Data (reply to SG13 - LS 6 -E) [from ITU-T SG20] | [TD 037](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0037) | SG20 requests TSAG not to designate a specific SG as a Lead Study Group on Big Data. |
| 22.2.3.4 | SG2: LS on SG2, Lead Study Group for Service Definition, Numbering, and Routing; Lead Study Group on Telecommunication for Disaster Relief/Early Warning, Network Resilience and Recovery; and Lead Study Group for Telecommunication Management | [TD 007](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0007) | Contains the Lead Study Group 2 report.  TSAG to note. |
| 22.2.3.5 | SG2: LS on Telecommunication Management and OAM Project Plan [from ITU-T SG2] | [TD 067](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0067) | WTSA-16 has assigned the Lead SG role for Telecommunication Management to SG2. In that context, Q.5/2 is responsible for maintaining the Telecommunications Management and OAM Project Plan, to monitor and manage all these activities and issues for the ITU-T. Internal to the ITU-T, this leadership involves providing a kind of framework for Telecommunications Management and OAM activities that can be used to identify and resolve appropriate issues across Study Groups. This LS request to share with SG2 the information about different telecommunication management activity within ITU-T.  TSAG to note. |
| 22.2.3.6 | SG2: LS on Lead Study Group Activities [from ITU-T SG2] | [TD 064](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0064) | This liaison contains summary of progress on the leading roles of ITU-T SG2.  TSAG to note. |
| 22.2.3.7 | SG11 Chairman: Report on ITU-T SG11 lead activities (January-April 2017) | [TD 060](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0060) | This report contains the report of the ITU-T SG11 on lead study group activities (January - April 2017).  TSAG to note. |
| 22.2.3.8 | SG12 Chairman: Report on SG12 lead activities, cooperation with other SDOs, Recommendations for translation (January-April 2017) | [TD 035](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0035) | SG12 provides a report about its lead study group activities, and on fostered cooperation and coordination activities with other standardization organizations.  SG12 requests TSAG to include three of SG12’s most recent AAP-approved Recommendations to the list of Recommendations candidate for translation. |
| 22.2.3.9 | SG13 Chairman: Lead Study Group Report SG13 | [TD 052](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0052) | This document is intended to report a progress to date on each of the lead study group roles of SG13. It covers the period from the beginning of the present study period and addresses some anticipated activities.  TSAG to note. |
| 22.2.3.10 | SG15: LS on SG15 OTNT Standardization Work Plan [from ITU-T SG15] | [TD 008](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0008) | SG15 provides its Optical Transport Networks & Technologies Standardization Work Plan.  TSAG to note. |
| 22.2.3.11 | SG15: LS on the latest version of the Access Network Transport (ANT), Smart Grid and Home Network Transport (HNT) Standards Overviews and Work Plans [from ITU-T SG15] | [TD 011](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0011) | SG15 provides its Access Network Transport (ANT), Smart Grid and Home Network Transport (HNT) Standards Overviews and Work Plans for Inter-Sector coordination.  TSAG to note. |
| 22.2.3.12 | SG15: LS on the latest version of the Access Network Transport (ANT), Smart Grid and Home Network Transport (HNT) Standards Overviews and Work Plans [from ITU-T SG15] | [TD 012](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0012) | SG15 provides its Access Network Transport (ANT), Smart Grid and Home Network Transport (HNT) Standards Overviews and Work Plans for Inter-Sector coordination.  TSAG to note. |
| 22.2.3.13 | SG17: LS on Study Group 17 lead study group report on security [from ITU-T SG17] | [TD 093](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0093) | Holds the SG17 lead study group report on security.  TSAG to note. |
| 22.2.3.14 | SG17: LS on Study Group 17 lead study group report on identity management (IdM) [from ITU-T SG17] | [TD 094](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0093) | Holds the SG17 lead study group report on identity management.  TSAG to note |
| 22.2.3.15 | SG17: LS on Study Group 17 lead study group report on languages and description techniques [from ITU-T SG17] | [TD 095](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0095) | Holds the SG17 lead study group report on languages and description techniques.  TSAG to note |
| 22.2.3.16 | SG17: LS on Security Contacts List of ITU-T SG17 lead Study Group on security [from ITU-T SG17] | [TD 038](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0038) | SG17 requests the other Study Groups to update the Security Contacts List as part of its role as lead study group on Security.  TSAG to note. |
| 22.2.3.17 | SG16: Report on Lead SG activities for ITU-T SG16 | [TD 110](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0110/en) | SG16 lead study group report.  TSAG to note. |
| **22.2.4** | **Joint Coordination Activities (JCA)** |  | (ref. Rec. ITU-T A.1 clause 2.2)  Rec. ITU-T A.1 clause 2.2.10 states: “A JCA may continue across a WTSA but will automatically be reviewed at the first TSAG meeting following the WTSA. A specific decision must be taken on the continuation of the JCA, potentially with adjusted terms of reference.” |
| **22.2.4.2** | **Joint Coordination Activity on Child Online Protection (JCA-COP)** |  |  |
|  | SG17: LS on JCA-COP [from ITU-T SG17] | [TD 044](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0044) | SG17 informs TSAG on the status of JCA-COP.  TSAG is requested to review JCA-COP at its first TSAG meeting following the WTSA and to consider its continuation. |
| **22.2.4.3** | **Joint Coordination Activity on multimedia aspects of e-services (JCA-MMeS)** |  |  |
|  | SG16: LS on the creation of JCA on multimedia aspects of e-services (to various groups) [from ITU-T SG16] | [TD 022](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0022) | SG16 informs about the creation of new JCA on multimedia aspects of e-services, and provides the ToR.  TSAG to note. |
| **22.2.4.4** | **Joint Coordination Activity for Identity Management (JCA-IdM)** |  |  |
|  | SG17: LS on JCA-IdM [from ITU-T SG17] | [TD 043](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0043) | SG17 informs TSAG that it has agreed on the continuation of JCA-IdM with the revised Terms of Reference (as found in the attachment) and an expanded management team.  TSAG is requested to approve the continuation of JCA-IdM with the revised Terms of Reference. |
| **22.2.4.5** | **Joint Coordination Activity on Internet of Things and Smart Cities & Communities (JCA-IoT and SC&C)** |  |  |
| 22.2.4.5.1 | JCA-IoT and SC&C: LS on Information on study of IoT/SC&C related issues in various SDOs [from JCA-IoT and SC&C] | [TD 004](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0004) | Informs on the IoT/SC&C Standards Roadmap and studies of IoT related issues in various SDOs.  TSAG to note. |
| 22.2.4.5.2 | JCA-IoT SC&C: LS on recent work by JCA-IoT and SC&C [from ITU-T JCA-IoT SC&C] | [TD 005](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0005) | Inform on the updated IoT and SC&C standards roadmap.  TSAG to note. |
| 22.2.4.5.3 | JCA- IoT and SC&C: LS on ToR on Joint Coordination Activity on Internet of Things and Smart Cities and Communities (JCA IoT and SC&C) [from JCA- IoT and SC&C] | [TD 097](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0097) | This document contains the ToR of the Joint Coordination Activity on Internet of Things and Smart Cities and Communities (JCA IoT and SC&C).  The Joint Coordination Activity on Internet of Things and Smart Cities and Communities (JCA IoT and SC&C) invites TSAG to approve its continuation. The Terms of Reference of the JCA IoT and SC&C are attached. |
| **22.2.4.6** | **Joint Coordination Activity on IMT-2020 (JCA-IMT2020)** |  |  |
| 22.2.4.6.1 | SG13: LS on New Joint Coordination Activity on IMT-2020 (JCA-IMT-2020) [from ITU-T SG13] | [TD 031](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0031) | SG13 has established a new Joint Coordination Activity on IMT-2020 (JCA-IMT2020) with ToR.  TSAG is requested to review, possible to comment and endorse the new JCA-IMT2020. |
| 22.2.4.6.2 | Chairman JCA-IMT-2020: JCA-IMT-2020 Roadmaps | [TD 059](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0059) | Introduces the roadmap deliverables from the JCA-IMT-2020 for this study period.  TSAG to note. |
| **22.2.4.7** | **Joint Coordination Activity on Software-Defined Networking (JCA-SDN)** |  |  |
|  | SG13: LS on Continuation of JCA-SDN with revised ToR [from ITU-T SG13] | [TD 033](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0033) | SG13 continues its JCA-SDN with revised ToR.  TSAG is requested to approve the continuation of JCA-SDN through the current year with the revised Terms of Reference |
| **22.2.4.8** | **Joint Coordination Activity on technical aspects of telecommunication networks to support the Internet (JCA-Res178)** |  | The last meeting of JCA-Res178 was held in May 2015. TSAG, at its June 2015 meeting concluded that JCA-Res178 will continue, awaiting contributions from the members of the JCA.  No contributions have been received since then.  TSAG to close JCA-Res178. |
| **22.2.5** | **Chairman CITS: Report on Collaboration on ITS Communication Standards and ITS-related activities** | [TD 106](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0106) | The document summarizes ITU-T activities in the field of ITS communications since the last meeting of TSAG.  TSAG is invited to note the report.  ITU-T Study Groups with activities related to ITS communications (SG12, SG16, SG17, SG20) are invited to provide regular updates on their ITS work items to the Collaboration on ITS Communication Standards (CITS). |
| **22.2.5bis (ex.10.3)** | **Follow-up of FG on Digital Financial Services** |  |  |
| 22.2.5bis.1 (ex. 10.3.1) | FG-DFS: LS on transfer of FG DFS outputs to ITU-T Study Groups [from ITU-T FG DFS] | [TD 036](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0036) | The Focus Group concluded its work at its last meeting on 6-7 December 2016.  The Focus Group produced a series of 28 technical reports:   * DFS Ecosystem (12 technical reports) * Interoperability (5 technical reports) * Consumer protection (3 technical reports) * Technology, Innovation and Competition (7 technical reports) * recommendations.   The table shows the list of the technical reports produced and the recommendations per theme and the suggested ITU-T Study Group for submission of each deliverable for TSAG consideration and further action.  TSAG to discuss and advise on the way forward to transfer the FG-DFS reports to the Study Groups and to other entities. |
| 22.2.5bis.2 (ex. 10.3.2) | SG2: LS on Technical reports from FG DFS (Focus Group Digital Financial Services) [from ITU-T SG2] | [TD 066](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0066) | This document contains the liaison to TSAG on technical reports from FG DFS.  TSAG to note and to follow-up upon. |
| 22.2.5bis.3 (ex. 10.3.3) | TSAG Chairman: draft LS/o on transfer of FG DFS (Focus Group Digital Financial Services) outputs to ITU-T Study Groups [to ITU-T SG 2, 3, 12, 16 and 17] | [TD 104](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0104) | The Focus Group Digital Financial Services was set up by TSAG in June 2014 with a lifetime of two years and had its first meeting on 5th December 2014. The Focus Group concluded its work at its last meeting on 6-7 December 2016. The Focus Group produced a series of 28 technical reports:   * DFS Ecosystem (12 technical reports) * Interoperability (5 technical reports) * Consumer protection (3 technical reports) * Technology, Innovation and Competition (7 technical reports) * Recommendations   The table attached shows the ITU-T Study Group which TSAG recommends to consider each deliverable for further action.  TSAG to approve the draft OLS. |
| **22.2.6** | **Miscellaneous issues on ITU-T Study Groups** |  |  |
| **22.2.6.1** | **Miscellaneous ITU-T SG2** |  |  |
|  | SG2: LS/r on response to ITU-T SG20 (reply to SG20 - LS23) [from ITU-T SG2] | [TD 065](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0065) | This document contains a reply from SG2 to the liaison SG20 –LS 23 on IoT NNAI.  TSAG to note. |
|  | LS/r on IoT management collaboration request (reply to SG20 - LS22 and SG20 - LS24) [from ITU-T SG2] | [TD 068](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0068) | Define the way of collaboration improvement as well as terms and definitions conformance/alignment between SG2 and SG20.  TSAG to note. |
| **22.2.6.2** | **Miscellaneous ITU-T SG11** |  |  |
|  | SG11: LS/r on Operational Plan for Implementation of WTSA-16 Resolution 95 (Hammamet, 2016) (reply to SG12 - LS 4) [from ITU-T SG11] | [TD 026](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0026) | SG11 informs on their mandate to develop test suites for standardized network parameters such as e2e bit rate.  TSAG to note. |
| **22.2.6.3** | **Miscellaneous ITU-T SG12** |  |  |
|  | SG12: LS/r on SG12’s views on SG11-LS123 and SG11-LS128 | [TD 020](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0020) | SG12 cooperates and coordinates with SG11 on performance, QoS, QoE, testing tools.  TSAG to note. |
| **22.2.6.4** | **Miscellaneous ITU-T SG13** |  |  |
|  | SG13: LS on the insufficient responses on the questionnaires disseminated by SG13 on Cloud Computing Scenarios in Developing Countries | [TD 056](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0056) | SG13 reports on their experiences on a questionnaire sent to developing countries, where only an insufficient number of responses was obtained. SG13 observed that the number of responses from developing countries to questionnaires dealing with technical aspects is always low in comparison with questionnaires on policy and regulatory issues.  SG13 seeks advice from TSAG on ways to improve the number of responses from developing countries and in particular those concerning technical issues. |
| **22.2.6.5** | **Miscellaneous ITU-T SG15** |  |  |
|  | SG15: New version of the Access Network Transport (ANT) Standards Overview and Work Plan | [TD 009](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0009) | SG15 provides its Access Network Transport (ANT) Standards Overview and Work Plan.  TSAG to note. |
|  | SG15: LS on New version of the Home Network Transport (HNT) Standards Overview and Work Plan [from ITU-T SG15] | [TD 010](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0010) | SG15 provides its Home Network Transport (HNT) Standards Overview and Work Plan.  TSAG to note. |
|  | SG15: LS/r to RevCom on increasing efficiency of work in ITU-T (reply to RevCom-LS 2) | [TD 013](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0013) | SG15 has not identified stale groups on the list covering activities related with its work items.  TSAG to note. |
|  | SG15: LS on Application of SDN to transport networks [from ITU-T SG15] | [TD 029](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0029) | SG15 informs on two Recommendations on transport networks that are related to SDN.  TSAG to note. |
| **22.2.6.6** | **Miscellaneous ITU-T SG16** |  |  |
|  | SG16: LS on newly completed work on accessibility (to all ITU-T SGs) [from ITU-T Q26/16] | [TD 006](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0006) | SG16 informs on two completed Recommendations and two Technical Papers on Accessibility.  TSAG to note. |
| **22.2.6.7** | **Miscellaneous ITU-T SG17** |  |  |
|  | SG17: LS on the implementation of WTSA-16 Res. 94 on the security aspects of event data technologies [from ITU-T SG17] | [TD 050](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0050) | SG17 informs TSAG and other study groups about our discussion result as for WTSA-16 Res. 94.  TSAG to note. |
|  | SG17: LS on revised terms of reference for Correspondence Group on Security and Privacy for IoT (CG-IoTsec) [from ITU-T SG17] | [TD 049](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0049) | SG17 provides updated terms of reference for Correspondence Group on Security and Privacy for IoT.  TSAG to note. |
| **22.2.6.8** | **Miscellaneous ITU-T SG20** |  |  |
|  | SG20: LS/r on additional transfer of Smart Sustainable Cities works and collaboration with ITU-T Study Group 5 (reply to SG5-LS167) [from ITU-T SG20] | [TD 001](https://www.itu.int/md/T17-TSAG-170501-TD-GEN-0001) | SG20 informs SG5 on the allocated Recommendations and Supplements to Q1/20, Q5/20 and Q6/20 for maintenance.  TSAG to note. |

Annex B: Updated terms of references

**Terms of References of TSAG Rapporteur Group on Work Programme and Study Group Structure (RG-WP)**

1. To consider issues related to work programme and study group structure for 2017-2020 study period.
2. The TSAG Rapporteur Group on work programme and study group structure is tasked to develop the detailed study group structure for the 2021-2024 study period.

Based on the inputs from the study groups and proposals from the membership, and based on the restructuring principles, the Rapporteur Group develops a report and proposal(s) to be submitted by TSAG to WTSA-20 on study group responsibilities, mandates and allocation of work to be defined in WTSA Resolution 2.

The Rapporteur Group also develops a draft text of WTSA Resolution 2.

Annex C: Draft Liaison Statement on stale work items

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| --- | --- | --- | --- | --- | --- | --- |
| ITU logo | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2017-2020 | | | |  | |
| **TSAG** | |
| **Original: English** | |
| **Question(s):** | | | N/A | | Geneva, 1-4 May 2017 | |
| **TD** | | | | | | |
| **Source:** | | | TSAG | | | |
| **Title:** | | | Draft LS/o on stale work items and SG Reports on lead study group activities [to all ITU-T SGs] | | | |
| **Purpose:** | | | Information | | | |
| **LIAISON STATEMENT** | | | | | | |
| **For action to:** | | | | All ITU-T SGs | | |
| **For comment to:** | | | | - | | |
| **For information to:** | | | | - | | |
| **Approval:** | | | | TSAG meeting (1-4 May 2017) | | |
| **Deadline:** | | | | February 2018 | | |
| **Contact:** | | Bruce Gracie TSAG Chairman | | | | Tel: +1 613 592-3180 E-mail: [bruce.gracie@ericsson.com](mailto:bruce.gracie@ericsson.com) |

|  |  |
| --- | --- |
| **Keywords:** | Stale work items, Workprogramme, Lead Study Group Reports |
| **Abstract:** | TSAG encourages all ITU-T SGs to consider the treatment of “stale work items” identified at its meeting in May 2017. TSAG requests to include work of relevant other organizations in addition to their own activities |

We would like to inform you that statistics regarding ITU-T Study Group work are available as TD111Rev.1, which includes “stale work items”. All ITU-T SGs are encouraged to review their stale work items and consider treatment of these work items.

TSAG would also like to request SGs in their reporting on their lead study group activities to include work of relevant other organizations (e.g., other SGs, other SDOs) which are active on the subject in addition to their own activities.

Annex D: Proposed modification to TD104

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| --- | --- | --- | --- | --- | --- | --- |
| ITU logo | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2017-2020 | | | | **TD 104** | |
| **TSAG** | |
| **Original: English** | |
| **Question(s):** | | | N/A | | Geneva, 1-4 May 2017 | |
| **TD** | | | | | | |
| **Source:** | | | TSAG | | | |
| **Title:** | | | Draft LS/o on transfer of FG DFS (Focus Group Digital Financial Services) outputs to ITU-T Study Groups [to ITU-T SG2, SG3, SG12, SG16 and SG17] | | | |
| **Purpose:** | | | Proposal | | | |
| **LIAISON STATEMENT** | | | | | | |
| **For action to:** | | | | ITU-T SG2, SG3, SG12, SG16 and SG17 | | |
| **For comment to:** | | | | - | | |
| **For information to:** | | | | ITU-T SG5, SG9, SG11, SG13, SG15 and SG20 | | |
| **Approval:** | | | | TSAG meeting (1-4 May 2017) | | |
| **Deadline:** | | | | February 2018 | | |
| **Contact:** | | Bruce Gracie TSAG Chairman | | | | Tel: +1 613 592-3180 E-mail: [bruce.gracie@ericsson.com](mailto:bruce.gracie@ericsson.com) |

|  |  |
| --- | --- |
| **Keywords:** | Digital Financial Services, eMoney, mobile money, mobile payments, security, digital identity, interoperability, |
| **Abstract:** | The Focus Group Digital Financial Services was set up by TSAG in June 2014 with a lifetime of two years and had its first meeting on 5th December 2014. The Focus Group concluded its work at its last meeting on 6-7 December 2016. The Focus Group produced a series of 28 technical reports: • DFS Ecosystem (12 technical reports) • Interoperability (5 technical reports) • Consumer protection (3 technical reports) • Technology, Innovation and Competition (7 technical reports) • Recommendations The table below shows the ITU-T Study Groups to which TSAG distributes the deliverables for information and action within the mandate of the respective Study Group. |

We are pleased to inform you that TSAG has agreed to forward the 28 technical reports and 85 recommendations of the Focus Group Digital Financial Services to the ITU-T Study Groups mentioned in the table below for review and action within the mandate of the respective Study Groups.

| **Theme** | **Deliverables** | **Forward to ITU-T SG:** |
| --- | --- | --- |
| DFS Ecosystem | [The Digital Financial Services Ecosystem](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/09_2016/FINAL%20ENDORSED%20ITU%20DFS%20Introduction%20Ecosystem%2028%20April%202016_formatted%20AM.pdf) | ITU-T SGs 2, 3 and 16 |
| [Enabling Merchant Payments Acceptance in the Digital Financial Ecosystems](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/09_2016/FINAL%20ENDORSED%20Enabling%20Merchant%20Payments%20Acceptance%2030%20May%202016_formatted%20AM.pdf) |  |
| [Role of Postal Networks in Digital Financial Services](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/10_2016/The%20Role%20of%20Postal%20Networks%20in%20Digital%20Financial%20Services_Formatted.pdf) | ITU-T SGs 2 and 16 |
| [Regulation in the Digital Financial Services Ecosystem](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/09_2016/Regulation%20and%20the%20DFS%20Ecosystem.pdf) | ITU-T SG3 |
| [Merchant Data and Lending](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/10_2016/ITUFGDFS_REPORT_ON_Merchant%20Data_And_Lending-10-2016_final.pdf) |  |
| [Review of National Identity Programs](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/09_2016/Review%20of%20National%20Identity%20Programs.pdf) | ITU-T SG17 |
| [Impact of Social Networks on Digital Liquidity](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/10_2016/ITUFGDFS_REPORT%20ON%20%20Impact%20of%20Social%20Networks%20on%20Digital%20Liquidity-11-2016.pdf) | ITU-T SG3 |
| [Digital Financial Services Glossary](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/201701/ITU_FGDFS_DFS-Glossary.pdf) | ITU-T SGs 2, 3 and 16 |
| [Bulk Payments and the DFS Ecosystem](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/10_2016/ITUFGDFS_REPORT%20ON%20Bulk%20Payments_11-2016.pdf) | ITU-T SGs 2 and 16 |
| [B2B and the DFS Ecosystem](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/10_2016/ITUFGDFS_REPORT%20ON%20B2BandDFSEcosystem-11-2016.pdf) | ITU-T SGs 2 and 16 |
| [Impact of Agricultural Value Chains on Digital Liquidity](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/10_2016/10.Impact_of_Agricultural_Value_Chains_on_Digital_Liquidity.pdf) |  |
| [Over the counter transactions: A threat to or a facilitator for digital finance ecosystems?](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/12_2016/ITUFGDFS_REPORT%20ON%20OTC%20_11-2016.pdf) |  |
| DFS Ecosystem recommendations from [FG DFS recommendations report](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/201703/ITU_FGDFS_Main-Recommendations.pdf) | ITU-T SGs 2, 3 and 16 |
| Technology, Innovation and Competition | [Security Aspects of DFS](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Documents/ITU_FGDFS_SecurityReport.pdf) | ITU-T SG17 |
| [DFS Vendor Platform Features](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/201702/ITU_FGDFS_Report-DFSVendorPlatform.pdf) | ITU-T SG2 |
| [Mobile Handset Use in DFS](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/201703/ITU_FGDFS_Report-Mobile-Handset-Features.pdf) | ITU-T SG2 |
| [Identity and Authentication](http://www.itu.int/en/ITU-T/studygroups/2017-2020/09/Documents/ITU_FGDFS_Report_IdentityandAuthentication.pdf) | ITU-T SG17 |
| [Competition Aspects of DFS](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/201703/ITU_FGDFS_Report-Competition-Aspects-of-DFS.pdf) | ITU-T SG3 |
| [Distributed Ledger Technologies and Financial Inclusion](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/201703/ITU_FGDFS_Report-on-DLT-and-Financial-Inclusion.pdf) | ITU-T SGs 16 and 17 |
| [Technology evolution and innovation in DFS](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/201703/ITU_FGDFS_Report-on-technology-evolution-and-innovation-in-DFS.pdf) | ITU-T SG16 |
| Technology, Innovation and Competition recommendations from [FG DFS recommendations report](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/201703/ITU_FGDFS_Main-Recommendations.pdf) | ITU-T SG3 |
| Interoperability | [Cooperation frameworks between Authorities, Users and Providers for the development of the National Payments System](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/09_2016/Cooperation%20frameworks%20between%20Authorities%2c%20Users%20and%20Providers%20for%20the%20development%20of%20the%20National%20Payments%20System.pdf) |  |
| [The Regulator’s Perspective on the Right Timing for Inducing Interoperability](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/201702/ITU_FGDFS_Report-Right-Timing-for-Inducing-Interoperability.pdf) | ITU-T SG3 |
| [Payment System Oversight and Interoperability](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/10_2016/ITUFGDFS_REPORT%20ON%20Payment%20System%20Oversight%20and%20Interoperability.pdf) |  |
| [Payment System Interoperability and Oversight: The International Dimension](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/10_2016/ITUFGDFS_REPORT%20ON%20Payment%20System%20InteroperabilityandOversightThe%20InternationalDimension-11-2016.pdf) |  |
| [Access to payment infrastructures](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/09_2016/Access%20to%20Payment%20Infrastructures.pdf) | ITU-T SG3 |
| Interoperability recommendations from [FG DFS recommendations report](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/201703/ITU_FGDFS_Main-Recommendations.pdf) | ITU-T SG3 |
| Consumer Experience and Protection | [Review of DFS User Agreements in Africa: A Consumer Protection Perspective](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/01_2017/ITU_FGDFS_Report-on-Review-of-DFS-User-Agreements-in-Africa.pdf) | ITU-T SG3 |
| [QoS and QoE Aspects of Digital Financial Services](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/09_2016/FGDFSQoSReport.pdf) | ITU-T SG12 |
| [Commonly identified Consumer Protection themes for Digital Financial Services](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/09_2016/ConsumerProtectionThemesForBestPractices.pdf) | ITU-T SG 3 |
| Consumer experience and protection recommendations from [FG DFS recommendations report](http://www.itu.int/en/ITU-T/focusgroups/dfs/Documents/201703/ITU_FGDFS_Main-Recommendations.pdf) | ITU-T SGs 3 and 12 |

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