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|  |  **Radiocommunication Advisory Group Geneva, 10-13 May 2016** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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|  | **Document RAG16/4-E** |
| **21 March 2016** |
| **English only** |
| TSAG |
| LIAISON STATEMENT to the RAG ON ITU INTER-SECTOR COORDINATION |

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| **Summary**The attached TSAG document presents the liaison statement from TSAG on ITU inter‑Sector coordination.**Action required**RAG is invited to review this document and to provide guidance as deemed appropriate. |

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| INTERNATIONAL TELECOMMUNICATION UNION | **TSAG** |
| **TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2013-2016 |  |
| **English only****Original: English** |
| **Question(s):** |  |  |
| **LIAISON STATEMENT** |
| **Source:** | TSAG |
| **Title:** | LS/o on ITU inter-Sector coordination [to ISCT, TDAG, ITU-D SGs, RAG, ITU-R SGs, ITU-T SGs] |
| **LIAISON STATEMENT** |
| **For action to:** | - |
| **For comment to:** | ISCT, TDAG, all ITU-D SGs, RAG, all ITU-R SGs, ITU-T SGs 2, 3, 5, 9, 11, 12, 13, 15, 16, 17, 20 |
| **For information to:** | **-** |
| **Approval:** | TSAG meeting (Geneva, 1 – 5 February 2016) |
| **Deadline:** | 30 June 2016 |
| **Contact:** | Bruce GracieTSAG ChairmanCanada | Tel: + 1 613 990-4254E-mail: bruce.gracie13@rogers.com  |
| **Contact:** | Vladimir MinkinChairman of TSAG Sub-Group of Intra-ITU CollaborationRussian Federation | Tel: +7 (495) 261-9307E-mail: minkin@ties.itu.int |
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TSAG, through its Rapporteur Group on “Strengthening Collaboration” (WTSA Resolution 81) and its sub-group on Intra-ITU Collaboration and Coordination, thanks all who reviewed our former material on ITU inter-Sector coordination, and on candidate topics on working methods for ITU inter-Sector coordination and provided us with very valuable feedback. We accepted all amendments and updated the mapping material accordingly.

We are glad to announce having finalized compiling the mapping of common interest areas of work between the ITU-D and ITU-T SGs and between the ITU-R and ITU-T SGs. Please refer to the attachments 1 and 2 of this liaison statement respectively to review these mappings and to provide us with your further comments.

The mappings either show already ongoing ITU inter-Sector cooperation, or indicate possibilities for new inter-Sector cooperation.

The next task envisaged by the group is to evaluate the collected material from the perspective of adding value by further enhancing collaboration and/or cooperation with other ITU Sectors in implementation of the WTSA-12 decisions assigned by the Resolution 57 of the World Telecommunication Standards Assembly (Dubai, 2012).

We are also examining existing methods and approaches to collaboration and/or cooperation with other Sectors, with the view of enhancing collaboration of ITU-T and other organizations in a reciprocal manner based on mutual respect in accordance with Resolution 57 of the World Telecommunication Standards Assembly (Dubai, 2012).

We are looking forward to receiving your feedback on candidate topics on working methods for ITU inter-Sector coordination (ref. Attachment 3).

We are inviting any suggestions that would improve the collaboration and cooperation between the ITU Sectors.

**Attachments: 3**

* Attachment 1 – Matching of ITU-D SG 1 and 2 Questions of interest to ITU-T study groups.
* Attachment 2 – Matching of ITU-R WPs of interest to ITU-T study groups.
* Attachment 3 – Candidate topics on working methods for ITU inter-Sector coordination (updated)

# Attachment 1

# Matching of ITU-D SG 1 and 2 Questions of interest to ITU-T study groups

Revisions herein reflect:

* TSAG TD 347: LS/i/r on material on ITU inter-Sector coordination of mutual interest (reply to TSAG - LS 10 -E) [from ITU-T SG9]
* TSAG TD 351: LS/i/r on ITU inter-sector coordination (response to TSAG-LS013) [from ITU-T SG17]
* TSAG TD 361: LS/i/r on ITU inter-sector coordination (TSAG-LS-10), (TSAG-LS-11) (to TSAG) [from ITU-T SG16]
* TSAG TD 363: LS/i/r on ITU inter-sector coordination (reply to TSAG - LS 13) [from ITU-T SG20]
* TSAG TD 371: LS/i/r on material on ITU inter-Sector coordination of mutual interest (reply to TSAG-LS10) [from ITU-T SG5].
* Removed Q25/16 as work on IoT was transferred to Q4/20.

| **ITU-D Question** | **ITU-T SG** | **ITU-T SG Questions** |
| --- | --- | --- |
| [Question 1/1](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG01-RGQ01.1&stg=1): Policy, regulatory and technical aspects of the migration from existing networks to broadband networks in developing countries, including next-generation networks, m-services, OTT services and the implementation of IPv6 | [SG2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/default.aspx) | [Q1/2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/q1.aspx): Application of numbering, naming, addressing and identification plans for fixed and mobile telecommunication services |
| [SG3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/default.aspx) | [Q1/3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/q1.aspx): Development of charging and accounting/settlement mechanisms for international telecommunications services using the Next Generation Networks (NGNs) and any possible future development, including adaptation of existing D-series Recommendations to the evolving user needs[Q2/3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/q2.aspx): Development of charging and accounting/settlement mechanisms for international telecommunications services, other than those studied in Question 1/3, including adaptation of existing D-series Recommendations to the evolving user needs[Q3/3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/q3.aspx): Study of economic and policy factors relevant to the efficient provision of international telecommunication service[Q4/3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/q4.aspx): Regional studies for the development of cost models together with related economic and policy issues |
| [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q2/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q2.aspx): Measurement and control of the end-to-end quality of service (QoS) for advanced television technologies, from image acquisition to rendering, in contribution, primary distribution and secondary distribution networks[Q3/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q3.aspx): Methods and practices for conditional access, protection against unauthorized copying and against unauthorized redistribution ("redistribution control" for digital cable television distribution to the home)[Q4/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q4.aspx): Software components application programming interfaces (APIs), frameworks and overall software architecture for advanced content distribution services within the scope of Study Group 9[Q5/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q5.aspx): Functional requirements for residential gateway and set-top box for the reception of advanced content distribution services[Q6/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q6.aspx): Digital programme delivery controls for multiplexing, switching and insertion in compressed bit streams[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q8/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q8.aspx): The IP enabled multimedia applications and services for cable television networks enabled by converged platforms[Q9/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q9.aspx): Requirements for advanced service capabilities for broadband cable home networks[Q10/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q10.aspx): Requirements, methods, and interfaces of the advanced service platforms to enhance the delivery of sound, television, and other multimedia interactive services over cable television network[Q11/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q11.aspx): Transmission of multichannel analogue and/or digital television signals over optical access networks[Q12/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q12.aspx): Objective and subjective methods for evaluating perceptual audiovisual quality in multimedia services within the terms of Study Group 9 |
| [SG11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/default.aspx) | [Q1/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q1.aspx): Signalling and protocol architectures in emerging telecommunication environments[Q2/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q2.aspx): Signalling requirements and protocols for service and application in emerging telecommunication environments[Q5/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q5.aspx): Protocol procedures relating to services provided by Broadband Network Gateways[Q6/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q6.aspx): Protocol procedures relating to specific services over IPv6[Q8/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q8.aspx): Guidelines for implementations of signalling requirements and protocols |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx)[QSDG](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/questions.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU‑T[Q11/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q11.aspx): Performance interworking and traffic management for Next Generation Networks[Q12/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q12.aspx): Operational aspects of telecommunication network service quality[Q17/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q17.aspx): Performance of packet-based networks and other networking technologies |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q1/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q1.aspx): Service scenarios, deployment models and migration issues based on convergence services[Q2/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q2.aspx): Requirements for NGN evolution (NGN-e) and its capabilities including support of IoT and use of software-defined networking[Q3/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q3.aspx): Functional architecture for NGN evolution (NGN-e) including support of IoT and use of software-defined networking[Q5/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q5.aspx): Applying IMS, IMT and other new technologies in developing country mobile telecom networks[Q13/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q13.aspx): Requirements, mechanisms and frameworks for packet data network evolution |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q3/15](file:///C%3A%5CUsers%5Ckurakova%5CAppData%5CLocal%5CTemp%5CRar%24DIa0.830%5CQ3%5C15): General characteristics of transport networks[Q12/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q12.aspx): Transport network architectures |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q3/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q3.aspx): Multimedia gateway control architectures and protocols[Q13/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q13.aspx): Multimedia application platforms and end systems for IPTV[Q20/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q20.aspx): Multimedia coordination[Q21/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q21.aspx): Multimedia framework, applications and services |
| [SG17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/default.aspx) | [Q2/17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/q2.aspx): Security architecture and framework |
| [SG20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/default.aspx) | [Q2/20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/q2.aspx): Requirements and use cases for IoT[Q3/20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/q3.aspx): IoT functional architecture including signalling requirements and protocols |
| [Question 2/1](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG01-RGQ02.1&stg=1): Broadband access technologies, including IMT, for developing countries | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q5/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q5.aspx): Functional requirements for residential gateway and set-top box for the reception of advanced content distribution services[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q9/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q9.aspx): Requirements for advanced service capabilities for broadband cable home networks[Q11/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q11.aspx): Transmission of multichannel analogue and/or digital television signals over optical access networks |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q17/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q17.aspx): Performance of packet-based networks and other networking technologies |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q5/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q5.aspx): Applying IMS, IMT and other new technologies in developing country mobile telecom networks |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q2/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q2.aspx): Optical systems for fibre access networks[Q4/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q4.aspx): Broadband access over metallic conductors[Q15/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q15.aspx): Communications for Smart Grid[Q18:15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q18.aspx): Broadband in-premises networking |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q21/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q21.aspx): Multimedia framework, applications and services |
| [Question 3/1](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG01-RGQ03.1&stg=1): Access to cloud computing: challenges and opportunities for developing countries | [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q17/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q17.aspx): Energy efficiency for the ICT sector and harmonization of environmental standards |
| [SG11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/default.aspx) | [Q14/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q14.aspx): Cloud interoperability testing |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q17/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q17.aspx): Cloud computing ecosystem, general requirements, and capabilities[Q18/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q18.aspx): Cloud functional architecture, infrastructure and networking[Q19/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q19.aspx): End-to-end Cloud computing service and resource management |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q3/15](file:///C%3A%5C_Euchner%5C_ITU-T%5CITU-T%20A.series%5C2015_01_Strengthening_cooperation_Tunisia%5CQ3%5C15): General characteristics of transport networks[Q12/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q12.aspx): Transport network architectures |
| [SG17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/default.aspx) | [Q8/17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/q8.aspx): Cloud computing security |
| [Question 4/1](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG01-RGQ04.1&stg=1): Economic policies and methods of determining the costs of services related to national telecommunication/ICT networks, including next-generation networks | [SG3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/default.aspx) | [Q1/3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/q1.aspx): Development of charging and accounting/settlement mechanisms for international telecommunications services using the Next Generation Networks (NGNs) and any possible future development, including adaptation of existing D-series Recommendations to the evolving user needs[Q2/3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/q2.aspx): Development of charging and accounting/settlement mechanisms for international telecommunications services, other than those studied in Question 1/3, including adaptation of existing D-series Recommendations to the evolving user needs[Q3/3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/q3.aspx): Study of economic and policy factors relevant to the efficient provision of international telecommunication service[Q4/3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/q4.aspx): Regional studies for the development of cost models together with related economic and policy issues |
| [Question 5/1](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG01-RGQ05.1&stg=1): Telecommunications/ICTs for rural and remote areas | [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q14/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q14.aspx): Setting up a low-cost sustainable telecommunication infrastructure for rural communications in developing countries |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q3/15](file:///C%3A%5C_Euchner%5C_ITU-T%5CITU-T%20A.series%5C2015_01_Strengthening_cooperation_Tunisia%5CQ3%5C15): General characteristics of transport networks[Q12/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q12.aspx): Transport network architectures |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q13/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q13.aspx): Multimedia application platforms and end systems for IPTV[Q21/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q21.aspx): Multimedia framework, applications and services[Q26/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q26.aspx): Accessibility to multimedia systems and services[Q28/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q28.aspx): Multimedia framework for e-health applications |
| [SG20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/default.aspx) | [Q4/20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/q4.aspx): IoT applications and services including end user networks and interworking |
| [Question 6/1](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG01-RGQ06.1&stg=1): Consumer information, protection and rights: Laws, regulation, economic bases, consumer networks | [SG2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/default.aspx) | [Q1/2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/q1.aspx): Application of numbering, naming, addressing and identification plans for fixed and mobile telecommunication services[Q4/2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/q4.aspx): Human factors related issues for improvement of the quality of life through international telecommunications |
| [SG11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/default.aspx) | [Q8/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q8.aspx): Guidelines for implementations of signalling requirements and protocols |
| [Question 7/1](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG01-RGQ07.1&stg=1): Access to telecommunication/ICT services by persons with disabilities and with specific needs | [SG2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/default.aspx) | [Q4/2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/q4.aspx): Human factors related issues for improvement of the quality of life through international telecommunications  |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q26/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q26.aspx): Accessibility to multimedia systems and services |
| [JCA-AHF](http://www.itu.int/en/ITU-T/jca/ahf/Pages/default.aspx) |  |
| [Question 8/1](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG01-RGQ08.1&stg=1): Examination of strategies and methods of migration from analogue to digital terrestrial broadcasting and implementation of new services | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q3/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q3.aspx): Methods and practices for conditional access, protection against unauthorized copying and against unauthorized redistribution ("redistribution control" for digital cable television distribution to the home)[Q4/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q4.aspx): Software components application programming interfaces (APIs), frameworks and overall software architecture for advanced content distribution services within the scope of Study Group 9[Q5/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q5.aspx): Functional requirements for residential gateway and set-top box for the reception of advanced content distribution services[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q8/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q8.aspx): The IP enabled multimedia applications and services for cable television networks enabled by converged platforms[Q9/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q9.aspx): Requirements for advanced service capabilities for broadband cable home networks[Q11/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q11.aspx): Transmission of multichannel analogue and/or digital television signals over optical access networks |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q13/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q13.aspx): Multimedia application platforms and end systems for IPTV |
|  |
| [Question 1/2](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG02-RGQ01.2&stg=2): Creating the smart society: Social and economic development through ICT applications | [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q18/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q18.aspx): Methodologies for the assessment of environmental impact of ICT |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q16/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q16.aspx): Environmental and socio-economic sustainability in future networks and early realization of FN |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q3/15](file:///C%3A%5C_Euchner%5C_ITU-T%5CITU-T%20A.series%5C2015_01_Strengthening_cooperation_Tunisia%5CQ3%5C15): General characteristics of transport networks[Q12/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q12.aspx): Transport network architectures |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q13/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q13.aspx): Multimedia application platforms and end systems for IPTV[Q21/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q21.aspx): Multimedia framework, applications and services[Q26/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q26.aspx): Accessibility to multimedia systems and services[Q27/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q27.aspx): Vehicle gateway platform for telecommunication/ITS services/applications[Q28/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q28.aspx): Multimedia framework for e-health applications |
| [SG20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/default.aspx) | [Q4/20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/q4.aspx): IoT applications and services including end user networks and interworking |
| [JCA-IoT](http://www.itu.int/en/ITU-T/jca/iot/Pages/default.aspx) |  |
| [Question 2/2](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG02-RGQ02.2&stg=2): Information and telecommunications/ICTs for e-health | [SG11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/default.aspx) | [Q1/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q1.aspx): Signalling and protocol architectures in emerging telecommunication environments |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q2/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q2.aspx): Requirements for NGN evolution (NGN-e) and its capabilities including support of IoT and use of software-defined networking  |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q3/15](file:///C%3A%5C_Euchner%5C_ITU-T%5CITU-T%20A.series%5C2015_01_Strengthening_cooperation_Tunisia%5CQ3%5C15): General characteristics of transport networks[Q12/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q12.aspx): Transport network architectures |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q28/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q28.aspx): Multimedia framework for e-health applications |
| [SG17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/default.aspx) | [Q9/17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/q9.aspx): Telebiometrics |
| [SG20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/default.aspx) | [Q2/20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/q2.aspx): Requirements and use cases for IoT |
| [Question 3/2](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG02-RGQ03.2&stg=2): Securing information and communication networks: Best practices for developing a culture of cybersecurity | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q3/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q3.aspx): Methods and practices for conditional access, protection against unauthorized copying and against unauthorized redistribution ("redistribution control" for digital cable television distribution to the home) |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q3/15](file:///C%3A%5C_Euchner%5C_ITU-T%5CITU-T%20A.series%5C2015_01_Strengthening_cooperation_Tunisia%5CQ3%5C15): General characteristics of transport networks[Q12/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q12.aspx): Transport network architectures[Q14/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q14.aspx): Management and control of transport systems and equipment |
| [SG17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/default.aspx) | [Q4/17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/q4.aspx): Cybersecurity |
| [Question 4/2](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG02-RGQ04.2&stg=2): Assistance to developing countries for implementing conformance and interoperability programmes | [SG11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/default.aspx) | [Q8/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q8.aspx): Guidelines for implementations of signalling requirements and protocols[Q10/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q10.aspx): Service and networks benchmarking measurements[Q11/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q11.aspx): Protocols and networks test specifications; frameworks and methodologies[Q12/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q12.aspx): Internet of things test specifications[Q13/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q13.aspx): Monitoring parameters for protocols and emerging networks[Q14/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q14.aspx): Cloud interoperability testing[Q15/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q15.aspx): Testing as a service (TAAS) |
| [JCA-CIT](http://www.itu.int/en/ITU-T/jca/cit/Pages/default.aspx) |  |
| [Question 5/2](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG02-RGQ05.2&stg=2): Utilization of telecommunications/ICTs for disaster preparedness, mitigation and response | [SG2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/default.aspx) | [Q3/2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/q3.aspx): Service and operational aspects of telecommunications, including service definition |
| [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q15/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q15.aspx): ICTs and adaptation to the effects of climate change |
| [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q8/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q8.aspx): The IP enabled multimedia applications and services for cable television networks enabled by converged platforms (from the aspect of preferential services for emergency situations) |
| [SG11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/default.aspx) | [Q3/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q3.aspx): Signalling Requirements and Protocol for Emergency Telecommunications |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q2/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q2.aspx): Requirements for NGN evolution (NGN-e) and its capabilities including support of IoT and use of software-defined networking[Q3/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q3.aspx): Functional architecture for NGN evolution (NGN-e) including support of IoT and use of software-defined networking |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q14/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q14.aspx): Digital signage systems and services |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q3/15](file:///C%3A%5C_Euchner%5C_ITU-T%5CITU-T%20A.series%5C2015_01_Strengthening_cooperation_Tunisia%5CQ3%5C15): General characteristics of transport networks[Q12/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q12.aspx): Transport network architectures[Q16/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q16.aspx): Outside plant and related indoor installation[Q17/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q17.aspx): Maintenance and operation of optical fibre cable networks |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q3/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q3.aspx): Multimedia gateway control architectures and protocols |
| [SG17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/default.aspx) | [Q4/17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/q4.aspx): Cybersecurity |
| [SG20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/default.aspx) | [Q2/20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/q2.aspx): Requirements and use cases for IoT[Q3/20](http://www.itu.int/en/ITU-T/studygroups/2013-2016/20/Pages/q3.aspx): IoT functional architecture including signalling requirements and protocols |
| [Question 6/2](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG02-RGQ06.2&stg=2): ICT and climate change | [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q13/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q13.aspx): Environmental impact reduction including e-waste[Q15/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q15.aspx): ICTs and adaptation to the effects of climate change[Q16/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q16.aspx): Leveraging and enhancing the ICT environmental sustainability[Q17/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q17.aspx): Energy efficiency for the ICT sector and harmonization of environmental standards[Q18/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q18.aspx): Methodologies for the assessment of environmental impact of ICT[Q19/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q19.aspx): Power feeding systems |
| [Question 7/2](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG02-RGQ07.2&stg=2): Strategies and policies concerning human exposure to electromagnetic fields | [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q7/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q7.aspx): Human exposure to electromagnetic fields (EMFs) due to radio systems and mobile equipment |
| [Question 8/2](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG02-RGQ08.2&stg=2): Strategies and policies for the proper disposal or reuse of telecommunication/ICT waste material | [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q13/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q13.aspx): Environmental impact reduction including e-waste |

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| [Question 9/2](http://www.itu.int/net4/ITU-D/CDS/sg/rgqlist.asp?lg=1&sp=2014&rgq=D14-SG02-RGQ09.2&stg=2): Identification of study topics in the ITU-T and ITU-R study groups which are of particular interest to developing countries | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q11/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q11.aspxhttp%3A/www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q11.aspx): Transmission of multichannel analogue and/or digital television signals over optical access networks[Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13.aspx): Work programme, coordination and planning |
| [SG11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/default.aspx) | [Q8/11](http://www.itu.int/en/ITU-T/studygroups/2013-2016/11/Pages/q8.aspx): Guidelines for implementations of signalling requirements and protocols |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q5/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q5.aspx): Applying IMS, IMT and other new technologies in developing country mobile telecom networks |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | BSG/15 |
| [SG17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/default.aspx) | [Q1/17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/q1.aspx): Telecommunication/ICT security coordinationBSG/17 |

# Attachment 2

# Matching of ITU-R WPs of interest to ITU-T study groups

Revisions herein reflect:

* TSAG TD 347: LS/i/r on material on ITU inter-Sector coordination of mutual interest (reply to TSAG - LS 10 -E) [from ITU-T SG9]
* TSAG TD 371: LS/i/r on material on ITU inter-Sector coordination of mutual interest (reply to TSAG-LS10) [from ITU-T SG5]
* TSAG TD 382: LS/i/r on draft new and revised TSAG documents and ITU inter-sector coordination (reply to TSAG-LS012, TSAG-LS013) [from ITU-T SG13]
* Removed FG-AC (terminated)
* Corrected entries for ITU-R WP4A – SG9, and ITU-R WP 4C – SG9.

| ITU-R WP | ITU-T SG | ITU-T SG Questions |
| --- | --- | --- |
| ITU-R Working Party 1A-Spectrum engineering techniques | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13.aspx): Work programme, coordination and planning (on matters related to radio frequency interference and co-existence between wired telecommunication and radiocommunication systems) |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q4/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q4.aspx): Broadband access over metallic conductors[Q15/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q15.aspx): Communications for Smart Grid[Q18/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q18.aspx): Broadband in-premises networking |
| ITU-R Working Party 1B-Spectrum management methodologies and economic strategies | [SG3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/default.aspx) | [Q2/3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/q2.aspx): Development of charging and accounting/settlement mechanisms for international telecommunications services, other than those studied in Question 1/3, including adaptation of existing D-series Recommendations to the evolving user needs[Q3/3](http://www.itu.int/en/ITU-T/studygroups/2013-2016/03/Pages/q3.aspx): Study of economic and policy factors relevant to the efficient provision of international telecommunication services |
| [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q7/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q7.aspx): Human exposure to electromagnetic fields (EMFs) due to radio systems and mobile equipment |
| ITU-R Working Party 1C-Spectrum monitoring | [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q15/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q15.aspx): ICTs and adaptation to the effects of climate change |
| [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13.aspx): Work programme, coordination and planning (on matters related to radio frequency interference and co-existence between wired telecommunication and radiocommunication systems) |
| ITU-R Working Party 3J-Propagation fundamentals |  |  |
| ITU-R Working Party 3K-Point-to-area propagation |  |  |
| ITU-R Working Party 3L-Ionospheric propagation and radio noise | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13.aspx): Work programme, coordination and planning (on matters related to radio frequency interference and co-existence between wired telecommunication and radiocommunication systems) |
| ITU-R Working Party 3M-Point-to-point and Earth-space propagation | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13.aspx): Work programme, coordination and planning (on matters related to radio frequency interference and co-existence between wired telecommunication and radiocommunication systems) |
| ITU-R Working Party 4A-Efficient orbit/spectrum utilization for the fixed-satellite service (FSS) and broadcasting-satellite service (BSS) | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data |
| ITU-R Working Party 4B-Systems, air interfaces, performance and availability objectives for the fixed-satellite service (FSS), broad-casting-satellite service (BSS) and mobile-satellite service (MSS), including IP-based applications and satellite news gathering (SNG) | [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU-T,[Q12/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q12.aspx): Operational aspects of telecommunication network service quality,[Q17/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q17.aspx): Performance of packet-based networks and other networking technologies |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q4/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q4.aspx): Identification of evolving IMT systems and beyond[Q5/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q5.aspx): Applying IMS, IMT and other new technologies in developing country mobile telecom networks |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q13/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q13.aspx): Multimedia application platforms and end systems for IPTV |
| ITU-R Working Party 4C-Efficient orbit/spectrum utilization for the mobile-satellite service (MSS) and the radiodetermination-satellite service (RDSS) | [SG2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/default.aspx) | [Q3/2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/q3.aspx): Service and operational aspects of telecommunications, including service definition,[Q4/2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/q4.aspx): Human factors related issues for improvement of the quality of life through international telecommunications |
| [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13.aspx): Work programme, coordination and planning (on matters related to radio frequency interference and co-existence between wired telecommunication and radiocommunication systems) |
| ITU-R Working Party 5A-Land mobile service excluding IMT; amateur and amateur-satellite service | [SG2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/default.aspx) | [Q1/2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/q1.aspx): Application of numbering, naming, addressing and identification plans for fixed and mobile telecommunication services[Q4/2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/q4.aspx): Human factors related issues for improvement of the quality of life through international telecommunications |
| [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13.aspx): Work programme, coordination and planning (on matters related to radio frequency interference and co-existence between wired telecommunication and radiocommunication systems) |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU-T[Q12/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q12.aspx): Operational aspects of telecommunication network service quality[Q17/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q17.aspx): Performance of packet-based networks and other networking technologies |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q5/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q5.aspx): Applying IMS, IMT and other new technologies in developing country mobile telecom networks[Q9/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q9.aspx): Mobility management (including support for software-defined networking)[Q10/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q10.aspx): Coordination and management for multiple access technologies (Multi-connection)[Q11/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q11.aspx): Evolution of user-centric networking, services, and interworking with networks of the future including Software-Defined Networking[Q16/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q16.aspx): Environmental and socio-economic sustainability in future networks and early realization of FN |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q15/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q15.aspx): Communications for Smart Grid |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q27/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q27.aspx): Vehicle gateway platform for telecommunication/ITS services/applications |
| [SG17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/default.aspx) | [Q6/17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/q6.aspx): Security aspects of ubiquitous telecommunication services |
| [CITS](http://www.itu.int/en/ITU-T/extcoop/cits) |  |
| ITU-R Working Party 5B-Maritime mobile service including the Global Maritime Distress and Safety System (GMDSS); the aeronautical mobile service and the radiodetermination service | [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q15/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q15.aspx): ICTs and adaptation to the effects of climate change |
| [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13.aspx): Work programme, coordination and planning (on matters related to radio frequency interference and co-existence between wired telecommunication and radiocommunication systems) |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU-T[Q12/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q12.aspx): Operational aspects of telecommunication network service quality[Q17/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q17.aspx): Performance of packet-based networks and other networking technologies |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q4/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q4.aspx): Identification of evolving IMT systems and beyond[Q5/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q5.aspx): Applying IMS, IMT and other new technologies in developing country mobile telecom networks[Q9/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q9.aspx): Mobility management (including support for software-defined networking)[Q10/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q10.aspx): Coordination and management for multiple access technologies (Multi-connection)[Q11/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q11.aspx): Evolution of user-centric networking, services, and interworking with networks of the future including Software-Defined Networking[Q13/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q13.aspx): Requirements, mechanisms and frameworks for packet data network evolution[Q16/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q16.aspx): Environmental and socio-economic sustainability in future networks and early realization of FN |
| Working Party 5C-Fixed wireless systems; HF systems in the fixed and land mobile services | [SG2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/default.aspx) | [Q3/2](http://www.itu.int/en/ITU-T/studygroups/2013-2016/02/Pages/q3.aspx): Service and operational aspects of telecommunications, including service definition |
| [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13.aspx): Work programme, coordination and planning (on matters related to radio frequency interference and co-existence between wired telecommunication and radiocommunication systems) |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q1/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q1.aspx): SG12 work programme and QoS/QoE coordination in the ITU-T[Q12/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q12.aspx): Operational aspects of telecommunication network service quality[Q17/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q17.aspx): Performance of packet-based networks and other networking technologies |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q4/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q4.aspx): Identification of evolving IMT systems and beyond[Q5/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q5.aspx): Applying IMS, IMT and other new technologies in developing country mobile telecom networks[Q9/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q9.aspx): Mobility management (including support for software-defined networking)[Q10/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q10.aspx): Coordination and management for multiple access technologies (Multi-connection)[Q11/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q11.aspx): Evolution of user-centric networking, services, and interworking with networks of the future including Software-Defined Networking[Q16/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q16.aspx): Environmental and socio-economic sustainability in future networks and early realization of FN |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q2/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q2.aspx): Optical systems for fibre access networks[Q3/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q3.aspx): General characteristics of transport networks[Q4/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q4.aspx): Broadband access over metallic conductors[Q11/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q11.aspx): Signal structures, interfaces, equipment functions, and interworking for transport networks |
| ITU-R Working Party 5D-IMT Systems | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13.aspx): Work programme, coordination and planning (on matters related to radio frequency interference and co-existence between wired telecommunication and radiocommunication systems) |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q7/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q7.aspx): Methods, tools and test plans for the subjective assessment of speech, audio and audiovisual quality interactions[Q9/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q9.aspx): Perceptual-based objective methods for voice, audio and visual quality measurements in telecommunication services[Q10/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q10.aspx): Conferencing and telemeeting assessment[Q13/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q13.aspx): QoE, QoS and performance requirements and assessment methods for multimedia[Q14/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q14.aspx): Development of parametric models and tools for multimedia quality assessment[Q17/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q17.aspx): Performance of packet-based networks and other networking technologies |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q4/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q4.aspx): Identification of evolving IMT systems and beyond[Q5/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q5.aspx): Applying IMS, IMT and other new technologies in developing country mobile telecom networks[Q9/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q9.aspx): Mobility management (including support for software-defined networking)[Q10/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q10.aspx): Coordination and management for multiple access technologies (Multi-connection)[Q11/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q11.aspx): Evolution of user-centric networking, services, and interworking with networks of the future including Software-Defined Networking[Q16/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q16.aspx): Environmental and socio-economic sustainability in future networks and early realization of FN |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q2/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q2.aspx): Optical systems for fibre access networks[Q3/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q3.aspx): General characteristics of transport networks[Q4/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q4.aspx): Broadband access over metallic conductors[Q11/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q11.aspx): Signal structures, interfaces, equipment functions, and interworking for transport networks[Q12/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q12.aspx): Transport network architectures |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q13/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q16.aspx): Multimedia application platforms and end systems for IPTV |
| [Q21/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q21.aspx): Multimedia framework, applications and services |
| [SG17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/default.aspx) | [Q6/17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/q6.aspx): Security aspects of ubiquitous telecommunication services |
| ITU-R Working Party 6A-Terrestrial broadcasting delivery | [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q7/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q7.aspx): Human exposure to electromagnetic fields (EMFs) due to radio systems and mobile equipment |
| [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13.aspx): Work programme, coordination and planning (on matters related to radio frequency interference and co-existence between wired telecommunication and radiocommunication systems) |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q7/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q7.aspx): Methods, tools and test plans for the subjective assessment of speech, audio and audiovisual quality interactions[Q9/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q9.aspx): Perceptual-based objective methods for voice, audio and visual quality measurements in telecommunication services[Q10/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q10.aspx): Conferencing and telemeeting assessment[Q13/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q13.aspx): QoE, QoS and performance requirements and assessment methods for multimedia[Q14/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q14.aspx): Development of parametric models and tools for multimedia quality assessment[Q17/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q17.aspx): Performance of packet-based networks and other networking technologies |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q2/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q2.aspx): Optical systems for fibre access networks[Q4/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q4.aspx): Broadband access over metallic conductors[Q18/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q18.aspx): Broadband in-premises networking |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q13/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q16.aspx): Multimedia application platforms and end systems for IPTV |
| ITU-R Working Party 6B-Broadcast service assembly and access | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q4/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q4.aspx): Software components application programming interfaces (APIs), frameworks and overall software architecture for advanced content distribution services within the scope of Study Group 9 |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q7/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q7.aspx): Methods, tools and test plans for the subjective assessment of speech, audio and audiovisual quality interactions[Q9/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q9.aspx): Perceptual-based objective methods for voice, audio and visual quality measurements in telecommunication services[Q10/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q10.aspx): Conferencing and telemeeting assessment[Q13/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q13.aspx): QoE, QoS and performance requirements and assessment methods for multimedia[Q14/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q14.aspx): Development of parametric models and tools for multimedia quality assessment[Q17/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q17.aspx): Performance of packet-based networks and other networking technologies |
| [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [Q2/13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/q2.aspx): Requirements for NGN evolution (NGN-e) and its capabilities including support of IoT and use of software-defined networking |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q13/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q13.aspx): Network synchronization and time distribution performance |
| [SG16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx) | [Q13/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q13.aspx): Multimedia application platforms and end systems for IPTV |
| ITU-R Working Party 6C-Programme production and quality assessment | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q2/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q2.aspxhttp%3A/www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q2.aspx): Measurement and control of the end-to-end quality of service (QoS) for advanced television technologies, from image acquisition to rendering, in contribution, primary distribution and secondary distribution networks[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q10/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q10.aspxhttp%3A/www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q10.aspx): Requirements, methods, and interfaces of the advanced service platforms to enhance the delivery of sound, television, and other multimedia interactive services over cable television network[Q12/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q12.aspxhttp%3A/www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q12.aspx): Objective and subjective methods for evaluating perceptual audiovisual quality in multimedia services within the terms of Study Group 9 |
| [SG12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/default.aspx) | [Q7/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q7.aspx): Methods, tools and test plans for the subjective assessment of speech, audio and audiovisual quality interactions[Q9/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q9.aspx): Perceptual-based objective methods for voice, audio and visual quality measurements in telecommunication services[Q10/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q10.aspx): Conferencing and telemeeting assessment[Q14/12](http://www.itu.int/en/ITU-T/studygroups/2013-2016/12/Pages/q14.aspx): Development of parametric models and tools for multimedia quality assessment |
| [SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) | [Q1/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q1.aspx): Coordination of access and Home Network Transport standards[Q4/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q4.aspx): Broadband access over metallic conductors[Q15/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q15.aspx): Communications for Smart Grid[Q18/15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/q18.aspx): Broadband in-premises networking |
| [SG17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/default.aspx) | [Q9/17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/q9.aspx): Telebiometrics |
| ITU-R Working Party 7A-Time signals and frequency standard emissions |  |  |
| ITU-R Working Party 7B-Space radiocommunications applications | [SG5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/default.aspx) | [Q15/5](http://www.itu.int/en/ITU-T/studygroups/2013-2016/05/Pages/q15.aspx): ICTs and adaptation to the effects of climate change |
| ITU-R Working Party 7C-Remote sensing systems | [SG9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/default.aspx) | [Q1/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q2.aspxhttp%3A/www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q1.aspx): Transmission of television and sound programme signal for contribution, primary distribution and secondary distribution[Q7/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q2.aspxhttp%3A/www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q7.aspx): Cable television delivery of digital services and applications that use Internet protocol (IP) and/or packet-based data[Q13/9](http://www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q2.aspxhttp%3A/www.itu.int/en/ITU-T/studygroups/2013-2016/09/Pages/q13): Work programme, coordination and planning (on matters related to radio frequency interference and co-existence between wired telecommunication and radiocommunication systems) |
| ITU-R Working Party 7D-Radio astronomy |  |  |

# Attachment 3

# Candidate topics on working methods for ITU inter-Sector coordination (updated)

This material contained in this attachment identifies some candidate topics on working methods for ITU inter-Sector coordination, which are occurring in each Sector and where there could be some cross-Sector interest. An envisioned objective could be to share views, and best practices across the three Sectors.

1. Identification and dissemination of best practices for the design, installation and operation of Internet exchange points (IXPs)
2. Resolutions 1 issues where appropriate.
3. Sector membership.
4. Chairmen/Vice-chairmen issues.
5. Participation by developing countries.
6. Language issues.
7. Involvement of developing countries.
8. Electronic meetings including remote participation.
9. Electronic documents handling.
10. Document access.
11. Improvement of the ITU webpages and examples of best practices.
12. Registration for participation in the meeting, including the remote participation.
13. Practice for remote participation.
14. Non-member participation.
15. Preparation to conferences and meetings.
16. Further enhancement and optimization of seminars/symposia/workshops/capacity-building.
17. Improvement of interaction between working parties and study groups of different Sectors
18. Streamlined establishment procedures of inter-Sector Rapporteur group (IRG).
19. Meeting planning
20. Collaboration and cooperation on events; e.g. on
	1. IPTV testing events

<http://www.itu.int/en/ITU-T/C-I/interop/Pages/IPTV201510.aspx>

* 1. APT (Asia Pacific Telecommunity) and ITU C&I events

<http://www.itu.int/en/ITU-T/C-I/interop/Pages/CI_APT_Sept15.aspx>

* 1. ITU IPTV IPv6 Global Testbed Project (I3GTIPTV interoperability testbed)

<http://www.itu.int/en/ITU-T/C-I/interop/I3GT/Pages/default.aspx>

1. Accessibility.

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