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|  | **Radiocommunication Advisory Group  Geneva, 10-13 May 2016** | |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** | |  | |
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|  | | **Document RAG16/2-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 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 – LS 013 – E** | |
| **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2013-2016 | | |  | |
| **English only**  **Original: English** | |
| **Question(s):** | N/A | |  | |
| **LIAISON STATEMENT** | | | | |
| **Source:** | TSAG | | | |
| **Title:** | LS/r on ITU inter-sector coordination | | | |
| **LIAISON STATEMENT** | | | | |
| **For action to:** | | TDAG, RAG, All ITU-D SGs, all ITU-R SGs, ITU-T SGs 2, 3, 5, 9, 11, 12, 13, 15, 16, 17, 20 | | |
| **For comment to:** | | **-** | | |
| **For information to:** | | **-** | | |
| **Approval:** | | TSAG meeting (Geneva, 2 – 5 June 2015) | | |
| **Deadline:** | | 31 January 2016 | | |
| **Contact:** | | Bruce Gracie TSAG Chairman Canada | | Tel: + 1 613 990-4254 E-mail: [bruce.gracie13@rogers.com](mailto:bruce.gracie13@rogers.com) |
| **Contact:** | | Vladimir Minkin Chairman of TSAG Sub-Group of Intra-ITU Collaboration Russian Federation | | Tel: +7 (495) 261-9307 E-mail: [minkin@ties.itu.int](mailto: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, is glad to announce the progress in its task on collection of opinions on common interest area 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 mapping. This brings the groups to the end of the initial phase of the project for examining and proposing the enhancements to the collaboration of the ITU-T-sector with ITU-D and ITU-T-sector with ITU-R-sector.

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 Sectors in implementation of the WTSA-12 decisions assigned by the Resolution 57 of the World Telecommunication Standards Assembly (Dubai, 2012).

Furthermore, TSAG is pleased to announce that the initiative of the TSAG rapporteur group on strengthening collaboration led to the creation of the inter-sector coordination team (ISCT) to look after the existing methods and approaches to collaboration and/or cooperation between the three ITU Sectors.

We are looking forward to your active participation in the activities of this new group in order to share views, and especially the best practices across the three Sectors.

Please refer to the Attachment 3 that depicts the agreed Terms of Reference of this group along with its working methods and some logistic aspects of operation. Attachment 4 contains the list of issues of mutual interest on working methods for ITU inter-sector coordination.

We are very thankful to those entities who provided us with their feedback on all the above issues and invite those who hasn’t provided their views so far to do that if deemed appropriate.

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

**Attachments: 4**

* 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 – Terms of Reference of the ISCT.
* Attachment 4 - List of issues of mutual interest on working methods for ITU inter-sector coordination.

# Attachment 1

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

| **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  [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)  [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  [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 |
| [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:\Users\kurakova\AppData\Local\Temp\Rar$DIa0.830\Q3\15): 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  [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) | [Q1/17](http://www.itu.int/en/ITU-T/studygroups/2013-2016/17/Pages/q1.aspx): Telecommunication/ICT security coordination |
| [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) | [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)  [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)  [FG-SSC](http://www.itu.int/en/ITU-T/focusgroups/ssc/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:\_Euchner\_ITU-T\ITU-T%20A.series\2015_01_Strengthening_cooperation_Tunisia\Q3\15): 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:\_Euchner\_ITU-T\ITU-T%20A.series\2015_01_Strengthening_cooperation_Tunisia\Q3\15): 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  [Q25/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q25.aspx): IoT 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 |
| [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) | [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)  [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 |
| [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)  [FG-SSC](http://www.itu.int/en/ITU-T/focusgroups/ssc/Pages/default.aspx) |  |
| [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:\_Euchner\_ITU-T\ITU-T%20A.series\2015_01_Strengthening_cooperation_Tunisia\Q3\15): 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  [Q25/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q25.aspx): IoT 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 |
| [JCA-IoT](http://www.itu.int/en/ITU-T/jca/iot/Pages/default.aspx)  [IoT-GSI](http://www.itu.int/en/ITU-T/gsi/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:\_Euchner\_ITU-T\ITU-T%20A.series\2015_01_Strengthening_cooperation_Tunisia\Q3\15): 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 |
| [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:\_Euchner\_ITU-T\ITU-T%20A.series\2015_01_Strengthening_cooperation_Tunisia\Q3\15): 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 |
| [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 |
| [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:\_Euchner\_ITU-T\ITU-T%20A.series\2015_01_Strengthening_cooperation_Tunisia\Q3\15): 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 |
| [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 |
| [JCA-ICT&CC](http://www.itu.int/en/ITU-T/jca/ictcc/Pages/default.aspx)  [FG-SSC](http://www.itu.int/en/ITU-T/focusgroups/ssc/Pages/default.aspx) |  |
| [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 |
| [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) | [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 coordination  BSG/17 |

# Attachment 2

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

| ITU-R WP | ITU-T SG | ITU-T SG Questions |
| --- | --- | --- |
| ITU-R Working Party 1A-Spectrum engineering techniques | [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 |
| ITU-R Working Party 1C-Spectrum monitoring |  |  |
| 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 |  |  |
| ITU-R Working Party 3M-Point-to-point and Earth-space propagation |  |  |
| ITU-R Working Party 4A-Efficient orbit/spectrum utilization for the fixed-satellite service (FSS) and broadcasting-satellite service (BSS) |  |  |
| 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 |
| [FG AC](http://www.itu.int/en/ITU-T/focusgroups/ac/Pages/default.aspx) |  |
| 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 |
| ITU-R Working Party 5A-Land mobile service excluding IMT; amateur and amateur-satellite service | [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) |  |
| [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 |
| [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 |
| 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 | [SG13](http://www.itu.int/en/ITU-T/studygroups/2013-2016/13/Pages/default.aspx) | [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 |
| [FG AC](http://www.itu.int/en/ITU-T/focusgroups/ac/Pages/default.aspx) |  |
| [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 | [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 |
| [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 |
| [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 |
| ITU-R Working Party 5D-IMT Systems | [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) | [Q21/16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/q21.aspx): Multimedia framework, applications and services |
| [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 |
| [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 |
| [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 | [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)  [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 |
| [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) | [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  [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.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.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  [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) | [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 | [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 |  |  |
| ITU-R Working Party 7C-Remote sensing systems |  |  |
|  |  |
| ITU-R Working Party 7D-Radio astronomy |  |  |

# Attachment 3

# Revised Terms of Reference

**INTER-SECTOR COORDINATION** **TEAM ON ISSUES OF MUTUAL INTEREST**

The inter-Sector coordination team (ISCT) is jointly established by the Advisory Groups of all three Sectors, in order to avoid duplication of effort and optimize the use of resources. While executing its functions it will:

* identify subjects common to the three Sectors, or, bilaterally, and consider an updated list (prepared by the Secretariat) containing the areas of mutual interest to the three Sectors pursuant to the mandates assigned by each ITU assembly or conference;
* identify the necessary mechanisms to strengthen cooperation and joint activity among the three Sectors or with each Sector, on issues of mutual interest, paying particular attention to the interests of the developing countries;
* report annually to the respective advisory groups on the progress of the work undertaken.

**Background documents**

1. Resolution 191 (Busan, 2014) of the Plenipotentiary Conference, on strategy for the coordination of efforts among the three Sectors the Union;
2. Resolution ITU-R 6-1 (Rev. Geneva, 2007) of RA, on liaison and collaboration with the ITU Telecommunication Standardization Sector (ITU-T), and Resolution ITU-R 7-2 (Rev. Geneva, 2012) of RA, on telecommunication development including liaison and collaboration with the ITU Telecommunication Development Sector (ITU-D);
3. Resolutions 44 and 45 (Rev. Dubai, 2012) of WTSA, on mutual cooperation and integration of the activities of ITU-T and ITU-D;
4. Resolution 57 (Rev. Dubai, 2012) of WTSA, on strengthening coordination and cooperation among the ITU Radiocommunication Sector (ITU-R), ITU-T and ITU-D on matters of mutual interest;
5. Resolution 5 (Rev. Dubai 2014) of WTDC, on enhanced participation by developing countries[[1]](#footnote-1)1 in the activities of the Union;
6. Resolution 18 (Rev. Dubai, 2012) of WTSA, on principles and procedures for the allocation of work to, and coordination between, the ITU Radiocommunication and ITU Telecommunication Standardization Sectors;
7. Resolution 59 (Rev. Dubai 2014) of WTDC, on strengthening coordination and cooperation among ITU-R, ITU-T and ITU-D on matters of mutual interest.

**Composition of the inter-Sector coordination team on issues of mutual interest:**

1. The inter-Sector coordination team on issues of mutual interest will consist of representatives from the three Advisory Groups, keeping in mind the need for regional balance.
2. The ISCT is chaired by [Mr Nasser Al Marzouqi (Rapporteur for ITU-D Study Group 2 Question 9/2 and ITU-D Study Group 2 Vice-Chairman, ITU-T SG5 Vice-Chairman)], and vice-chaired by the appointed RAG, TSAG and TDAG representatives:
3. RAG representatives: Mr Peter Major and Mr Albert Nalbandian (Vice-Chairmen of RAG);
4. TSAG representatives: Mr Fabio Bigi, Mr Matano Ndaro and Mr Vladimir Minkin (Vice-Chairmen of TSAG);
5. TDAG representatives: Mr Mohamed Al Mazrooei and Ms Nurzat Boljobekova (Vice-Chairmen of TDAG).

**Secretariat support**

The support of the group activity will be provided in accordance with Resolution 191 (Busan, 2014).

**Working methods:**

* The inter-Sector coordination team will use the e-mail list [int-sect-team@itu.int](mailto:int-sect-team@itu.int).
* The inter-Sector coordination team interactions may include e-mail exchange via the e-mail list or through electronic meetings.
* Possible physical meetings may be held if deemed necessary, preferably in conjunction with advisory group meetings, and within available resources, to finalize the work.

# Attachment 4

# List of issues of mutual interest on working methods for ITU inter-sector coordination

1 Identification and dissemination of best practices for the design, installation and operation of Internet exchange points (IXPs)

2 Chairmen and vice-chairmen

3 Participation by developing countries

4 E-meetings including remote participation

5 Electronic documents handling

6 Registration for participation in the meeting, including the remote participation

7 Practice for remote participation

8 Preparation for conferences and meetings

9 Further enhancement and optimization of seminars/symposia/workshops

10 Improvement of the ITU webpages and examples of best practices

11 Improvement of interaction between working parties and study groups of different Sectors

12 Meeting planning

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1. [↑](#footnote-ref-1)