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| ITU logo | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2017-2020 | TSAG-TD425 |
| **TSAG** |
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| **Question(s):** | N/A | Geneva, 10-14 December 2018 |
| **TD** |
| **Source:** | Chairman, Quantum Adhoc Sessions |
| **Title:** | Agenda of the second TSAG adhoc session on Quantum |
| **Purpose:** | Admin |
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| **Keywords:** | Agenda; second Adhoc Session; Quantum; |
| **Abstract:** | This document is the agenda for the second adhoc session on quantum. |

This document carries the agenda for the 2nd TSAG adhoc Session on Quantum at 13:15-14:30 on Wednesday 12th of December 2018.

Reminding of the following contribution, TD and LS:

* Proposal to set up a new ITU-T Focus Group on Quantum Information Technology for Networks (FG-QIT4N) [C54](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-C-0054)
* Tutorial - Introduction to Quantum Information Technology and Network Evolution [TD416R1](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-181210-TD-GEN-0416)
* LS on Response to proposal to set up a new ITU-T Focus Group on Quantum Information Technology for Networks (FG-QIT4N) [from ETSI ISG QKD] [TD406R1](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-181210-TD-GEN-0406)
* Minutes of the first adhoc session on Quantum [TD424](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-181210-TD-GEN-0424)
* Entities interested in ITU-T work on quantum communication [TD426](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-181210-TD-GEN-0426)

Proposed Agenda for the 2nd Adhoc session on Quantum

* Approval of this agenda
* Chairman opening words
* Identification of documents pertaining to this session
* Arguments for a FG according to the table in Annex which was proposed by the 1st adhoc (ref. Table of [TD424](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-TSAG-181210-TD-GEN-0424))
* Questions and Discussions
* Meeting agreement (or not) for the establishment of a Focus Group
* Conclusion and agenda for 3rd adhoc
* Any Other Business
* Closing

**Annex:**

**Table – Questions on FG-QIT4N proposal**

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| Question to answer | Why this question | Comments |
| Why a FG? | What is the value of a Focus Group on Quantum. What it would achieve that should be so unique | What is the business case for Quantum without Quantum Safe Cryptography: $1m, $10m, $1B?want to make sure that an FG is justified and is truly global and not coming from ‘just’ one country |
| Why now? | What is the compelling event that makes it relevant to start a FG now?  | Why not in a year? or later?Is it triggered by an industry need? Market need? |
| What? | What is the scope? | Currently the proposed ToR is 80% about QKD. What are exactly the 20% other than QKD? Is slide 24 and 44 of the presentation giving the main answer?Some aspects of Quantum have matured but some others are really theoretical and very long term. We need a crisp story. |
| How? | How are you going to organize this FG?  | Any Working Group to anticipate? How to collaborate with SGs and other ITU entities? How to collaborate externally? |
| When? | What is the term of this FG?  | When does it starts and ends and on which triggers? |
| Risk of doing? | What are the risks of doing this FG?  | Are we going too far, too fast, etc.? |
| Risk of not doing? | What are the risks of not doing this FG? | Are we missing an opportunity for the Union? |
| Resources? | Who will join this FG?  | Which are the constituencies that will join to support and commit time to this FG? |
| Alignments? | What are the internal ITU and external ITU alignments? | How to not duplicate the work inside and outside the ITU? How to deal properly with ETSI ISG QKD? How to deal with current ongoing standardisation work? |
| Outcome? | What are the deliverables?  | Are they for standardisation? For WTSA? |
| Requirements? | Have we assessed the core requirements from the ITU perspective?  | How are we going to fulfil the core requirement for coordination between SG13, 15 and 17? |
| Alternatives? | Are there any other alternatives to a FG? | For example did we consider a JCA? |

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