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|  | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2022-2024 | TSAG-TD166 |
| TSAG |
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| **TD** |
| **Source:** | TSAG Chairman |
| **Title:** | Proposed new ITU-T Joint Coordination Activity on Quantum Key Distribution Network (JCA-QKDN) |
| **Contact:** | Mr Abdurahman M. AL HASSANTSAG Chairman | Tel: +996 11 461 8015E-mail: tsagchair@nca.gov.sa  |
| **Contact:** | Mr Junsen LaiCAICT, MIIT. China | Tel: +86-10-62300592E-mail: laijunsen@caict.ac.cn  |
| **Contact:** | Mr Mark McFaddenUnited Kingdom | Tel: +44 2921 253640; +1 6085047776E-mail: mark@internetpolicyadvisors.com  |

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| **Abstract:** | This TD proposes to establish a new ITU-T Joint Coordination Activity on Quantum Key Distribution Network (JCA-QKDN) (with TSAG as parent) with Terms of Reference for the proposed JCA-QKDN in the Annex. |

**Action:** TSAG is invited to establish JCA-QKDN with the Terms of Reference in the Annex.

The nominated Chairman of JCA-QKDN is: Mr Junsen Lai, CAICT, MIIT, China (P.R.).

The nominated Vice-Chairman of JCA-QKDN is: Mr Mark McFadden, UK Department of Digital, Culture, Media and Sport (DCMS), United Kingdom.

**Annex**

**Terms of Reference for**

**Joint Coordination Activity on Quantum Key Distribution Network (JCA-QKDN)**

1. Scope

The scope of JCA-QKDN is coordination of the ITU-T quantum key distribution network (QKDN) standardization work within ITU-T and coordination of the communication with standards development organizations, consortia and forums also working on QKD related standards.

The JCA operates under the terms of Recommendation ITU-T A.1, clause 5. The JCA operates according to the instruction in WTSA-16 Resolution 92.

1. Objectives
* The JCA-QKDN ensures that the ITU-T QKDN standardization work is progressed in a well-coordinated manner among relevant study groups, in particular, Study Group 11 on protocols and interoperability, Study Group 13 on network architecture and functions, and Study Group 17 on security.
* Whenever duplication of effort or planning issues are discovered, the JCA-QKDN will coordinate all activities related to QKDN with relevant study groups and report the results to TSAG.
* The JCA-QKDN considers and encourages possibilities of co-operation on QKD related standardization with relevant SDOs such as ISO/IEC JTC1, ETSI, IEEE, IETF/IRTF, CCSA, CEN-CENELEC FG QT, IEC TC 86, etc.
* The JCA-QKDN analyses the work of standards development organizations, consortia and forums for use in its coordination function and as part of its report provides information on this work for use by the relevant study groups in planning their work.
* In order to avoid duplication of work and assist in coordinating the work of the study groups, the JCA-QKDN acts as a point of contact within ITU-T and with other standards development organizations, consortia and forums working on QKD related standards.
* The JCA-QKDN maintains the SG13 roadmap for QKDN standardization which addresses on-going and published specifications from ITU, other relevant standard development organization, consortia and forums.
* In carrying out the internal coordinating role, participants in the JCA-QKDN will include representatives of relevant ITU-T study groups and other ITU groups.
* In carrying out the external collaboration role, representatives from other relevant standards development organizations, regional/national organizations, consortia and forums shall be invited to join the JCA-QKDN.
1. Participation

Participation is open to official representatives of all ITU-T SGs and TSAG and all ITU-T SG secretariat. Other ITU groups and relevant external bodies, standardization organizations in particular, may be invited to appoint a representative to join the group.

1. Administrative support

ITU-T Telecommunications Standardization Bureau (TSB) will provide secretariat and facilities support for JCA-QKDN within available resource limits.

1. Meetings

The JCA-QKDN works electronically using teleconferences and with face-to-face meetings as needed. Meetings will be held as determined by the JCA-QKDN and will be announced to its participants by the JCA e-mail reflector and posted on the ITU-T website. JCA-QKDN will meet during TSAG meeting if it needs to.

1. Parent group and progress reports

The JCA-QKDN will report to TSAG at its meetings. An executive summary will be sent to TSAG after each JCA-QKDN meeting. Progress reports and proposals will be sent to relevant study groups as necessary, in accordance with Recommendation ITU-T A.1, clause5.

1. Leadership

To be discussed and appointed by during TSAG meeting.

1. Other contacts

JCA-QKDN secretariat (tsbtsag@itu.int).

1. Lifetime

See clause 5.10 of Recommendation ITU-T A.1.

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