# FG-QIT4N: Focus Group on Quantum Information Technology for Networks

Info session on FG-QIT4N deliverables

06 December 2021

# Technical Report FG QIT4N D1.1

- **Title:** Quantum information technology for networks terminology: Network aspects of quantum information technologies

- **Summary:** Based on existing work of various Standards Development Organizations (SDOs) and academic literature, it surveys terminology on network aspects of quantum information technology, studies their overlap and divergence and provides a list of terms that are required but are yet to be standardized. Future efforts to standardize terminology on network aspects of quantum information technology could be informed by this technical report.

- **Link to the final draft**: https://www.itu.int/en/ITU-T/focusgroups/qit4n/Documents/D1.1.pdf

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ITU-T FG-QIT4N

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- **Network aspects of QITs relevant terminologies collected from the following sources:**

  - **ETSI ISG QKD:** GR QKD 007 Quantum Key Distribution (QKD); Vocabulary (published in 2018) **and its latest drafting updates (v1.3.2)**

  - **ISO/IEC JTC1 AG4:** ISO/IEC JTC 1/AG 4 (2019), Meeting report N50 — Quantum computing — Terminology and vocabulary

  - **ITU-T X.1702:** Recommendation ITU-T X.1702 (2019), Quantum noise random number generator architecture

  - **Published academic literature**

- **Result of this survey:**

  - **Collect 151 terms relevant to QKD/QKDN**

  - **The terms are divided into 4 categories**

  - **Each category is divided into two parts**
    Terms defined by Standards Development Organizations elsewhere
    Relevant terms not currently included in standards

**quantum synchronization for networks**

**quantum random number generator**

**quantum computing for networks**

**General terminology related to network aspect of quantum information technology**

# For more information:

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## Visit the website:

**http://www.itu.int/go/fgqit4n**