# Technical Report FG QIT4N D2.5

- **Title:** Quantum information technology for networks **standardization outlook** and **technology maturity**: Quantum key distribution network

- **Scope and summary:**

  1. Quantum key distribution (QKD) technology, including **frontier research, system experiment, field trial,** and **commercialized product**.

  2. QKD industry status, including **market players** such as system vendor, network provider, **projects** and **opinions** from different countries and areas.

  3. QKD network **standardization landscape**, conducts **gap analysis**, and provides future standardization **suggestions**.

- **QKD related information,** such as research and experiment progress, commercialization product and market player status, various project and opinion from different countries and stake-holders, are provided for technology maturity reference. **QKD related standardization** progress of international SDOs and future requirement are solicited and analyzed.

- **Editor team:** Junsen Lai       (CAICT, China)      laijunsen@caict.ac.cn
Zhangchao Ma   (CAS Quantum Network, China)   mazhangchao@qtict.com
Yi Qian           (CICT, China)       qianyi@wri.com.cn

**ITU-T FG-QIT4N**