

**Title: Quantum security standardization activities in ITU-T SG17**

**Abstract:**

This presentation is about standardization activities on quantum safe communication in ITU-T SG17. Two major technologies are being considered are

Quantum Key Distribution and Quantum Random Number Generator. Quantum key distribution solves the problem of key distribution by allowing the exchange of a cryptographic key between two remote parties with the security guaranteed by the fundamental laws of physics. The QRNG is a device that constantly generates true random numbers, which are used as the foundation of strong keys that are not biased and cannot be predicted.