Q-Secure Net provides quantum secure communication over metropolitan fiber-optic network with Quantum Key Distribution (QKD). Novel blockchain application for finance market is the first case.

Q-Secure Net improves the value of the service provider networks enabling QKD in a cost-effective and easy to implement way. It provides a telecom-ready solution, integrated within network operation and management, to ensure quantum secure E2E communications. Q-Secure Net improves communication security with a complete end-to-end solution for encryption keys distribution for critical services (e.g. finance, military, ballot, intelligence, sensible data applications) and privacy enhancement.

In a market dominated by foreign technology Q-Secure Net represents the first EU made solution for total security.
Competitive Advantages

- Fully EU-made
- Ready for any telecom network
- End-to-end quantum security
- Multiple use cases

Target Markets

- Optical network Service Providers (secure infrastructure, secure services delivery)
- Defense (secure communications)
- Finance (secure distributed transactions)
- Corporates, Public Administration (secure video conferences and document transfer)

Status/Traction

- Trial with Telefonica
- Contacts with major European telcos
- With partners: Politecnico di Milano, CNR, Telefonica, UPM, Cefriel

Road Map

2020
- PoC demonstrations

2021
- Integrated Quantum Random Number Generator (QRNG), cost and size reduction

2022
- Cost and size optimization

Leveraged Technologies

Quantum nodes represent the key technology that can act indifferently as transmitters, receivers and pass-through. The solution is a cost-effective original polarization-encoded QKD, differentiating from other QKD schemes (continuous variable, entangled qBit, phase-encoded QKD). It is compatible and easily deployable in current meshed metro-networks and is WDM compatible. Each node can be virtualized and easily inserted into a managed SDN network. It will keep on your business competitiveness.

Contact

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