



Q*Bird Quantum Domain Controller

FOR ADVANCED QUANTUM
NETWORK MANAGEMENT



Are You Able to Easily Monitor and Configure Your QKD Network?

Quantum Key Distribution (QKD) networks are critical for building future-proof cryptographic infrastructure. But as these networks scale, they introduce operational and security challenges from legacy configuration methods.

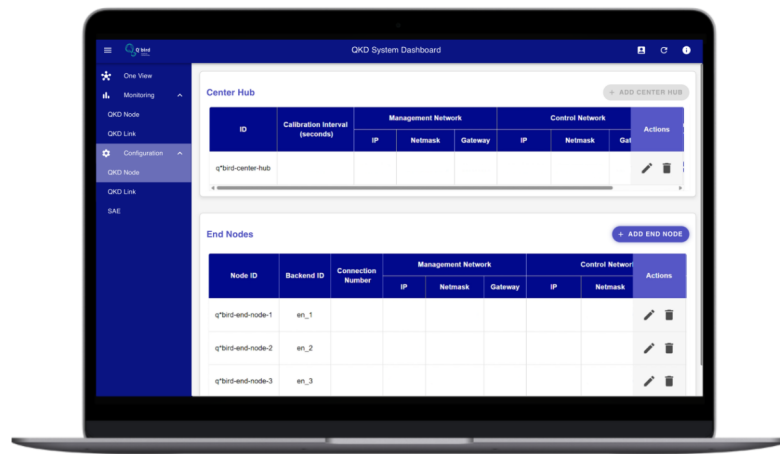
Manually configuring each device in a QKD network using command-line tools or low-level interfaces risks inconsistent security policies, configuration issues, deployment delays and human error. This slows down the adoption of quantum-safe communication at scale, the very outcome QKD promises to accelerate.

Without centralized control and management, quantum cryptography methods and data security risk fragmented visibility, limited auditing, poor traceability, uncoordinated updates and slower issue detection.

Quantum cryptography promises future-proof data security. In quantum-secure communications, what's needed is a unified platform that treats the quantum domain like the critical security infrastructure it is.

Are Operational Gaps Putting Your QKD Infrastructure At Risk?

The Q*Bird Quantum Domain Controller (QDC) is a secure, web browser-based platform designed for centralized configuration, control and monitoring of Q*Bird's quantum key distribution (QKD) network.



Watch QDC in action



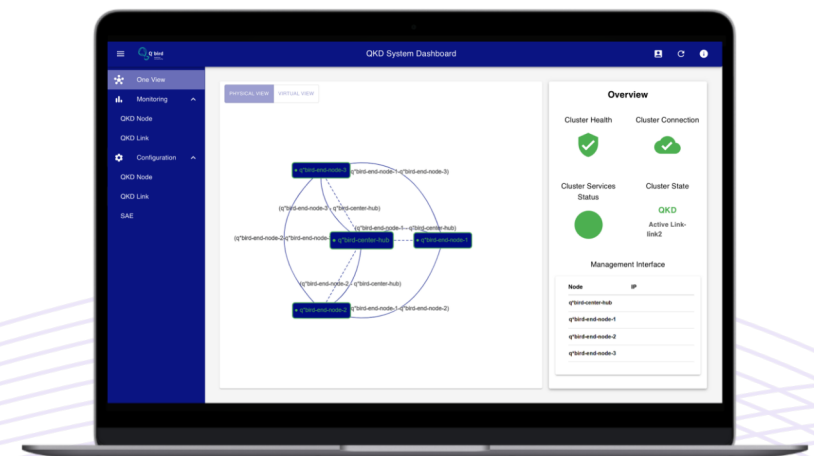
The QDC transforms the management of Q*Bird QKD network infrastructure, ensuring that the inherently secure data is efficiently coordinated and the network remains resilient.

Purpose-built for quantum security environments, the QDC eliminates the inefficiencies and risks of manual, device-level management by enabling centralized administration of:

- Center Hubs
- End Nodes
- QKD Links
- Secure Application Entities (SAEs)

Q*Bird's QDC: Secure And Scalable By Design

- **SSH-based communication ensures secure**, authenticated access to all end nodes.
- **Authentication controls** protect the management interface.
- **Proprietary compatibility with Q*Bird's MDI QKD Falqon® Series hardware** ensures tight integration and minimal attack surface.
- **Define a QKD link once** and the QDC handles secure distribution of configuration parameters to all involved devices.
- **Visualize both physical and logical network topologies** to detect anomalies instantly.
- **Monitor quantum key generation**, network health and device-level metrics in real-time.
- **Reduce exposure from manual errors**, configuration delays or operational and traceability issues.



Your Partner in Quantum Security

Q*Bird is a leader in quantum communication technology, based in Delft, The Netherlands.

We provide cutting-edge solutions and expert support to ensure your data security.

Trusted By



Port of
Rotterdam



Quantum
Delta NL

SURF



eurofiber

Belnet

Adtran



Contact us today to learn how the Falcon® Series can protect your organization from data breaches, quantum threats and future-proof your network security!



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