



Q*Bird Falqon[®] Key Manager

FOR SCALABLE QUANTUM
SECURE NETWORKING

Is Your Quantum Secure Network Ready to Scale?

As organisations prepare for the quantum era, the challenge is no longer limited to generating quantum secure cryptographic keys. Q*Bird's Falqon® MDI-QKD (Measurement-Device-Independent Quantum Key Distribution) provides the foundation for securing multipoint-to-multipoint scalable quantum secure networks through the generation and distribution of quantum secure cryptographic keys.

Government agencies, defense organisations, telecom operators and critical infrastructure providers increasingly require secure communications across remote facilities, edge locations, operational technical networks, cloud environments, and distributed infrastructure environments.

As quantum secure communication infrastructures scale, organisations require an operational key management layer capable of securely managing cryptographic keys across distributed infrastructures, while supporting the interconnection of multiple QKD domains and the integration of QKD and non-QKD environments.

Without a dedicated key management layer, organisations risk creating isolated quantum secure networks, fragmented key infrastructures, duplicated integrations, vendor lock-in and operational complexity that limits scalability across large distributed network environments.

Extending Quantum Security

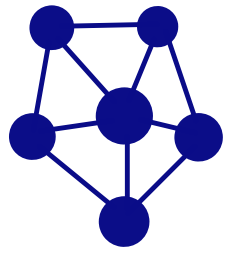
The Falqon® Key Manager is a standalone quantum key management system designed to enable scalable, interoperable and hybrid quantum secure network deployments. Positioned between applications, encryptors and key generation technologies, the Falqon® Key Manager securely ingests, stores, synchronises, buffers and delivers cryptographic keys across distributed quantum secure networks.

The Falqon® Key Manager combines Quantum Key Distribution (QKD) derived keys with natively generated Post-Quantum Cryptography (PQC) and PKI-based key distribution methods within a unified key management architecture. It enables the delivery of QKD keys, PQC keys and hybrid keys across distributed quantum secure network environments while delivering crypto agility and operational resilience.

Enabling trusted-node architectures and bridging QKD and non-QKD environments, the Falqon® Key Manager enables organisations to move beyond isolated quantum networks towards operationally scalable quantum secure networks spanning multiple sites, applications and infrastructure environments.



Falqon[®] Key Manager: Crypto Agility and Operational Resilience By Design



Scalable Quantum Secure Networking: Enable scalable quantum secure communications across distributed infrastructures and trusted-node network architectures.



Hybrid QKD and PQC Integration: Combine QKD-derived keys with natively generated PQC and hybrid keys within a unified key management architecture, enabling operational resilience and crypto agility across hybrid quantum secure networks.



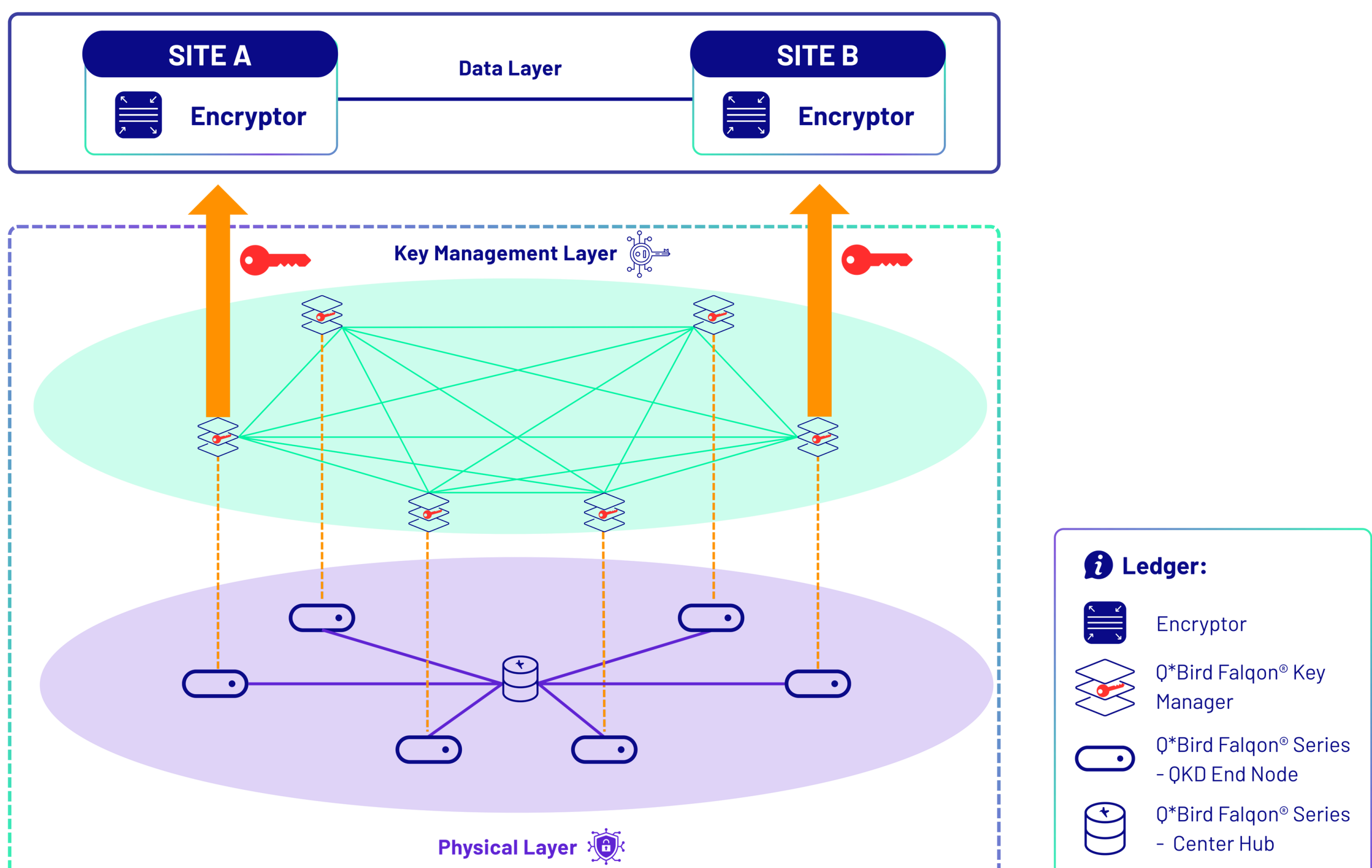
Standalone Quantum Key Management: Provide a dedicated key management layer for secure key ingestion, storage, synchronisation, buffering and delivery.



Flexible Deployment: Within Q*Bird QKD Nodes, on Q*Bird or customer-provided on-premise services, or within customer-provided cloud environment.



Extending Quantum Security: Enable the delivery of QKD keys, PQC keys and hybrid keys across edge locations, cloud environments and distributed infrastructures beyond QKD-enabled sites.



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



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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