



DYNEX

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DYNEX WHITE PAPER - DATAFLOW

Dataflow Management on the Dynex Cloud Platform

PRESENTED BY:

DYNEX DEV
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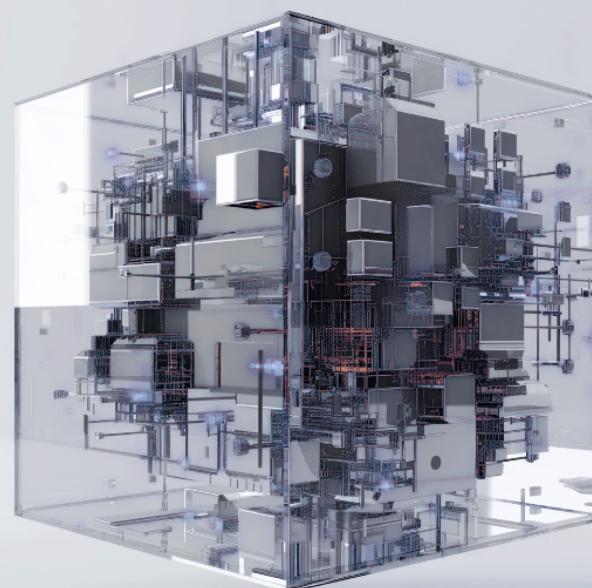
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DYNEX N.QUANTUM COMPUTER

Taking advantage of a biological approach, neuromorphic computing emulates the parallel processing capabilities of the human brain.



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DYNEX N.QUANTUM COMPUTING SECURITY PROTOCOL

Dynex' entire network communication is **AES-256 encrypted**, ensuring state-of-the-art data protection of the computational tasks.

A unique fingerprinting solution prevents the execution of potentially malicious code. In cases where the nature of a job is ambiguous, the **Dynex Moonshots Ethical Committee** reviews and assesses the task to determine its appropriateness.

<https://www.dynexmoonshots.com/#ethical-committee>





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DYNEX N.QUANTUM
SECURITY PROTOCOL

DYNEX N.QUANTUM COMPUTING REDUNDANCY

Advanced encryption protocols and rigorous security audits guarantee safeguarding of data while providing required computational power.

Dynex' global computation network of 120,000+ GPUs is redundant and scales dynamically - ensuring uninterrupted performance.

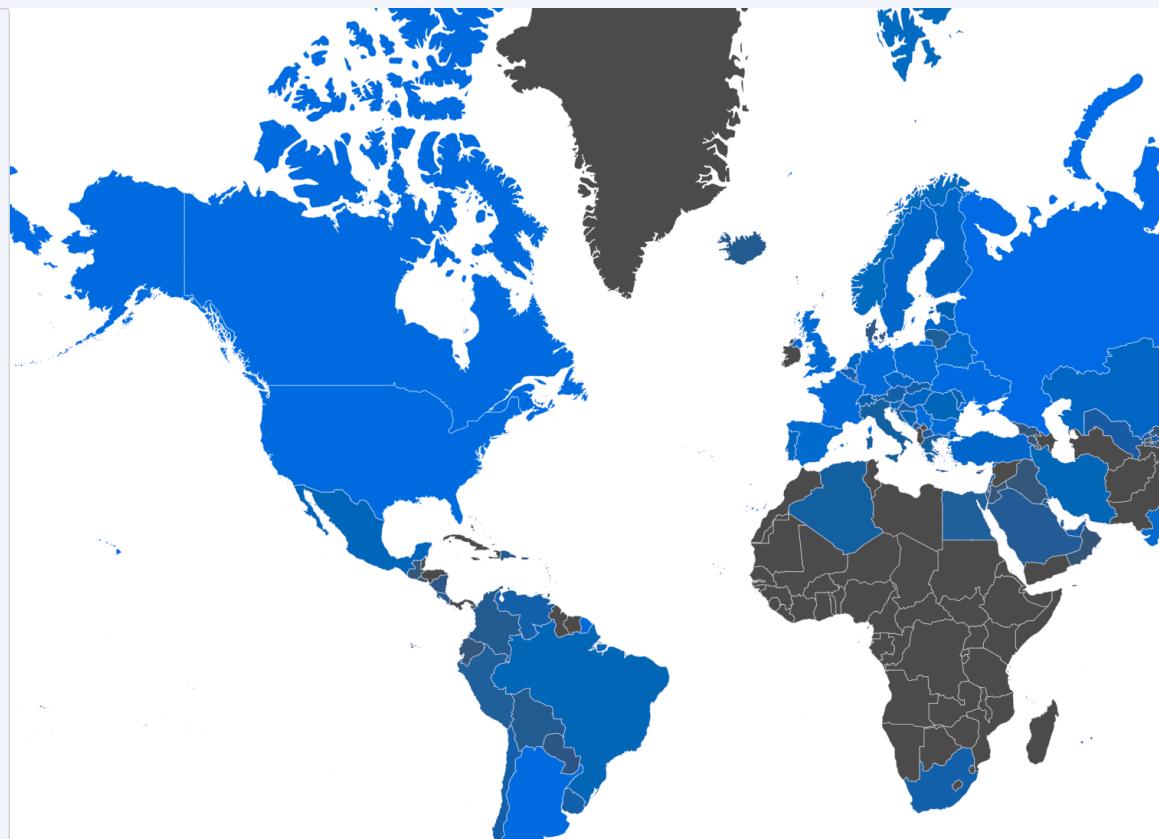
More than 20,000 individual GPU clusters are providing fully redundant compute power to the Dynex network.

<https://live.dynexcoin.org/en/dashboard>

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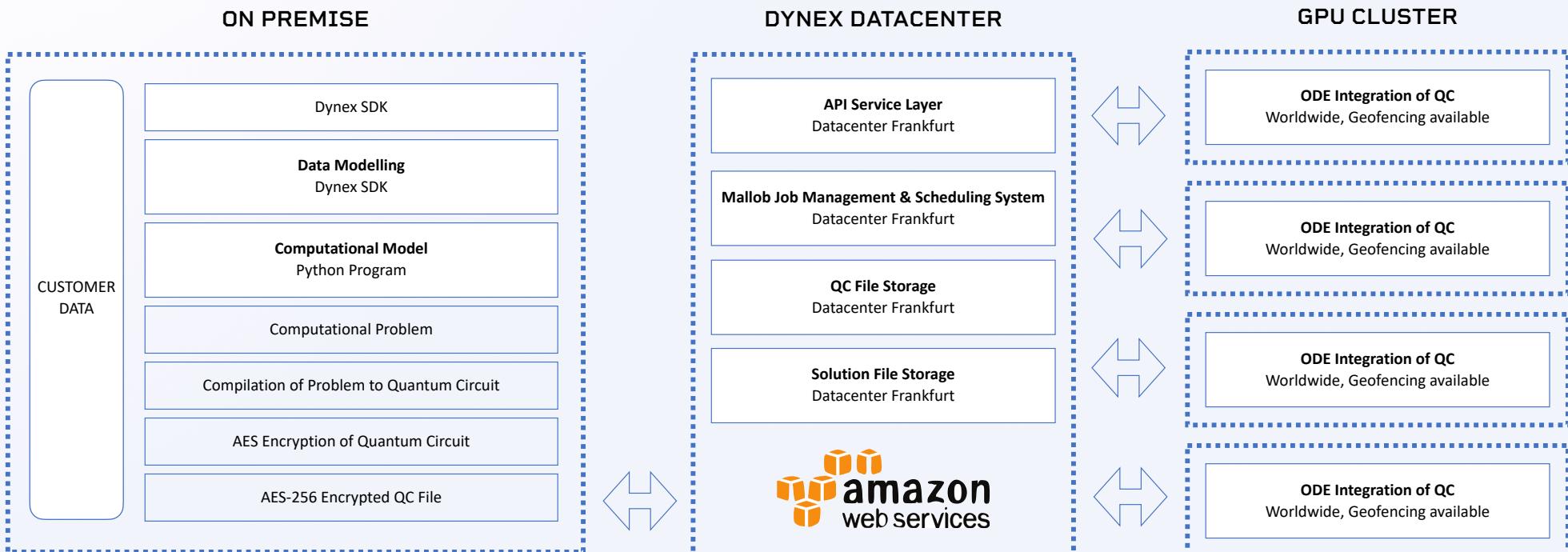
At Dynex, we prioritize security and confidentiality for our clients' data. Our platform is built with the highest standards of transparency and oversight, ensuring that your sensitive information remains protected at all times.





DATAFLOW DIAGRAM

Customer data never leaves the customer's premise. The Dynex Datacenter receives only fully encrypted, compiled Quantum Circuits. Solutions are equally encrypted and reconstructed on premise.

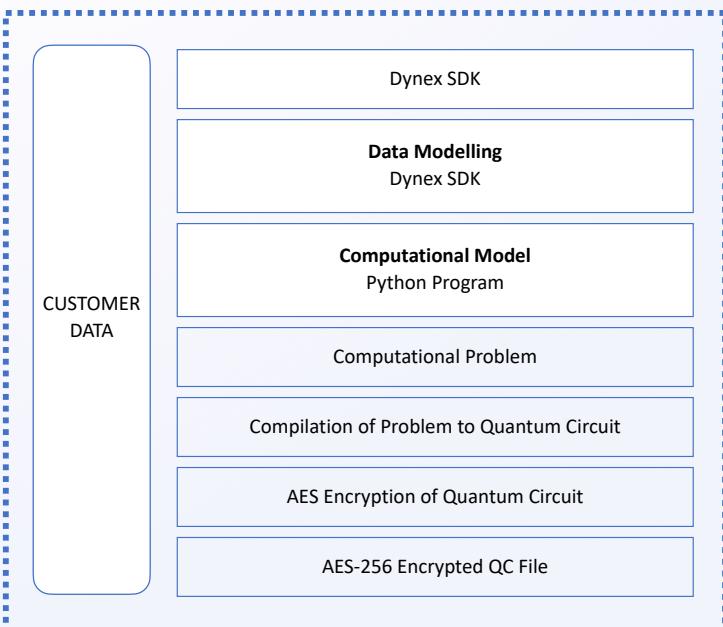




DATAFLOW DIAGRAM

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ON PREMISE



HIGHEST DATA SECURITY STANDARDS

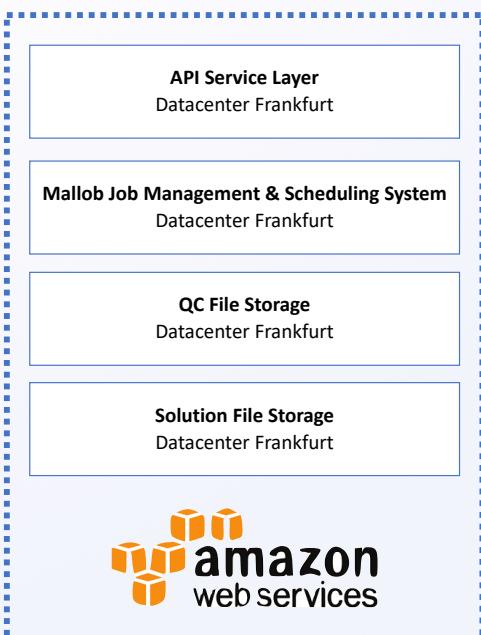
- Customer data never leaves the customer's premise
- Computational problems are compiled into Quantum Circuits
- Quantum Circuits are AES-256 encrypted
- Encrypted Quantum Circuits are being submitted to Dynex' Mallob Job Scheduling and Management System
- GPU clusters are computing encrypted Quantum Circuits
- Solutions are encrypted and returned to Customers Dynex SDK on premise
- Only the customer's SDK can decode the solution files received



DATAFLOW DIAGRAM

Customer data never leaves the customer's premise. The Dynex Datacenter receives only fully encrypted, compiled Quantum Circuits. Solutions are equally encrypted and reconstructed on premise.

DYNEX DATACENTER



STRICTLY TIER-1 DATACENTER PROVIDERS

- Amazon AWS provides highest level of security, availability and performance
- Main Dynex Datacenter location: Frankfurt
- Fully redundant infrastructure
- Only encrypted and compiled Quantum Circuits received
- The Dynex Cloud is architected to be the most flexible and secure cloud computing environment available today. Our core infrastructure is built to satisfy the security requirements for the military, global banks, and other high-sensitivity organizations. This is backed by a deep set of AWS cloud security tools, with over 300 security, compliance, and governance services and features, as well as support for 143 security standards and compliance certifications.



CERTIFICATIONS AND ATTESTATIONS (AWS)

DYNEX DATACENTER



AWS supports 143 security standards and compliance certifications, including PCI-DSS, HIPAA/HITECH, FedRAMP, GDPR, FIPS 140-2, and NIST 800-171, helping customers satisfy compliance requirements around the globe.





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