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EXECUTIVE STATEMENTS

THREE PROBLEMS. ONE STACK

Eclypses applies FIPS 140-3 validated, application-layer protection built on CRYSTALS-Kyber — the NIST-selected post-quantum key encapsulation mechanism. It protects credentials, tokens, and payloads even when the underlying network is compromised. Three primary use cases below.

1. Defend Against AI-Driven Attack
2. Protect Your AI Investments
3. Quantum-Era Ready Today

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STATEMENT 1

Defend Against AI-Driven Attack

Your APIs were built for an adversary that no longer exists.

Every modern enterprise runs on APIs over TLS — banking flows, healthcare exchanges, SaaS integrations, partner pipelines, internal microservices. All of it sits on one architectural assumption: that TLS is enough.

It is not anymore. A coordinated AI swarm now needs five minutes to break a TLS session on an exposed gateway and walk out with valid credentials. Whatever moves through that session — credentials, tokens, payloads — is observable to the adversary.

Eclypses protects the data, not the channel. Every payload is wrapped in one-time, polymorphic, CRYSTALS-Kyber post-quantum protection at the application layer. The swarm still gets through TLS. What they find on the other side is unusable.

WHAT YOU GET

- Layer 7 protection that holds when TLS is breached
- Built on CRYSTALS-Kyber — quantum-resistant from day one
- One-time disposable keys — no rotation cycle to exploit
- Defeats credential harvest in the five-minute breach scenario
- Covers 8 of the 10 OWASP API Security Top 10 threats, no code changes required

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STATEMENT 2

Protect Your AI Investments

The data is the asset. The model is the lens.

Your data lakes, lakehouses, and production databases hold what your business has spent decades building — customer records, financial history, intellectual property, regulated information, PHI. That data now moves constantly: into training jobs, vector embeddings, inference pipelines, across regions and hyperscalers, out to the edge.

Every movement is a transit window. MCP calls between agents and tools, model weights leaving the training cluster, inference payloads coming back — all of it is exactly what a harvest-now-decrypt-later adversary wants most.

MicroToken Exchange (MTE) protects every payload at the application layer with one-time disposable keys, built on CRYSTALS-Kyber post-quantum cryptography. One mechanism across MCP traffic, data movement, and agent-to-agent communication — no second control plane to operate.

WHAT YOU GET

- **MCP-layer protection bound to the payload, not the channel**
- **Data-layer protection for lakes, lakehouses, and production databases in transit**
- **Agentic deployment protection — no persistent credentials to manage or rotate**
- **CRYSTALS-Kyber post-quantum cryptography across cloud, hybrid, and edge inference**

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STATEMENT 3

Quantum-Era Ready Today

Post-quantum, in production. Not on a roadmap.

Anything encrypted today with legacy cryptography is already a candidate for tomorrow's quantum decryption. For multi-year-sensitive data — credentials, intellectual property, regulated information, long-lived API tokens, model weights, training sets — that is a present-day exposure, not a future one.

Eclypses is built on CRYSTALS-Kyber, the NIST-selected post-quantum key encapsulation mechanism, now standardized as ML-KEM under FIPS 203. The Eclypses Cryptographic Library (ECL) is FIPS 140-3 validated by a NIST-accredited testing laboratory.

It is shipping in production today. Data you protect with Eclypses now is already protected for the quantum era — without a second re-architecture in three years.

WHAT YOU GET

- **CRYSTALS-Kyber / ML-KEM under FIPS 203 — the NIST-standardised post-quantum KEM**
- **FIPS 140-3 validated cryptographic library, NIST-accredited**
- **Already deployed in production across financial services, healthcare, government, and infrastructure**
- **Available on AWS, Microsoft Azure, and Oracle Cloud marketplaces**

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