

Protecting Intellectual Property (IP) with Eclypses MTE

Background

A **technology-driven company** in **software, AI, fintech, biotech, or engineering** relies on **intellectual property (IP)** to maintain its **competitive advantage**. However, IP theft, insider threats, and cyber espionage are growing risks—particularly when **data is transmitted through APIs, shared between teams, or used in live applications**.

Traditional security solutions—such as TLS encryption, VPNs, and endpoint protection—fail when:

- **APIs expose sensitive IP in transit** (e.g., AI model requests, proprietary algorithms).
- **Insider threats or compromised credentials** allow unauthorized access to live systems.
- **Attackers intercept encrypted data in memory or transit** and steal decryption keys.
- **Competitors or state-sponsored actors** attempt to steal confidential business intelligence.

The Risk to Business

- **Loss of Competitive Advantage** – Stolen trade secrets allow competitors to replicate unique innovations.
- **Financial & Legal Exposure** – IP theft leads to **patent disputes, compliance violations, and lost revenue**.
- **Reputation Damage** – Stolen IP weakens investor and customer trust.
- **Compliance Risks** – Industries with IP-sensitive regulations (e.g., **ITAR, GDPR, CMMC**) face legal risks if data isn't properly protected in transit.

How Eclypses MTE Secures Intellectual Property

Unlike traditional encryption, **Eclypses MTE eliminates IP exposure in transit**, ensuring that even if data is intercepted, it remains **useless to attackers**.

The Problem: API Exposure in Telehealth & EHR Systems

- **Zero Data Exposure** – MTE replaces sensitive IP with **non-reversible microtokens** before transmission. Even if intercepted, the data cannot be reconstructed.
- **Application-Layer API Security** – Secures **live IP-related API requests** (e.g., AI model interactions, financial data processing, engineering calculations) **before** they leave the application.
- **Eliminates Insider Threats & Credential Abuse** – Unlike traditional encryption, which **relies on access control**, MTE ensures that **no unauthorized user—internal or external—can access meaningful IP**.
- **Prevents API & Data Interception Attacks** – If an attacker **compromises API communications or man-in-the-middle traffic**, they **only obtain random, non-usable tokens**, not the actual IP.
- **Regulatory Compliance for IP Protection** – Helps companies comply with **ITAR (International Traffic in Arms Regulations), GDPR, CMMC, and industry-specific data protection laws**.

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Protecting AI Models & Proprietary Algorithms in APIs

The Problem: API Exposure in Proprietary AI & Software

A software company developing proprietary AI models and machine learning algorithms faces corporate espionage threats:

- **Attackers intercept API requests** where customers query proprietary AI models.
- **Insiders attempt to copy real-time data streams and sell them to competitors.**
- **Encryption alone does not prevent API-based data extraction attacks.**

The Solution: MTE-Enabled API Security

A healthcare provider offers **remote consultations and patient record access** through a telehealth app and **EHR integration APIs**. Attackers attempt to:

- **Before transmission**, Eclypses MTE **tokenizes API responses and algorithm outputs** so the actual intellectual property **is never exposed in transit**.
- **If intercepted, attackers only see meaningless microtokens—rendering stolen data useless.**
- **Prevents insider threats by ensuring that authorized API access does not result in raw IP exposure.**

Business Benefits of Using Eclypses MTE for IP Protection

- **100% Prevention of Usable IP Theft** – Even if hackers gain access to API traffic or live data in transit, it is useless.
- **Stronger Protection Than Encryption Alone** – MTE ensures that data cannot be reconstructed even if decryption keys are stolen.
- **Seamless API & DevOps Integration** – Works with real-time systems, AI models, financial transactions, and R&D platforms without requiring major infrastructure changes.
- **Regulatory Compliance Simplified** – Helps companies meet data protection laws such as ITAR, GDPR, and CMMC.
- **Lower Cyber Insurance Costs** – Companies with MTE can reduce cyber insurance premiums by up to 30% due to lower risk exposure.

Conclusion: Future-Proof IP Security

With Eclypses MTE, companies can protect their most valuable intellectual property—whether it's **AI models, financial algorithms, proprietary software, or confidential business intelligence**. Unlike traditional security, MTE prevents **IP from ever being exposed in transit**—making API breaches, insider threats, and cyber espionage **meaningless**.

Contact us today to protect your IP with Eclypses MTE.