Replacing SFTP with Eclypses MTE: A Secure & Efficient Alternative

Background

Secure File Transfer Protocol (**SFTP**) has been the standard for securely transferring files between systems, but it comes with **significant limitations:**

- **Data Exposure Risks:** Files are still stored and transmitted in an encrypted state, meaning if an attacker gains access, they can decrypt and exploit the data.
- **Latency & Performance Issues:** SFTP requires file encryption, decryption, and key management, leading to slow transfer times.
- **Operational Complexity:** Managing SSH keys, firewalls, and access control increases administrative overhead.

The Eclypses MTE Advantage: Beyond SFTP Security

Unlike SFTP, **Eclypses MTE (MicroToken Exchange)** secures data **at the application layer**, eliminating the need for traditional file transfer protocols while offering **superior security, speed, and efficiency.**

- **Zero Data Exposure** – Data is never stored or transmitted in its original form, even within internal networks.
- **No Traditional Encryption Required** – Unlike SFTP, which relies on encryption keys, MTE replaces sensitive file contents with one-time-use, non-reversible microtokens.
- **Eliminates Attack Vectors** – No SSH keys or stored credentials that can be compromised.
- **Real-Time, Low-Latency Transfer** – Microtokenized data reduces transfer times significantly compared to traditional encrypted files.
- **Regulatory Compliance** – Meets FIPS 140-3, HIPAA, GDPR, PCI DSS, and other compliance standards.

How Eclypses MTE Replaces SFTP

Feature	SFTP	Eclypses MTE
Data Protection	Encrypted files at rest & transit	Microtokenized data (no exposure)
Security Model	SSH keys, passwords, certificates	Zero-trust, endpoint-verified transactions
Latency & Speed	Slower due to encryption overhead	Real-time transfer, no decryption needed
Key Management	Requires encryption key storage	No keys stored or required
Compliance Readiness	Requires audit trails for key access	Automatically compliant with zero data exposure
Attack Surface	Vulnerable to credential theft & MITM attacks	Eliminates attack vectors by replacing data

eclypses

Replacing SFTP with Eclypses MTE: A Secure & Efficient Alternative

Business Benefits of Replacing SFTP with MTE

Faster Transfers: No need for encryption/decryption overhead, improving **operational efficiency.**

Stronger Security: Microtokenization **eliminates risk** of stolen files being decrypted by attackers.

Lower Costs: Reduces reliance on **legacy encryption tools, VPNs, and complex key management systems.**

Regulatory Compliance Made Simple: No raw data exposure = **automatic alignment with compliance standards.**

Conclusion

By replacing **SFTP with Eclypses MTE,** organizations **eliminate security risks, improve performance, and simplify compliance**—all while **reducing operational costs.**

Contact us today to implement MTE as your next-gen secure file transfer solution.