PMXCHAIN

The future in view:

Our revolutionary product, which redefines data protection and cybersecurity, extends the existing gap in the market and makes us a pioneer of seamless encryption technology.

EAGLE PMX

SEAMLESS SECURITY INTEGRATION

WE CHANGE EVERYTHING

Microsoft
Solutions Partner

swisscom
Business Platin Partner
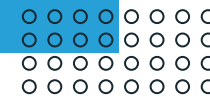
swiss made
software

Eagle PMX
Mission & Vision

Our mission:

We offer the highest level of data protection and security, providing maximum protection for companies of all sizes and on any infrastructure. In the future, it will be possible to book directly via the Azure Marketplace for your company with a «one-click» installation.

At Eagle PMX, privacy isn't just a promise; it's our passion and commitment.

Our vision:

«The best security solution is the one that the user doesn't notice and yet offers comprehensive protection against risks.»

IT security and data protection should not be complicated or obstructive. The best solutions are seamlessly integrated into users' day-to-day work without causing inconvenience or complexity.

PMXChain doesn't just encrypt your data. Blockchain-based technology also guarantees data integrity and authenticity. Decryption by third parties is not possible.

- due to dynamic self-destructing keys, it is no longer possible to access the already assigned keys

- automatic integrity check of the database (multi-level integrity check) to guarantee correctness and completeness
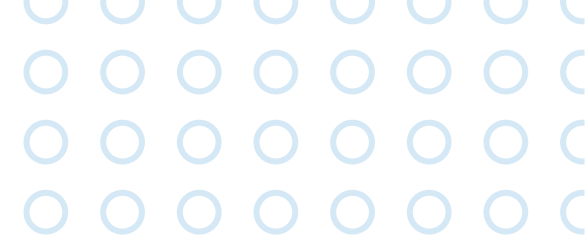
Usability **Comprehensive protection** **Seamless integration** **No complex software**

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PMXChain

Our solution

PMXChain is our efficient solution for data encryption in distributed IT infrastructures

PMXChain encrypts your data
- in the cloud
- in the data center
- on your employees' computers
- in transit between the end devices

Even when editing –without any loss of performance, without your employees noticing.

Unbreakable encryption

Minimal implementation and maintenance effort

Barely measurable loss of performance

Flexible and scalable license model

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Core Technologie

01 **Decentralization:** Our blockchain-based encryption secures data in the network without any vulnerability, which drastically increases security.

02 **Immutability:** The blockchain guarantees the immutability of data, achieving unparalleled integrity.

03 **Cryptographic security:** Robust cryptographic algorithms make our data unreadable even in the event of attacks. Our high-level encryption offers maximum security and, unlike conventional methods, is almost impossible to crack.

04 **Transparency:** Every data access or change is logged in the blockchain, which enables transparent tracking of all activities.

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Advantages and solution approach

With our solution, we pursue the following approach and significant advantages over current solutions:

Blockchain Infrastructure for Cloud Security: Our solution utilizes blockchain technology to enable decentralized, transparent, and secure management of encryption keys.

Enhanced Key Management: The inherent security and immutability of blockchain improve essential management and ensure data integrity.

Combination of Cryptographic Techniques and Smart Contracts: This combination enables secure exchange of encryption keys, safe data transmission, and transparent verification of access rights and activities in the cloud.

Seamless Integration into Existing Infrastructures: Our solution is designed as an add-on that complements existing IT structures, ensuring interoperability, consistency, and a familiar user experience.

Centralized Management and Maintenance: Our solutions management and maintenance are centralized, increasing efficiency and reducing operational costs.

Protection Against Future AI Threats: Our solution includes mechanisms for detecting and monitoring abnormal behavior at the node level and pattern recognition in smart contracts.

Integration into the Azure Marketplace: Native integration into the Azure Marketplace, including all associated automation, is possible.

Cost Efficiency: The solution reduces overall operational costs through reduced implementation, integration, training, and support efforts.

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Advantages and solution approach

How we stand out from existing solutions

Integration into Existing Cloud Infrastructures: Our solution enables, for the first time, the direct, native integration of blockchain applications into existing environments, regardless of the use case or existing encryption technologies.

Independence from External Providers: No external provider with its cloud infrastructure is required. The solution can be operated both off-premises and on-premises.

Client-Side Integration: A client containing the private blockchain is integrated as a service into the user's Windows system, for example, to monitor the OneDrive folder.

Virtual File System: The virtual file system prevents file fragmentation from remaining in Windows, making data theft impossible. It uses sandboxing and isolation mechanisms to protect the system from malware.

Dynamic Key Rotation: After being edited, files are encrypted with new keys, preventing Windows processes from accessing files in the virtual file system. Keys can also be destroyed in order to avoid complete access to the data.

Versioning and Snapshots: Azure creates snapshots of modified data within the blockchain, enabling versioning and tracking changes.

Unique Market Solution: The native integration as a Microsoft app in the Microsoft Marketplace and the described security features are currently unique.

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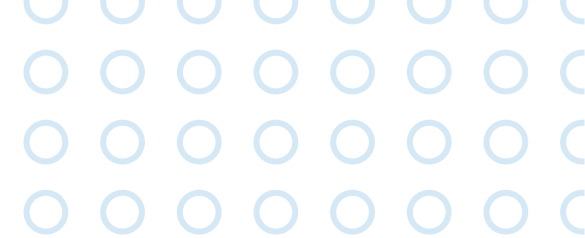
PMXChain summary

The Decentralized Protection Matrix

PMXChain protects against advanced AI threats through a decentralized architecture and third-party immutable data .

The platform offers:

- ● Decentralized architecture for robust protection

- ● Future-proof concept

- ● Remote file destruction and traceable transactions

- ● Ease of use and seamless integration

- ● Scalability and adaptability to evolving threats

PMXChain offers a comprehensive solution for protecting digital assets from the challenges of an unstable digital landscape.

You can find another research report on cyber security here.

> Link to the report

Eagle PMX

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