unified eXchange platform (UXP)

REFERENCES

UXP has been implemented across various sectors and countries all over the world, including:
- eGovernment: Ukraine (Trembita), Benin, Malaysia, the Bahamas, Greenland, Namibia, Brazil, Tunisia, etc
- Commercial: Japan
- Healthcare: USA, Japan
- Defence: NATO pilot, Military Mobility Platform SDMMS

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UXP

CYBERNETICA

Unified eXchange Platform (UXP) is a fully-supported software suite designed to enable secure, peer-to-peer data exchange over encrypted and mutually authenticated channels. By providing governments with a seamless interoperability platform that unifies fragmented public and private organisations, UXP enables them to deliver human-centric services without compromising security, privacy, and regulatory compliance.

Developed by Cybernetica, UXP builds on nearly two decades of experience in creating and continuously enhancing the Estonian X-Road system, as well as ongoing independent research on interoperability, information security and governance.

KEY BENEFITS

Efficiency and innovation
- UXP enables a whole-of-government service delivery, enhancing citizen satisfaction, improving ease of doing business and driving more efficient public administration.
- By providing a standardised, shared mechanism for accessing data and services, UXP delivers significant cost savings and frees up resources for higher-value initiatives.

Security and resilience
- All interactions through UXP are authenticated, encrypted, and digitally signed to protect data from unauthorised access or modification.
- Built with a "secure by design" approach, UXP is engineered to operate reliably over the public internet, with robust security embedded as a core, foundational feature.
- As a fully decentralised and distributed technology at the data transaction level, UXP eliminates central bottlenecks and single points of failure, while avoiding centralised control. This ensures high resilience and enhanced privacy.
- Continuous support and maintenance by a single trusted partner ensure reliable, consistent operations.

Legal assurance and auditability
- UXP provides legal-grade assurance that data is accurate and originates from trusted sources, enabling the full replacement of paper-based processes.
- Every query transmitted through UXP is recorded as a tamper-proof, evidentiary document, ensuring full transparency, accountability, and providing tools for solving legal disputes.

Governance and sovereignty
- While decentralised at the data transaction level, UXP maintains centralised governance to ensure secure, trusted management of large ecosystems comprising hundreds or thousands of entities.
- Data owners retain full control over their data and resources, enabling sovereign, trust-based data sharing.
- UXP provides an overview of available data and services, enhancing data management through the enforcement of the once-only principle and reducing duplication

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