

# unified eXchange platform

secure data exchange between  
organisations

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# uxp

UXP (Unified eXchange Platform) is a method of securely connecting people and organisations. It can be used to connect government registers, and to provide services around it.

UXP is a tried-and-tested solution, and in 2018 will have been in operation in Estonia for 17 years.

UXP, as the core technology for the X-Road, was one of the key building blocks of the digital society in Estonia.

UXP is also used by governments including those of Namibia, Haiti and Ukraine, and has been piloted by NATO.

## Key benefits:

### Security

- All messages moving through UXP are encrypted at the highest reasonable grade
- All messages are digitally signed and time-stamped
- Secure by design — UXP was originally created to function within the public internet, so its security has always been of paramount importance
- UXP is a distributed technology — fully decentralised
- Data owners have full control over all data and resources

### Auditability

- Digital signing — everything within UXP is a legally-binding document, with an indelible user signature and timestamps
- Fully transparent — every query sent over UXP becomes a document evidentiary value
- Traceability — every transfer of data through UXP can be traced back to its source
- Transparency — easy to administer, easy to use

## References

Estonia has become a successful, secure, digital society through the use of UXP. It is thanks to its decentralised framework that all citizens retain full control over their data and resources. UXP has since been adopted by the governments of Namibia, Haiti, Ukraine, as well as for a NATO pilot in order to exchange data securely between member states. As such, its effectiveness is being proven in a wide variety of dynamic environments, with mission-critical systems and high security requirements.