



eIDAS in the Cloud



10+ Years Experience From EC Directive to eIDAS

Strong Authentication & Electronic Signature Option Requested by Luxembourg Public and Banking Sector 2005 LuxTrust Founded Trusted 3rd Party PPP of Major LU Banks & and Government Cost Sharing for PKI-Based Trust Services Provision

2009 Accredited as Trust Services Provider in

Europe

... and beyond for Code Signing & Website Certificates Monitored by Payment Sector Supervision Body CSSF







10+ Years Experience Our value chain



10+ Years Experience The use cases



Any User Device \rightarrow 1 Certificate for Any Service

The Challenges

Impact of mobile internet



Desktops still used by professionals

Handhelds replace desktops for surfing, buying, selling, banking



No matter which equipment is chosen Achieve the same user experience

The Challenges

Impact of deployed software

Platform dependency creates a maintenance nightmare

Customers & users handicapped by platform updates

Provider has to maintain all software variants in time

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Life cycle management and evolutions complex for all parties

Remove client platform dependencies

Decouple service life cycle dependencies

The Challenges

Impact of chip-based devices

Smartcard access limited due to platform dependencies

Smartcard usage impeded by need for deployed software



Promote unconnected user devices

Use central authentication & signature creation

The Challenges Impact of PSD2

Dynamic linking required for authentication data

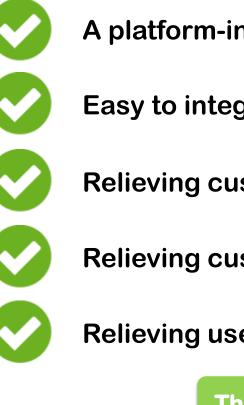
Segregated channel required for visualizing transactions



Use devices with own channel, display and keyboard

The Vision

Trust services in the cloud



A platform-independent services portal

Easy to integrate based on adopted standards

Relieving customers of PKI complexity

Relieving customers of service evolutions



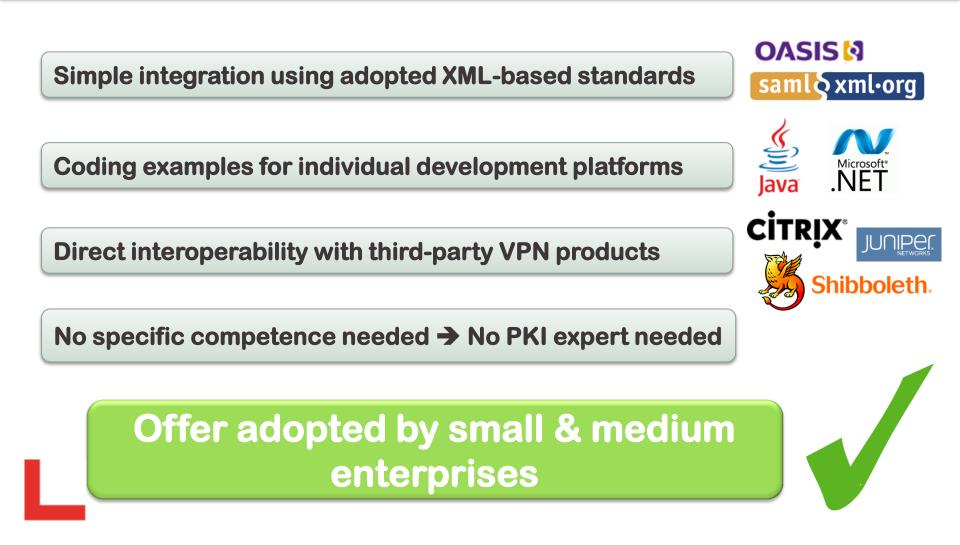
Relieving users of access constraints

The idea of ORELY was born



The Benefits

For integration



The Benefits

For maintenance



Customers not impacted when features are added

New features do not generally need application upgrade

Application and service life cycles decoupled

Multi-platform support without software maintenance hell

Decreasing maintenance load in favor of service evolution

Life cycle decoupling increases productivity on each side

The Benefits

For usage and compliance

Unconnected devices → Increased security & availability

Dynamic Linking → Compliance with PSD2 and stronger sole control

Seamless mobile support -> Augmented user convenience

Responsive design → Same experience on any platform

Perfect life style alignment increases adoption



The Services

Strong authentication

Support for various authentication mechanisms **Enabling web applications and corporate VPN appliances Device selection based on desired assurance level** Selection based on available user equipment **Device management completely delegated to LuxTrust** All PKI aspects completely managed by LuxTrust Customer needs to launch an authentication request only



The Services

Advanced electronic signatures

Support for interoperable European signature standards User device selected based on desired assurance level Selection based on available user equipment **Device management completely delegated to LuxTrust** All signature & validation aspects completely managed **Enabled by Crytomathic Signer based on Thales HSMs** Customer needs to launch a signature request only THALES OMATHIC

The Conclusion

Facilitate eIDAS services via the cloud



Cloud enables decoupling of concerns



Cloud enables decoupling of service life cycles



Cloud enables decoupling of platforms



Cloud makes trust services simple and convenient

Cloud can be eIDAS-compliant + mobile + qualified







500.000 USERS | VALIDATIONS IN OVER 170 COUNTRIES



LUXTPUST

Thank you!



Thomas Kopp