Lequinox platform from HPE Pointnext
Introduction

Digital transformation of business is not only accelerating and creating new opportunities but also creating new challenges, as companies operate in the digital ecosystem. Compliance with business regulations and EU laws is critical for the business as well as for customers.

Based on an innovative technology and approach, the Lequinox® solution offers real-time notarized processes such as accountability, responsibility, and traceability. This can become part of the transaction workflow used to deliver customer services and business outcomes. Many users and companies are able to act based on their identity and roles, the stakeholders in a transaction:

- Have a copy of the transaction in their own encrypted transaction log with eIDAS (electronic identification, authentication and trust services) advanced electronic signatures
- Access transactions archived material in an encrypted archive
- All transactions are logged—who did what, in what role, when, and with whom
- Get legal assurance that the Lequinox console transaction audit can be used as evidence of action in regulatory compliance audit reviews

The Lequinox solution can be integrated into existing or new applications via REST APIs or standard application plugins.

The Lequinox solution has the following core capabilities and characteristics:

- Decentralized solution
- Cloud native
- Peer-to-peer
- Fully encrypted end-to-end
- eIDAS advanced electronic signatures (Signed-in role)
- Participants have their own copy of the transaction log (distributed ledger technology)
- Built from the ground up to be compliant with regulatory requirements and can be updated to accommodate new requirements

Principles of the Lequinox solution

Identity and roles

The individual controls their digital identity. Identities can be as an individual, as a role in a company or organization, as an application acting on the behalf of a company, or as an Internet of Things (IoT) device acting as an authorized user in a workflow.

As in the physical world, they can represent a company through a role. The roles are delegated by the organization and allow an employee/application/IoT device to act and sign on behalf of a company based on the capacity of the role. All interactions are made between identified users only.

Traceability

With Lequinox solution processes gain permission in real-time and automated traceability for every party in the interaction (distributed ledger). The receipts are stored in the archive connected to the role. The receipt provides information about—who did what, in what role, when, and with whom.
**Process integrity**

The content/information is signed locally and encrypted through the process end-to-end. The process is only visible for the interacting parties and the access to the information is based on policies and roles. No information is ever “touched” or “retained” by the Lequinox solution, as it only facilitates the transaction.

**Interoperability**

The Lequinox solution is based on distributed ledger technology design and can be deployed in a hybrid delivery model (on-premises, SaaS from a communication service provider [CSP], or **public cloud**). This enables organizations to use different Lequinox solutions but still interact in one single application. The owner of the application sets the policy for the references to identify users in an application (such as, what are the credentials required to satisfy the legal requirements for identity within the company, country, and more). With this, local and global rules and regulations can be adhered to. They are fulfilled when users sign-in with their role and identity in a digital process.

**Realize your business outcomes and the value of the Lequinox solution**

The Lequinox solution can be deployed into existing applications via APIs, this enables the capability to digitize today’s processes that have a manual paper-based element and delivers reduced costs and facilitating compliance in digital interactions.

The solution also makes it possible to offer new disruptive services to customers such as fully digitalized services, enabling customers to sign legally binding documents electronically with full transaction visibility for both parties, as well as addressing new markets and opportunities.

With the unique approach of Lequinox solutions in managing digital identities and roles, traceability and privacy connected to a decentralized environment, enables:

- Every interaction to have a unique cryptographic key, providing protected access to the application and content.
- Peer-to-peer communication with customers and other companies allowing personal and confidential data to be shared without compromising the integrity of the information.
- Digitally signed forms/information using digital identities and roles that are eIDAS compliant.
- A distributed traceability for all parties in an interaction.
- Phishing avoidance from third parties as all users in the system are identified and transaction logs distributed to each participant who signed in the transaction (distributed ledger transaction log).
- Increased internal control to support future audits and facilitate compliance.
- New digital services to be created and improve customer satisfaction.
- Compliance with business and legal requirements.
- The transaction archive is used for audit purposes providing information on who signed the transaction, in which role, date and time, and with whom.
- Removal of the physical power of attorneys as the solution can manage roles and responsibilities digitally.

**Differentiation**

Legal assurance is important to every business and organization, the flow of information and data, and the regulatory compliance obligations are getting ever more complex. There is a requirement to track and record interactions inside organizations and with customers as well as other organizations. Lequinox trust service platform empowers applications, services, and IoT with electronic signature, certificate, and other trust services.
The Lequinox solution addresses the challenges with legal assurance from a different perspective. Instead of taking the IT-only approach, the solution has been designed and built with an end-to-end legal assurance and a deployment focused on business logic. The Lequinox solution is both a policy-driven methodology and technology. It has the possibility to mirror the physical world’s behavior—laws, rules, and legislation. It enables the digital interaction and all actors’ legal right to traceability, which is the fundamental for compliance.

### Key features of the Lequinox solution

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<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td>Cloud solution</td>
<td>Can be deployed in public, private, and hybrid cloud</td>
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<tr>
<td>Decentralized (peer-to-peer)</td>
<td>Scalable to meet any number of users</td>
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<td>Policy based</td>
<td>Facilitating legal and compliance requirements</td>
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<td>Confidentiality and integrity</td>
<td>Protected using end-to-end encryption</td>
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<td>Traceability and archiving</td>
<td>All participants have visibility of their transaction and all transactions are archived</td>
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<td>Pay per use</td>
<td>Based on number of transactions or number of users</td>
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<td>Role-based identities</td>
<td>For individuals, companies, organizations, government bodies, applications, and IoT devices</td>
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<td>Advanced and qualified certificates, electronic signatures</td>
<td>Compliant with European legislation</td>
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### Why HPE

Hewlett Packard Enterprise is today the principal provider of the Lequinox solution. We deliver:

- On-premises solution with physical hardware using HPE proven infrastructure.
- Through Cloud28+ global network.
- Via cloud service providers.

HPE Consulting has developed a comprehensive set of services to advice, design, build, and integrate the Lequinox solution. Our services:

- Provide Lequinox solution licenses
- Offer Lequinox framework application licenses
- Deploy standard Lequinox solution applications
- Align and integrate customer processes and applications to business and regulatory rules via the Lequinox APIs
- Provide management of change services
- Offer managed solution support services
- Provide remedial services for the Lequinox solution

Learn more at [pointnext.com](http://pointnext.com)