

Trust and Security in eServices



A *Strategic Planning*

B *Roadmap to Success*

C *Achieving Success*

The RegioPKI® Concept for eServices

The *RegioPKI®* platform concept gives a comprehensive approach to regionally developed, initiated and completed eServices. It enables a bottom-up development process for eGovernment and paperless process by providing all necessary tools and knowledge in order to achieve highly interoperable and locally manageable eServices based on trust and security.

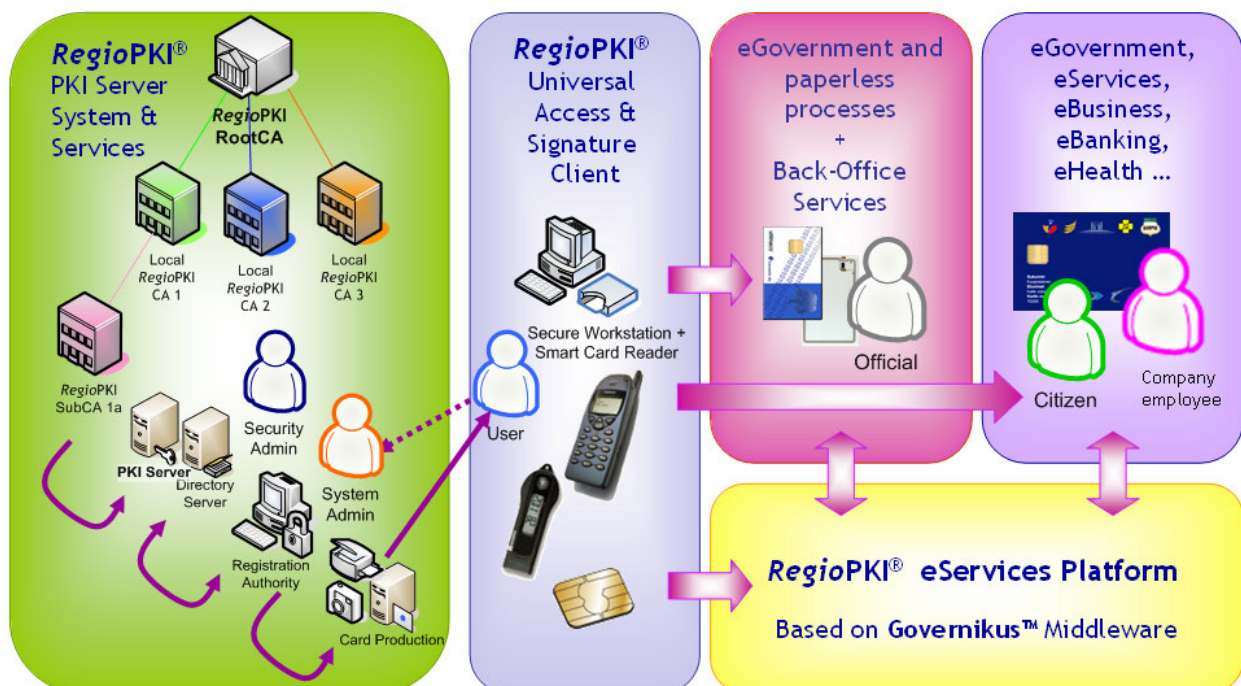
By integrating a Smartcard management system, a certificate management platform and an eServices platform, the *RegioPKI®* System enables a new fully electronic era in the regions with the aim of fulfilling the objectives of the Lisbon strategy.

The Main Elements of the RegioPKI® Concept

The *RegioPKI®* System is a unique solution and service platform for setting up certificate-based, globally interoperable eServices on local, regional and national levels. At the core, an enterprise Public Key Infrastructure (PKI) is set up in a hierarchy comprising of a Regional Root and its local Subsidiaries. Thus small scale hierarchical trust architecture can be developed without heavy investments, and the benefits of a Chain of Trust can be fully harnessed.

The platform enables cross-government and cross-industry secured transactions and federated identity services in an interoperable way. Interoperability is achieved through standards, design and technology, and interoperability is utilised in order to integrate available third party and National identity and trust schemes into your own *RegioPKI®*.

Operational Elements of the RegioPKI® system



A Down-to-Earth Approach to eServices

RegioPKI® is for Regional entities (cities, municipalities, provinces, states) from geographically and economically defined areas where cross-government and cross-industry eServices and eBusinesses can be delivered as strategic success factors for the regional and local development. The **RegioPKI®** System provides a practical solution for designing, implementing and operating eServices and paperless processes efficiently.

A Unique Concept

Public Key Infrastructure (PKI) technology is becoming commonplace for securing public and corporate eServices including eBusiness transactions. Numerous services offer and require strong authentication and digital signature solutions using eID and professional cards. What is needed in order to capitalise the new ICT-based technologies and services, can be defined as the "4i's" concept of **Integration, Industrialisation, Individualisation** and **Interoperability**, where:

1. Different tokens and techniques (smart cards, certificates, one time passwords (OTP's), mobile devices, USB tokens) are integrated through common management and service platforms in a secure manner
2. Solutions and applications are individualised according to specific organisational, user and security needs
3. Individual ready-to-use solutions are implemented using industrialisation methods to achieve high efficiency, high quality and economies of scale
4. Interoperability of the technology and the services is achieved through the use of strong standards, layered and modular application deployment

About our Company

EuroConseils Sprl offers highly skilled consultancy and advisory services and solutions for public and private organisations in the strategic area of trust, security, identity management. We also provide advisory services on EU affairs related to European information society programmes, initiatives and best-practices.

Our activity area covers Europe and we operate from our Helsinki offices in Finland and from our Brussels and Leuven offices in Belgium.



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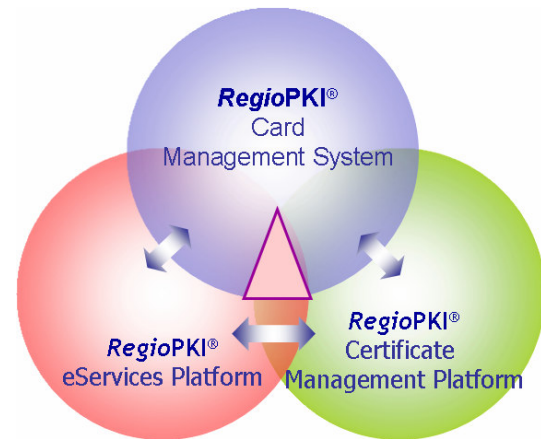
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A Unique Solution

The **RegioPKI®** System is based on a comprehensive and inclusive modular platform model, which consists of all the necessary components needed to achieve trustworthy eServices and eBusinesses using the **4i** concept. The modules are:

- A Certificate Management Platform to provide electronic certificates for authentication, electronic signature, encryption, etc.
- A Management System for smartcards and other tokens including contactless RFID and mobile solutions
- The **RegioPKI®** eServices Platform, based on OSCI protocol (On-line Services Computer Interface, XML encryption and signatures)
- Common Services such as directory and repository services, and other technical and management services (advisory, support, consulting etc.)

These modules can be taken into use independently, depending on the actual level of ICT-based services, processes, needs and



A Practical Approach to take up the eServices

The **RegioPKI®** set up is process which is taken in phases. The system is established in the following phases:

1. Carry out the **RegioPKI®** Road Map study to assess the needs and extend of eServices, strong authentication and required systems based on the future plans and actual situation including the ICT infrastructure
2. Consensus building Workshop and launching of small scale pilot(s)
3. Full planning of the consequent adoption and implementation phases
 - the **RegioPKI®** Framework Plan
4. Full adoption, implementation and installation of the
 - **RegioPKI®** System Platform for certificate production and management
 - **RegioPKI®** eServices Platform - integration of systems for paperless processes within and between organisation, including local SMEs
5. Creation and setting up of eServices, training and support activities
6. Continuous development of the system, processes, eServices and content