Enabling Trust in eServices

A *Strategic Planning*

B *Roadmap to Success*

C *Achieving Success*

The RegioPKI® eServices Platform

The *Regio*PKI® eServices Governikus™ platform is the leading solution for electronic transactions in eGovernment. With Governikus™ companies and private citizens alike can exchange messages over the internet with public authorities in a secure, traceable and trustworthy manner.

Governikus™ is a middleware, which has been especially developed for secure electronic transactions over the Internet. Hence, Governikus™ solves many of the central problems concerning eGovernment services:

- Sophisticated encryption guarantees absolute communication privacy and assures compliance with even the highest confidentiality requirements
- Support for qualified digital signatures ensures data integrity and authenticity of any transmitted data and document
- Governikus™ supports open internet standards as it is based on the OSCI-protocol, which is a SOAP dialect
- Governikus™ is a modular platform that provides an extensive range of mechanisms for the creation and validation of digital signatures, including querying of respective certificate authorities
- Thanks to its platform independence and high adaptability, Governikus™ can be run in almost any system environment and enable digital signatures in virtually any use scenario

(PKI stands for Public Key Infrastructure)

Learn more at: www.regiopki.com!

Practical example

For example in a ERP integration, the click of the "Accept" button after finishing an order, triggers a Java pop-up window requiring the user to plug in a signature smartcard and to insert the signature PIN of the certificate, upon which the Governikus™ client calls on the Core system to perform a legally binding digital signature on the order form, and to process the order document according the designed workflow description.

A Central Security Infrastructure

The *Regio*PKI® eServices Governikus™ platform is a central security infrastructure that provides services for secure communication between public service authorities and their customers: citizen, enterprises and other government agencies.

The platform provides the following functionalities:

- Creation and verification of digital signatures
- User authentication for web-based and other applications, using various authentication methods
- Single point of entry for the verification of all certificates transparent to the user
- Request and verification of time stamps

The Governikus™ platform offers the following services:

- It guarantees integrity, authenticity and non-repudiation of received and sent messages, based on digital signatures and their automatic validation
- It guarantees communication confidentiality using rule based PKI encryption for all transmitted or saved data
- It guarantees traceability of all communications
- Centralised batch signing capabilities for mass signing and verification of digital signatures
- It enables the use of qualified digital signatures that are compliant with European directives and European national legislations

The Governikus™ platform provides PKI-capabilities to virtually any existing internet-application. The system's modular design makes that PKI-security services are implemented as separate functional components, which can be accessed through standardised central interfaces. These interfaces, or communication gateways of the Governikus™ Core System, are used by external email, web and different business service applications to access the following services:

- Data encryption and decryption using keys that are managed within the system, thus avoiding key escrowing of qualified certificates, that are stored on user smartcard
- Signature creation and verification using both qualified user certificates for content signing and third party timestamp certificates for communication integrity
- Virus scans of emails and documents as a service
- Authentication based on different credentials and third party authentication services

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