



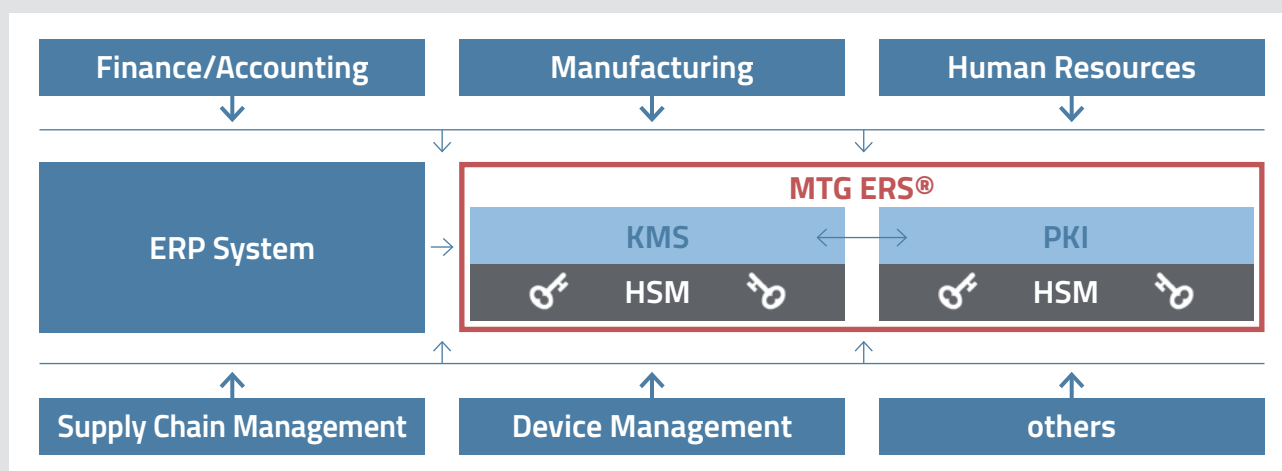
## MTG ERS® Enterprise Resource Security

Simplify and centralize the management of cryptographic keys and identities during the complete key lifecycle.

MTG ERS® unlocks the full potential of secure digitalization across industries and processes. MTG ERS® includes all necessary components to sufficiently plan, control and manage the usage of cryptographic keys and certificates:

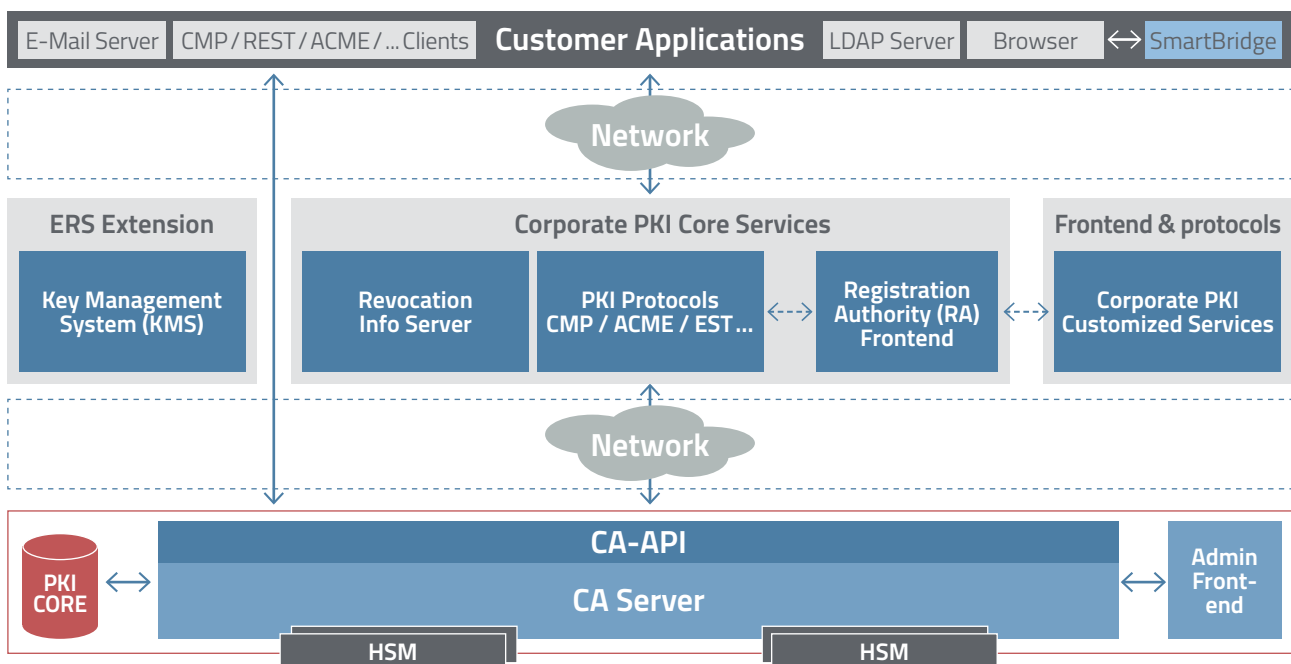
- > MTG Corporate Public Key Infrastructure (PKI)
- > MTG Key Management System (KMS)
- > Hardware Security Module (HSM)

MTG ERS® can be flexibly configured, extended and customized to meet industry- and customer-specific requirements.



## MTG Corporate PKI Architecture

MTG Corporate PKI was tailor-made for enterprises to implement certificate management best practices, whether it's SSL/TLS, S/MIME, Code Signing, Client, Device or IoT. MTG Corporate PKI implements and supports a Certificate Management Operation Policy with strict access control mechanisms that enforce the "Principle of Least Privilege" in certificate management.



### Certification Authority (CA)

The Certification Authority (CA) is the central component of the PKI platform, responsible for the security critical PKI operations like CA creation and management, issuance of administration certificates, HSM configuration and more. In addition, MTG CA offers integrated user administration with extensive role and permission management.

### Registration Authority (RA)

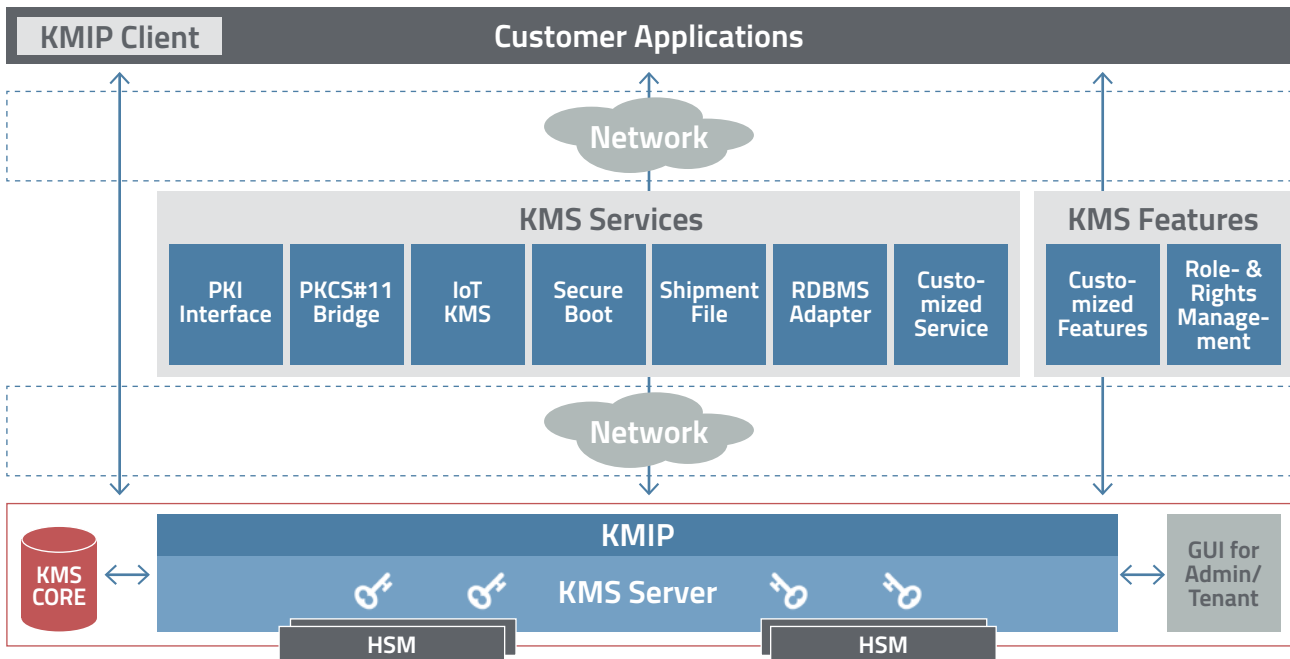
A Registration Authority (RA) receives certification requests through various channels, evaluates each request based on a set of predefined, highly configurable policies and instructs the CA to issue the certificate. The MTG Registration Authority (MTG RA) offers a simple, easy-to-use graphical user interface in the form of a web application, that enables customers to create, revoke, approve and manage digital certificates.

### Add-Ons & Features

- > PKI protocols: ACME, EST and CMP
- > REST API
- > Certificate lifecycle automation: issuance, renewal and revocation processes are centrally managed and controlled
- > Certificate validity information is retrieved via CRLs or the OCSP protocol
- > Detailed certificate logging and auditing functions
- > SmartBridge: Smart Cards Integration
- > Highly granular authorization system by user, role, department, company, branch, etc.
- > Single Sign On
- > Out-of-the-Box Clustering, High Availability & Flexible Scaling
- > Cloud & on-premise operation / deployment possible
- > Support of Post-Quantum Cryptography Algorithms
- > Integration MTG Key Management System

## MTG KMS Architecture

The MTG Key Management System (KMS) centrally manages all cryptographic keys that protect enterprise security-relevant resources and processes and simplifies the consistent implementation of cryptographic services and applications.



### Key Management Lifecycle

MTG KMS takes over the entire key management lifecycle and offers support for the standardized KMIP interface for all key activities.

### Role and rights management

The MTG KMS platform offers optional multitenancy. The dedicated role and rights management enables fine-grained configuration of key access and usage.

### PKI Integration

A Public Key Infrastructure (PKI) can be easily integrated into the MTG KMS. The MTG Corporate PKI is optimally adapted to the MTG KMS.

### KMIP Interface

The KMIP interface provides smooth and easy integration for existing applications while others can be easily integrated using industry-specific services and adapters.

### REST Interface, Services & Adapters

In case the KMIP protocol does not support the required functionalities (e.g. bulk jobs, legacy applications), a REST interface can be used to support a variety of clients and applications. Customer or industry-specific services and adapters can be easily integrated. Adapters for other common interfaces, such as PKCS#11 or JCA/JCE, offer additional application integration.

### Comprehensive consulting & support

Together with our customers we develop a detailed specification that takes into account the individual requirements for the respective project. The departments (e.g. the product team) involved are fully incorporated and coordinated in this process. MTG supports and advises on the selection and integration of the appropriate HSM for the project.

## MTG HSM Consulting, Supply & Integration

We provide professional support in the Hardware Security Module (HSM) selection and its integration in your infrastructures.

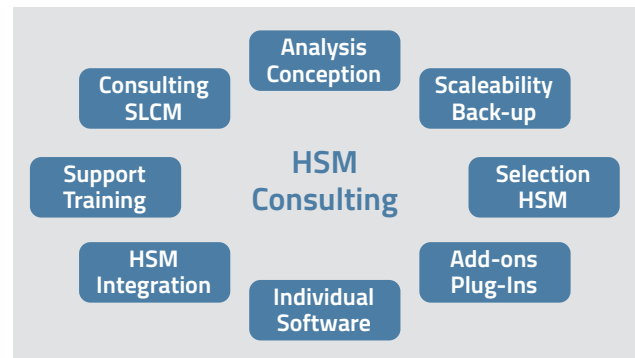
### HSM Consulting & Service-Portfolio

The conception and design of highly trusted architectures and infrastructures, as well as the selection of the appropriate hardware equipment and HSM, requires highly specialized security experts. Additionally, the development of individual software and HSM integrations into existing systems for such specialized environments is also challenging. MTG provides you with comprehensive consulting services on all HSM-related matters and develops the specialized HSM software according to your requirements.

- > Analysis, conception and specification of requirements
- > Definition of scalability and failover / backup strategies
- > Selection of suitable HSM models
- > Development of special software (e.g., plug-ins)
- > Development of individual software
- > Integration of HSM into existing IT infrastructures
- > Support, training and operational support
- > Advice on the implementation of security lifecycle management

### Vendor-independent HSM integration

The Hardware Security Modules recommended by MTG can be deployed in a plethora of industries such as smart metering, finance, payment, automotive, cloud services and the public sector. These HSMs are optimally combined with the MTG security software. We support a wide range of HSM Vendors like Utimaco, Entrust nShield, Thales Luna and more.



MTG ERS® supports all the standard HSM interfaces such as PKCS#11, JCA and CNG as well as some custom Vendor APIs.

### Partnerships:



MTG AG is a leading specialist for sophisticated encryption technologies "Made in Germany". We simplify and centralize the management of cryptographic keys and identities throughout the complete key management lifecycle.

MTG AG · Dolivostraße 11 · 64293 Darmstadt  
Tel +49 6151 8000-0 · [contact@mtg.de](mailto:contact@mtg.de)

[mtg.de](http://mtg.de)