

R&S[®]TRUSTED GATE – ENCRYPTION AS A SERVICE

R&S[®]Trusted Gate – Encryption as a Service offers encryption for all proprietary applications within an organization. The programmable service leads to a data-centric security with the high standard and up-to-date encryption methods and is much more efficient than internal implementation of data protection.

▶ Automatic encryption on-the-fly for all internal applications

Encryption service for all files handled by internal applications

R&S[®]Trusted Gate can use SOAP/REST APIs to interact with other organization applications. Applications can send files and R&S[®]Trusted Gate returns them automatically in encrypted form. In this way any kind of application data can benefit from the highly secure data encryption without additional user interaction.



Product Flyer
Version 01.00

Easy implementation of encryption and key management

It is very difficult for organizations to implement a high standard data security to their proprietary applications. An implementation in every single application needs huge resources and the results are often not meeting the requirements and need to be updated constantly. R&S®Trusted Gate – Encryption as a Service is enormously simplifying the development process, because the encryption and key management can completely be outsourced to a single service delivering highest encryption standards and a flexible key management directly to all proprietary applications. R&S®Trusted Gate – Encryption as a Service can minimize resources for internal cryptography development.

Centralized administration

The centralized management allows administrators to manage encryption standards and keys. Via the management console of R&S®Trusted Gate – Encryption as a Service the administrator can change certain options in one workflow for all internal applications. This saves a huge amount of resources and ensures a common data security policy for all proprietary applications. This automatically leads to a higher level of data security in the organization as the data is always protected by the best fitting encryption standard and the administrator can very quickly adopt to new requirements.

Related R&S®Trusted Gate products

R&S®Trusted Gate – Solution for Microsoft® 365 Teams Edition

Provides secure processing of sensitive data in Microsoft® 365 and Teams. While in the public cloud just virtual files without content are exposed, the original files are stored encrypted and fragmented in a multi-layer storage system on-premises or in various clouds.

R&S®Trusted Gate – Mail Control

Provides secure processing of sensitive attachments in emails. Attachments will be extracted, stored encrypted and replaced in the mail by a link. Recipients can access content with defined security rules (full access, read only or no access). This solution contains data exchange and mobile access solutions.

R&S®Trusted Gate – Secure Data Exchange

Provides high secure data exchange functionality between internal and external project groups and teams. Data can either be synchronized automatically or with manually user interaction between different parties. The exchange data target can be configured as a multi-layer storage system either on cloud or on-premises storage systems.

Easy API integration

R&S®Trusted Gate – Encryption as a Service uses standard SOAP/REST APIs. It's very easy to understand for developers, so there is no need to spend a lot of development time into the implementation of encryption and key management. The standard WSDL formatting allows easy software documentation.

DELETE	/restapi/deleteDocument/{target}/{filepathname}
OPTIONS	/restapi/deleteDocument/{target}/{filepathname}
GET	/restapi/documentPermissions/{target}/{filepathname}
PUT	/restapi/documentPermissions/{target}/{filepathname}
OPTIONS	/restapi/documentPermissions/{target}/{filepathname}
GET	/restapi/documentVersions/{target}/{filepathname}
OPTIONS	/restapi/documentVersions/{target}/{filepathname}
GET	/restapi/downloadDocument/{target}/{filepathname}
POST	/restapi/downloadDocument/{target}/{filepathname}
OPTIONS	/restapi/downloadDocument/{target}/{filepathname}
PUT	/restapi/folderPermissions/{target}/{folderpath}
OPTIONS	/restapi/folderPermissions/{target}/{folderpath}
GET	/restapi/getFolderTree/{target}/{folderpath}
OPTIONS	/restapi/getFolderTree/{target}/{folderpath}

Flexible deployment for high performance

R&S®Trusted Gate – Encryption as a Service is a software based on a modern microservices infrastructure. It allows a flexible deployment of its encryption service in on-premises, hybrid or cloud environment. For a higher grade of elasticity micro-services can be deployed in the cloud so even peaks can be balanced without additional efforts. The modern software architecture of R&S®Trusted Gate ensures a constant high performance that scales nearly linear with allocated CPU power.

R&S®Trusted Gate security options

This solution encrypts documents using Block Cipher Mode (GCM). This ensures confidentiality and integrity. The symmetric document-centric keys (AES 256) are additionally encrypted with asymmetric keys (RSA or elliptic curves). Access rights can be assigned with high granularity for groups and individual users.

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