

R&S® TRUSTED GATE – SECURE GLOCALIZATION

R&S®Trusted Gate – Secure Glocalization allows worldwide organizations to comply with the more and more complex national data regulations while allowing them to collaborate on global scale using major cloud collaboration platforms. With a globally organized administration with centralized software infrastructure R&S®Trusted Gate – Secure Glocalization allows a very cost effective infrastructure for collaboration with a quick return on investments.

► Use centralized management for your collaboration platform while complying with all National restricted data regulations.

Global challenges for worldwide collaboration

To comply with all national data regulation worldwide many organizations have the challenge to build up independent data handling infrastructures in every country. Only in this way they would be able to make sure that no regulated and restricted data leaves its country. These separated infrastructures need huge resources for administration personnel, software and hardware. R&S®Trusted Gate – Secure Glocalization can heavily reduce these costs with it's data-centric approach for centralized global collaboration.



Product Flyer
Version 01.00



Original situation for organizing global data

It's a challenge for organizations to collaborate worldwide with data. They have to keep in mind that certain data is not allowed to leave certain countries and is not allowed to be stored outside of these countries. In the traditional way for this national restricted data a separation by hardware and domains was necessary to ensure data separation. These separated infrastructures had to be administrated independently. For large global organizations it is hard to integrate workflows to work with unrestricted data on a global scale, because they had to overcome the challenges linked to separate security domains without risking national restricted data leaving certain regions.

How R&S®Trusted Gate solves global data challenges

R&S®Trusted Gate – Secure Glocalization uses a data-centric approach to separate the data. If a user in a certain country uploads data to a collaboration platform like Microsoft® SharePoint, R&S®Trusted Gate can send data without restriction to the global central data share while the regulated data is stored in a target within the said country. The decision where to store the data can be based on keywords. The regulated data will always be stored in encrypted and fragmented form. For additional security encrypted and fragmented regulated data can be stored and distributed on multiple storage targets within the country. If there is no data classification in place organizations can decide to generally store all the data in encrypted and fragmented form within the country.

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.

Centralized global administration

During any upload of files in Microsoft® SharePoint this solution creates a virtual copy of each restricted document, without sensitive content. It only contains metadata like keywords or other classification data from the original document. Authorized users in each country can work transparently with virtual files. Only when the actual file is downloaded will users in the certain country have access to the contents of the document. The global administrators only have to manage one instance of the collaboration platform. While they can manage the service on a global scale they have no access to the country restricted data protected by R&S®Trusted Gate. The centralized management of the collaboration platform saves personnel and monetary resources and allows the users to easily work together on documents that are not restricted by national data protection regulations.

Flexible deployment and worldwide roll-out

R&S®Trusted Gate is a server software based on a modern microservices infrastructure. It allows a flexible deployment of R&S®Trusted Gate solutions in on-premises, hybrid or cloud environment. For a higher grade of elasticity certain micro-services like the encryption service can be deployed in the cloud so even peaks can be balanced without additional efforts. Global organizations have a complex data infrastructure. R&S®Trusted Gate supports global requirements by being prepared for a gradual roll-out country by country. In this way organizations can decide to prioritize regions with the more urgent need to comply with local data regulations.

R&S®Trusted Gate security options

Due to fragmentation of the restricted data into small chunks, confidential data cannot be compromised even by complex cryptographic attacks. The chunks can be stored and distributed via a configurable software-defined storage (SDS) module. The SDS module enables file storage on different storage targets. An integrated RAID module supports a multi-storage strategy for achieving resilience against scenarios like an internal IT security breach or certain servers going offline. R&S®Trusted Gate 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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