Rohde & Schwarz Cybersecurity

R&S®TRUSTED GATE – MAIL CONTROL

R&S®Trusted Gate – Mail Control secures mail attachments directly in Microsoft® Outlook. Attachments are extracted from the emails and replaced by links. The original files are stored encrypted and fragmented in a multi-layer storage system on-premises or in various clouds. Only authorized receivers can access the attachments by clicking the link.

► **Use the benefits of Microsoft® Outlook without losing data security and control.**

Easily prevent data loss via email attachments

Email is the most common business communication channel. It is widely used to share documents with colleagues and external partners. R&S®Trusted Gate – Mail Control helps to prevent data loss of confidential documents by replacing the email attachment with a link and securing the original attached way with encryption and fragmentation. Directly integrated into Outlook as an add-in, the security solution can be easily become part of the users daily workflow.

Product flyer
Version 01.00

ROHDE & SCHWARZ

Make ideas real

Ease of use

R&S®Trusted Gate – Mail Control is directly integrated into Outlook as an add-in. Before sending out the email the user can decide whether to protect the attachment via Mail Control or send it out without replacing the attachment by a link. If selecting the first option, the sender will receive the email without any attachments, but with links for every attachment to download them. In addition, the sender can select a special project room as a target for the originally attached documents. The sender can apply special access rights for these project rooms, for example he can mark all documents in a project room as read-only.

Friendly user-interface for receiver

Via the email link the receiver has to authorize himself with R&S®Trusted Gate credentials. All major Identity & Access Management (IAM) systems are supported or you use R&S®Trusted Gate own IAM. After login the receiver access the documents in a modern user interface. He can access all the files depending on the rights granted by the sender. The receiver can search for file names, keywords and full text in encrypted files directly from the R&S®Trusted Gate user interface. As soon as the receiver downloads a document the file is automatically decrypted, so the user can proceed with his workflow as usual.

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 – Mobile Access

Provides a high secure read only access with mobile devices to sensitive internal data. On mobile devices, only a HTML5 browser is required. Sensitive content will never be stored or further processed on the device itself. This service is a standalone solution.

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.

High security in for confidential data

R&S®Trusted Gate – Mail Control provides high security for the confidential email attachments. The attached files get encrypted, fragmented and then stored in a multi-layer storage system on-premises or in various clouds. Due to fragmentation 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 module (SDS). The SDS module enables file storage on different hardware and major cloud providers like Azure (Microsoft®), AWS (Amazon) or GCP (Google). Customers are able to choose inexpensive cloud storage providers even for massive amounts of data without limiting using email services like Exchange.

R&S®Trusted Gate enables implementation of corporate requirements for the protection of confidential data. In addition, companies are able to distribute chunks across multiple storage systems using the integrated RAID cloud module. That supports a multi-storage strategy for achieving resilience against scenarios like an internal IT security breach or a certain servers going offline.

Flexible and scalable deployment options

The software infrastructure of this solution is based on microservices with great flexibility of deployment. R&S®Trusted Gate can run its services in containers with an orchestration system like Kubernetes or can be deployed as a single server app. That provides a higher grade of control, scalability and elasticity. In hybrid environments, critical core services related to administration and key management can be deployed on-premises while CPU intensive operations like encryption service can be deployed in the cloud.

Confidentiality and integrity

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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