

R&S® Trusted Gate Solution for SharePoint Secure collaboration

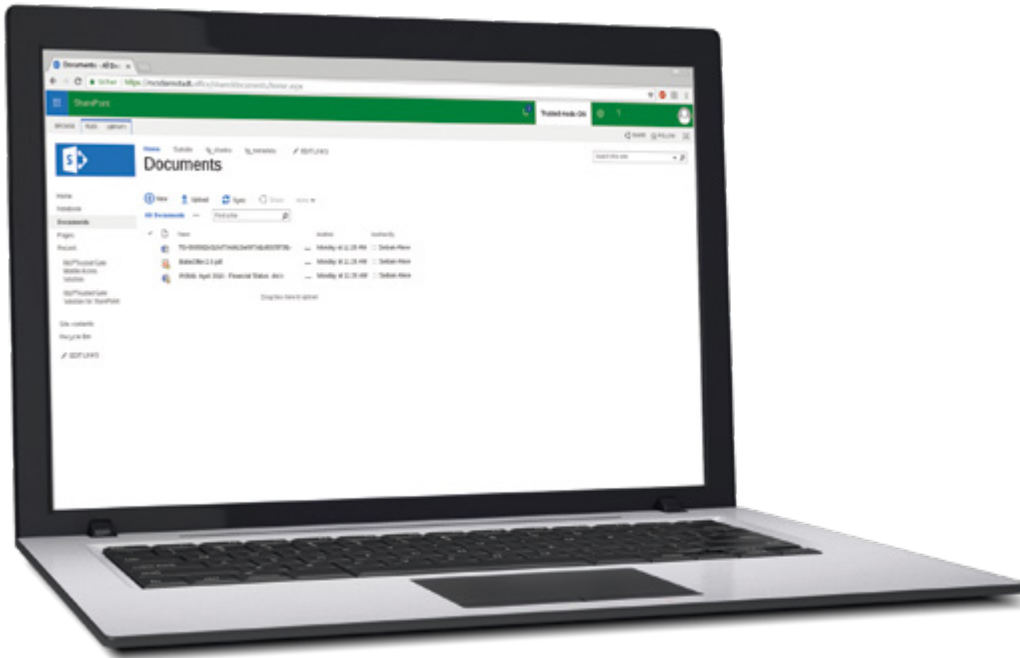
R&S® Trusted Gate Solution for SharePoint enables companies to encrypt documents in Microsoft® SharePoint™ and keep on using them in existing workflows.

Work transparently with encrypted files

Many companies use Microsoft® SharePoint™ as their collaboration platform. R&S® Trusted Gate Solution for SharePoint encrypts sensitive and confidential enterprise data, stores it into Microsoft® SharePoint™ and protects it from external and internal data theft and manipulation. Files are automatically encrypted during the upload to Microsoft® SharePoint™. If office documents have already been classified, encryption is done dynamically and automatically based on given classification marks. Individual access rights for users and groups can be defined for each file. Once they are downloaded, files get transparently decrypted. Users work in their known Microsoft® SharePoint™ environment, maintaining full performance and flexibility. The solution is compatible with most common file formats. Plus, security administrators can flexibly define access rights for users and groups.

Secure full-text search in encrypted documents

R&S® Trusted Gate Solution for SharePoint enables full-text search in encrypted documents thanks to a search engine which is being used to store data in an encrypted index. Using this index, even large amounts of documents and data can easily, transparently and securely be searched.

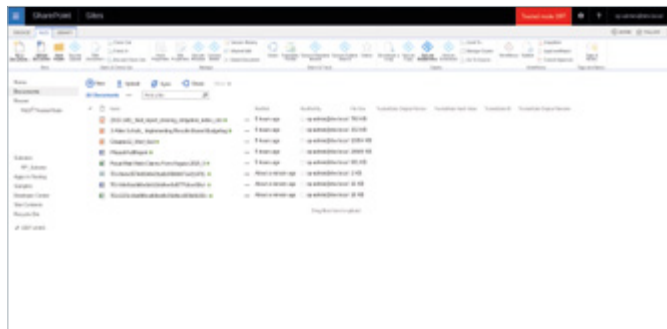


The innovation: Virtual-document technology

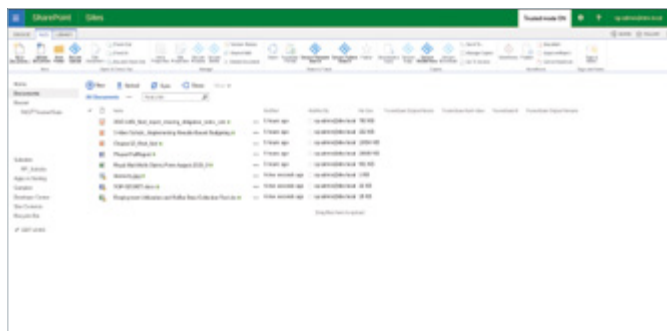
R&S® Trusted Gate Solution for SharePoint combines highest security standards with transparent and secure working within Microsoft® SharePoint™. Virtualizing documents, so called vDocs, have been developed for. During upload to Microsoft® SharePoint™, an unencrypted virtual copy for each confidential document, without sensible content, but still containing metadata like keywords or other classification data from the original document, is created. Microsoft® SharePoint™ and applications can work transparently with vDocs, without accessing the confidential content. This allows authorized users to keep on working with confidential files.

Secure, distributed cloud storage

The original file is encrypted and fragmented in chunks, which can be stored in configurable memory locations, even outside of Microsoft® SharePoint™. Due to fragmentation, confidential data cannot be compromised even by complex attacks. Chunks of encrypted files are stored via a configurable software-defined storage module (SDS). The SDS module enables file storage on different hardware and cloud providers. Customers are able to define inexpensive cloud environments even for massive amounts of data without limiting collaboration. Meanwhile, they comply with data protection laws that require certain data to be stored in specific jurisdictions. For example, vFiles can be stored in a cloud in different countries while chunks are stored on local servers or domestic cloud providers. Furthermore, companies are able distribute chunk across multiple storage systems through a RAID cloud module. Supported RAID levels are RAID0, RAID1 and RAID10.



Document view in Microsoft® SharePoint™ without authorization



Document view in Microsoft® SharePoint™ with authorization

Confidentiality and integrity

Documents are encrypted 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.

Simple administration and scalability

R&S® Trusted Gate Solution for SharePoint allows companies to administrate and control access to files stored in Microsoft® SharePoint™. The solution can be integrated in a completely transparent way for the user via reverse proxy server. Alternatively, R&S® Trusted Gate Solution for SharePoint can be integrated via a standard add-in, which allows the user to decide freely whether files are uploaded encrypted. Only customers can access the security keys. The solution can be started in multiple instances and is highly scalable. Virtualized cluster environments, standard load balancers and enterprise infrastructures are being supported.

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R&S® Trusted Gate Solution for SharePoint

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