

R&S®Trusted Disk

Secure and transparent hard disk encryption

The complete solution for real-time generation of keys and certificates without limiting workplace productivity.

Today's hard discs have huge storage capacities that make it possible to store a large amount of sensitive data locally. Notebooks and portable storage devices, such as USB flash drives and portable hard disks, can easily be stolen or left behind. In order to prevent sensitive data from falling into the wrong hands, storage devices have to be encrypted using a safe and efficient method: comprehensive full-disk encryption.

R&S®Trusted Disk was developed based on current BSI (German Federal Office for Information Security) standards. This includes up-to-date random number generation and flexible re-keying according to time and amount of data for continuous maintenance of the high level of security.



Efficient hard disk encryption

In addition to the data, R&S®Trusted Disk encrypts the complete operating system, including temporary files. R&S®Trusted Disk uses a transparent real-time encryption method to ensure full, hassle-free productivity on all computers. When users turn on a computer, their identity will be confirmed in a pre-boot authentication procedure based on a hardware token and a PIN. If the users' identity cannot be confirmed, they cannot access the computer.

Encryption of portable storage devices

The same authentication principle is also applied when accessing portable encrypted storage devices such as USB flash drives and external hard disks. Such devices have a greater risk of being unintentionally left behind. Since portable storage devices often contain sensitive data for fast sharing, it is essential to protect the mobile data in a way that allows multiple users to access the data. R&S®Trusted Disk ensures simple and secure use of portable encrypted storage devices even in mixed operating system environments.

Available in single-user and enterprise versions

R&S®Trusted Disk is easy to install and used on single workstations as well as in corporate networks with mixed environments (Windows 7, 8 and 10). Both versions require authentication using a hardware token and different user rights are easy to configure and modify. The multiuser capability allows multiple users and groups to access encrypted storage devices simultaneously. If necessary, a network-wide administrator can be designated who is able to decode the encrypted data in emergencies.

In addition, the R&S®Trusted Disk enterprise version offers central management of user groups and roles, which can be configured based on custom security profiles. The central recovery function allows users to reset their PIN remotely in case of loss while maintaining security.

Security features

- Comprehensive central management and user authentication using smart card
- Encryption using the AES-XTS-512 algorithm and the SHA-2 512 HASH algorithm
- Fulfillment of compliance requirements based on audit logs in case of authorization changes
- Approved for handling RESTRICTED (BSI), EU RESTRICTED und NATO RESTRICTED classified information
- Supports UEFI Secure Boot

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