

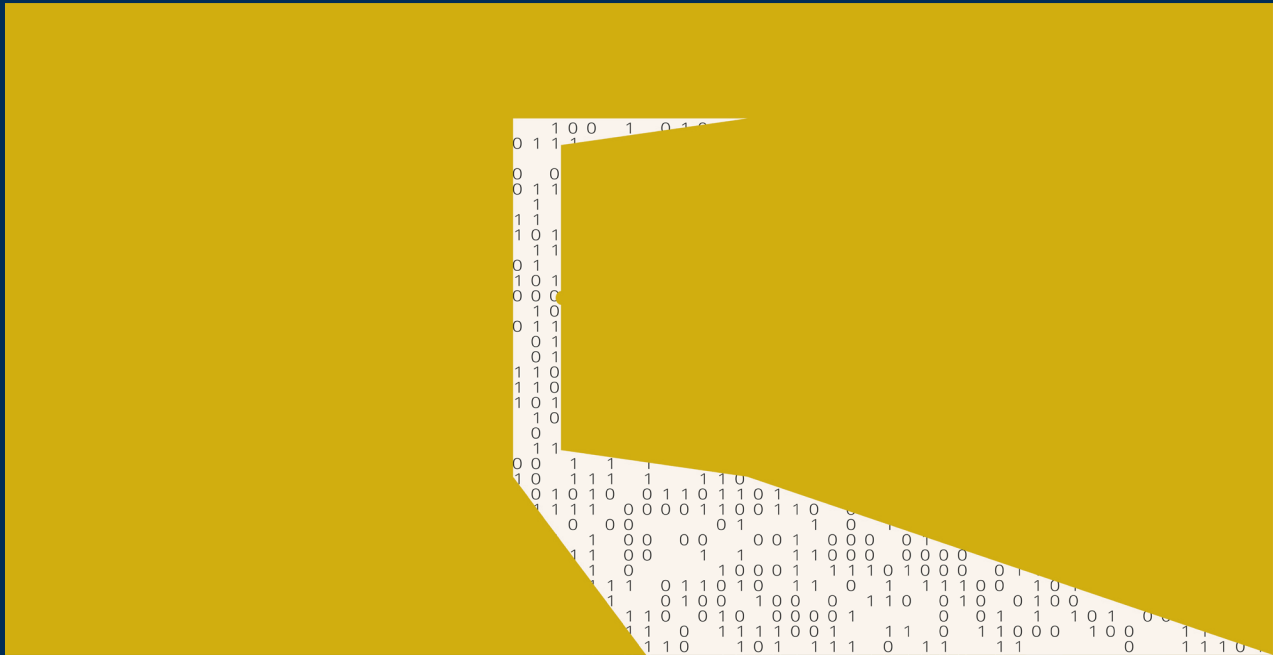
# SEP SECURITY – Security makes the difference

SEP SECURITY - SEP puts security first and covers various security aspects that other providers cannot offer, as SEP develops the software in Germany/Europe and provides service and support from Germany.



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## Backdoors risk

Backdoors are backdoors that are built into software and make it possible to gain access by bypassing the security mechanisms of the software (and also hardware). With these backdoors, data can be viewed and/or changed. US products are particularly affected by this, because the US secret service NSA instructs US manufacturers to build backdoors into their products through certain regulations such as the Patriot Act. China allegedly also uses them, which shows that any security hole can be used by anyone - including hackers - and can cause far-reaching security problems. (Source: Golem.de, „Wer China sagt, muss auch USA sagen“, 4th of December 2020, <https://www.golem.de/news/juniper-backdoors-wer-china-sagt-muss-auch-usa-sagen-2012-152593.html> ). The NSA declined to confirm how its policies regarding special access to commercial products had changed. „It is standard practice at NSA to constantly evaluate processes to identify and determine best practices;“ said Anne Neuberger, Head of NSA Cybersecurity Directorate. In addition, the governments of the UK, US, Australia, Canada, New Zealand, India and Japan have signed a statement calling on technology companies to provide a backdoor for encrypted services. (Source: [Independent](#), „US SECURITY AGENCY DOES NOT DENY STILL USING SECRET BACKDOORS IN TECH

## No Backdoors with SEP!



As a European/German manufacturer, SEP guarantees freedom from backdoors and data protection compliance. There are no secret backdoors for secret services and therefore no security holes that could also be used by others.

## No-Spy clause of the BMI



– the Federal Government Commissioner for Information Technology in coordination with the IT association Bitkom, i.e. „...that the standard software\* to be supplied by it is free of functions that endanger the integrity, confidentiality and availability of the standard software\*, other software and/or hardware or data and run counter to the confidentiality or security interests of the customer through

- Functions for the undesired discontinuation/derivation of data,
- Functions for undesired modification/manipulation of data or flow logic, or
- Functions for the undesired initiation of data or undesired function extensions.“ (Clause 2.3 of the EVB-IT Überlassung Typ A-AGB; Supplementary Terms of Contract for the Procurement of IT Services (EVB-IT); Special Terms of Contract for the Procurement of IT Systems and Equipment (BVB) )

**SEP complies with the no-spy clause!**

## BSI conformity (Federal Office for Information Security):



„The aim of the BSI technical guidelines (BSI-TR) is to spread appropriate IT security standards. Technical guidelines are therefore generally aimed at anyone involved in setting up or securing IT systems. They supplement the BSI’s technical test regulations and provide criteria and methods for conformity tests of both the interoperability of IT security components and the implemented IT security requirements...” ([Source: BSI, Technical guidelines](#))

Encryption is one of the central technical elements. For example, encryption is possible with the highly efficient and patented Si3 deduplication and replication. Secure data retention is introduced by the encryption of the SEP Si3 DedupStore. After splitting the data stream into blocks and compressing each block, each individual block can be encrypted by a key that has to be defined job-specific.

To restore the data, the key can be stored in the database of the backup server or the data owner must authorise a restore with his personal key. This encryption guarantees BSI conformity.

## GDPR and Compliance requirements:



the hybrid backup solution SEP sesam offers the technical security for implementing the GDPR with a variety of technical mechanisms ([see „EU General Data Protection Regulation, EU NIS Directive & IT Security Act“, lawyer and IT law specialist Dr. Jens Bücking, p. 11 ff](#))

## Data and log files remain in the EU/Germany:

SEP develops the solution and provides support from Germany. In the event of support, data and log files do not end up outside of Germany and also the viewing of data, e.g. during TeamViewer sessions by SEP support, remains completely in Germany, so that compliance and GDPR requirements are also maintained here. SEP also works with German and European MSP partners so that no problems arise here due to the discontinued Privacy Shield agreement, i.e. the data does not end up in the USA or other non-European countries. This is because even when commissioning an MSP, the client is responsible for ensuring that the data retention guidelines (GDPR, etc.) are adhered to and the responsibility cannot be passed on to the MSP.



## SEP SECURITY key elements:

- Encryption of backups on backup media (tape, DataStore, Si3 DedupStore).
- Encryption of the data stream
- Encryption of communication
- External password for backup according to the 4-eyes principle
- Efficient disaster recovery for Windows and Linux
- Media disruption: support of offline and WORM media
- Manufacturer-compliant data backup and recovery
- Data can be backed up at different levels (e.g. at hypervisor and application level)
- Cross-location data backup
- Automatic migration or copying of backup data to different backup media
- Full support of open source operating systems on backup client and backup server side
- Legally compliant backup of all company data
- Ensures network security in firewall environments by restricting communication and data transport to a few dedicated ports
- Scheduled and automatic restore to stand-by systems to verify backups (can also be used for audits and can be documented)
- Disaster recovery tests during operation including reporting in physical environments (prerequisite is a test target server) and in virtual environments
- Free from spyware

## „Software Made in Germany“ Seal of quality from the German Association of IT SMEs (Bundesverband IT-Mittelstand - BITMi e.V.):

„Made in Germany“ – three words that are internationally synonymous with the highest quality and enthusiastic customers. The reasons for this? Well thought-out design, tried-and-tested solutions, mature production processes, constant, inspiring innovations, competent customer service, to name just a few. SEP sesam Hybrid Backup/Disaster Recovery solutions offer this and protect cross-platform, heterogeneous IT environments on-premise & in the cloud, from physical to virtual environments, operating systems, databases & applications - up to the entire SAP Solution Stack.



[read more](#)

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## 1. Try the 30-days full version now!

The SEP sesam 30-day full version includes all functions for optimal data backup & recovery, as well as personal demo support.

## 2.



## SEP sesam Support Matrix

SEP sesam supports a large portfolio of operating systems, databases, virtualization platforms, applications and hardware snapshots.

## 3.

