Fabasoft®

Software Product Information

Fabasoft Secomo 2026 October Release

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1 Introduction

Fabasoft Secomo enables highly secure encryption for sensitive documents stored in the Fabasphere.

The end-to-end encryption system has been developed in close cooperation with the Institute of Applied Information Processing and Communications (IAIK) at Graz University of Technology. As an ideal supplement to the Fabasphere, sensitive documents are encrypted already on the device prior to the transfer to the server in order to protect them from unwanted access.

The key material is stored in a directory service and protected by hardware security modules (HSM) that control access to the secret key material and erases itself in case of an unauthorized physical access.



With Fabasoft Secomo organizations can exchange encrypted documents that are stored in Fabasphere and collaborate even more securely. Fabasoft Secomo is available as an appliance and as a service in the Fabasphere in the "Public Cloud" operating model.

Fabasoft Secomo Appliance

The Fabasoft Secomo appliance consists of the Fabasoft Secomo software and two highly available servers (nodes). The nodes are equipped with hardware security modules. The keys to the data remain exclusively in the company. By installing the nodes in separate fire zones, the operation is ensured by the second node if one node fails.

Fabasoft Secomo as a Service

In the Fabasphere in the "Public Cloud" operating model you can use Fabasoft Secomo appliances operated by Fabasoft for encryption.

Technical Data

- Self-encrypting disks (SED, FIPS 140-2 Level 2)
- Two servers per 1U rack mount
- Two power supply units C13/14 per server
- Hardware security module (HSM): compliant with the requirements of FIPS 140-2 level 3, physical security level 4 certification
- Application of the CMS standard for signed and encrypted data
- Signature (hash algorithm SHA-512 bit; RSA 4096 bit – PKCS #1 v1.5)
- Encryption (symmetric AES-256 bit, asymmetric RSA 4096 bit - PKCS #1 v1.5)

2 Scope of Services "User's Perspective"

Fabasoft Secomo extends the Fabasphere with following functionality:

- Collaboration of organizations with Fabasoft Secomo systems
- Encrypting and decrypting Teamrooms
- Reading and editing encrypted documents
- Uploading documents encrypted
- Downloading documents decrypted
- Synchronization exclusively on encrypted file systems
- Mobile access to encrypted documents with the Fabasphere App (iOS and Android)
- Downloading audit logs by organization administrators
- Storing keys for the secure attachment of a digital signature

Fabasoft Secomo supports client certificates for authentication. Each operation is authorized by a token signed by the Fabasphere.

3 Scope of Services "Operations"

The Fabasoft Secomo appliance allows easy operation and supports following use cases via an own management user interface.

Use Case	Description
Perform an installation	During installation the following basic settings are defined: • Administrator credentials • Infrastructure (e.g. DNS, e-mail server, time server, URL to the Fabasphere) • Display and domain name (FQDN) for Fabasoft Secomo • Root certificates for validating the client certificates • Passwords and keys for the HSM • Passwords and keys for restoring an HSM backup • HSM and configuration backup (location) • Database backup (location and interval) If a Fabasoft Secomo node has been already installed, additional Fabasoft Secomo nodes can be installed by using a backup.
Monitor the system	Fabasoft app.telemetry allows monitoring the performance and availability of Fabasoft Secomo from

	a user's point of view, as well as monitoring the individual system components. The most important data is displayed in the management dashboard.
Use the maintenance mode	The Fabasoft Secomo services can be stopped and started in an ordered way.
Manage the HTTPS certificate	Access to Fabasoft Secomo is only possible via HTTPS. For issuing a corresponding HTTPS certificate a "Certificate Signing Request" (CSR) can be generated.
Update the license	Licenses can be updated.
Perform a backup and restore	Fabasoft Secomo can be backed up and restored manually.
Manage audit logs	The audit logs of the HSM can be downloaded.
Edit settings	The settings made during the installation can be modified if necessary.
System update	Software updates that are provided online for Fabasoft Secomo can be installed.

4 Conditions of Use

- Fabasoft Secomo supports end-to-end encryption. Accordingly, the Fabasoft Secomo appliance must be directly accessible from the workstation of all users.
- Fabasoft Secomo is updated with improvements and bug fixes from the online repository `https://repo.cloud.fabasoft.com`. Accordingly, this repository must be accessible. Updates provided must be installed promptly to ensure secure operation and correct functioning with new software versions of the Fabasphere.
- When using the Fabasoft Secomo appliance, the customer is responsible for the secure backup. Encrypted data cannot be restored without a backup containing key material, among other things. Fabasoft cannot provide any assistance if the backup is lost; the encrypted data is lost.
- When the Fabasoft Secomo appliance is installed and operated, protected key files are generated and passwords are assigned that are required for various operations with the Secomo appliance and the hardware security module (HSM). These key files and passwords are to be stored independently of the backup and are necessary for using the backup. Fabasoft cannot provide any assistance if the key files or passwords are lost; the encrypted data is lost.

- All statements contained in this software product information concerning the intended use and conditions of operation of the program are understood as information only on principle. To ensure and guarantee the intended use and conditions of operation in everyday use of the program, expert training by specially qualified staff is recommended in any case.
- This program is intended for customary commercial use. This does not include usage that demands special requirements (like controlling of vehicles, machines and facilities, real-time applications).

5 Supported Platforms

Fabasoft Secomo can be used on clients with Microsoft Windows, Apple macOS or Ubuntu. Access to encrypted documents is also possible in the Fabasphere App (iOS and Android).

The client reference platforms can be found in the "Technical Information" document of the Fabasphere.

6 Open Source Licenses

The open source software contained in Fabasoft Secomo or used for its operation is licensed under conditions that require to display the following notes.

The corresponding copyright annotations and terms of license can be found here: Open Source Licenses

- AlmaLinux (https://almalinux.org)
- Apache Commons DBCP (https://commons.apache.org/proper/commons-dbcp/)
- Apache Commons IO (https://commons.apache.org/proper/commons-io/)
- Apache Tomcat (http://tomcat.apache.org/)
- Berkeley DB (http://www.oracle.com/database/berkeley-db/)
- CINC (https://cinc.sh)
- cURL (https://curl.haxx.se/libcurl/)
- General data-binding package for Jackson (https://github.com/FasterXML/jackson-databind)
- Google core libraries for Java (https://github.com/google/guava)
- jose.4.j (https://bitbucket.org/b_c/jose4j/wiki/Home)
- JSON Schema Validator (https://github.com/java-json-tools/json-schema-validator)
- Logback (https://logback.qos.ch/)
- NGINX (https://nginx.org)
- OkHttp (https://square.github.io/okhttp/)
- OpenJDK (https://openjdk.java.net/)
- OpenLDAP (https://www.openldap.org)

- OpenSSL (https://www.openssl.org/)
- PostgreSQL (https://www.postgresql.org/)
- pydaemon (https://pypi.org/project/pydaemon/)
- Simple Logging Facade for Java (https://www.slf4j.org/)
- Spring Framework (https://spring.io/)

Note: Fabasoft app.telemetry is additionally installed. The open source software used by Fabasoft app.telemetry can be found in the corresponding readme document (https://www.fabasoft.com/en/support/downloads).