

Product Overview: totemomail® *PushedPDF*

To date, S/MIME, OpenPGP and SMTP over TLS are the most common technologies for email encryption. However, they are based on the use of certificates and keys. Although every current email client supports S/MIME encryption, relevant know-how or plug-ins is required to use it productively. That is why FIPS 140-2-validated totemomail® Encryption Gateway offers alternative email delivery channels such as totemomail® WebMail or totemomail® *PushedPDF* that are both user-friendly and secure.

With both encryption methods, any given communication partner can be comfortably and effortlessly reached – even if he does not use an encryption technology of his own. totemomail® *PushedPDF* is the best bet for companies preferring a push solution as the encrypted email is sent directly to the recipient's mailbox.

Strong encryption capabilities and digital signatures protect messages from phishing and brute force attacks. Moreover, Basic Rights Management functions warrant complete control of the totemomail® *PushedPDF* messages even after delivery. Multi-factor authentication combined with a secure reply option offers maximum security for communication with partners outside the company network.

How It Works

After the confidential message, including any and all attachments, is sent by totemomail® Encryption Gateway, it is converted to a PDF file, encrypted and sent to the external recipient as an attachment in an email. If the recipient is not yet registered, totemomail® Encryption Gateway sends him a notification with a link while retaining the *PushedPDF* message. Only after successful authentication via the link is the *PushedPDF* message delivered to the recipient.

The recipient can reply to a totemomail® *PushedPDF* message using a WebMail portal which he can access by clicking a reply button in his email and entering his password. This portal allows adding attachments as well as sending a copy of the reply to the original sender's own email address as a totemomail® *PushedPDF* message. The original sender comfortably and securely receives the reply in his email client.

Key Facts

Only Requirement: Free PDF Reader

The only prerequisite for opening a totemomail® *PushedPDF* message on a desktop is a PDF reader such as Adobe Acrobat Reader. Most PDF readers are available for free and for most platforms (e.g. iOS, Windows, BlackBerry®, etc.) as the format has become a de facto standard for document exchange over the internet. Users of smartphones and tablets based on Android, iOS, BlackBerry or Windows Phone can download the free app totemomobile® *PushedPDF* Reader in the respective App Store.

Strong Encryption Capabilities

In most common PDF encryption solutions, encryption strength needs to be limited to ensure compatibility with all readers. This limitation does not apply to totemomail® *PushedPDF* since it does not depend on the encryption capabilities of PDF readers. It therefore allows the strongest algorithms and key lengths for complete message security.

Encrypted Messages Remain Available Offline

If the sender permits it, the recipient can store the encrypted PDF document locally and read it offline. To manage his totemomail® *PushedPDF* messages the recipient can use his email client or his preferred filing system. If forwarded, such PDFs remain encrypted to ensure the continuous protection of sensitive information.

Complete Control through Basic Rights Management

With additional email control functions such as a delivery confirmation, an expiry date for emails as well as the possibility to revoke messages even after delivery, the sender keeps complete control over his sent emails. Users are thus able to track, block or revoke their messages. Expiry dates and rights can be managed in the totemomail® Encryption Gateway web portal for internal users.

Notification Content Freely Configurable

With the Notification Manager, the content of notifications can be defined and the look & feel adapted to the company's corporate design. To do so, a graphic tool is at the administrator's disposal in the totemomail® Encryption Gateway administration console.

Benefits

Organizational benefits

- Secure communication with external partners without an encryption technology of their own

- Secure and flexible communication with external partners regardless of where they are or what device they use
- Push functionality passes the emails directly on to the external communication partner without locally storing them on the **totemo mail**® Encryption Gateway server
- Basic Rights Management optionally offers control functionalities such as delivery confirmation, expiry dates for messages as well as email revocation even after transmission
- Protection from brute force and phishing attacks through limited number of authentication attempts and digital signatures

Administration benefits

- No installation of plugins or client software required

- No user training necessary

User benefits

- Offline access to messages for employees working on the go
- Offline management of emails for recipient
- Complete control over sent messages due to Basic Rights Management

Architecture

totemo mail® *PushedPDF* is part of **totemo mail**® Encryption Gateway. This secure messaging solution supports tested standards and therefore easily integrates with any existing IT infrastructure.

