Google Android

Prerequisites

- Correct setup of an email app for Android (see below).
- Correct integration of the certification authorities into the operating system
- **Valid digital user certificate** integrated into the operating system.

Since the standard integrated e-mail app in Google Android does not support the S/MIME method, e-mail security cannot be increased by signing or encrypting with this app.

Other S/MIME-capable e-mail apps do not support all connection protocols of the e-mail system. A limited use is possible with the app FairEmail, which supports the S/MIME procedure in the **Pro version**, but can only access the email system of Jade University via IMAP.

- FairEmail in the F-Droid Appstore
- FairEmail in the Google Playstore

Configuration

The first step is to set up the FairEmail email app as an email client:

- Main Settings tab → Manual Setup and Account Options.
- Accounts (receive e-mail IMAP POP3) → Add (+ button) → IMAP
- Provider → User defined
    - IMAP Hostname: mail.jade-hs.de
    - Encryption: STARTTLS
    - Port number: 143
    - Username: domain login (form: ma1150@hs-woe.de)
    - Password: <your password>
    - Account name: <your email address>.
- Tap the “Verify” button.
- Add associated identity (SMTP server): enabled.
- Tap the “Save” button.
    - Associated account: <your email address> (should already be preset here).
    - Your name: <first name last name>
    - Your email address: <your email address>
    - Domain name: please empty the field
    - SMTP hostname: mail.jade-hs.de
    - Encryption: STARTTLS
    - Port number: 587
    - Username: domain login (form: ma1150@hs-woe.de)
    - Password: <your password>
    - Account name: <your email address>.
- Tap on the button “Save”.

Close the settings and check that the email app is working properly.

The second step is then to increase the email security by signing / encrypting. To unlock these functions, you must purchase the Pro version (Menu → Pro Functions).

- Settings → Card Encryption
- General
    - Sign by default: activated
- PGP
    - Use Autocrypt: deactivated

Close the settings, this completes the configuration.

Use

Sign

- In the FairEmail App, click on the pencil icon for a new email and compose it.
- Tap on “Sign”, the “Send” dialogue opens.
    - Under Encryption, select “S/MIME sign only”.
    - Tap on “Send”, the e-mail is digitally signed and then sent.
- The communication partner sees the loop symbol as a sign of a digitally signed e-mail.

Encrypt

To encrypt an e-mail, you must first have the communication partner's public key. To do this, have your communication partner send you a digitally signed e-mail, for example, which is automatically added to your key ring.

- Click on the pencil icon for a new email in the FairEmail app and compose it.
- Tap on “Sign”, the “Send” dialogue opens.
    - Under Encryption, select “S/MIME sign + encrypt”.
    - Tap on “Send”, the e-mail is digitally signed, encrypted and then sent.
- The communication partner will see the lock symbol as a sign of an encrypted e-mail.

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