

# Opportunistic Encryption of Email and Messaging

**dispatch @ IETF-101, Mar 20 2018**

draft-birk-pep-01

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Privacy by Default.

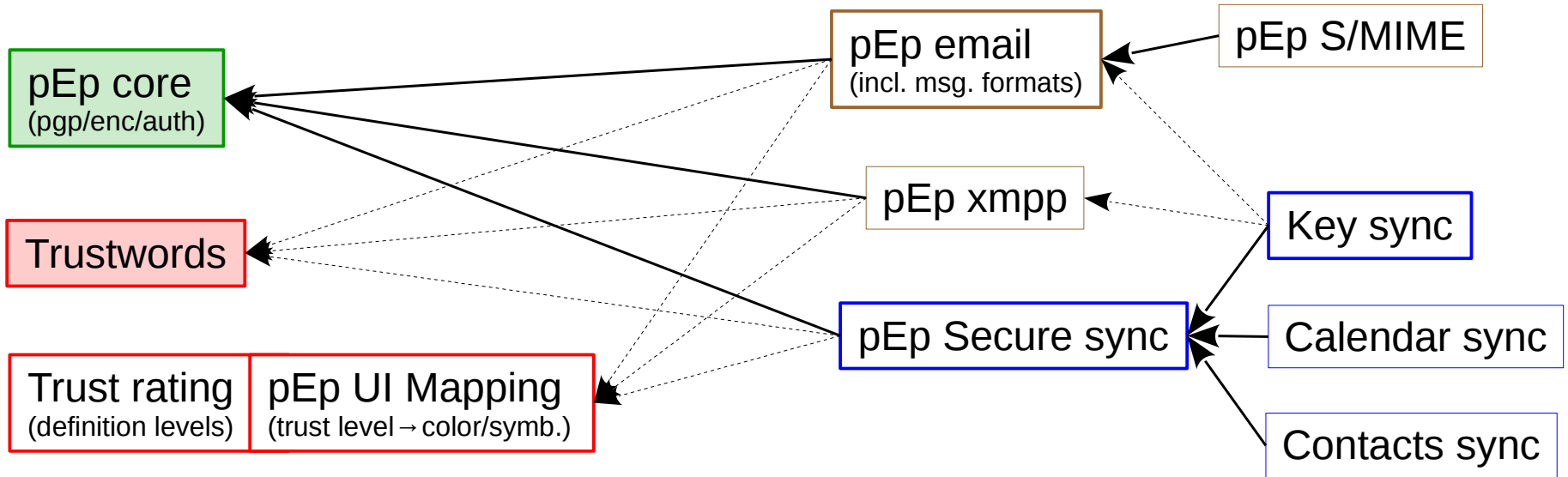
# Privacy by Default

- We aim to make all communication (i.e. email, chat, ...) **private by default**
- “Good” tools for privacy already exist (e.g. PGP/OpenPGP)
- **However:**
  - Most users are unable to use existing encryption tools like GnuPG (properly)
- Need to fix this usability challenge by automation
- Not just “good”, but **easy** privacy

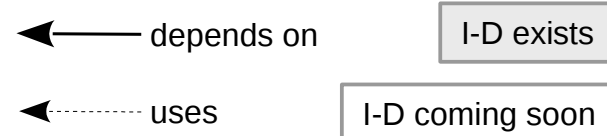
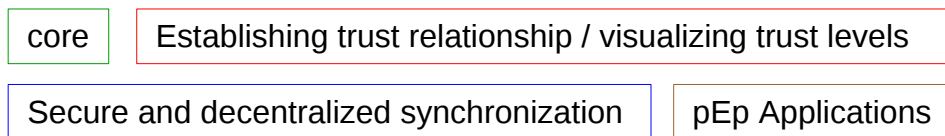
# pEp – pretty Easy Privacy

- The pEp architecture consists of several building blocks
- Existing RFCs and Standards are used whenever available (and usable)
- Some pieces are currently missing (or incomplete)
- We intend to document the missing pieces as RFCs

# pEp I-Ds Dependency Graph



## Legend:



# Where can IETF help?

- MIME based message formats  
(message in message encapsulation)
- Public/Private Key Synchronization  
(between different User's devices)
- Base protocol mapping for email, Jabber, ...
- URI schemes for missing message addressing
- IANA registry to support trust establishment
- and more...

# Demonstration of pEp

- Wanna know more about how this works?
- Short demonstration of the running code:
  - **Wed 21.03.2018 / 10:30-11:30**
  - Meeting room **Waterloo**

# Questions / Discussion