

8 / 56



16 / 56



23 / 56

24 / 56



- Can handle missing a message, however
 - cannot handle out of order messages
 - storing old keys would compromise FS



Option 1:

- Users can see the used public key fingerprints
- Verify these out-of-band

OTR: key authentication

Option 2:

 Users are assumed to share some secret that Mallory doesn't know

i' = i' + 1

store $g^{x_{i+1}}$

generate random $y_{j'+1}$

if j == j': j' = j' + 1

- \blacktriangleright Hashes used public keys and the secret together
- \blacktriangleright Compare if they are the same using a zero-knowledge protocol
- ► this all happens in-band!

Usability studies show issues with both

31 / 56

29 / 56

ŝ

Ň

26 / 56

ŝ

28 / 56

Ň





