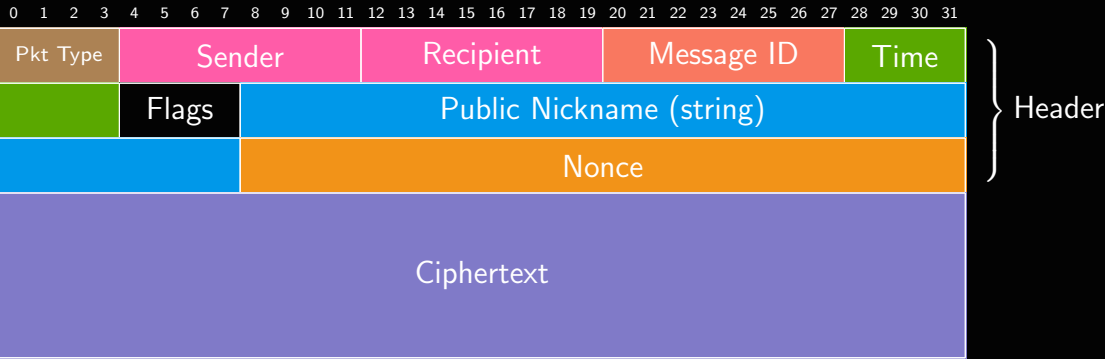


Message Packet (Threema Protocol Layer)



- Only the MSB of *Flags* is used

Message Packet on the Wire



Text Message

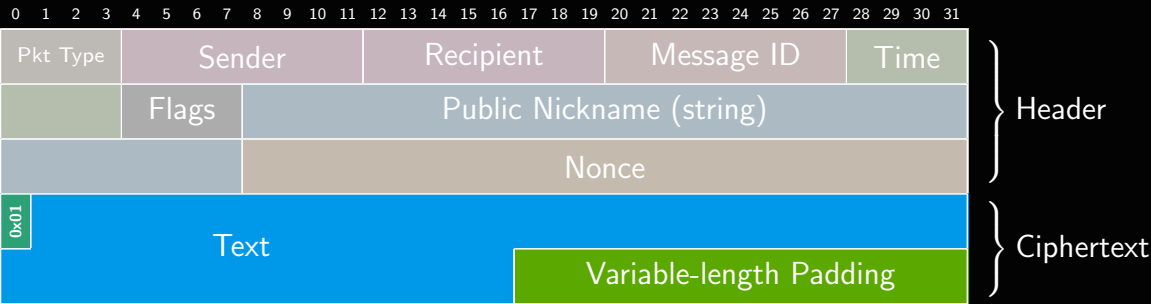
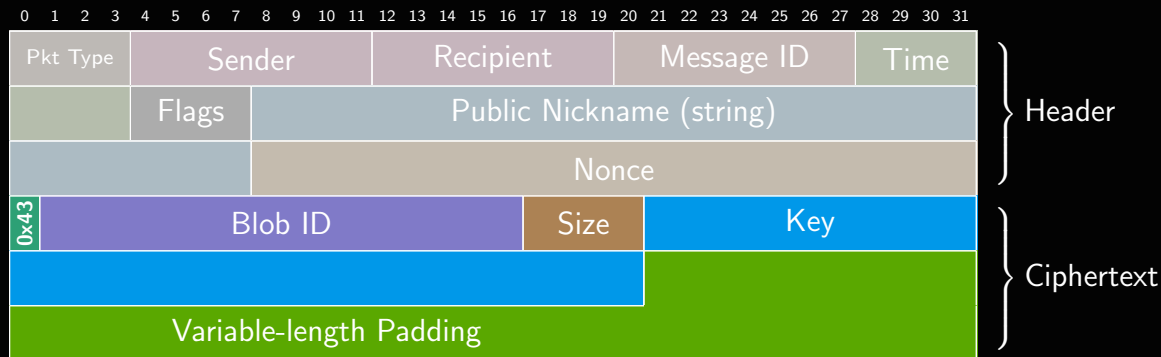
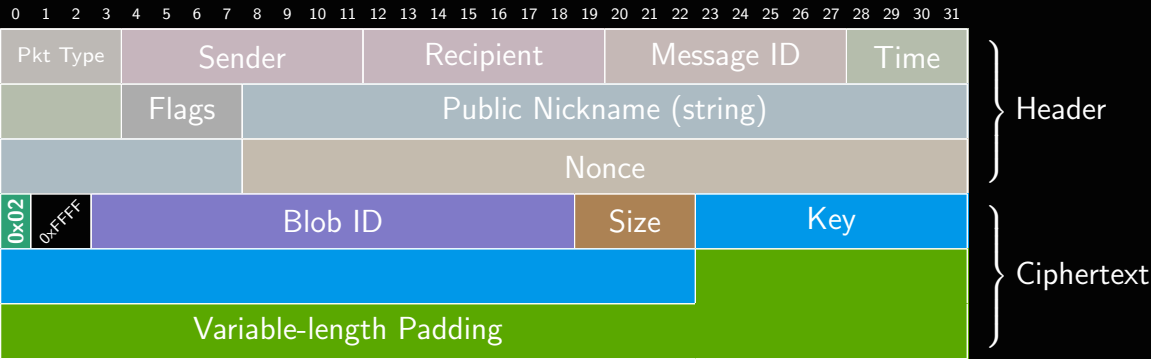


Image Message



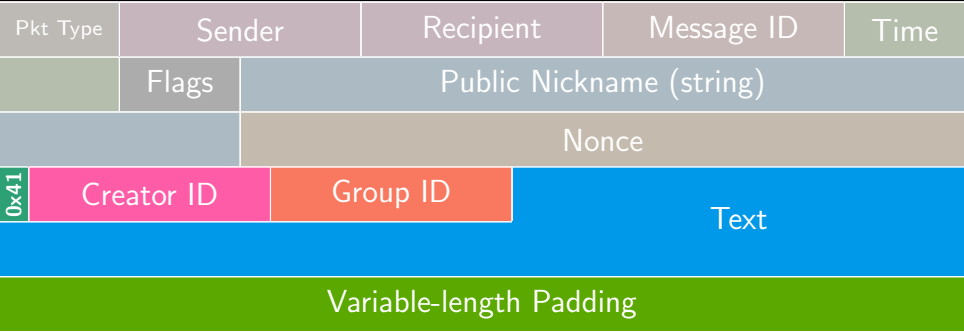
- Blob is symmetrically encrypted using *Key* and uploaded to asset server.
- Image captions are stored inside the image's EXIF data. These data leak upon creating such an image while the "save media to gallery" option is enabled.

Audio Message



Group Message Packet

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

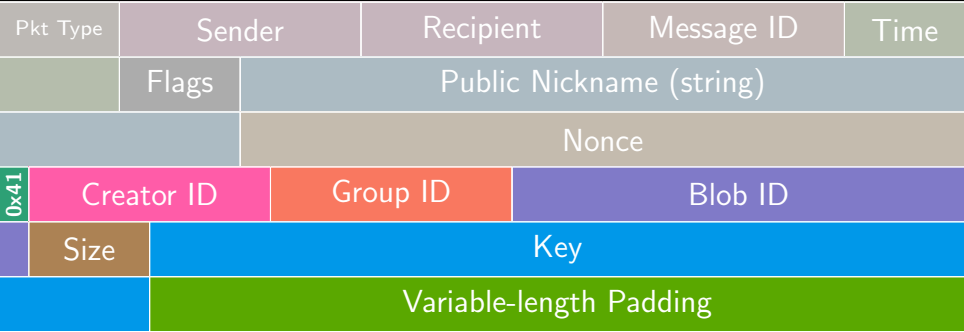


Message Header

Ciphertext

Group Image Message

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

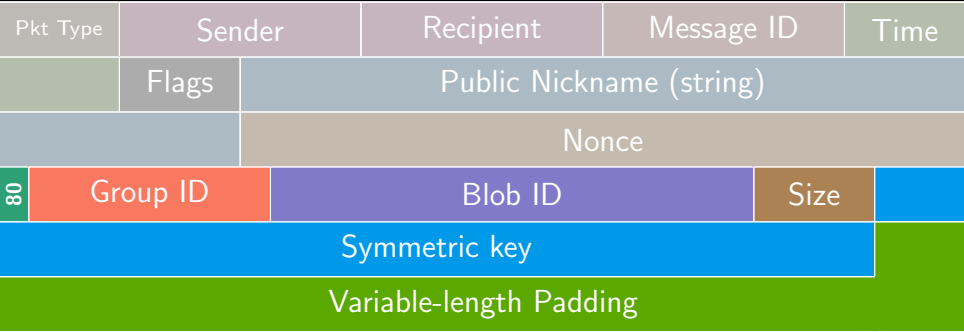


Message Header

Ciphertext

Group Picture Update

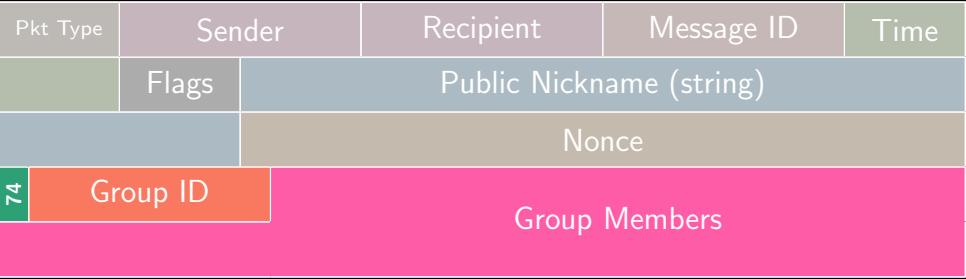
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



} Message Header

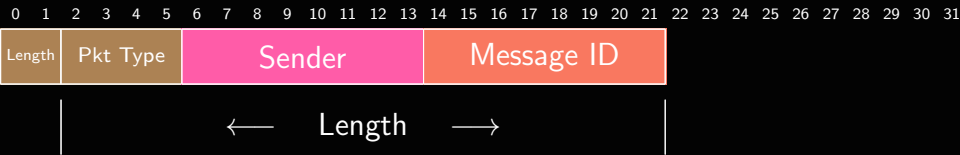
Create/Update Group (members)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



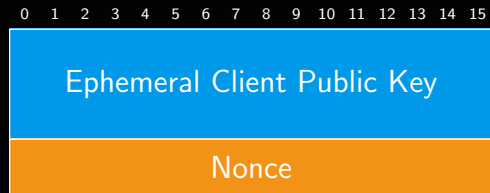
} Message Header

Acknowledgement Packet to Server

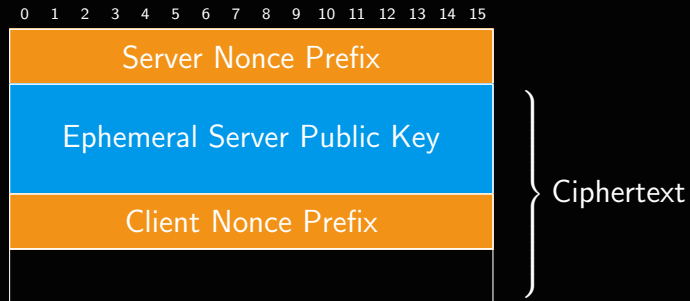


Client-Server Handshake

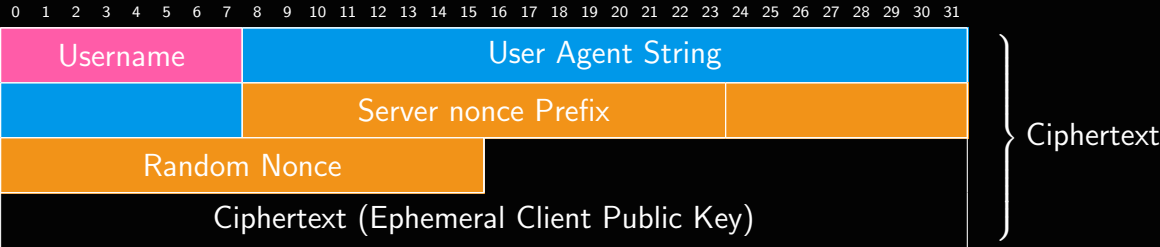
Client Hello



Server Hello



Client Authentication Packet



Server Acknowledgement

