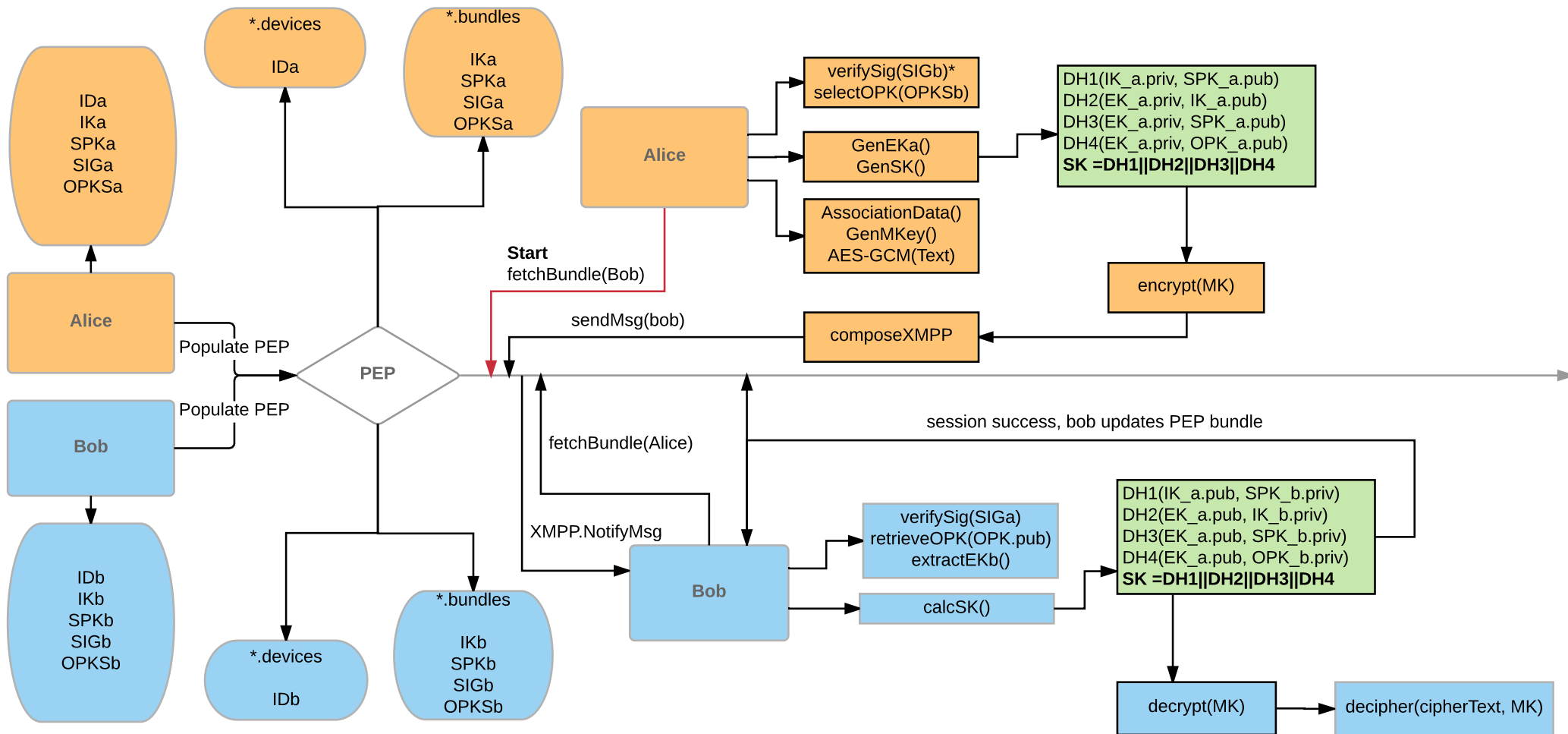


LIBSIG-OMEMO PROTOCOL FLOW - SINGLE MESSAGE

Bassel Khatib | September 23, 2017



GCM:

AD = Encode(IKA) || Encode(IKb)

nonce = IV

cipher:

decipher:

next keys:

Message structure:

<https://www.npmjs.com/package/node-aes-256-gcm>

<https://tools.ietf.org/html/rfc5288>

PreKeySignalMessage: Session establishment

SignalMessage: message sent after session

KeyTransportElement: file transfer

implementation note: preKey.pub used as key for

preKey.priv in the stored bundle. XEP does not

specify "key ids", unlike CC's impl.

Implementation question: do we send the message to

all devices? our example deals with one device.