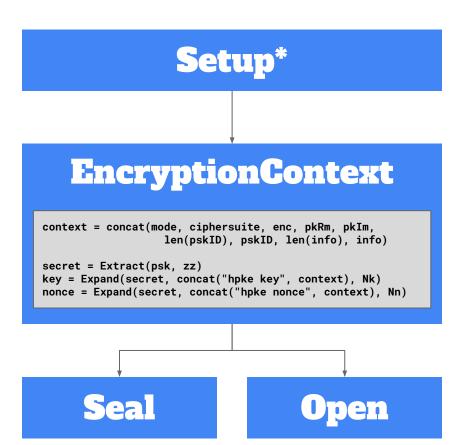
draft-irtf-cfrg-hpke-00

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Changes in this version



SetupBase X X
SetupPSK V X
SetupAuth X
SetupPSKAuth

Running Code

Go implementation by Richard Barnes

- ◆ All ciphersuites plus SIKE (thanks Nick!) +154 -22
- https://github.com/bifurcation/hpke

Python implementation by Dave Cridland

- Follows document pseudocode very closely
- https://github.com/dwd/crypto-examples/

TODO: Interop, test vectors, verified implementation(s), ...

Limitations and Non-Goals

Forward Secrecy: None

Meant as a primitive to be used in other protocols

Key Compromise Impersonation (KCI) Resistance: None

Not possible with a "one round" KEM-based protocol

Post-Quantum Ciphersuites: Not Right Now

- Selections still ongoing
- Feasibility validated in code

Questions

Too Much?

Should we keep all four modes? (Base, PSK, Auth, PSKAuth)

Are folks OK with unified logic => optional / default inputs?



Combined **A**symmetric / **S**ymmetric **H**ybrid **E**ncryption **W**rapping

Analysis

[[Your name here]]