Privacy Pass Metadata

https://github.com/ietf-wg-privacypass/base-drafts/issues/63

Metadata properties

Both client (C) and server (S) may have public and private metadata

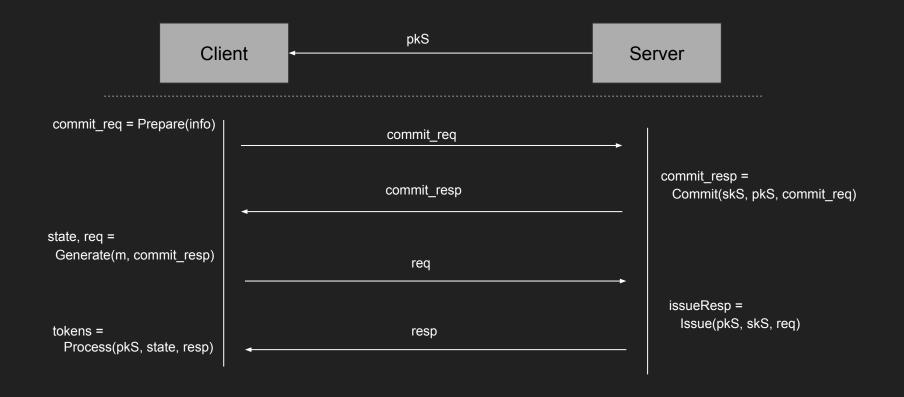
Underlying constructions exist with differing metadata support

- VOPRF protocol does not permit any public metadata
- PMBToken protocol permits a single server private metadata bit
- <u>PrivateStats</u> and <u>AT with Public Metadata</u> permit arbitrary public metadata

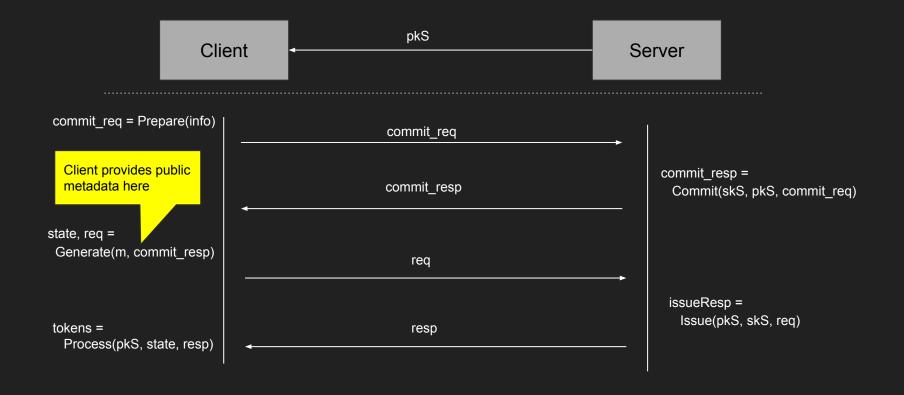
Ideally tokens are bound to different metadata:

tokens = F(C priv, C pub, S priv, S pub)

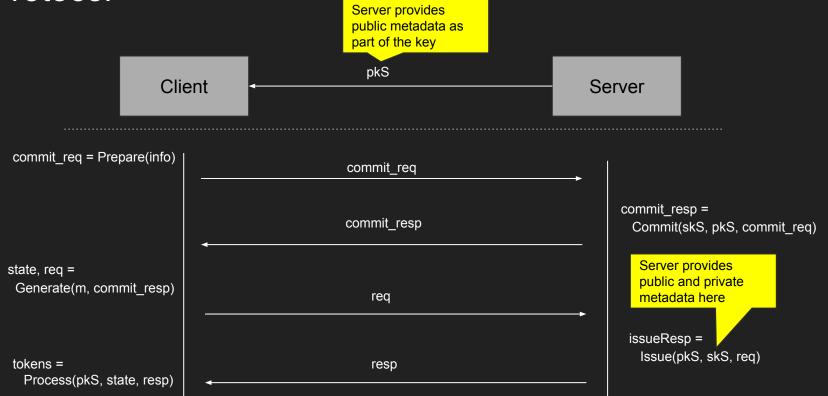
Protocol



Protocol



Protocol



Questions

Should the API support arbitrary client and server metadata, and if so, how?

Should metadata limits be imposed by protocol, underlying cryptographic construction, or both?

- PMBTokens permit only a single private bit
- PrivateStats and AT permit arbitrary many public bits

What sort of guidance should the protocol or architecture give about the metadata limits?