

# W3C WebCrypto Request to JOSE for JWK Private and Symmetric Key Representations

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# W3C WebCrypto Use Case

- W3C WebCrypto WG developing JavaScript APIs for crypto operations
  - Intended to enable efficient JavaScript JOSE implementations, among other scenarios
- Some WebCrypto APIs use key representations
  - Including JWKs
- Currently an asymmetry for JWK
  - Other formats can represent public, private, and symmetric keys
  - JWK only defines public key representation

# WebCrypto Request to JOSE

- WebCrypto WG requests that JOSE define and standardize representations for all three types of keys:
  - Public
  - Private
  - Symmetric
- They will likely use the IANA registry to define the remaining two if we don't

# Decision Needed by JOSE WG

- Do we want to define the additional representations?
- Potential starting point already exists:
  - draft-jones-jose-json-private-key