

How to make use of the X.509 extensions for alternate signature schemes in IKEv2?

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ISO/IEC 9594-8 (2020) defines three extensions

subjectAltPublicKeyInfo

alternative public key information

altSignatureAlgorithm

alternative digital signature algorithm

AltSignatureValue

alternative signature

... to be used *instead* of the native fields (if present)

→ Allows for a smooth migration of a PKI to a new signature algorithm

→ Does *not* intend hybrid use of algorithms

Question: Do we need a hybrid solution for authentication with regard to PQC?