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# 802.1X CKNs and KMDs

Basic properties and use

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# CKN

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*CAK Name - identifies a CAK:<sup>1</sup>*

- Allows recipient of an MKPDU to determine which CAK to use to validate the received MKPDU.
- Transmitted in clear, must not be possible to use to CAK
- Value determine by convention, depending on authentication method:
  - Separately derive from MSK material when EAP is used
  - Arbitrarily assigned by administrator when PSK is used

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1. The ability to generate a valid MKPDU, protected by a CAK and including a nonce provided by a peer, serves as proof of current possession of the CAK. Current possession of a CAK is proof of prior authentication.

# KMD

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*Key Management Domain - identifies a scope within which CAK/CKN tuple are (likely to be valid) and can be cached:*

- May be implicit (if CAKs arise out of authentication over the link to be protected) and will only be used in that context
- Can support roaming of a station between some group of peers that have means (not specified in the standard) of sharing the CAK
- Names a pool of CAKs—scope of CKN, where to look for CKN