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## 802.1X (port-based network access control) **Authentication Server** Authenticator Supplicant *Initialization* EAPOL Request (ID) EAPOL Response (ID) (RADIUS) Request (challenge-response mechanism)

Auth Success / Fail (PMK) (PMK)

Pre-shared keys

Server-based keys



LAN: Local Area Network

EAPOL: Extensible Authentication Protocol Over LAN

(RADIUS) Response

RADIUS: Remote Access Dial-In User Service

SN: Sequence Number

MAC: Media Access Control

ID: Identity

MIC: Message Integrity Check

AP: Access Point

## 4-way handshake

