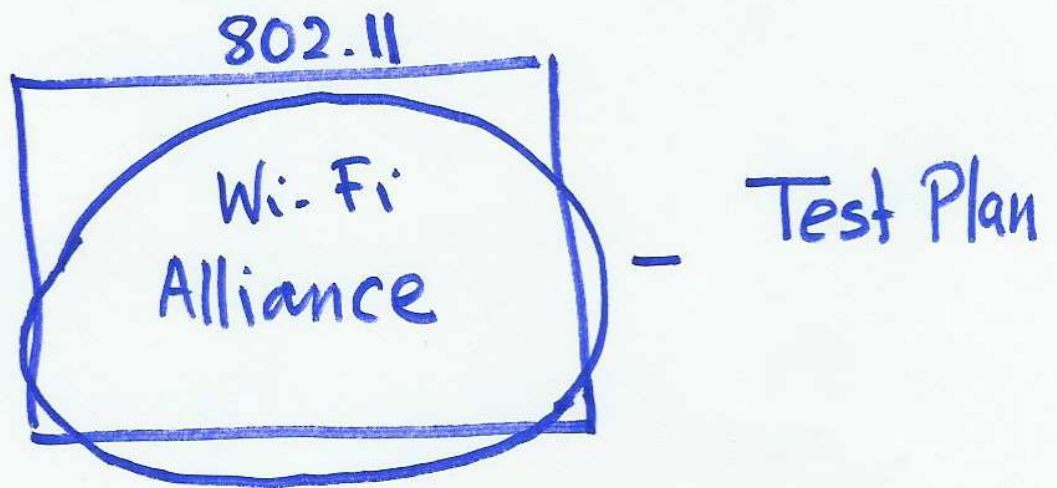


1/23/07

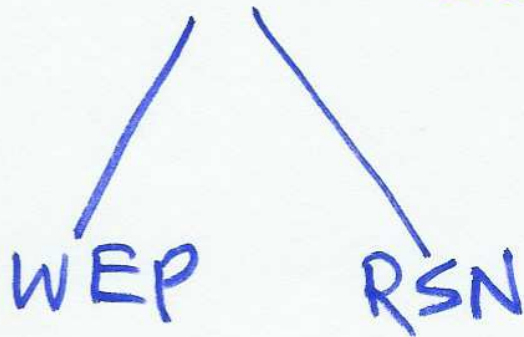
802.11 i

RSN - Robust Security
Network

802.11 Wi-Fi Alliance

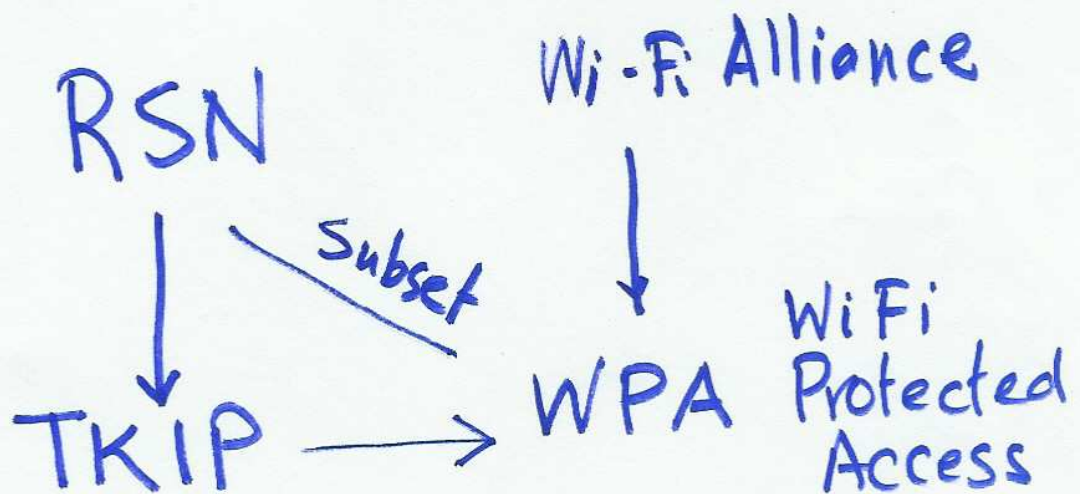


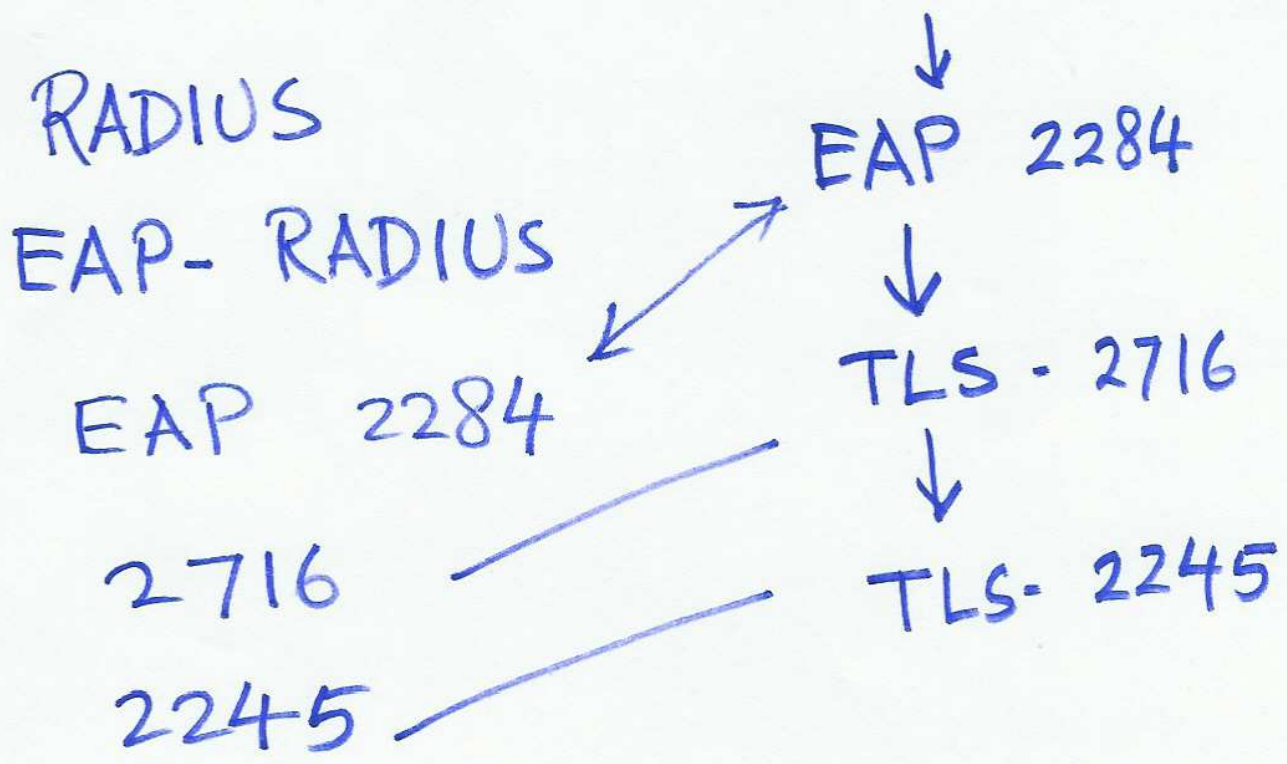
TSN - Transitional Security Network



Software implementation
based on Wi-Fi product

TKIP - Temporal Key Integrity Protocol





802.1x

EAP

RADIUS

RSN - Flexibility

AES

TKIP

WPA - TKIP

RSN & WPA - Support
Same architecture

Architecture

(1) Upper-Level Authentication

(2) Secret Key Distribution

(3) Key renewal

Master Key — Authentication Process - Security Context
Message Protection (integrity & privacy)
Temporal Key

Security Architecture

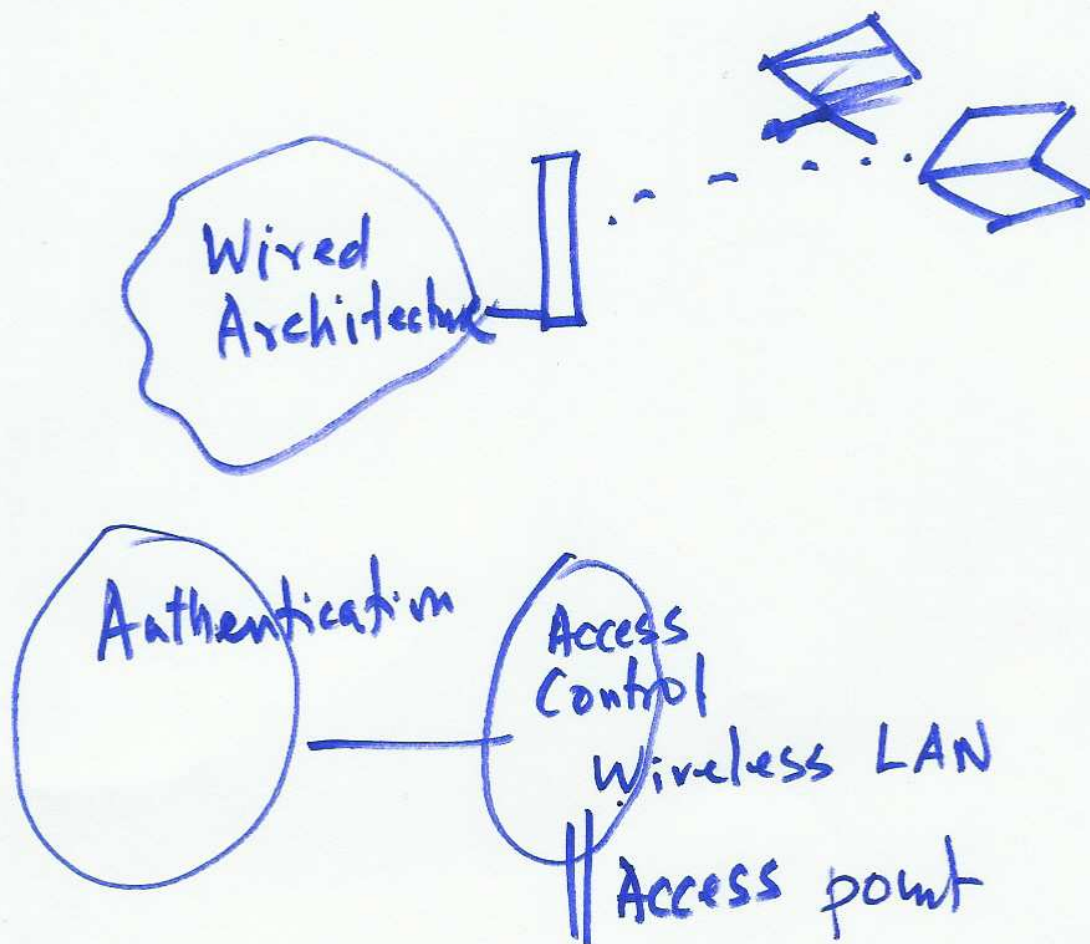
Three Layers

Wireless LAN Layer

Access Control Layer

Authentication Layer

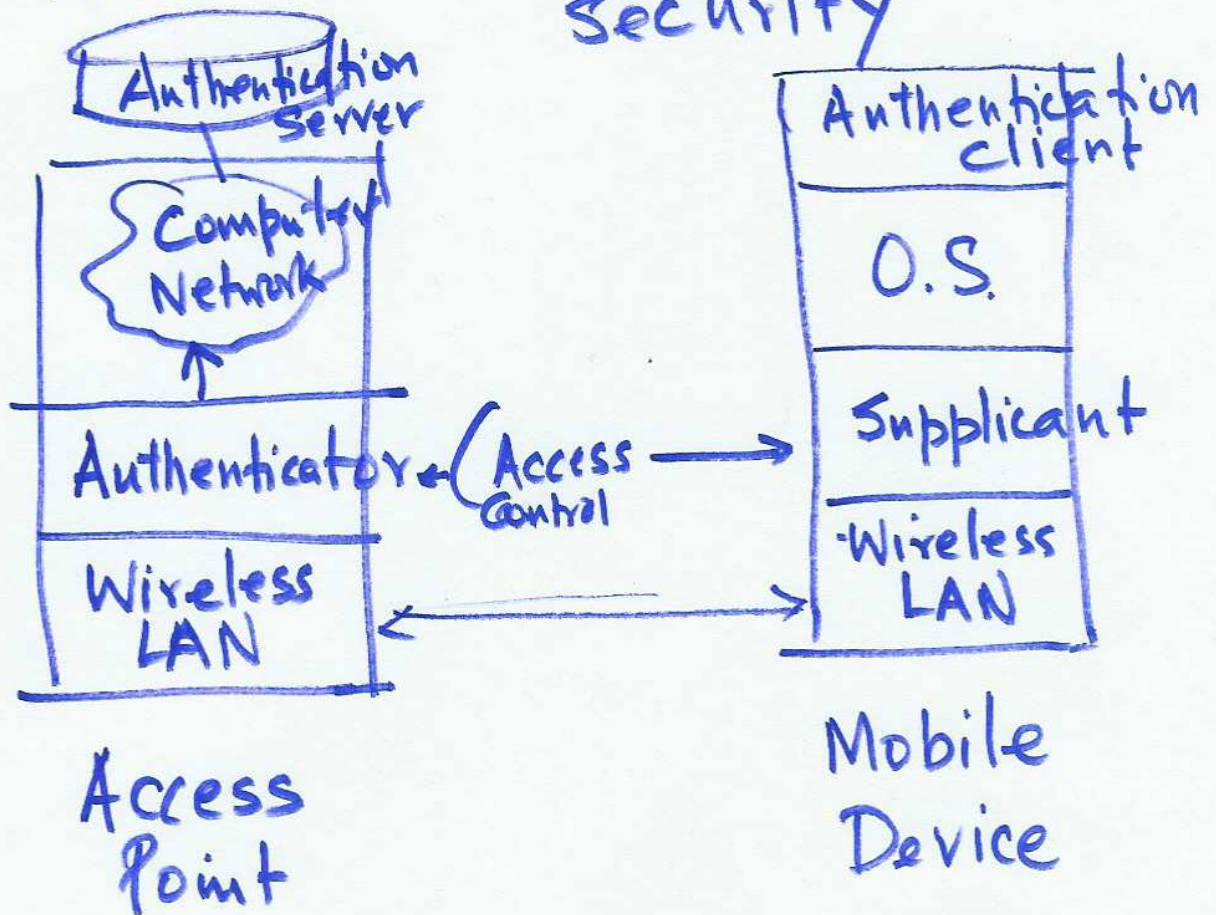
Access point

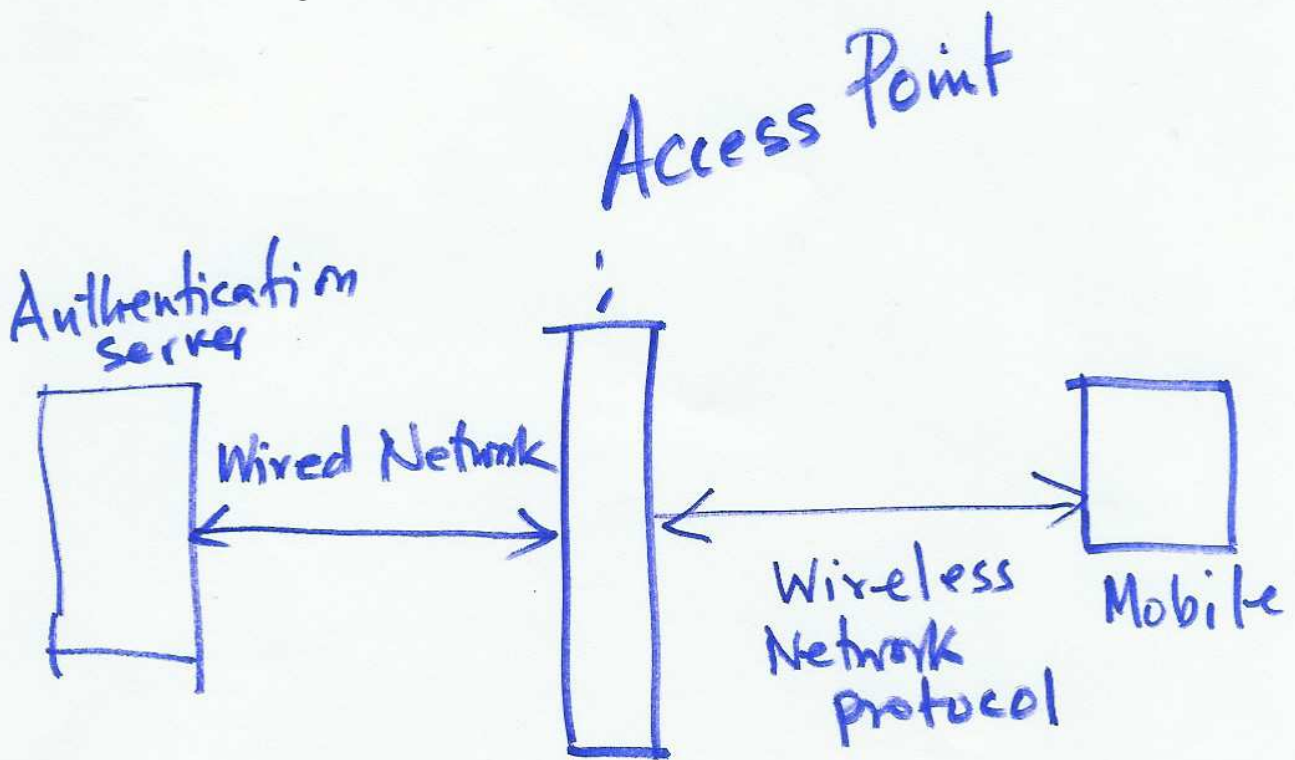


IEEE 802.1X

For Access Control
Port Access Control

TLS - Transport Layer Security





Upper ~~lower~~ layers will be the same
 Upper layers will be different
 Lower
 ↓
 802.3
 Or other protocol
 ↓
 TCP/IP

↓
 802.11
 802.1x
 EAPOL

EAP - Extensible Authentication Protocol.