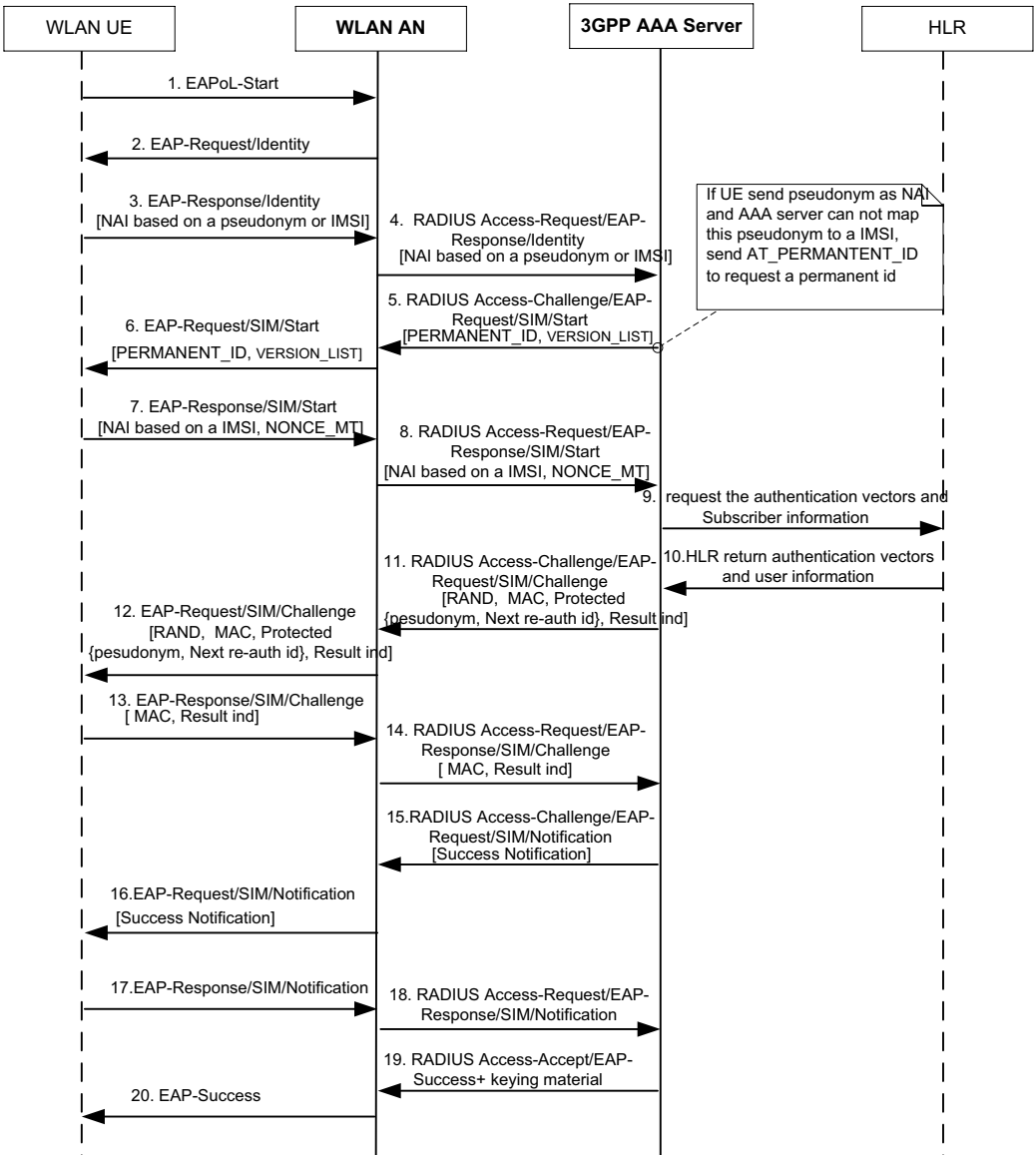
WLAN UE
WLAN AN
3GPP AAA Server
HLR
1. EAPoL-Start
2. EAP-Request/Identity
3. EAP-Response/Identity
[NAI based on a pseudonym or IMSI]
4. RADIUS Access-Request/EAP-Response/Identity
[NAI based on a pseudonym or IMSI]
If UE send pseudonym as NAI and AAA server can not map this pseudonym to a IMSI, send AT_PERMANTENT_ID to request a permanent id
5. RADIUS Access-Challenge/EAP-Request/SIM/Start
[PERMANENT_ID, VERSION_LIST]
6. EAP-Request/SIM/Start
[PERMANENT_ID, VERSION_LIST]
7. EAP-Response/SIM/Start
[NAI based on a IMSI, NONCE_MT]
8. RADIUS Access-Request/EAP-Response/SIM/Start
[NAI based on a IMSI, NONCE_MT]
9. request the authentication vectors and Subscriber information
10.HLR return authentication vectors and user information
11. RADIUS Access-Challenge/EAP-Request/SIM/Challenge
[RAND, MAC, Protected {pesudonym, Next re-auth id}, Result ind]
12. EAP-Request/SIM/Challenge
[RAND, MAC, Protected {pesudonym, Next re-auth id}, Result ind]
13. EAP-Response/SIM/Challenge
[ MAC, Result ind]
14. RADIUS Access-Request/EAP-Response/SIM/Challenge
[ MAC, Result ind]
15.RADIUS Access-Challenge/EAP-Request/SIM/Notification
[Success Notification]
16.EAP-Request/SIM/Notification
[Success Notification]
17.EAP-Response/SIM/Notification
18. RADIUS Access-Request/EAP-Response/SIM/Notification
19. RADIUS Access-Accept/EAP-Success+ keying material
20. EAP-Success