AUN3 Device
RG
WAGF
AMF/ SEAF
AUSF
UDM
1. Layer 2 connection
2. L2(EAP-Request/Identity)
3. L2(EAP-Response/Identity (NAI))
4a. AAA Message (EAP-Response/Identity (NAI))
4b. Registration Request (SUCI, AUN3_Indicator)
4c. Registration Request (SUCI, AUN3_Indicator)
5. Nausf_UEAuthentication_AuthenticateRequest (SUC, SN-name, AUN3_indicator)
6. Nudm_UEAuthentication_Get_Request (SUCI, SN-name, AUN3_indicator)
7. Authentication Method Selection
8. Nudm_UEAuthentication_Get_Response (SUPI, EAP-AKA' AV)
9. Nausf_UEAuthentication_AuthenticateResponse (EAP Request/AKA'-Challenge)
10a. Authentication Response (EAP Request/AKA'-Challenge)
10b. AAA Message (EAP Request/AKA'-Challenge)
10c. Authentication Response (EAP Request/AKA'-Challenge)
11. L2(EAP Request/AKA'-Challenge)
12. Verify AV and calculate Auth Response
13. L2(EAP-Response/AKA'-Challenge)
14a. AAA Message (EAP-Response/AKA'-Challenge)
14b. Authentication Request (EAP-Response/AKA'-Challenge)
14c. Registration Request (EAP-Response/AKA'-Challenge)
15. Nausf_UEAuthentication_AuthenticateRequest (EAP-Response/AKA'-Challenge)
16. Verify Authentication Response
17. Nausf_UEAuthentication_AuthenticateResponse (EAP Success, SUPI, MSK)
18a. Authentication Result (EAP Success, MSK)
18b. AAA Message (EAP Success, MSK)
18c. Authentication Result (EAP Success, MSK)
19. L2(EAP Success)
20a. Derive WLAN key from PMK
20b. Derive WLAN key from PMK
21. Establish WLAN security (4-way handshaking)
22. Local IP configuration