AUN3 Device
5G-RG
W-AGF
AMF/ SEAF
AUSF
UDM
1. Layer 2 connection
2. L2(EAP-Request/Identity)
3. L2(EAP-Response/Identity)
4. Registration Request
(SUCI, AUN3_Indicator)
5. Nausf_UEAuthentication_AuthenticateRequest
(SUCI, 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, MSK_indicator)
9. Nausf_UEAuthentication_AuthenticateResponse
(EAP Request/AKA'-Challenge)
10. Authentication Request
(EAP Request/AKA'-Challenge)
11. L2(EAP Request/AKA'-Challenge)
12. Verify AV and calculate Auth Response
13. L2(EAP-Response/AKA'-Challenge)
14. Authentication Response
(EAP-Response/AKA'-Challenge)
15. Nausf_UEAuthentication_AuthenticateRequest
(EAP-Response/AKA'-Challenge)
16. Verify Authentication Response
17. Nausf_UEAuthentication_AuthenticateResponse
(EAP Success, SUPI, MSK)
18. 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