UE
eNodeB
new MME
Old MME/SGSN /AMF
EIR
Serving GW
PDN GW
PCRF
HSS
1. Attach Request
2. Attach Request
3. Identification Request
3. Identification Response
4. Identity Request
4. Identity Response
5a. Authentication / Security
5b. Identity Request/Response
5b. ME Identity Check
6. Ciphered Options Request
6. Ciphered Options Response
7. Delete Sesion Request
7. PCEF Initiated IP-CAN Session Termination
7. Delete Session Response
(E)
(A)
MME provides "initial-attach-indication. The HSS sends cancel location to old AMF.
8. Update Location Request
9. Cancel Location
9. Cancel Location Ack
10. Delete Session Request
10. PCEF Initiated IP-CAN Session Termination
10. Delete Session Response
(F)
(B)
UE's IP address deleted
11. Update Location Ack
12. Create Session Request
13. Create Session Request
14. PCEF Initiated IP-CAN Session Establishment/Modification
(C)
15. Create Session Response
First Downlink Data (if not handover)
16. Create Session Response
17. Initial Context Setup Request or Downlink NAS transport with Attach Accept
18. RRC Connection Reconfiguration or RRC Direct Transfer
19. RRC Connection Reconfiguration Complete
20. Initial Context Setup Response
21. Direct Transfer
22. Attach Complete
First Uplink Data
23. Modify Bearer Request
23a. Modify Bearer Request
23b. Modify Bearer Response
(D)
24. Modify Bearer Response
First Downlink Data
25. Notify Request
26. Notify Response