Topology Management API for OpenAirInterface

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PROBLEM STATEMENT

• Non supporting topological notification changes for LTE users in the network
• There is no any option to track users’ movements events through the network in the LTE framework. This is needed and very useful for telcos in order to perform management actions on users’ movements.
5G-PPP Phase 1
SELFNET Technical Coordinator 7M€

5G-PPP Phase 2
SLICE NET Technical Coordinator 8M€
Some information stored (DB/message broker): MME_TEID, SGW_TEID, EPS_Bearer_ID, IMSI, eNB_TEID, SGW_IP, eNB_IP, UE_IP, UE_ID
Work Flow for a new user

1. UE Deregistered
2. Initial UE Admission Message
3. BBU
4. Connection Setup Message
5. MME
6. Connection Setup Message
7. HSS
8. User is in DB? YES
9. Initial UE Admission Message
10. SPGW
11. Information about user sent to a message broker
12. UE Registered
Work Flow for a user mobility

1. UE moving
2. RRC Message
3. BBU
4. Handover Request
5. MME
6. GTP Tunnel Request
7. SPGW
8. Information about user is changed
9. UE Registered
DEMO LTE Topology Management

API Demo