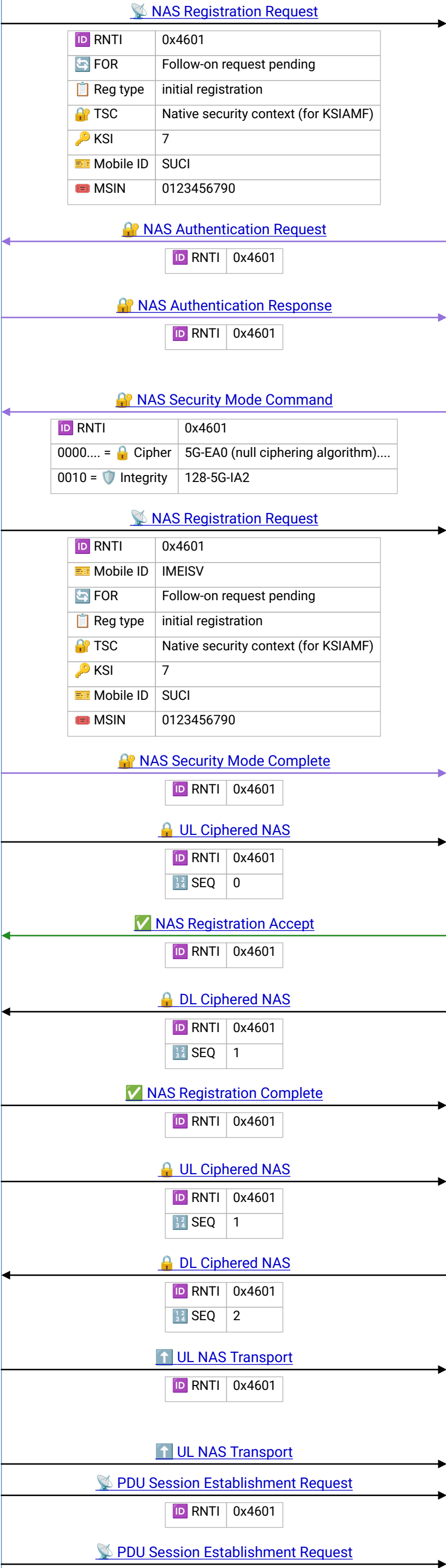


UE

AMF

pixel\_6a.pcap



[Frame 3] NAS Registration Request - UE initiates 5GS registration with the AMF; carries SUCI or 5G-S-TMSI, requested NSSAI, and 5GMM capability

[Frame 5] NAS Authentication Request - AMF challenges UE with RAND and AUTN; UE computes RES\* using K and AKA algorithms

[Frame 7] NAS Authentication Response - UE returns RES\*; AMF/AUSF compares against expected XRES\* to authenticate the subscriber

[Frame 9] NAS Security Mode Command - AMF activates NAS-layer ciphering (NEA\*) and integrity (NIA\*); subsequent NAS messages are protected

[Frame 10] NAS Registration Request - UE initiates 5GS registration with the AMF; carries SUCI or 5G-S-TMSI, requested NSSAI, and 5GMM capability

[Frame 17] NAS Registration Accept - AMF accepts UE registration; assigns 5G-GUTI, allowed NSSAI, TAI list

[Frame 18] NAS Registration Complete - UE acknowledges Registration Accept; 5GMM-REGISTERED state reached

[Frame 20] Ciphered NAS - security header type 2; the inner mm/sm message\_type is encrypted, only the security envelope is dissectable

[Frame 22] UL NAS Transport - UE-AMF envelope for SM messages (PDU Session Establishment Request, Modification Request, etc.)

