

FIG. 1

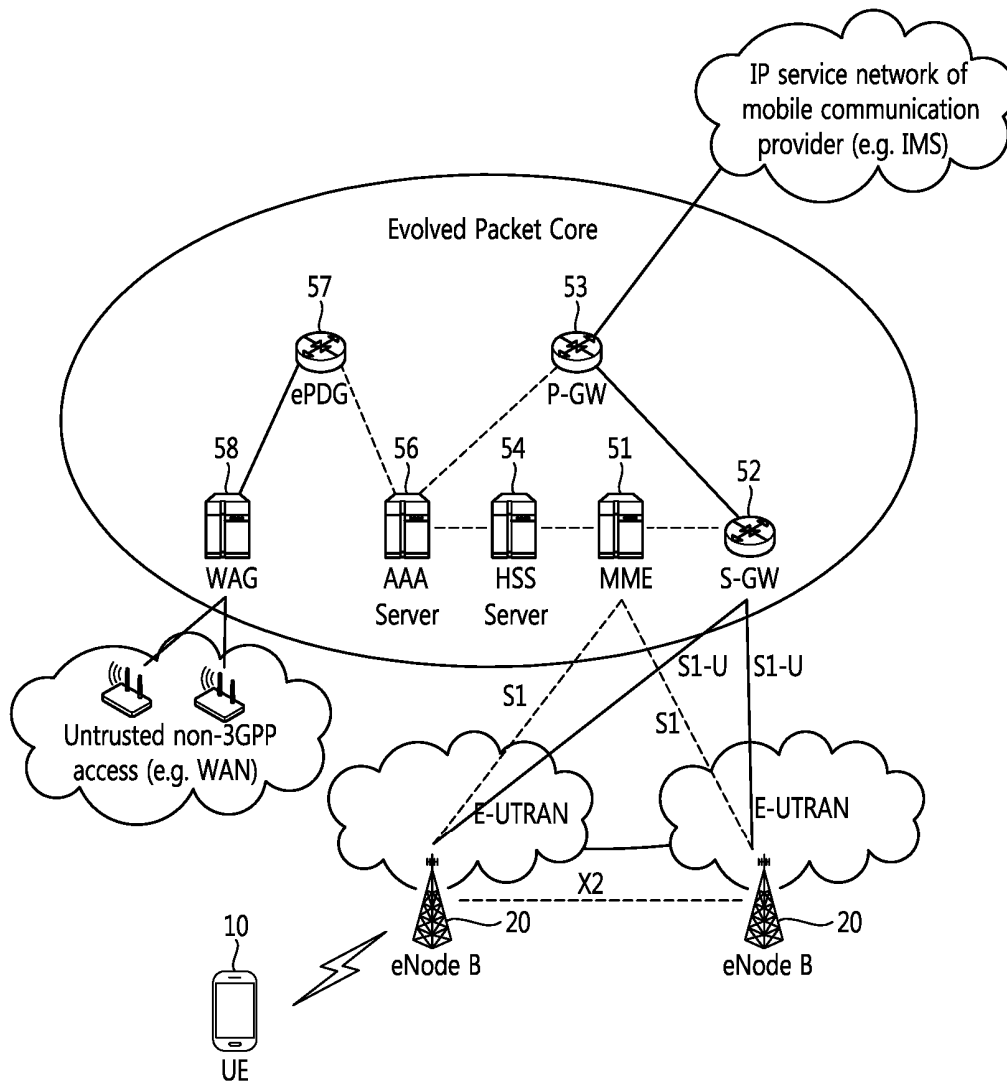


FIG. 2

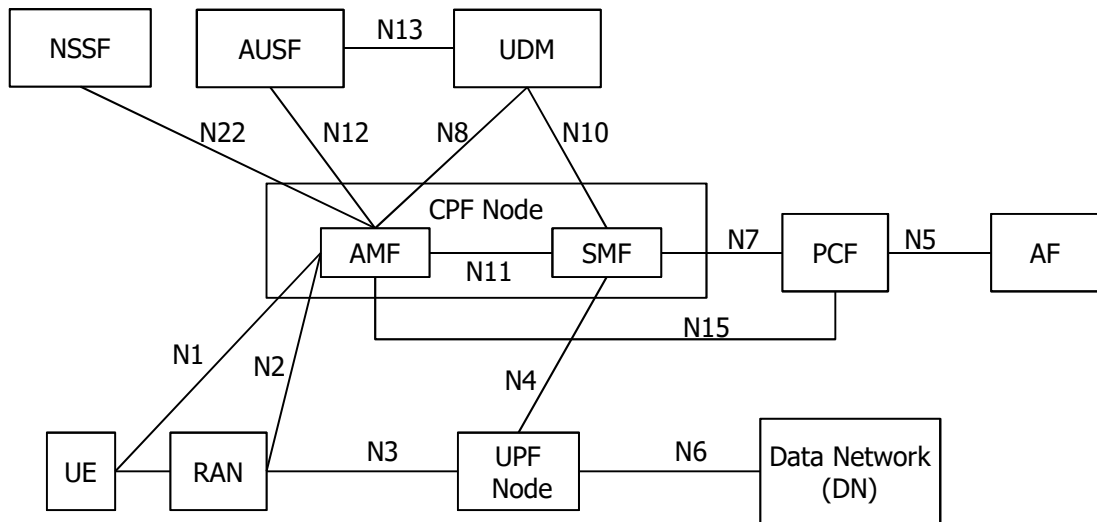


FIG. 3a

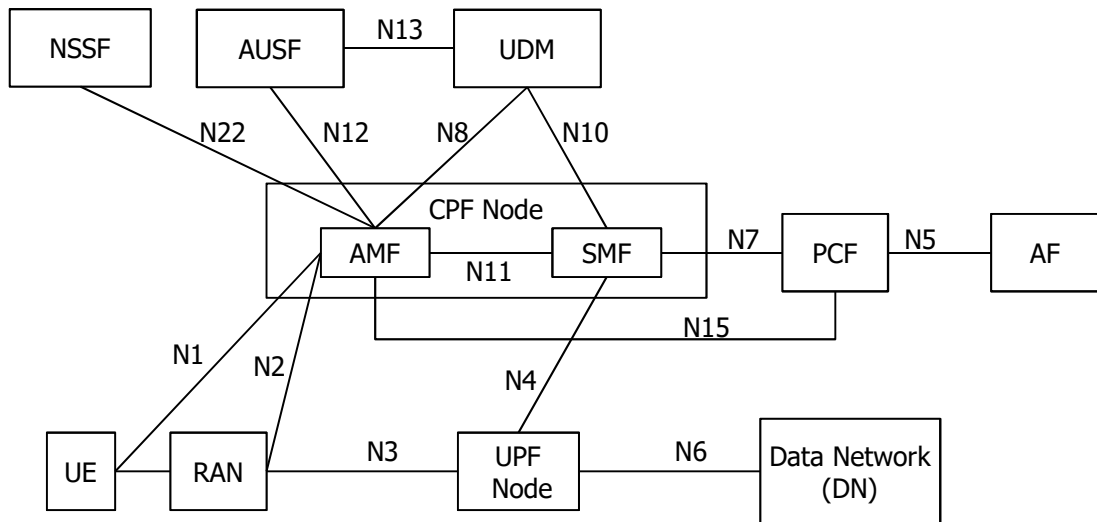
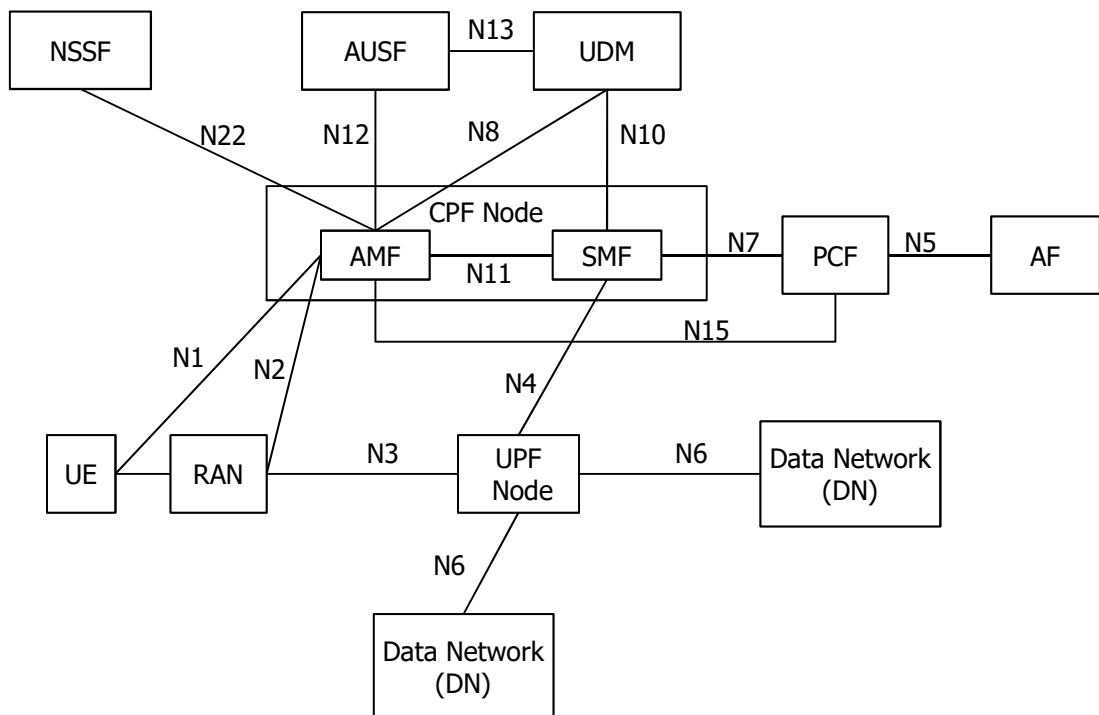


FIG. 3b



The diagram illustrates a network architecture divided into two domains: VPLMN (Visited Public Land Mobile Network) and HPLMN (Home Public Land Mobile Network), separated by a vertical dashed line.

VPLMN Components and Connections:

- UE (User Equipment)** and **RAN (Radio Access Network)** are connected via interface **N1**.
- RAN** is connected to the **CPF Node** via interface **N2**.
- CPF Node** contains **AMF (Access and Mobility Management Function)** and **SMF (Session Management Function)**, connected via interface **N11**.
- AMF** is connected to **SMF** via interface **N4**.
- SMF** is connected to **vPCF (Visited PCF)** via interface **N7**.
- vPCF** is connected to **AF (Application Function)** via interface **N5**.
- SMF** is connected to **vPCF** via interface **N15**.
- CPF Node** is connected to **UPF Node (User Plane Function)** via interface **N3**.
- UPF Node** is connected to **Data Network (DN)** via interface **N6**.
- NSSF (Network Slice Selection Function)** is connected to the **CPF Node** via interface **N22**.

HPLMN Components and Connections:

- AUSF (Authentication Server Function)** and **UDM (Unified Data Management)** are connected via interface **N13**.
- UDM** is connected to the **CPF Node** via interface **N8**.
- UDM** is connected to **vPCF** via interface **N10**.
- vPCF** is connected to **hPCF (Home PCF)** via interface **N24**.
- hPCF** is connected to the **CPF Node** via interface **N12**.

The diagram illustrates a network architecture split into two domains: VPLMN (Visited Public Land Mobile Network) on the left and HPLMN (Home Public Land Mobile Network) on the right, separated by a vertical dashed line.

VPLMN Components:

- vNSSF** (Virtual Network Slice Selection Function)
- vPCF** (Virtual Policy Control Function)
- CPF Node** (Control Plane Function Node) containing:
 - AMF** (Access and Mobility Management Function)
 - V-SMF** (Visited Session Management Function)
- UE** (User Equipment)
- RAN** (Radio Access Network)

HPLMN Components:

- AUSF** (Authentication Server Function)
- UDM** (Unified Data Management)
- H-SMF** (Home Session Management Function)
- H-PCF** (Home Policy Control Function)
- AF** (Application Function)
- Data Network (DN)**

Interfaces and Connections:

- N1:** UE to RAN
- N2:** RAN to AMF
- N3:** RAN to V-SMF
- N4:** V-SMF to UPF Node
- N5:** H-PCF to AF
- N6:** UPF Node to Data Network (DN)
- N7:** H-SMF to H-PCF
- N8:** AMF to H-SMF
- N9:** V-SMF to UPF Node
- N10:** H-SMF to UDM
- N11:** V-SMF to AMF
- N12:** vPCF to AMF
- N13:** AUSF to UDM
- N15:** vPCF to AMF
- N16:** H-SMF to UPF Node
- N22:** vNSSF to AMF
- N24:** vPCF to UDM
- N2x:** vNSSF to AUSF

FIG. 5a

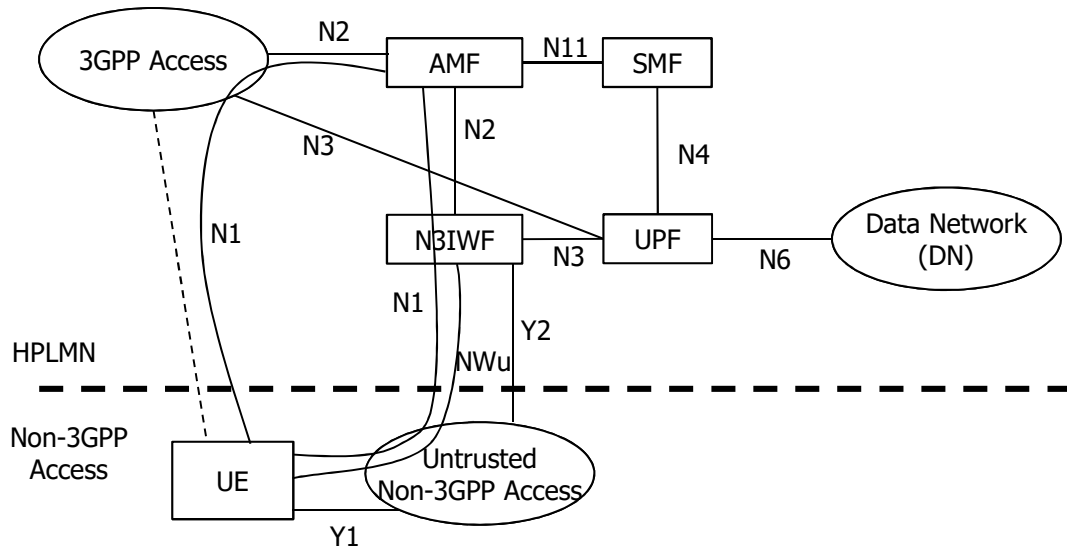


FIG. 5b

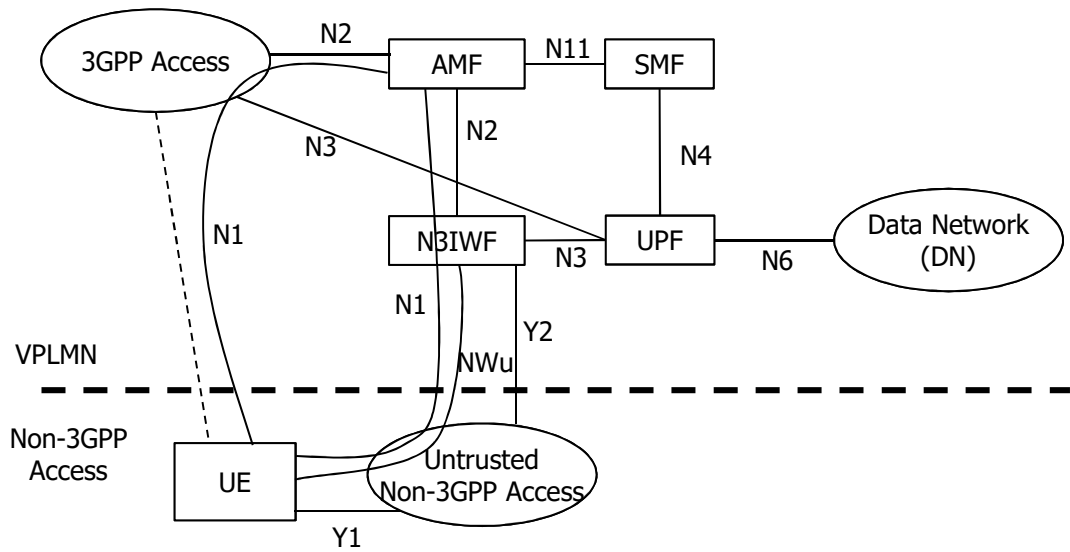
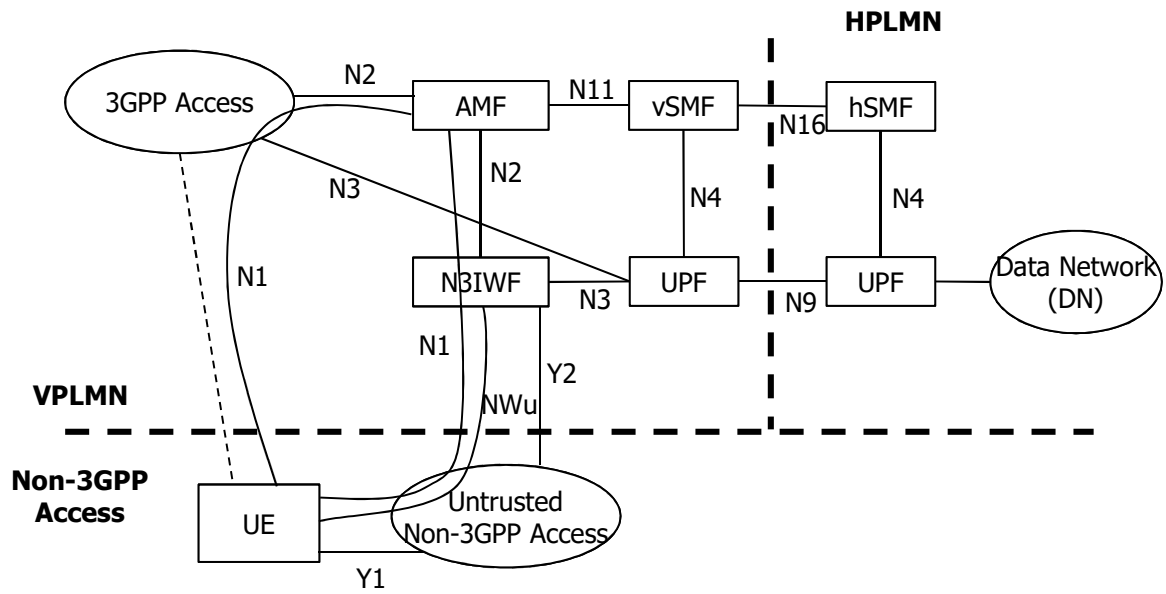


FIG. 5c



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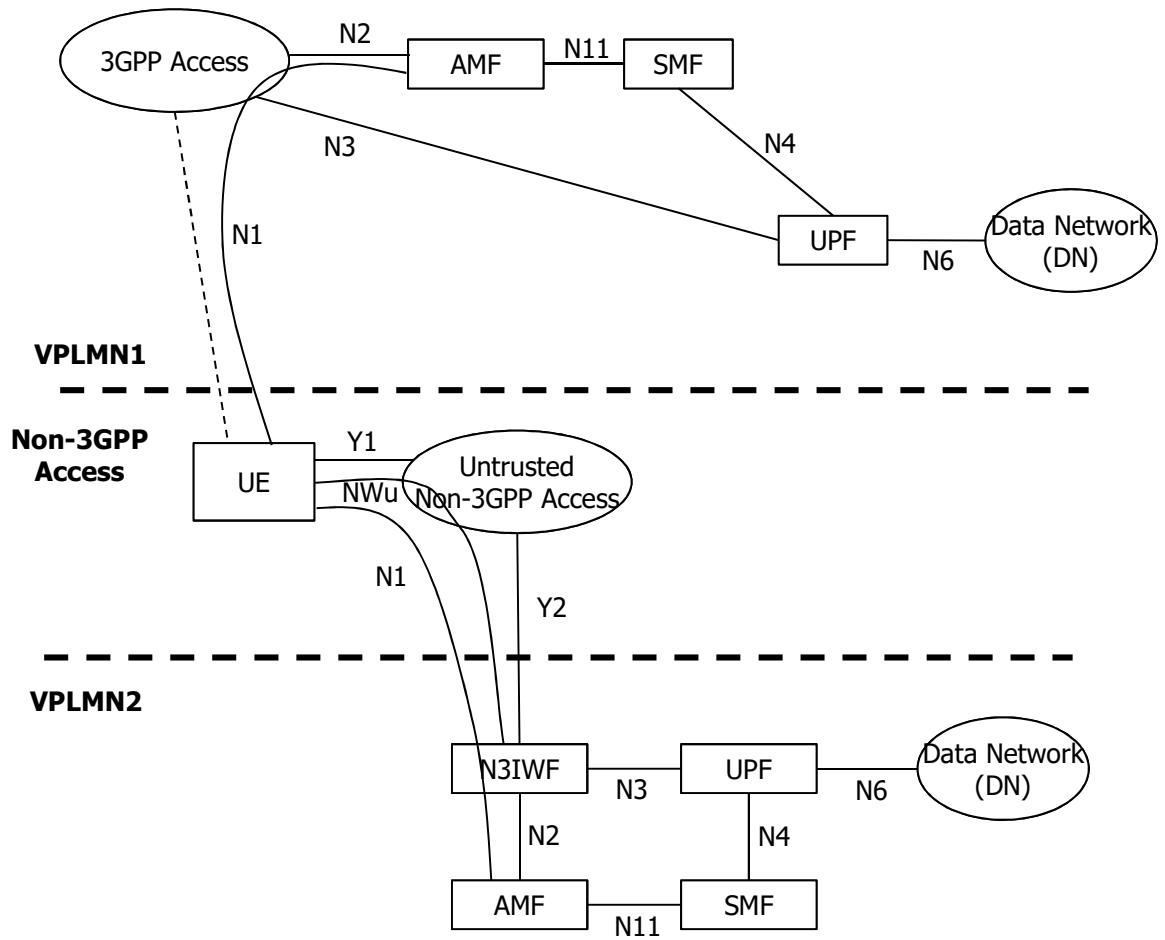


FIG. 5e

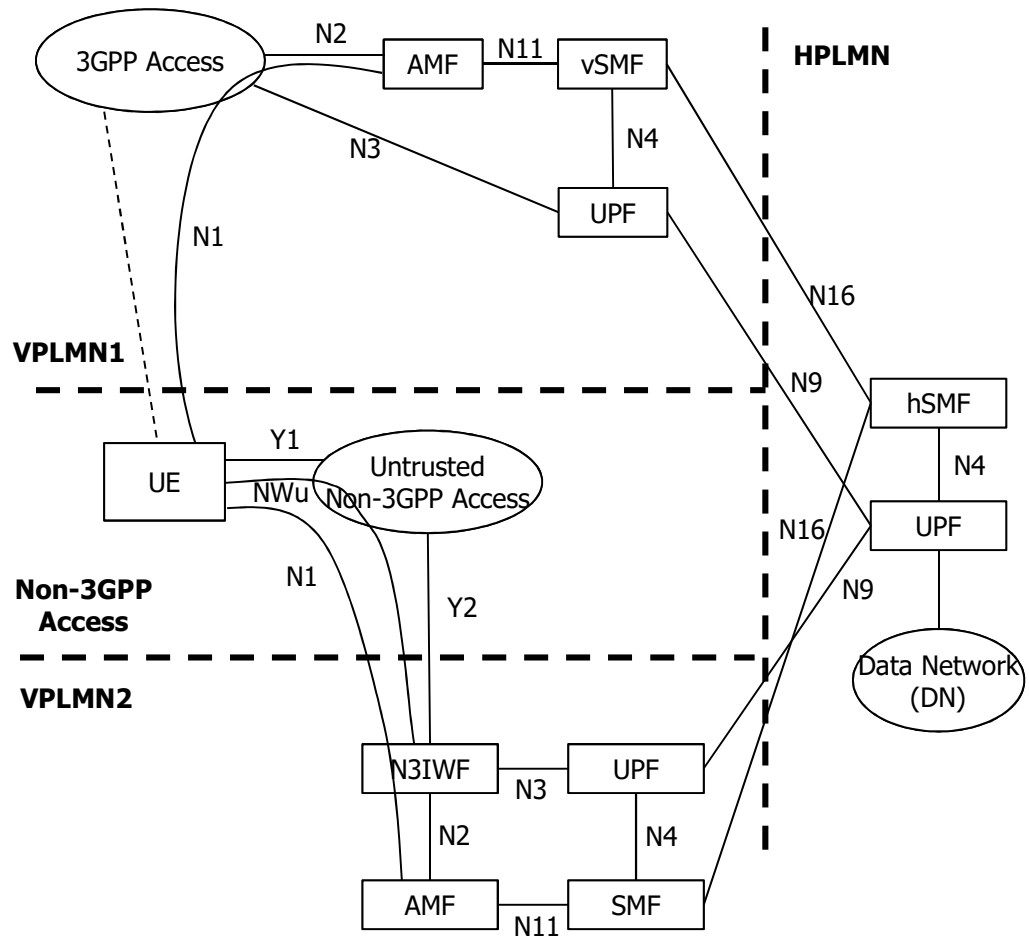


FIG. 5f

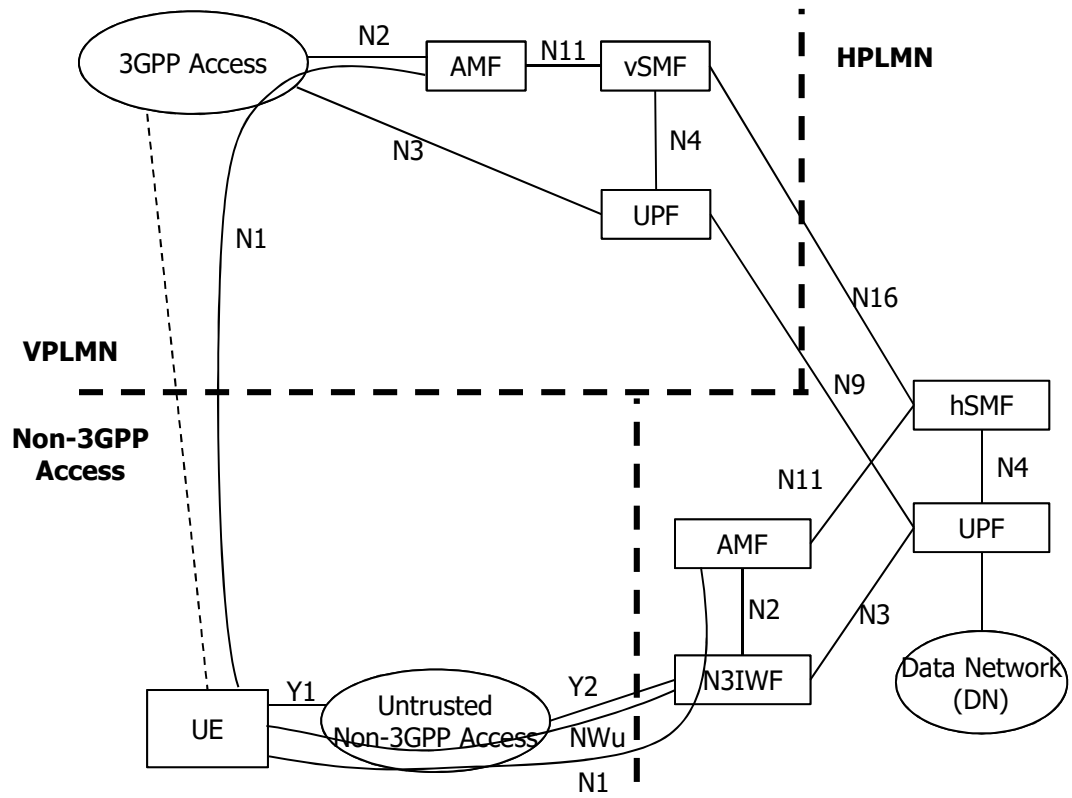


FIG. 6a

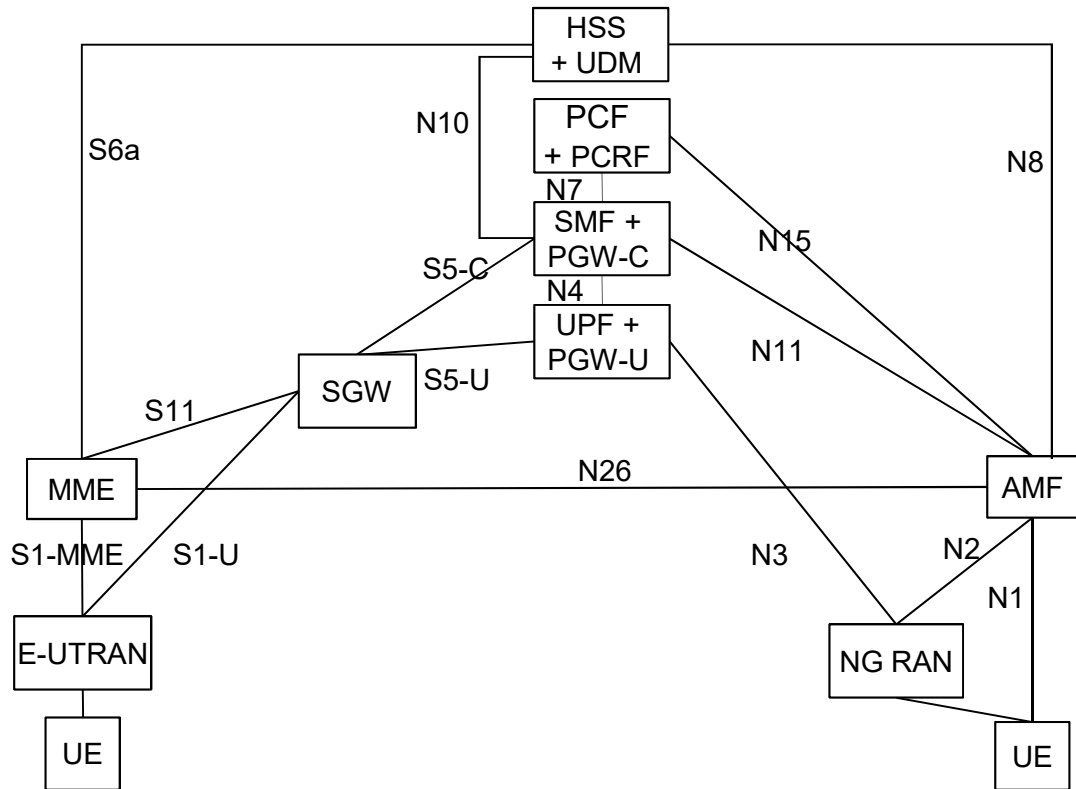


FIG. 6b

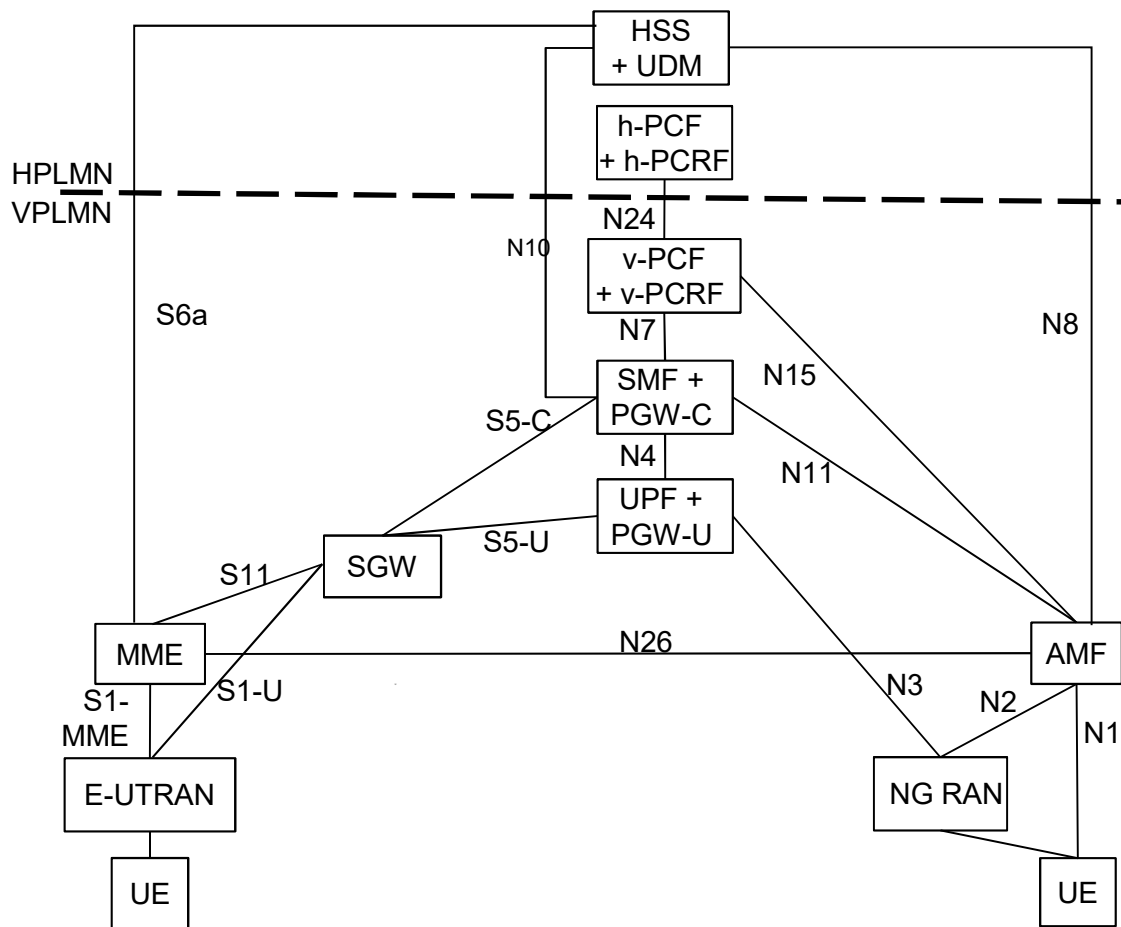


FIG. 7

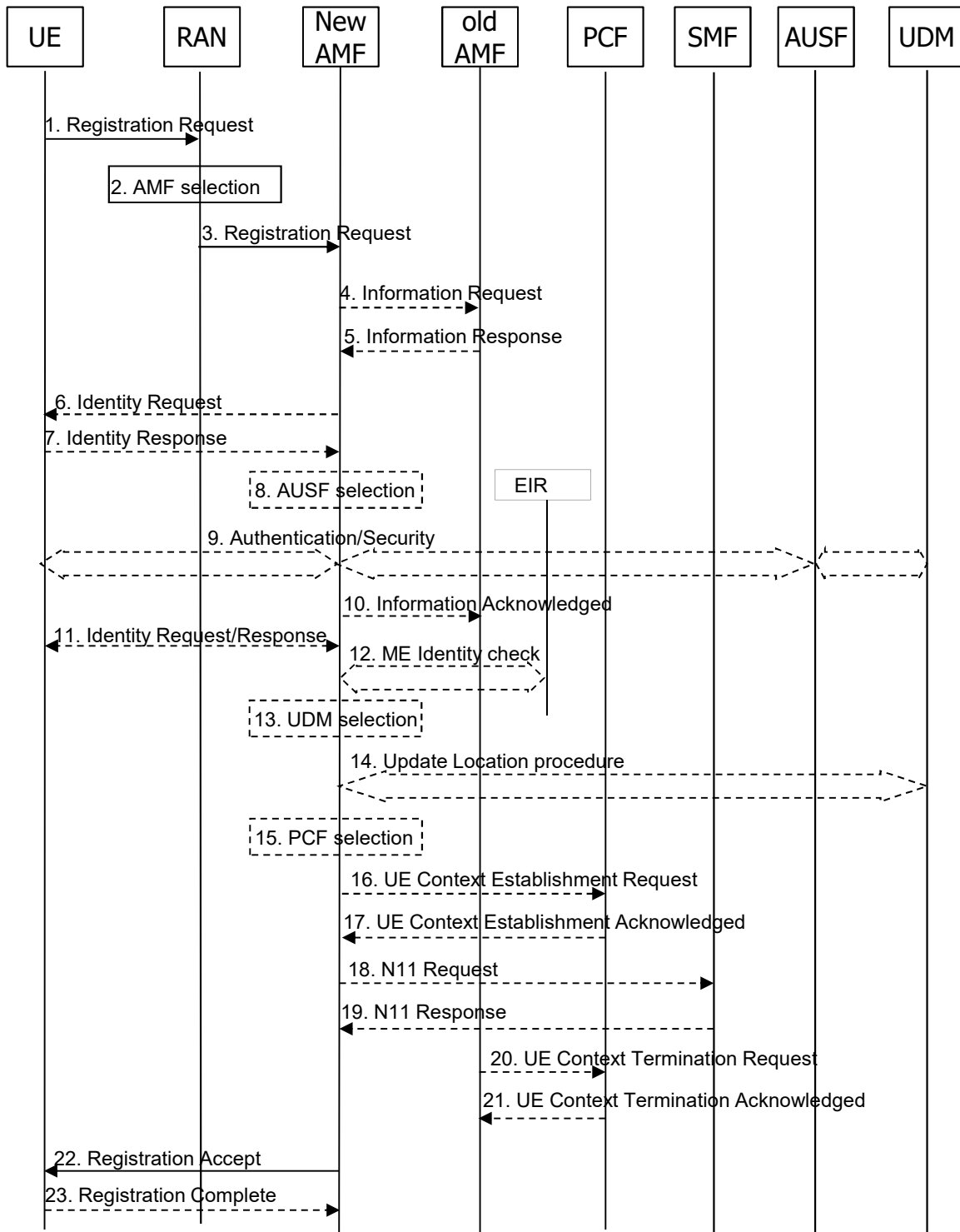


FIG. 8

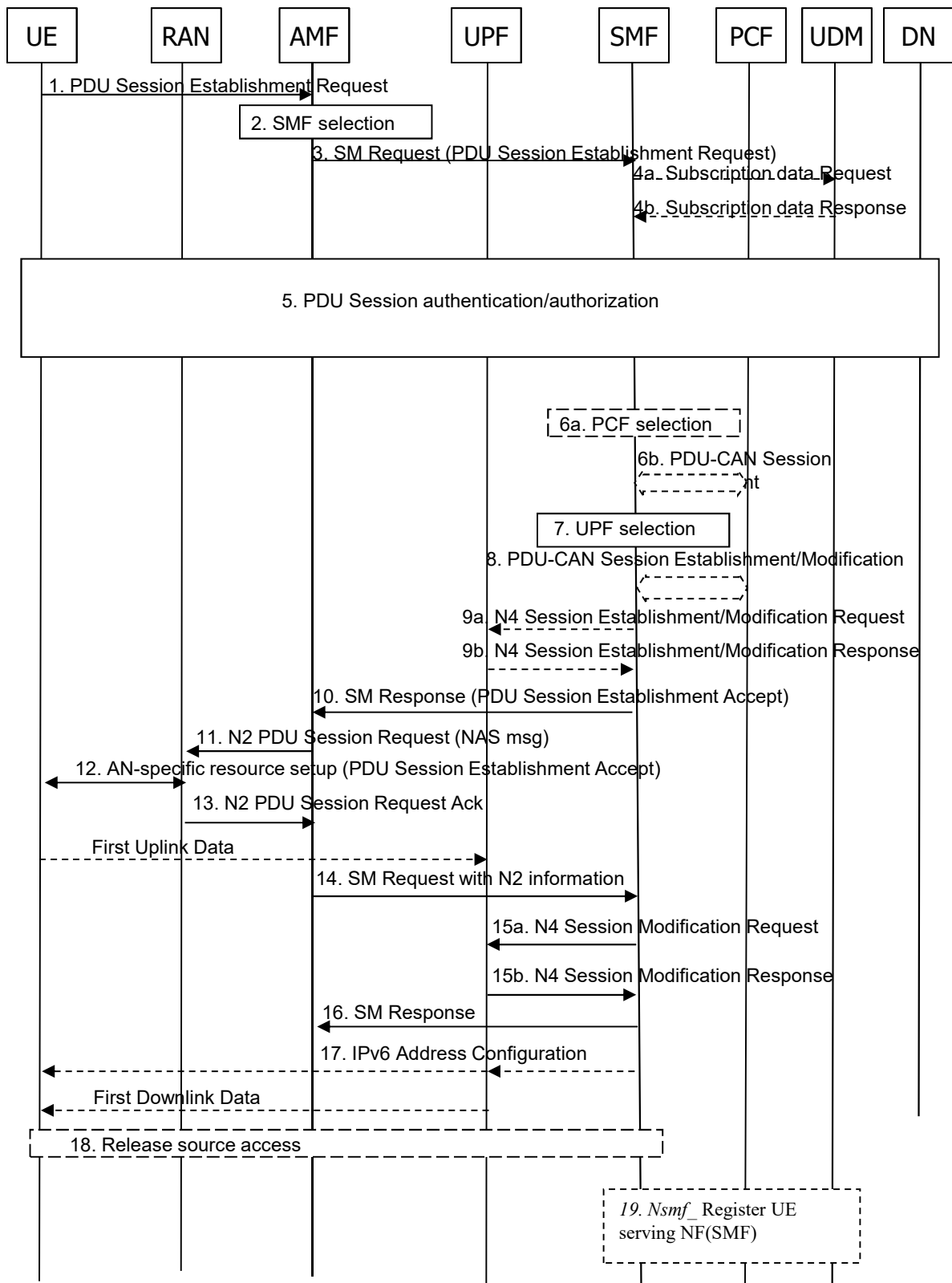


FIG. 9

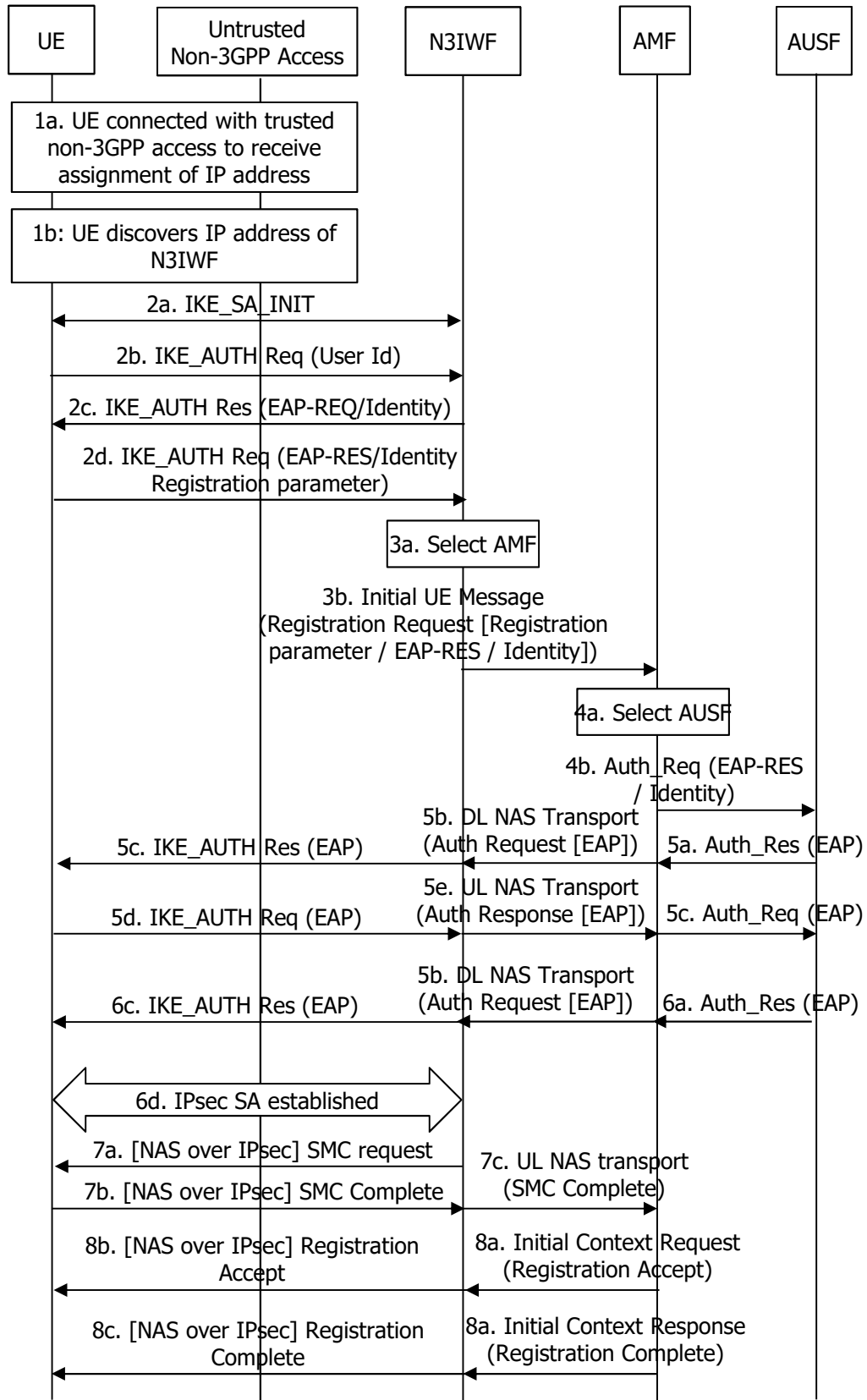


FIG. 10

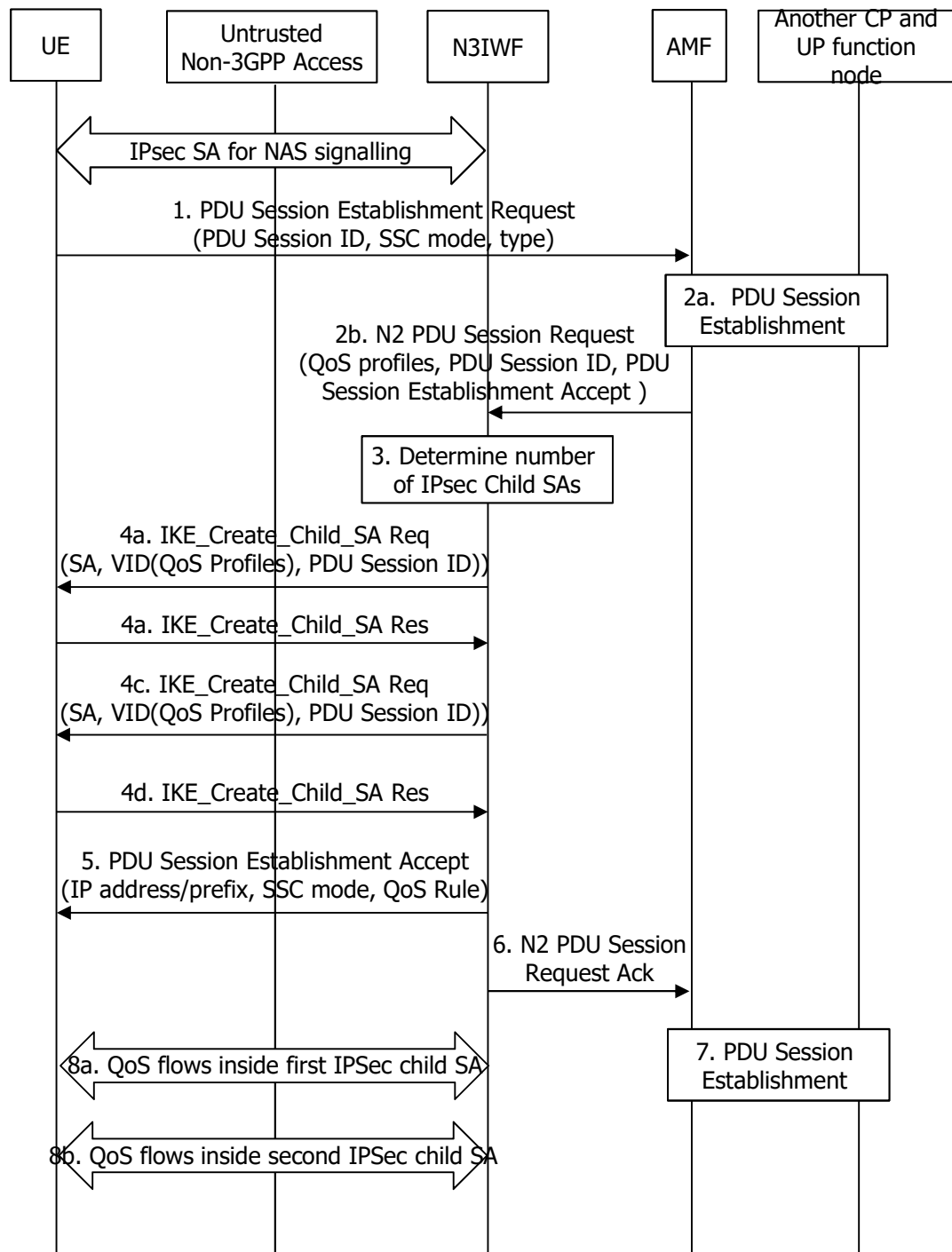


FIG. 11a

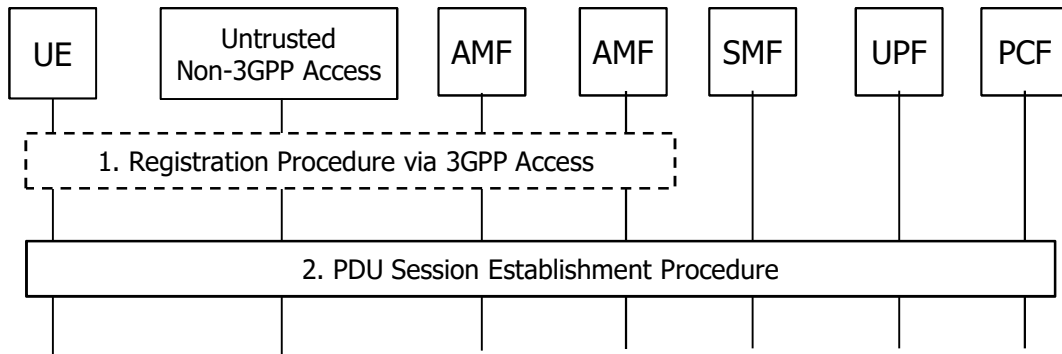


FIG. 11b

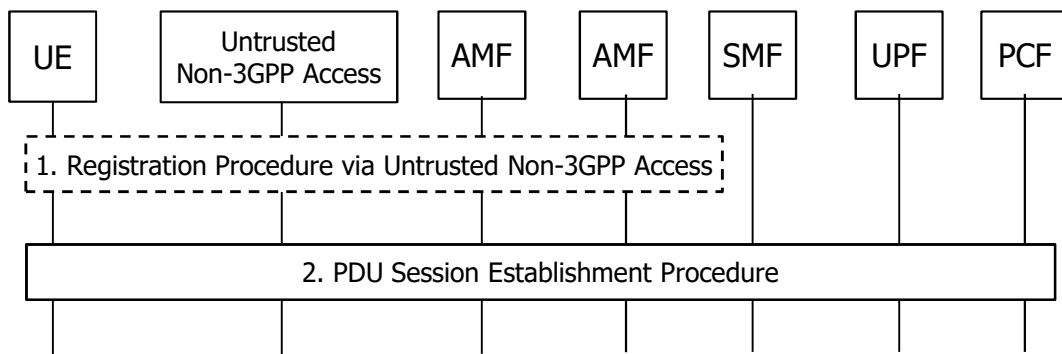


FIG. 12

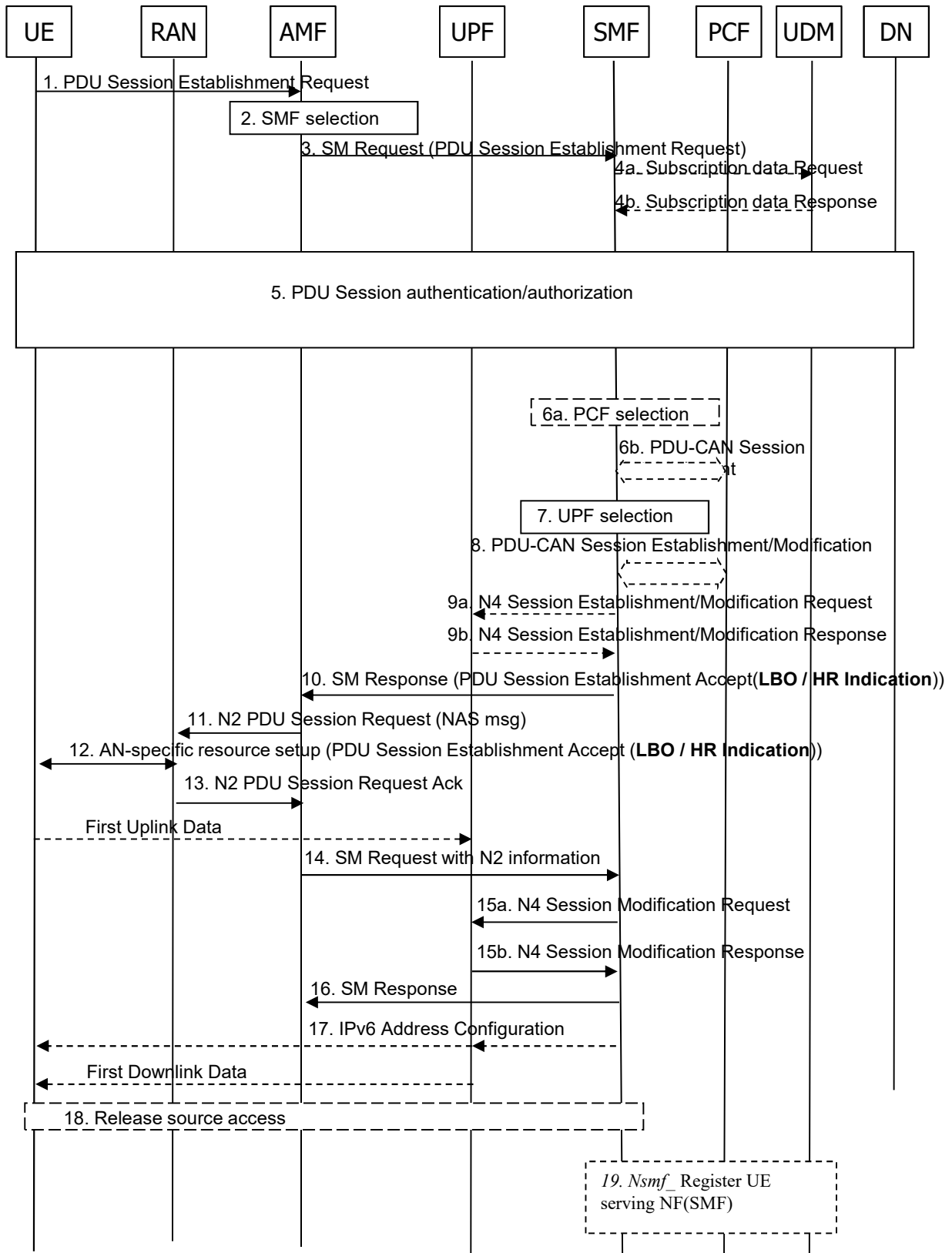


FIG. 13

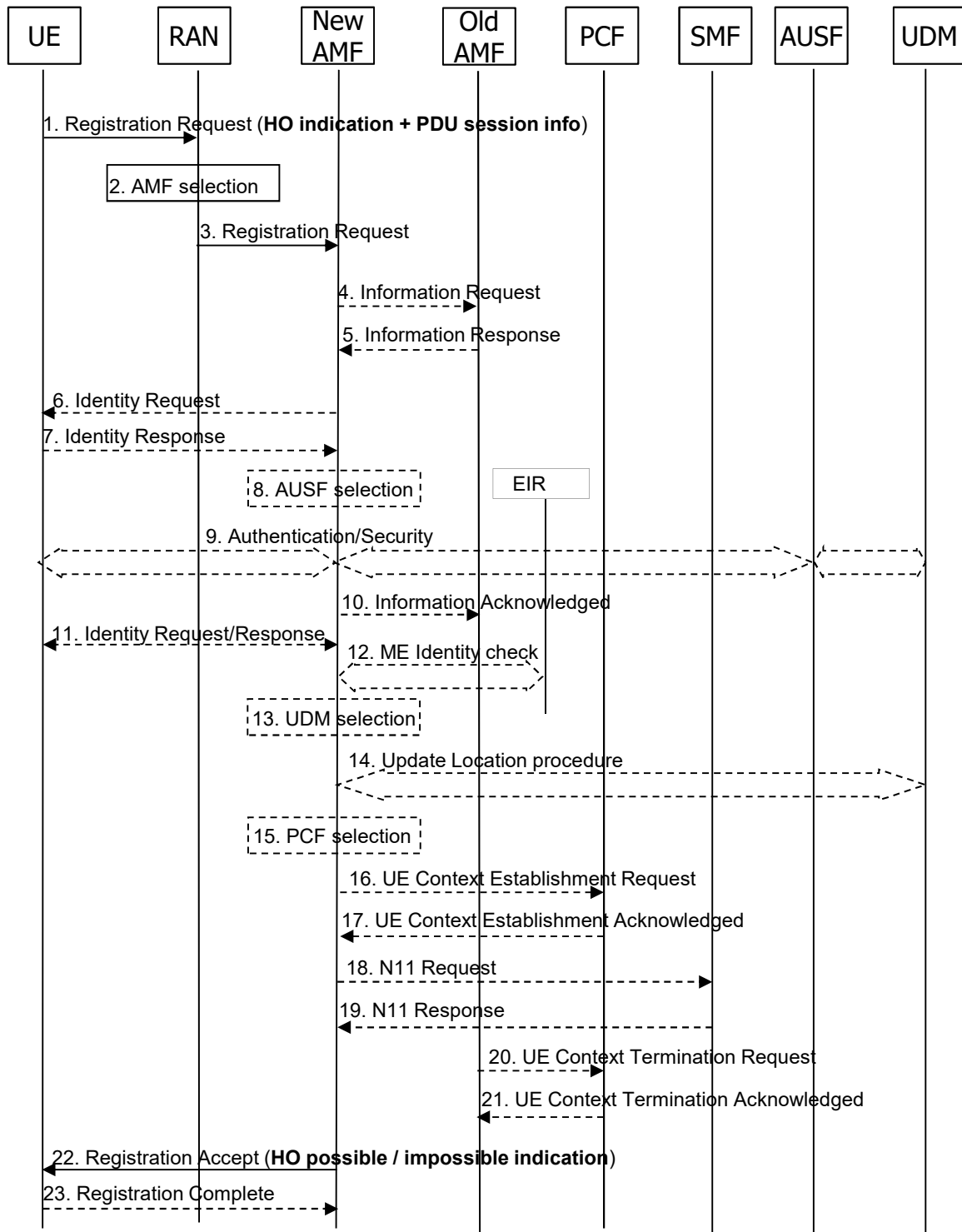


FIG. 14

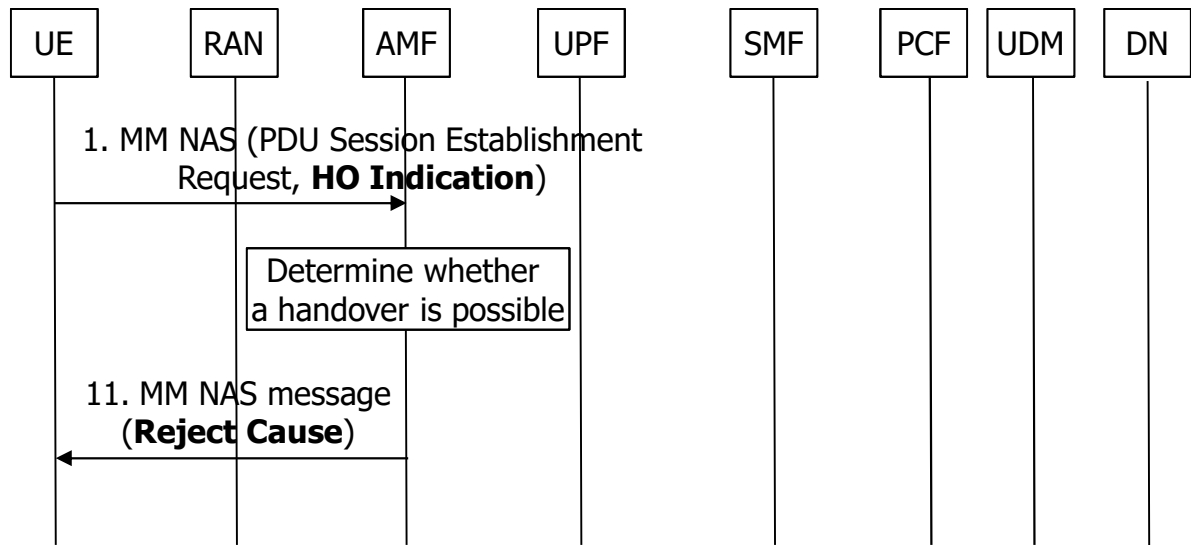


FIG. 15

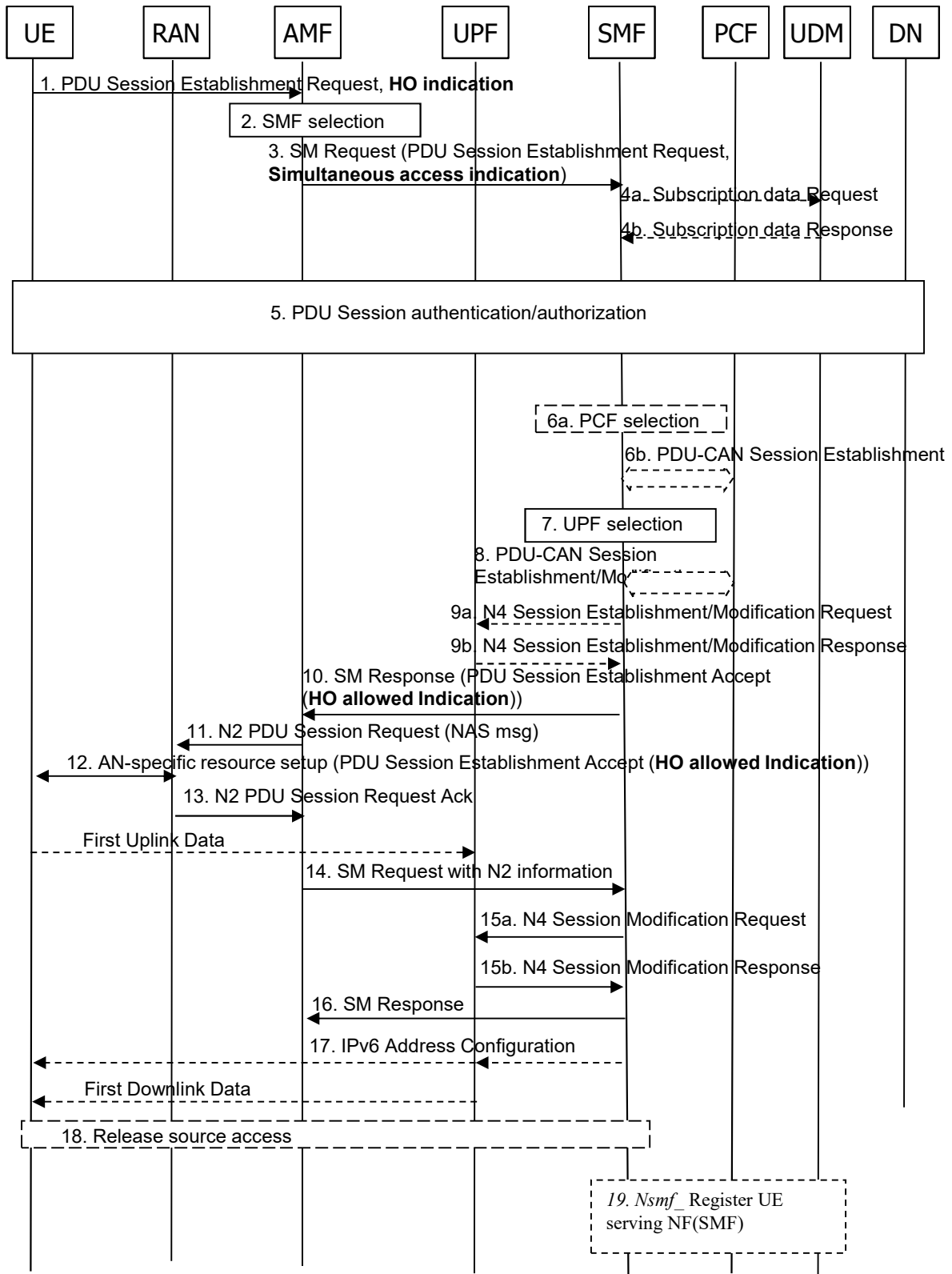


FIG. 16

