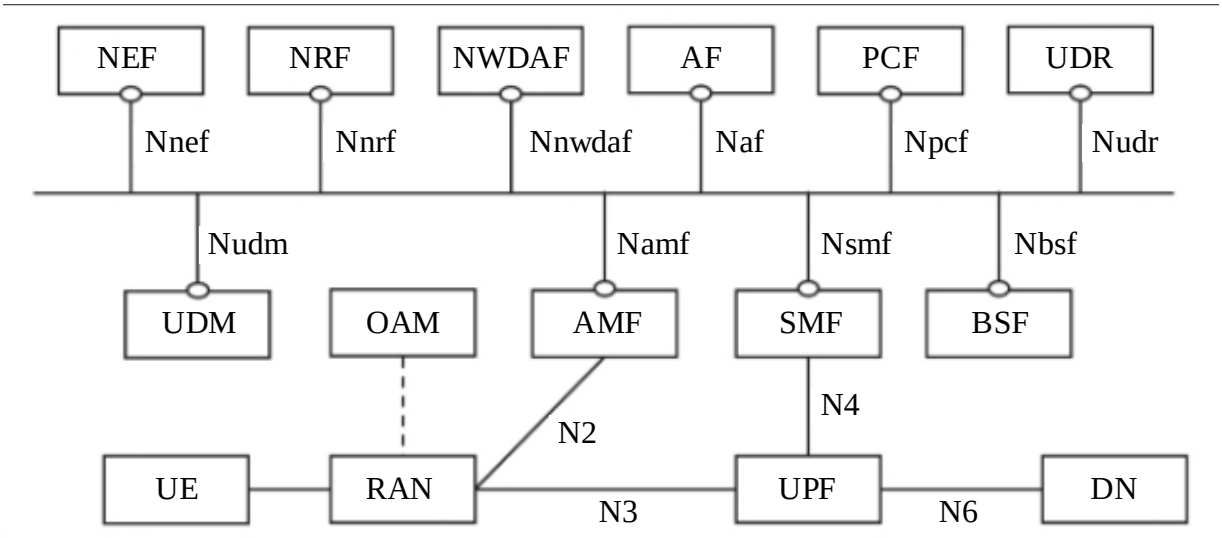


FIG. 1

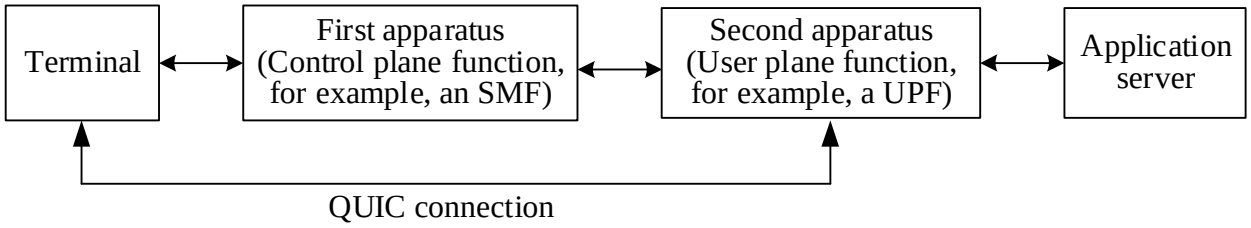


FIG. 2

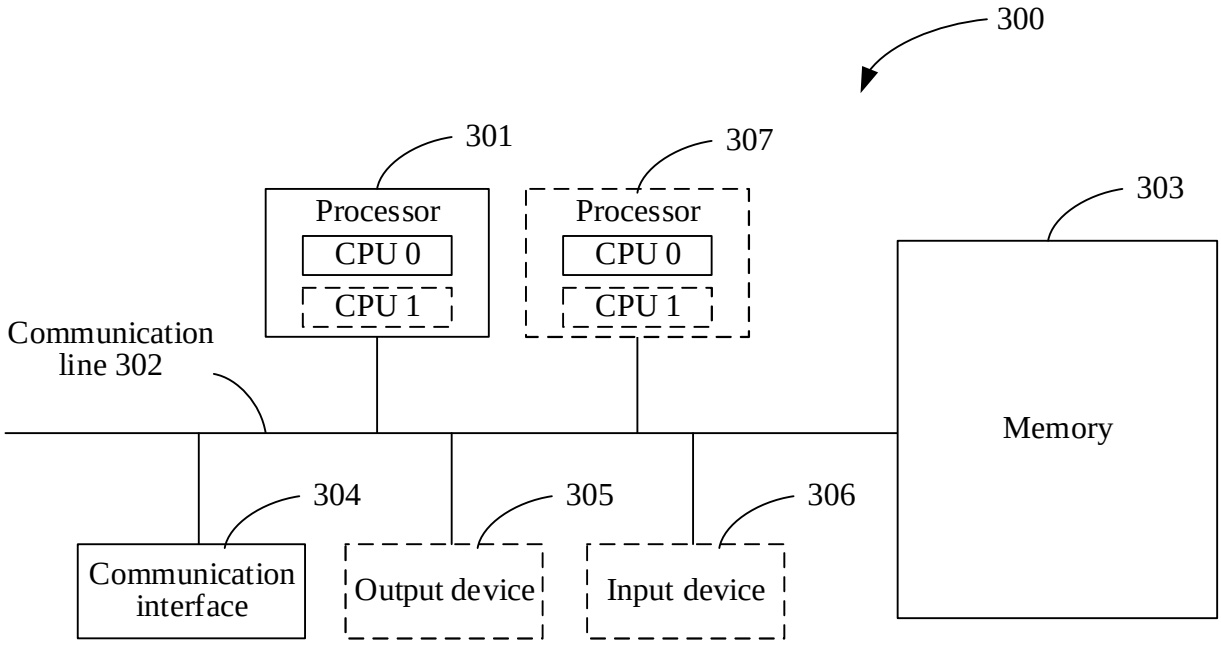


FIG. 3

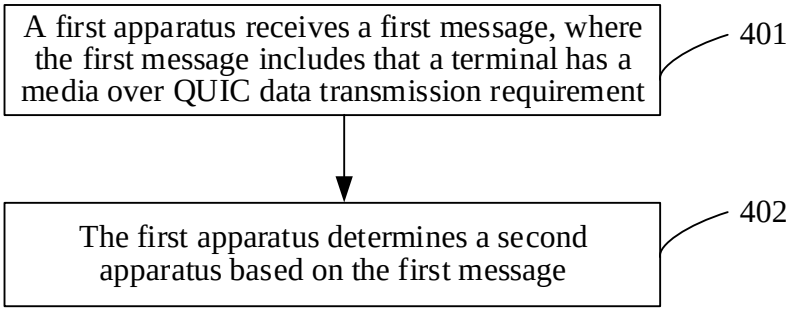

A first apparatus receives a first message, where the first message includes that a terminal has a media over QUIC data transmission requirement
401
The first apparatus determines a second apparatus based on the first message
402

FIG. 4

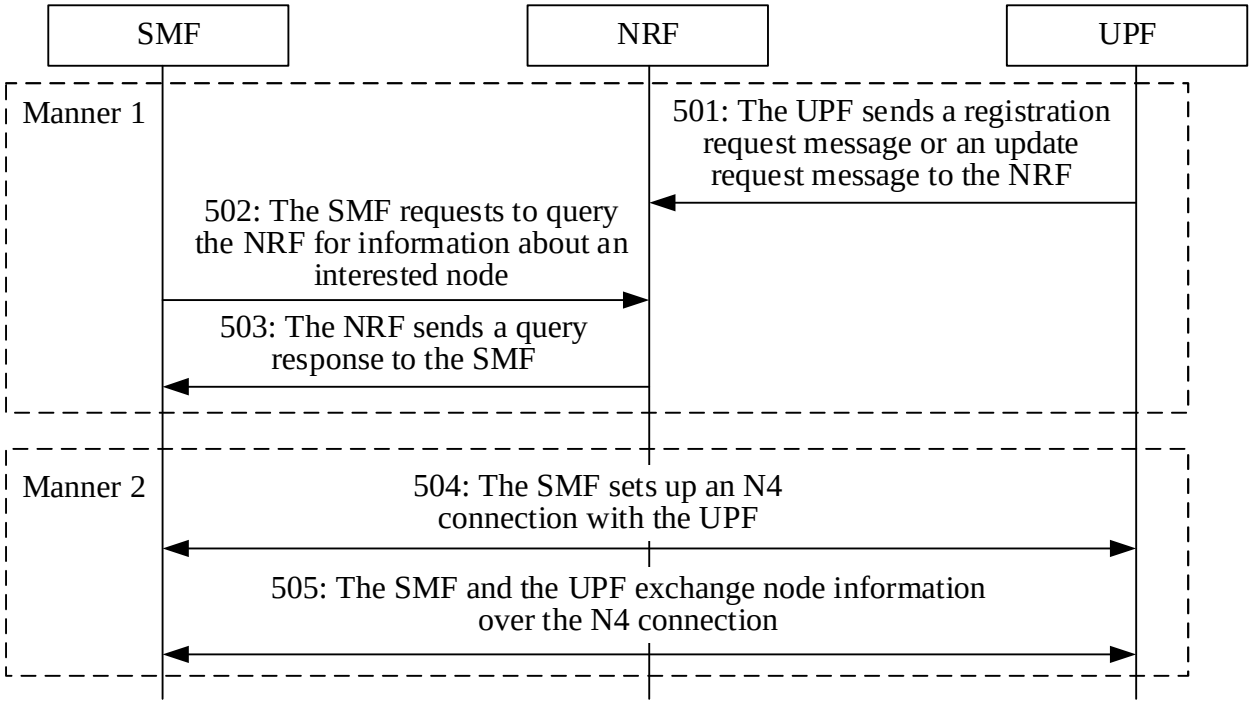

SMF
NRF
UPF
Manner 1
501: The UPF sends a registration request message or an update request message to the NRF
502: The SMF requests to query the NRF for information about an interested node
503: The NRF sends a query response to the SMF
Manner 2
504: The SMF sets up an N4 connection with the UPF
505: The SMF and the UPF exchange node information over the N4 connection

FIG. 5

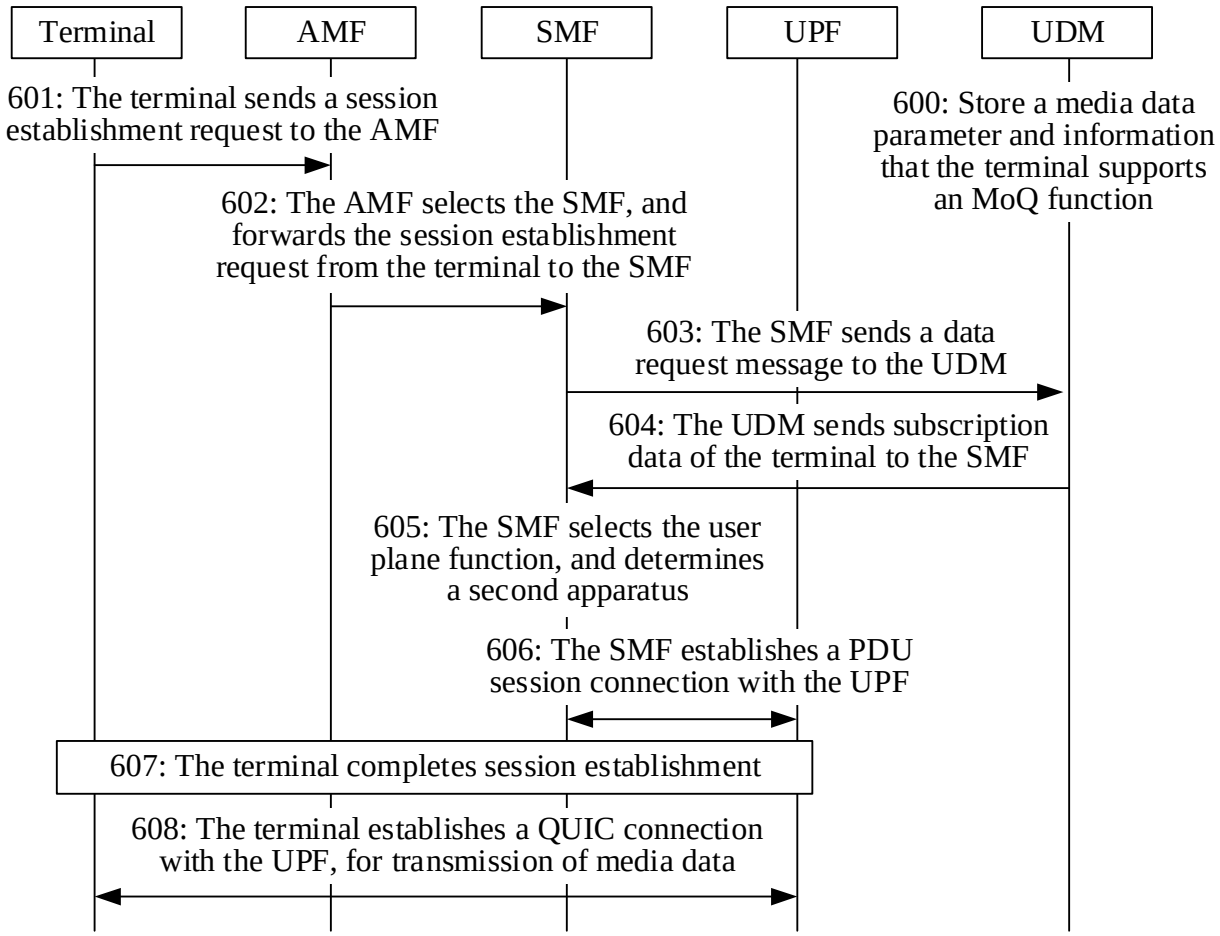

Terminal
AMF
SMF
UPF
UDM
601: The terminal sends a session establishment request to the AMF
600: Store a media data parameter and information that the terminal supports an MoQ function
602: The AMF selects the SMF, and forwards the session establishment request from the terminal to the SMF
603: The SMF sends a data request message to the UDM
604: The UDM sends subscription data of the terminal to the SMF
605: The SMF selects the user plane function, and determines a second apparatus
606: The SMF establishes a PDU session connection with the UPF
607: The terminal completes session establishment
608: The terminal establishes a QUIC connection with the UPF, for transmission of media data

FIG. 6

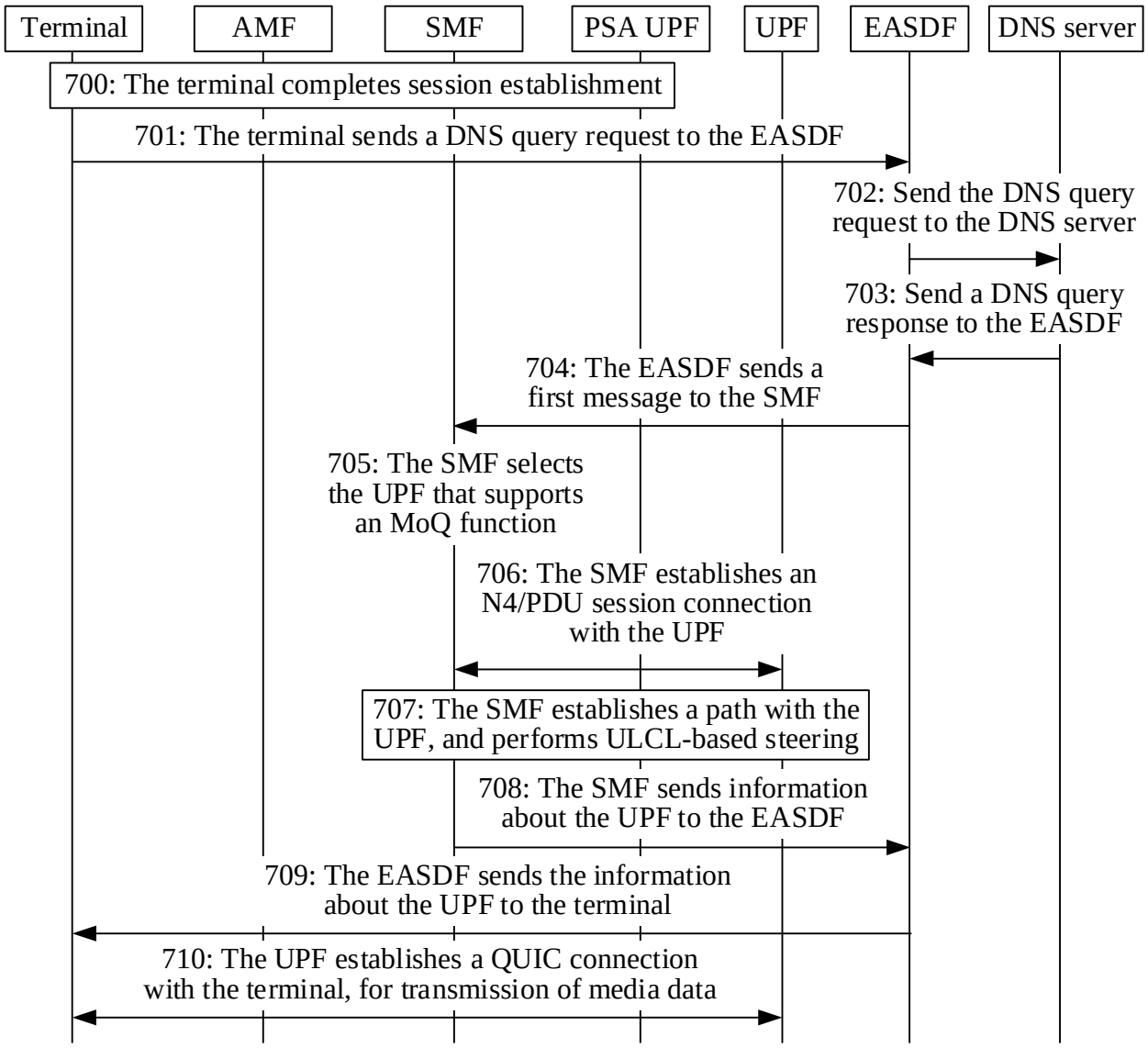

Terminal
AMF
SMF
PSA UPF
UPF
EASDF
DNS server
700: The terminal completes session establishment
701: The terminal sends a DNS query request to the EASDF
702: Send the DNS query request to the DNS server
703: Send a DNS query response to the EASDF
704: The EASDF sends a first message to the SMF
705: The SMF selects the UPF that supports an MoQ function
706: The SMF establishes an N4/PDU session connection with the UPF
707: The SMF establishes a path with the UPF, and performs ULCL-based steering
708: The SMF sends information about the UPF to the EASDF
709: The EASDF sends the information about the UPF to the terminal
710: The UPF establishes a QUIC connection with the terminal, for transmission of media data

FIG. 7

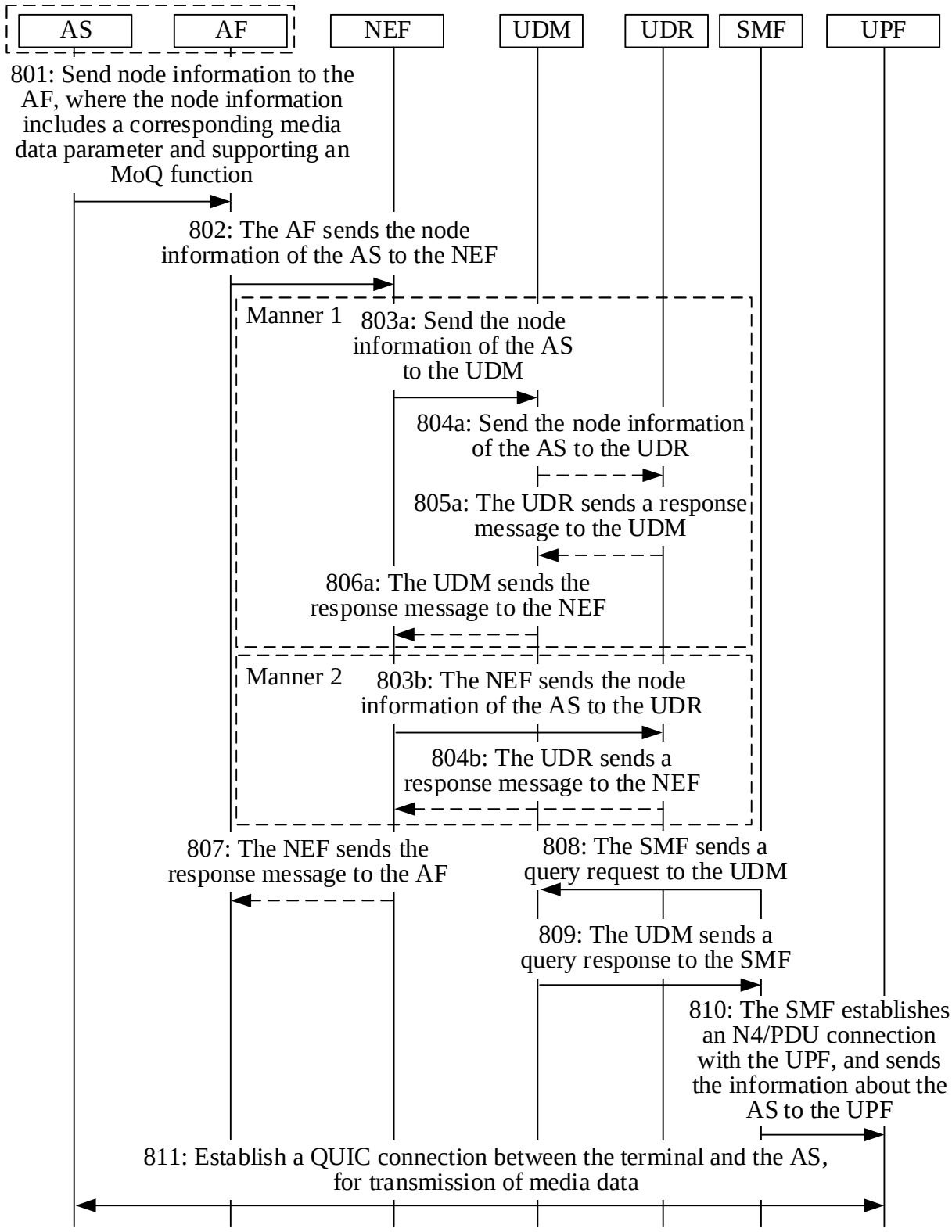

AS
AF
NEF
UDM
UDR
SMF
UPF
801: Send node information to the AF, where the node information includes a corresponding media data parameter and supporting an MoQ function
802: The AF sends the node information of the AS to the NEF
Manner 1
803a: Send the node information of the AS to the UDM
804a: Send the node information of the AS to the UDR
805a: The UDR sends a response message to the UDM
806a: The UDM sends the response message to the NEF
Manner 2
803b: The NEF sends the node information of the AS to the UDR
804b: The UDR sends a response message to the NEF
807: The NEF sends the response message to the AF
808: The SMF sends a query request to the UDM
809: The UDM sends a query response to the SMF
810: The SMF establishes an N4/PDU connection with the UPF, and sends the information about the AS to the UPF
811: Establish a QUIC connection between the terminal and the AS, for transmission of media data

FIG. 8

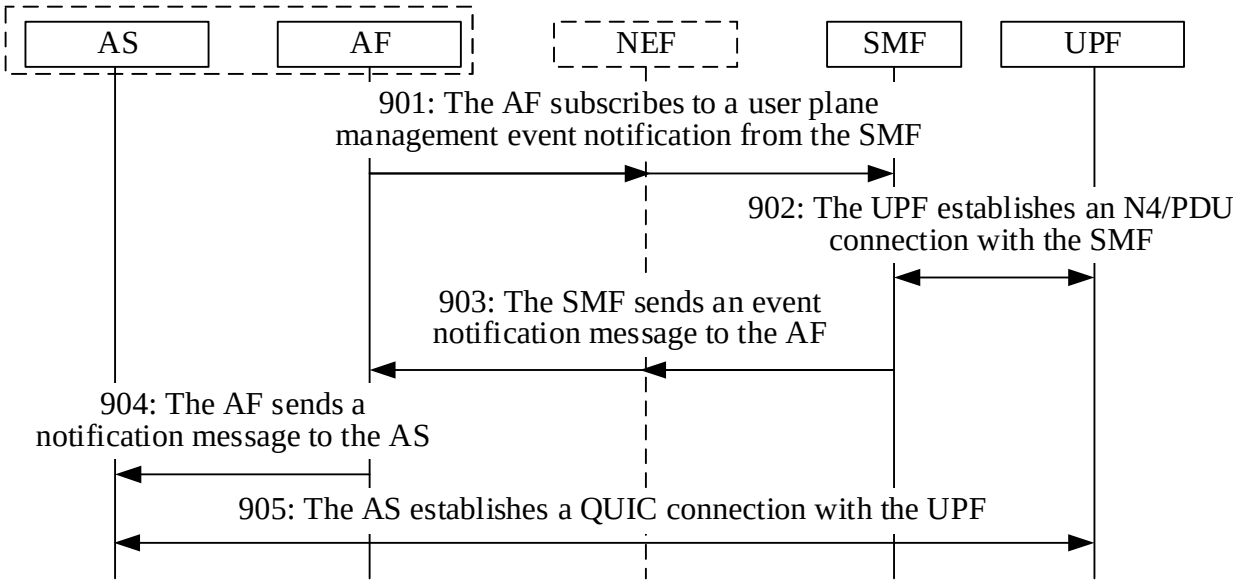

AS
AF
NEF
SMF
UPF
901: The AF subscribes to a user plane management event notification from the SMF
902: The UPF establishes an N4/PDU connection with the SMF
903: The SMF sends an event notification message to the AF
904: The AF sends a notification message to the AS
905: The AS establishes a QUIC connection with the UPF

FIG. 9

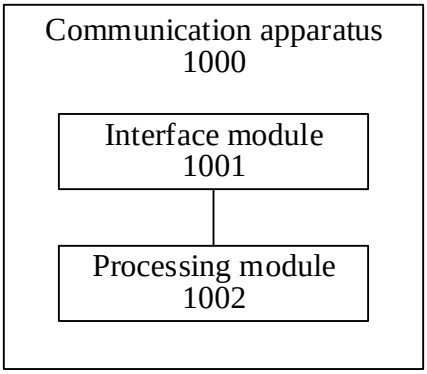

Communication apparatus 1000
Interface module 1001
Processing module 1002

FIG. 10