CLAIMS

1. A method of performing, by a Unified Data Management (UDM), procedure related to registration of an Access and Mobility Management Function (AMF) in a wireless communication system, the method comprising:

receiving, by the UDM and from a first AMF, a first message related to serving AMF registration of a user equipment (UE), the first message comprising access type information and identity (ID) information, wherein the access type information indicates one of 3rd Generation Partnership Project (3GPP) access or non-3GPP access; and

based on a determination, from the access type information and the ID information, that (i) a second AMF has been stored in the UDM as a serving AMF of the UE, and that (ii) the second AMF corresponds to a 3GPP access type of the first AMF:

transmitting, by the UDM and to the second AMF, a second message related to deregistration.

2. The method according to claim 1, further comprising:

storing, by the UDM in at least one computer memory, the access type information and the ID information.

3. The method according to claim 1, further comprising:

receiving, by the UDM and from a Network Function (NF) that is an AMF, a third message related to deletion of information related to the NF from a UE context, wherein the third message comprises the access type information.

4. The method according to claim 1, wherein transmitting, by the UDM to the second AMF, the second message related to deregistration comprises:

based on the deregistration being a result of a subscription withdrawal, transmitting the second message which comprises (i) the access type information, and (ii) an indication of “Subscription Withdrawn.”

5. The method according to claim 1, further comprising:

based on the UDM receiving, from a Network Function (NF), a fourth message requesting serving AMF information, wherein the fourth message comprises the access type information:

transmitting, by the UDM and to the NF, the serving AMF information related to an access type indicated by the access type information.

6. The method according to claim 1, further comprising:

receiving, by UDM and from a Network Function (NF), a request to provide UE reachability information,

wherein the request to provide UE reachability information comprises the access type information.

7. The method according to claim 1, wherein, based on the UE performing a handover from a 5G system (5GS) to an Evolved Packet System (EPS), a cancel location operation is performed by the UDM and a Home Subscriber Server (HSS) for the second AMF which corresponds to the 3GPP access type.

8. The method according to claim 1, wherein, based on the UE changing from a 5GS to an EPS in an idle mode, a cancel location operation is performed by the UDM for the second AMF which corresponds to the 3GPP access type.

9. A Unified Data Management (UDM) apparatus configured to perform a procedure related to registration of an Access and Mobility Management Function (AMF) in a wireless communication system, the UDM apparatus comprising:

a transceiver;

at least one processor; and

at least one computer memory operably connectable to the at least one processor and storing instructions that, when executed, cause the at least one processor to perform operations comprising:

receiving, from a first AMF, a first message related to serving AMF registration of a user equipment (UE), the first message comprising access type information and identity (ID) information, wherein the access type information indicates one of 3rd Generation Partnership Project (3GPP) access or non-3GPP access; and

based on a determination, from the access type information and the ID information, that (i) a second AMF has been stored in the UDM apparatus as a serving AMF of the UE, and that (ii) the second AMF corresponds to a 3GPP access type of the first AMF:

transmitting, to the second AMF, a second message related to deregistration.

10. The UDM apparatus according to claim 9, wherein the operations further comprise:

storing, in at least one computer memory, the access type information and the ID information.

11. The UDM apparatus according to claim 9, wherein the operations further comprise:

receiving, from a Network Function (NF) that is an AMF, a third message related to deletion of information related to the NF from a UE context, wherein the third message comprises the access type information.

12. The UDM apparatus according to claim 9, wherein transmitting, to the second AMF, the second message related to deregistration comprises:

based on the deregistration being a result of a subscription withdrawal, transmitting the second message which comprises (i) the access type information, and (ii) an indication of “Subscription Withdrawn.”

13. The UDM apparatus according to claim 9, wherein the operations further comprise:

based on receiving, from a Network Function (NF), a fourth message requesting serving AMF information, wherein the fourth message comprises the access type information:

transmitting, to the NF, the serving AMF information related to an access type indicated by the access type information.

14. The method according to claim 1, wherein the ID information comprises information regarding a Subscription Permanent Identifier (SUPI) of the UE.

15. The UDM apparatus according to claim 9, wherein the ID information comprises information regarding a Subscription Permanent Identifier (SUPI) of the UE.