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(54) **METHOD TO AUTHENTICATE WITH A MOBILE COMMUNICATION NETWORK**

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#### ABSTRACT

Apparatuses, methods, and systems are disclosed for authenticating with a mobile communication network. One apparatus includes a memory comprising instructions executable by a processor to cause the apparatus to receive, from a remote unit, a first request to start authentication via a non-3GPP access network and to send, to the remote unit, an EAP-Start packet to initiate an EAP-5G session between the apparatus and the remote unit for exchanging NAS messages between the remote unit and an AMF via the apparatus. Here, the EAP-5G session utilizes EAP-5G packets having an expanded EAP type and a 3GPP vendor ID, the NAS messages being encapsulated within the EAP-5G packets. The apparatus further receives, from the remote unit, an EAP-5G response packet including a NAS request message and a first set of AN-Params including a PLMN ID of the mobile communication network and NSSAI.

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