

CLAIMS

WHAT IS CLAIMED IS

1. A user equipment, ~~comprising:~~
~~at least one processor; and~~
~~at least one memory including computer program code, the at least one memory~~
~~and the computer program code configured to, with the at least one processor, cause the~~
~~user equipment at least to:~~

perform a domain name system query using an input fully qualified domain name, said input fully qualified domain name ~~comprising containing~~ a mobile country code of a visited country ~~in which~~ the user equipment is located ~~in~~; ~~and~~
~~receiveget~~, in a response to said domain name system query, a list of one or more output fully qualified domain names that each contains ~~an identity, a~~ mobile country code, and ~~a~~ mobile network code, of a local public land mobile network of said visited country; ~~and~~
select an evolved packet data gateway operated by one of the local public land mobile networks of the list if the one of the public land mobile networks of the list is configured in evolved packet data gateway selection information.
2. The user equipment ~~of according to~~ claim 1, wherein said input fully qualified domain name has the form "mcc<MCC>.local-plmn.pub.3gppnetwork.org".
3. The user equipment ~~of according to~~ claim 1 or 2, wherein said output fully qualified domain name has the form "mnc<MNC>.mcc<MCC>.local-plmn.pub.3gppnetwork.org".
4. The user equipment ~~of according to any one of claims 1 to 3~~, wherein: ~~a mobile country code in said output fully qualified domain name is, in an instance in which case~~ multiple mobile country ~~codes code values~~ correspond to the visited country, a mobile country code value in the output fully qualified domain name can have a value different from of the mobile country code value in the input fully qualified domain name.
5. The user equipment ~~of according to any one of claims 1 to 4~~, wherein the ~~at least one memory and the computer program code are further configured to, with the at least one processor, cause the~~ user equipment at least is configured to:

select the evolved packet data gateway that is operated by one of said local public land mobile networks if in an instance in which said user equipment is required to select an evolved packet data gateway in the country in which said the user equipment is located,
~~select an evolved packet data gateway that is operated by one of said public land mobile networks.~~

6. ~~————~~ The user equipment of claim 5, wherein the at least one memory and the computer program code are further configured to, with the at least one processor, cause the user equipment at least to:

~~determine said evolved packet data gateway is being operated by said one of said public land mobile networks.~~

7. ~~————~~ The user equipment of claim 6, wherein the at least one memory and the computer program code are further configured to, with the at least one processor, cause the user equipment at least to:

~~cause establishment of an internet protocol security tunnel between said user equipment and the selected evolved packet data gateway that is operated by said one of said public land mobile networks.~~

8. ~~————~~ The user equipment of claim 1, wherein said list is a second list, and wherein the at least one memory and the computer program code are further configured to, with the at least one processor, cause the user equipment to at least to:

~~compare said second list and a first list of public land mobile networks having roaming agreements with a home public land mobile network of said user equipment for untrusted wireless local area network access; and~~

~~in an instance in which one of said public land mobile networks is on both said first list and said second list, select said one of said public land mobile networks.~~

9. ~~————~~ The user equipment of claim 8, wherein the at least one memory and the computer program code are further configured to, with the at least one processor, cause the user equipment at least to:

~~identify an evolved packet data gateway to which to establish an internet protocol security tunnel between the user equipment and the evolved packet data gateway, wherein the evolved packet data gateway is operated by said one of said public land mobile networks.~~

106. A method of operating a user equipment, the method comprising:

performing a domain name system query using an input fully qualified domain name, said input fully qualified domain name ~~comprising-containing~~ a mobile country code of a visited country ~~in which~~ the user equipment is located ~~in~~; and

~~receivinggetting~~, in a response to said domain name system query, a list of one or more output fully qualified domain names that each contains ~~an identity~~, a mobile country code, and a mobile network code of a local public land mobile network of said visited country, and

selecting an evolved packet data gateway operated by one of the local public land mobile networks of the list if the one of the public land mobile networks of the list is configured in evolved packet data gateway selection information.

~~117.~~ The method ~~of-according to~~ claim ~~106~~, wherein said input fully qualified domain name has the form "mcc<MCC>.local-plmn.pub.3gppnetwork.org".

~~128.~~ The method ~~of-according to~~ claim ~~106 or 7~~, wherein said output fully qualified domain name has the form "mnc<MNC>.mcc<MCC>.local-plmn.pub.3gppnetwork.org".

~~139.~~ The method ~~of-according to any one of~~ claims ~~106 to 8~~, wherein: in case multiple mobile country code values correspond to the visited country, a mobile country code value in said-the output fully qualified domain name is, in an instance in which multiple mobile country codes correspond to the visited country, can have a value different from-of the mobile country code value in the input fully qualified domain name.

~~1410.~~ The method ~~of-according to any one of~~ claims ~~106 to 9~~, further ~~comprisingwherein~~: selecting the evolved packet data gateway that is operated by one of said local public land mobile networks in an instance in whichis performed if the said-user equipment is required to select an evolved packet data gateway in the country in-which-saidthe user equipment is located in, selecting an evolved packet data gateway that is operated by one of said public land mobile networks.

~~15.~~ The method of claim 14, further comprising: ~~determining said evolved packet data gateway is being operated by said one of said public land mobile networks.~~

~~16.~~ The method of claim 15, further comprising:

~~causing establishment of an internet protocol security tunnel between said user equipment and the selected evolved packet data gateway that is operated by said one of said public land mobile networks.~~

~~17.——The method of claim 10, wherein said list is a second list, the method further comprising:~~

~~comparing said second list to a first list of public land mobile networks having roaming agreements with a home public land mobile network of said user equipment for untrusted wireless local area network access; and~~

~~in an instance in which one of said public land mobile networks is on both said first list and said second list, selecting said one of said public land mobile networks.~~

~~18.——The method of claim 17, further comprising:~~

~~identifying an evolved packet data gateway to which to establish an internet protocol security tunnel between the user equipment and the evolved packet data gateway, wherein the evolved packet data gateway is operated by said one of said public land mobile networks.~~

~~1911. A computer program product comprising a non-transitory computer-readable medium storing instructions, said instructions configured, upon execution, to cause a user equipment to at least carry out the steps of a method according to one of claims 6 to 10.~~

~~perform a domain name system query using an input fully qualified domain name, said input fully qualified domain name comprising a mobile country code of a visited country in which a user equipment is located; and~~

~~receive, in a response to said domain name system query, a list of one or more output fully qualified domain names that each contain an identity, a mobile country code, and a mobile network code of a public land mobile network of said visited country.~~

~~20.——The computer program product of claim 19, wherein said input fully qualified domain name has the form "mcc<MCC>.local-plmn.pub.3gppnetwork.org".~~

~~21.——The computer program product of claim 19, wherein said output fully qualified domain name has the form "mnc<MNC>.mcc<MCC>.local-plmn.pub.3gppnetwork.org".~~

~~22.——The computer program product of claim 19, wherein a mobile country code in said output fully qualified domain name is, in an instance in which multiple mobile~~

~~country codes correspond to the visited country, different from the mobile country code in the input fully qualified domain name.~~

~~23.——The computer program product of claim 19, wherein said instructions are further configured, upon execution, to cause the user equipment to at least:~~

~~in an instance in which said user equipment is required to select an evolved packet data gateway in the country in which said user equipment is located, select an evolved packet data gateway that is operated by one of said public land mobile networks.~~

~~24.——The computer program product of claim 23, wherein said instructions are further configured, upon execution, to cause the user equipment to at least:~~

~~determine said evolved packet data gateway is being operated by said one of said public land mobile networks.~~

~~25.——The computer program product of claim 24, wherein said instructions are further configured, upon execution, to cause the user equipment to at least:~~

~~cause establishment of an internet protocol security tunnel between said user equipment and the selected evolved packet data gateway that is operated by said one of said public land mobile networks.~~

~~26.——The computer program product of claim 19, wherein said list is a second list, and wherein said instructions are further configured, upon execution, to cause the user equipment to at least:~~

~~compare said second list and a first list of public land mobile networks having roaming agreements with a home public land mobile network of said user equipment for untrusted wireless local area network access; and~~

~~in an instance in which one of said public land mobile networks is on both said first list and said second list, select said one of said public land mobile networks.~~

~~27.——The user equipment of claim 26, wherein said instructions are further configured, upon execution, to cause the user equipment to at least:~~

~~identify an evolved packet data gateway to which to establish an internet protocol security tunnel between the user equipment and the evolved packet data gateway, wherein the evolved packet data gateway is operated by said one of said public land mobile networks.~~