

Embodiments and/or aspects of the invention related to these different alternatives may further be described in the following way.

When a WLAN capable UE can determine the country it is located in and either the UE is attempting to make an emergency call via WiFi or the UE has received instructions that in the country where it is currently camping it shall only use ePDG that are located in the country, and if the UE is not attached via 3GPP access to a 3GPP PLMN (or if the UE has failed to be served by an ePDG of the RPLMN that serves it over 3GPP access), the UE selects an ePDG in a PLMN in this country as follows:

As a first alternative:

- 1) As a first aspect of the invention, in some embodiments, this alternative assumes that the attribute of each PLMN in the ePDG selection info specified in TS 23.402 (§4.5.4.3) "mandatory", "preferred" is enhanced with the value "not preferred". A "not preferred" PLMN configured in the ePDG selection information is a PLMN for which the selection of an ePDG in the VPLMN is allowed (if the UE is required to select a local ePDG) but for which the selection of an ePDG in the HPLMN is preferred (if the UE is not required to select a local ePDG).
- 2) The UE detects the country it is located in and determines one of the MCCs of the country (a country may have several MCCs
https://fr.wikipedia.org/wiki/Mobile_country_code);
- 3) As a second aspect of the invention, in some embodiments, the UE optionally (e.g. if it does not know the list of MCCs of the country) tries to get a list of local PLMN's (i.e. a list of PLMNs in the country the UE is located in) by performing a DNS query on an input FQDN containing "mcc<MCC>" to a public NAPTR DNS server that returns a list of FQDN that each contains a "mnc<MNC>.mcc<MCC>" of a local PLMN; The domain of the input FQDN does not correspond to an individual operator as the corresponding DNS record is likely not to be managed by an individual operator (could be managed by GSMA)
- 4) The UE attempts to establish an IPsec tunnel per TS 24.302 subclause 7 to an ePDG that is operated by any PLMN in the above list only if the local PLMN is configured in the ePDG selection Info (since ePDG roaming is "guaranteed" with the PLMN's in ePDG selection info);