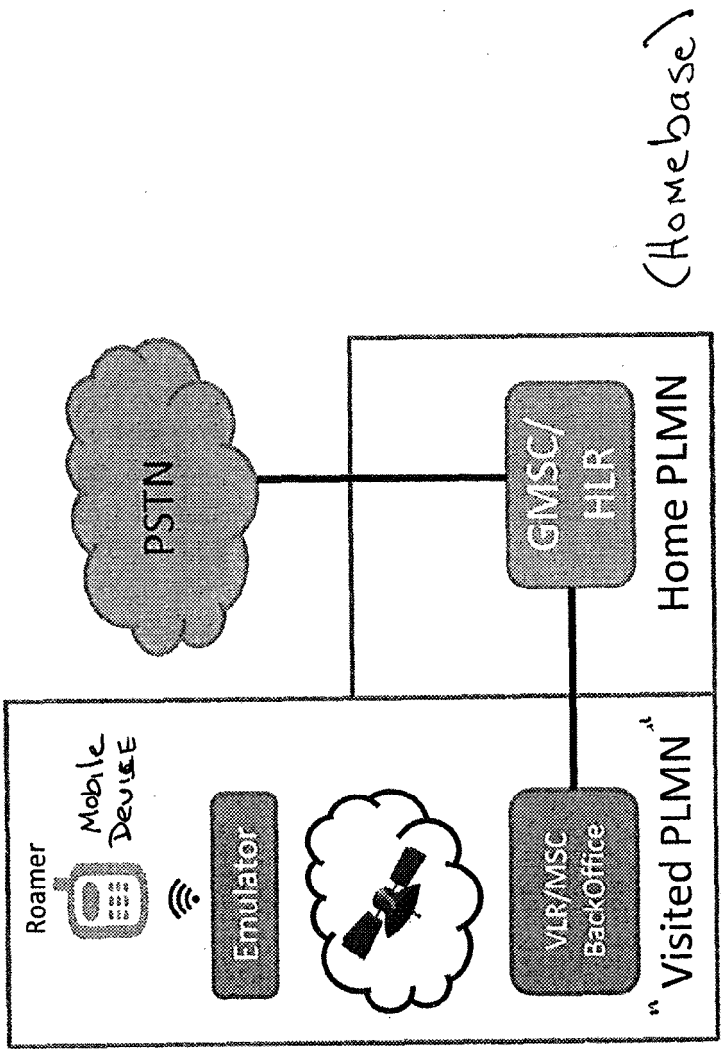
(Homebase)
PSTN
GMSC/
HLR
Home PLMN
Roamer
Mobile
Device
Emulator
VLR/MSC
BackOffice
Visited PLMN

FIG 1

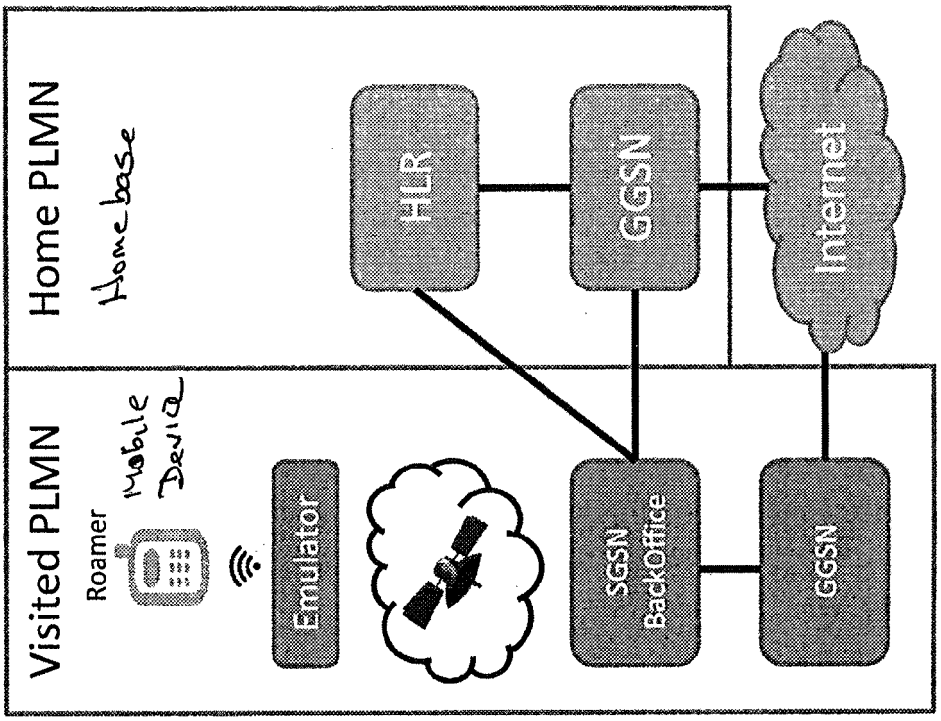
Visited PLMN
Roamer
Mobile Device
Emulator
Home PLMN
Homebase
HLR
GGSN
Internet
SGSN
BackOffice
GGSN

FIG 2

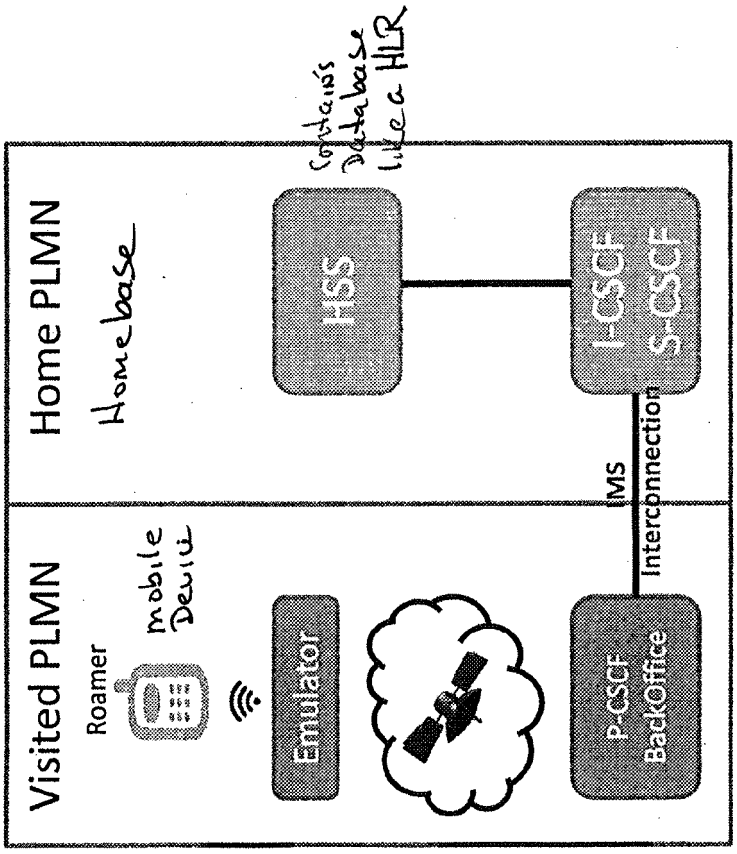
Visited PLMN
Roamer
Mobile Device
Emulator
Home PLMN
Homebase
Contains Database like HLR
HSS
I-CSCF
S-CSCF
IMS
Interconnection
P-CSCF
BackOffice

FIG 3

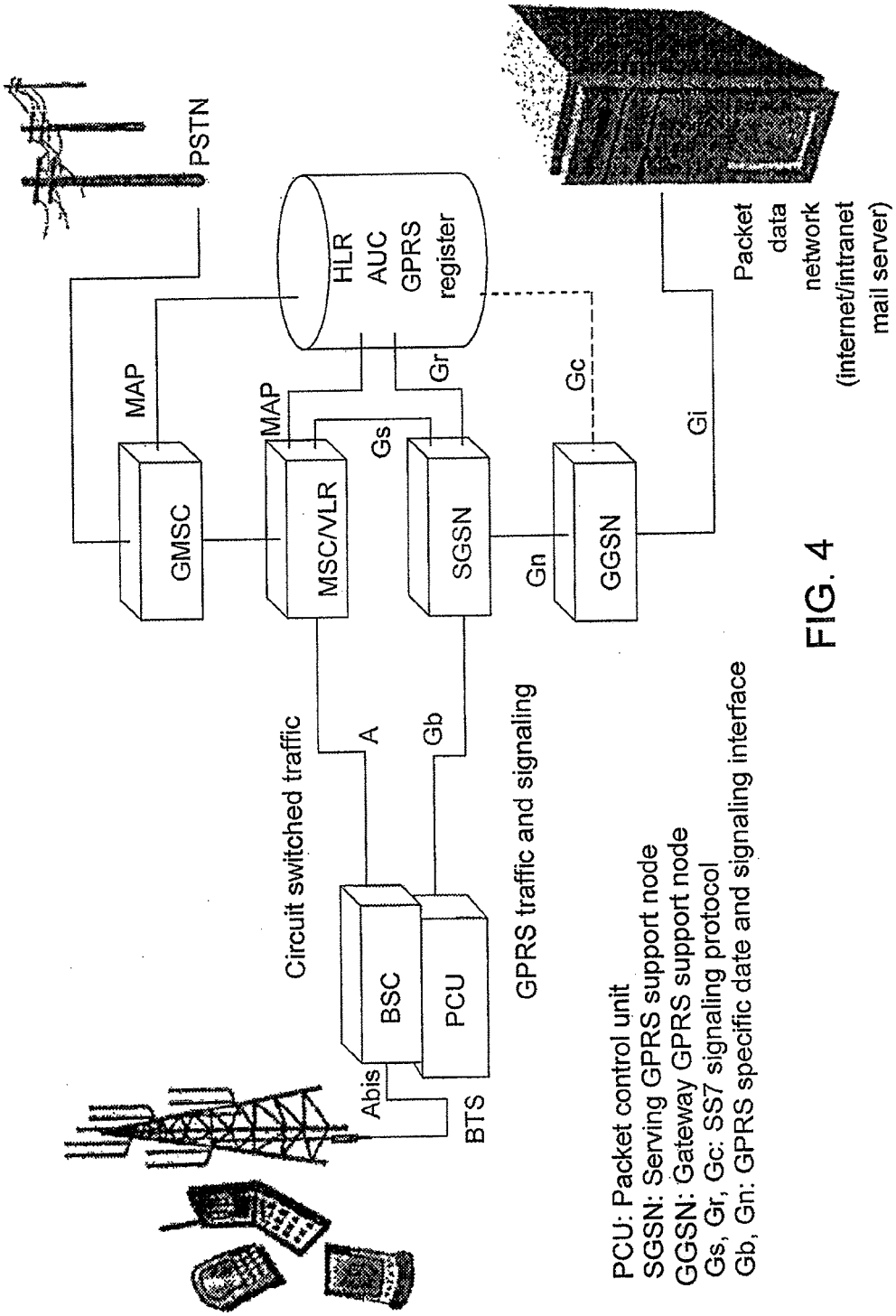
PSTN
HLR
AUC
GPRS
register
Packet
data
network
(internet/intranet
mail server)
MAP
MAP
Gr
Gc
Gs
Gi
GMSC
MSC/VLR
SGSN
GGSN
Gn
A
Gb
Circuit switched traffic
GPRS traffic and signaling
BSC
PCU
Abis
BTS
PCU: Packet control unit
SGSN: Serving GPRS support node
GGSN: Gateway GPRS support node
Gs, Gr, Gc: SS7 signaling protocol
Gb, Gn: GPRS specific date and signaling interface

FIG. 4