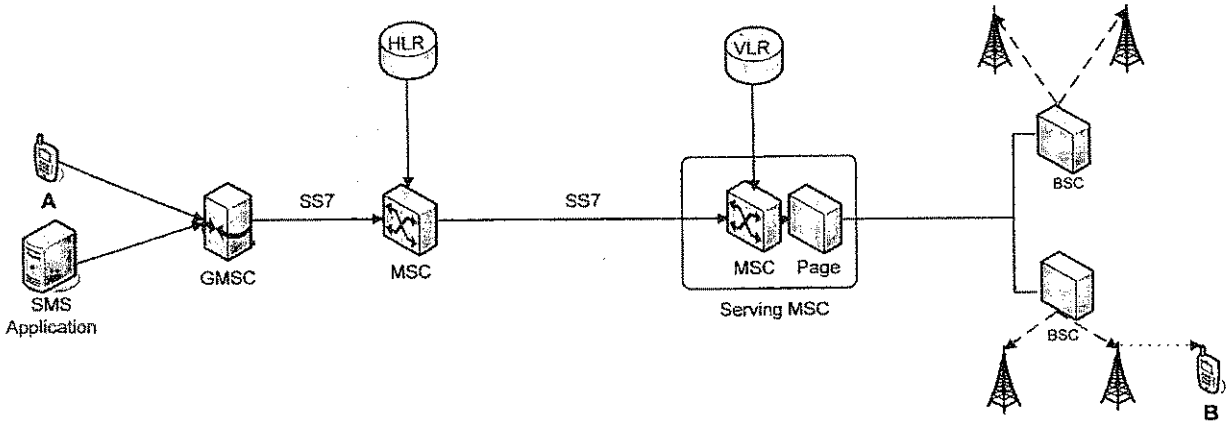

HLR
VLR
A
SS7
SS7
BSC
SMS
Application
GMSC
MSC
MSC
Page
Serving MSC
BSC
B

Fig. 1

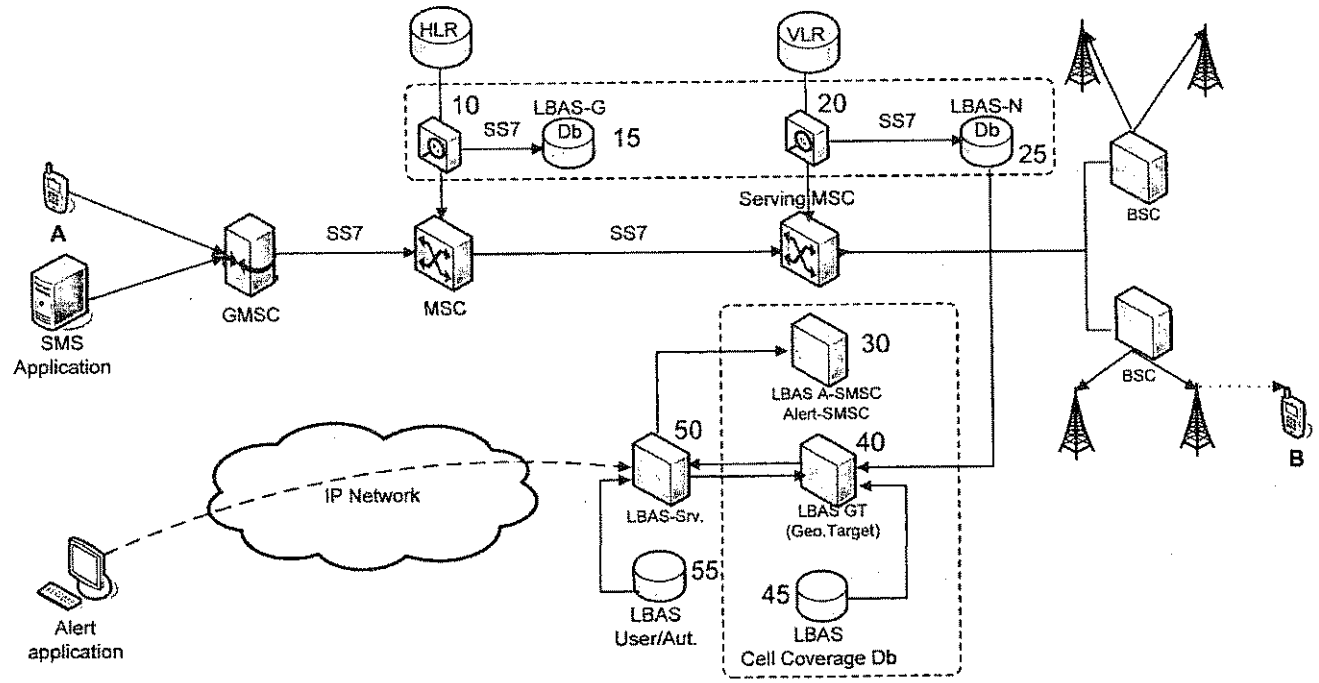

HLR
VLR
10
LBAS-G
SS7
Db
15
20
SS7
LBAS-N
Db
25
Serving MSC
BSC
A
SS7
SS7
SMS
Application
GMSC
MSC
30
LBAS A-SMSC
Alert-SMSC
BSC
50
40
IP Network
LBAS-Srv.
LBAS GT
(Geo.Target)
B
55
45
Alert
application
LBAS
User/Aut.
LBAS
Cell Coverage Db

Fig. 2

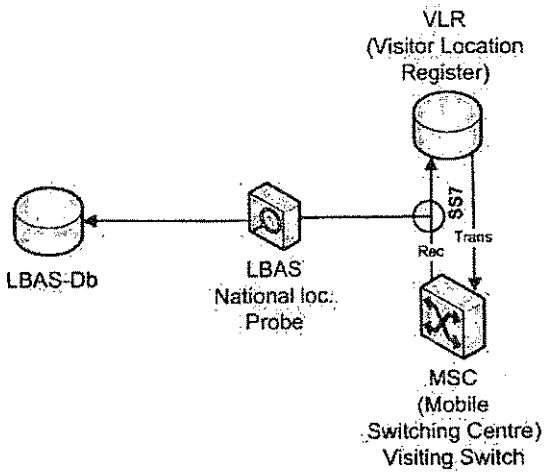


Fig. 3

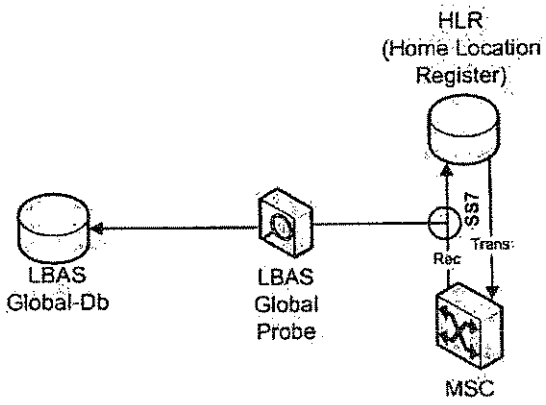


Fig. 4

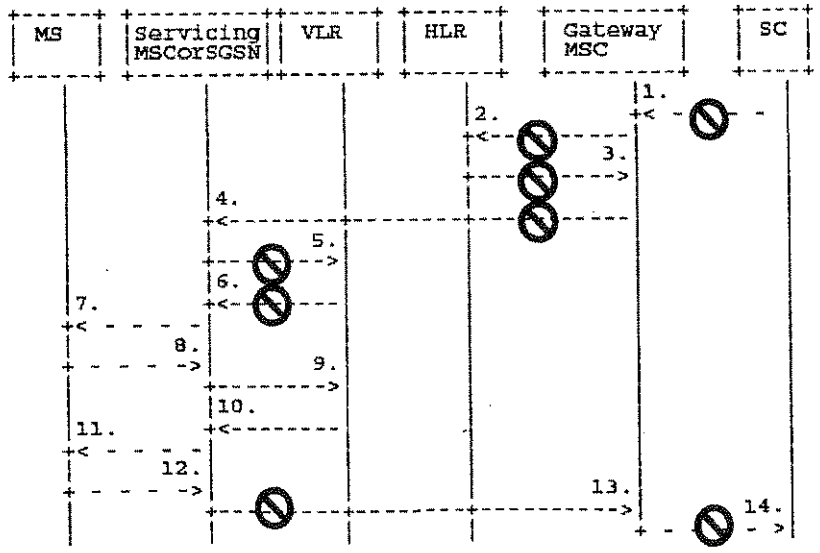


Fig. 5

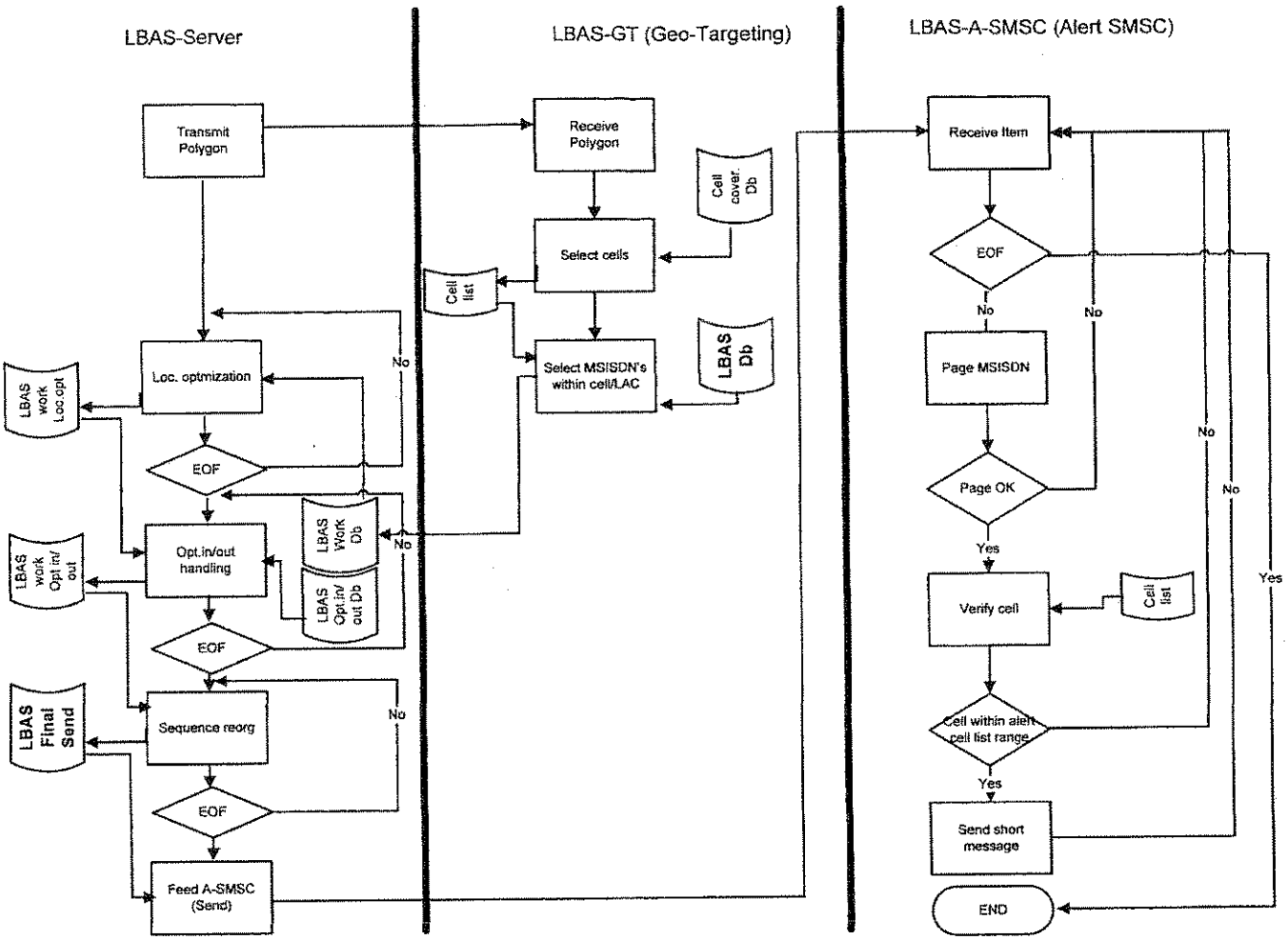

LBAS-Server
LBAS-GT (Geo-Targeting)
LBAS-A-SMSC (Alert SMSC)
Transmit Polygon
Receive Polygon
Cell cover. Db
Select cells
Cell list
Select MSISDN's within cell/LAC
LBAS Db
Receive Item
EOF
No
Page MSISDN
Page OK
Yes
Verify cell
Cell list
Cell within alert cell list range
Send short message
END
LBAS work Loc.opt
Loc. optmization
LBAS work Opt in/ out
Opt.in/out handling
LBAS Work Db
LBAS Opt.in/ out Db
LBAS Final Send
Sequence reorg
Feed A-SMSC (Send)

Fig. 6

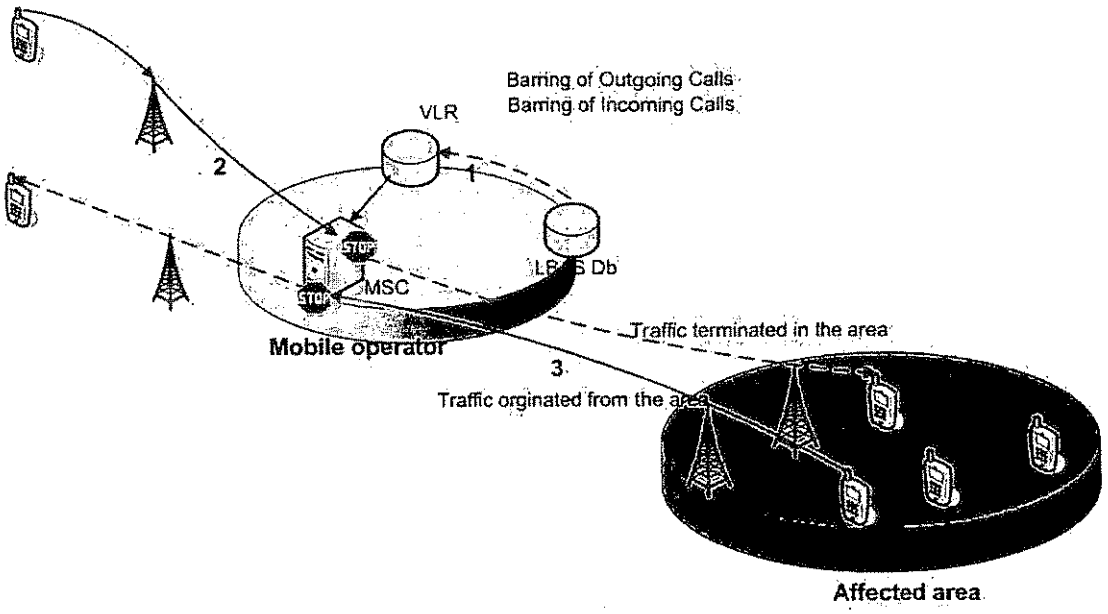

Barring of Outgoing Calls
Barring of Incoming Calls
VLR
2
1
MSC
Mobile operator
Traffic terminated in the area
3
Traffic orginated from the area
Affected area

Fig. 7

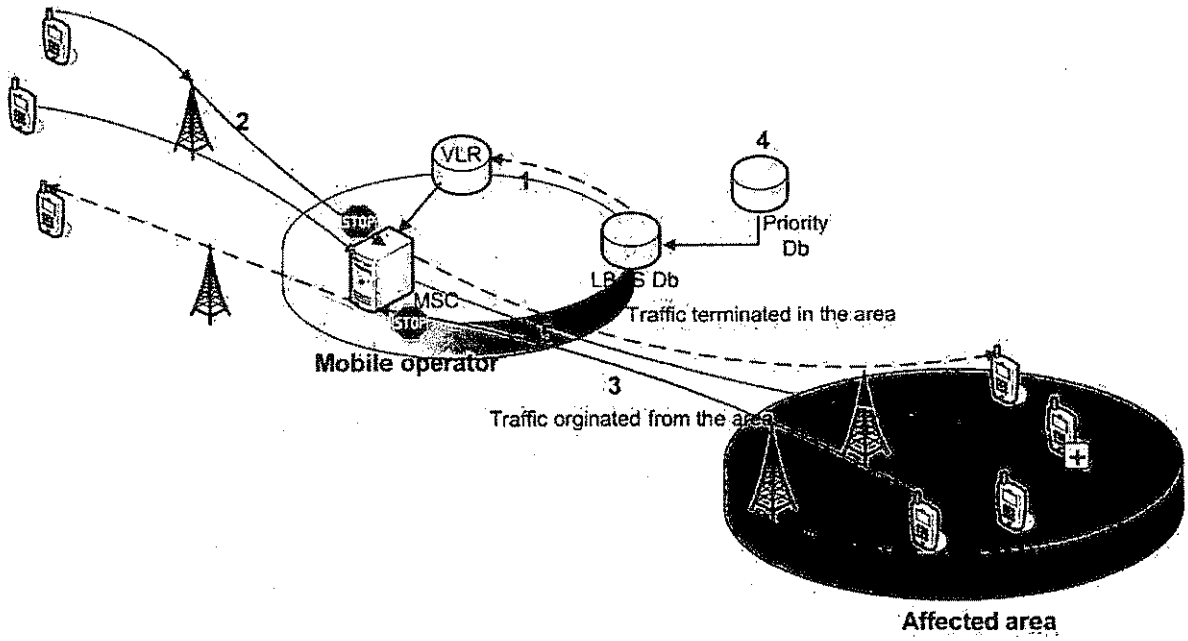

2
VLR
1
4
Priority
Db
MSC
Traffic terminated in the area
Mobile operator
3
Traffic orginated from the area
Affected area

Fig. 8