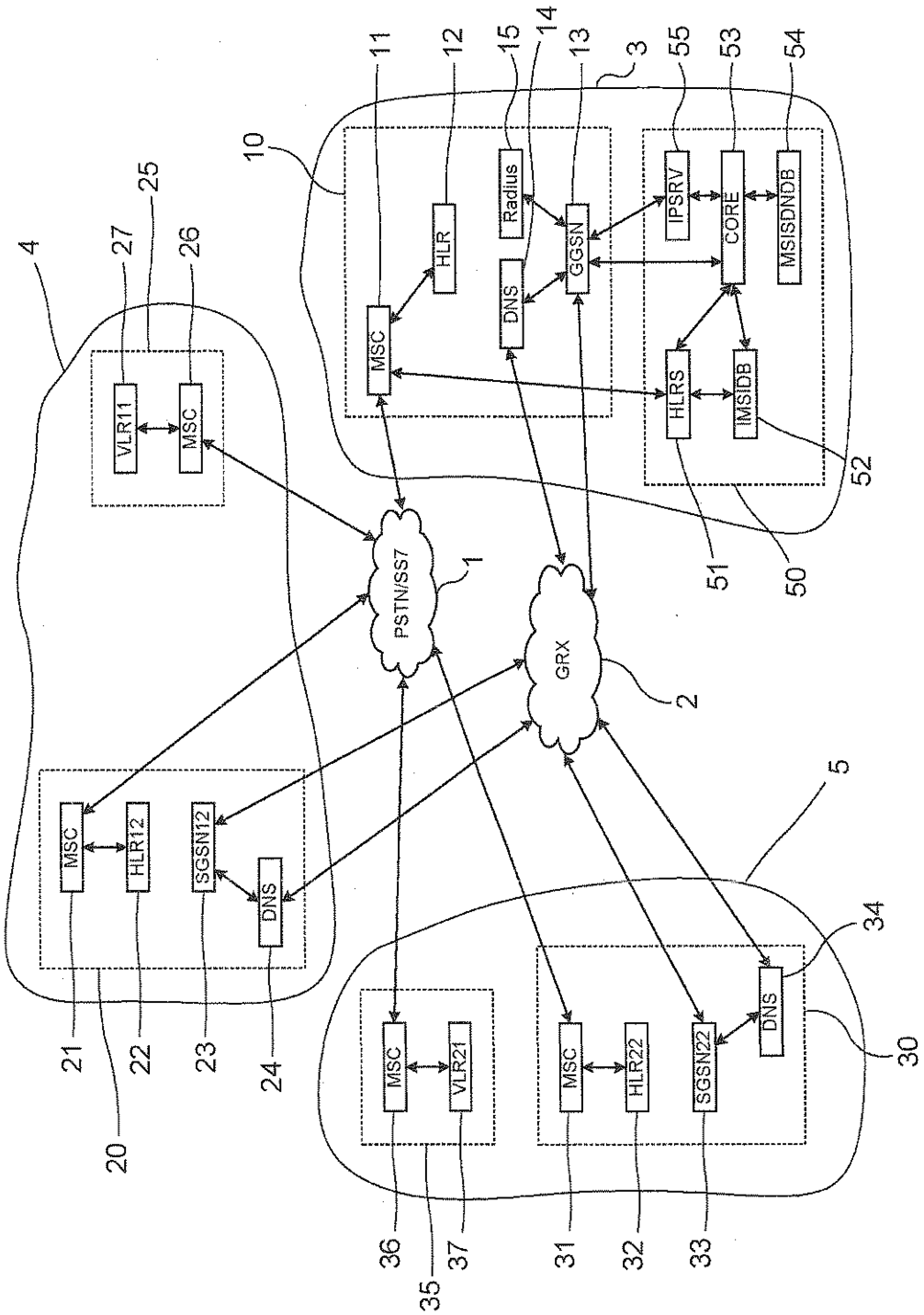
Fig. 1


PSTN/SS7
GRX
MSC
HLR
Radius
DNS
GGSN
IPSRV
CORE
MSISDNDB
HLRS
IMSIDB
VLR11
MSC
HLR12
SGSN12
DNS
MSC
VLR21
MSC
HLR22
SGSN22
DNS
1
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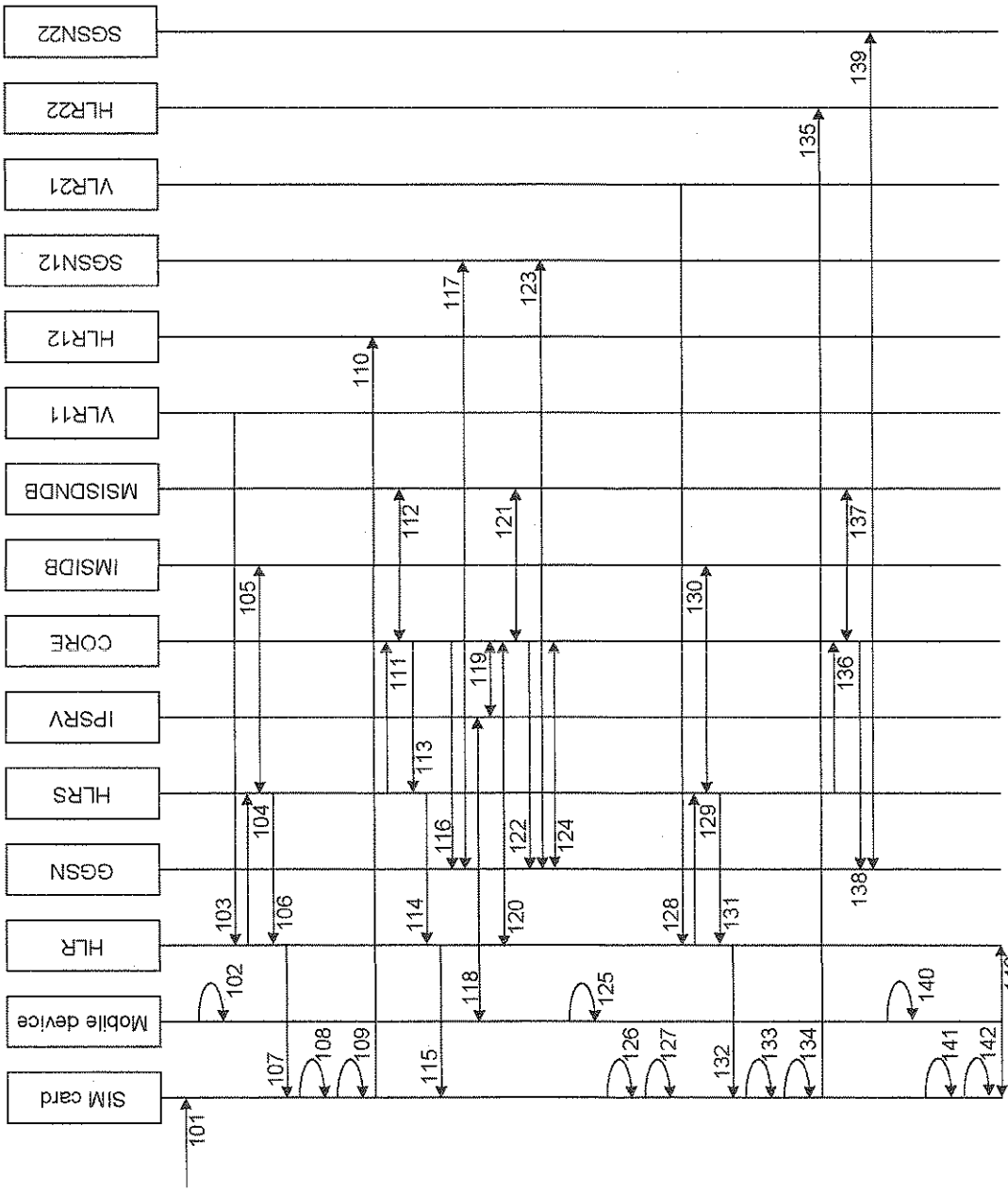

SIM card
Mobile device
HLR
GGSN
HLRS
IPSRV
CORE
IMSIDB
MSISDNDB
VLR11
HLR12
SGSN12
VLR21
HLR22
SGSN22
101
102
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Fig. 2

Fig. 3

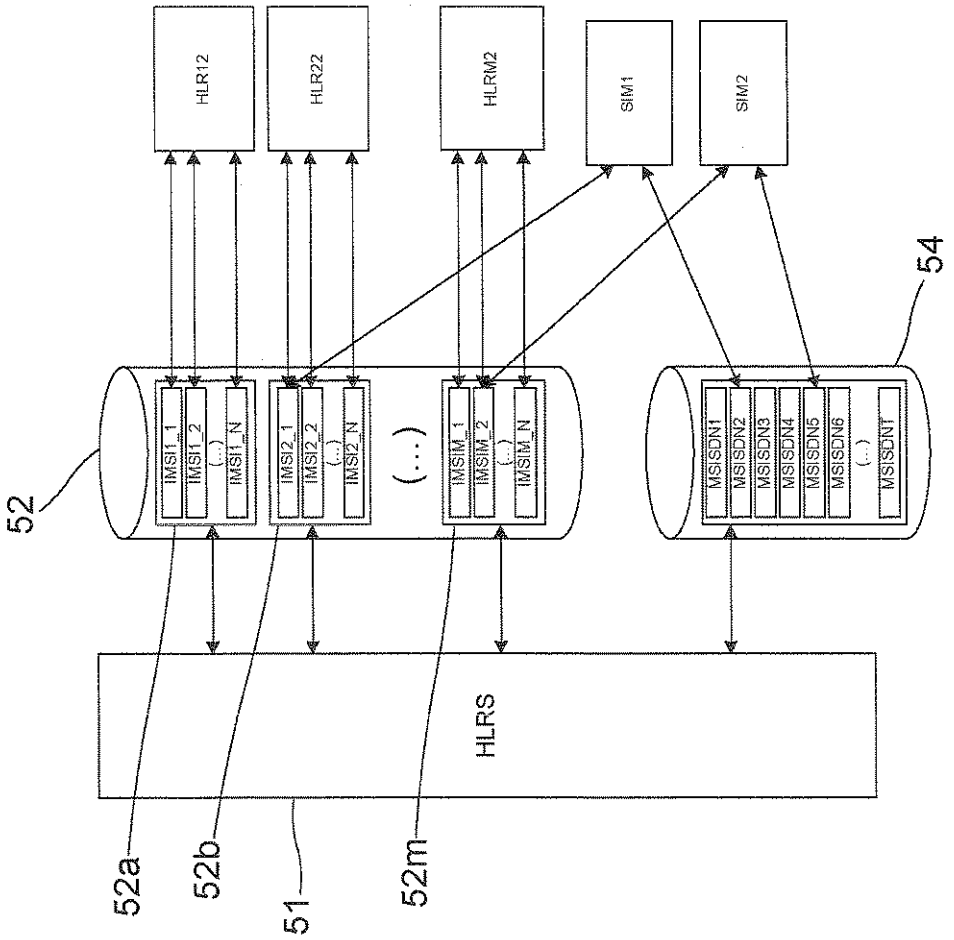

HLR12
HLR22
HLRM2
SIM1
SIM2
IMSI1_1
IMSI1_2
(...)
IMSI1_N
IMSI2_1
IMSI2_2
(...)
IMSI2_N
(...)
IMSIM_1
IMSIM_2
(...)
IMSIM_N
MSISDN1
MSISDN2
MSISDN3
MSISDN4
MSISDN5
MSISDN6
(...)
MSISDNT
HLRS
52
52a
52b
51
52m
54

Fig. 4

