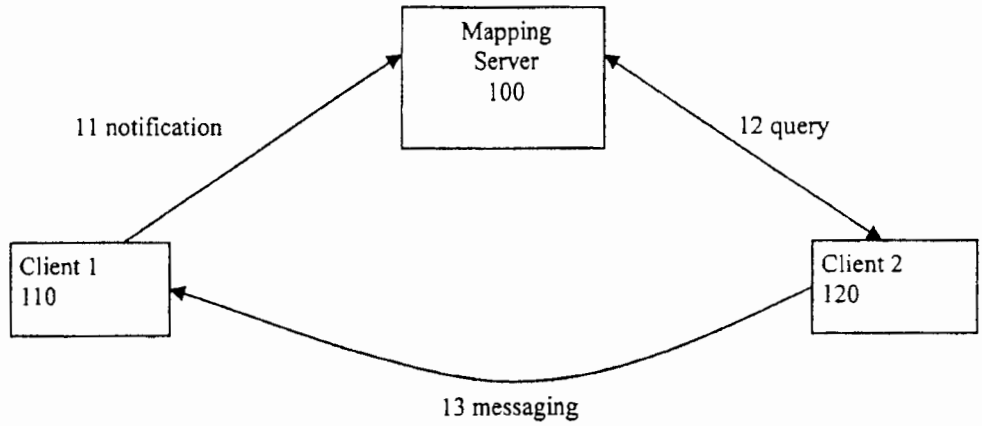

Mapping
Server
100
11 notification
12 query
Client 1
110
Client 2
120
13 messaging

Fig. 1

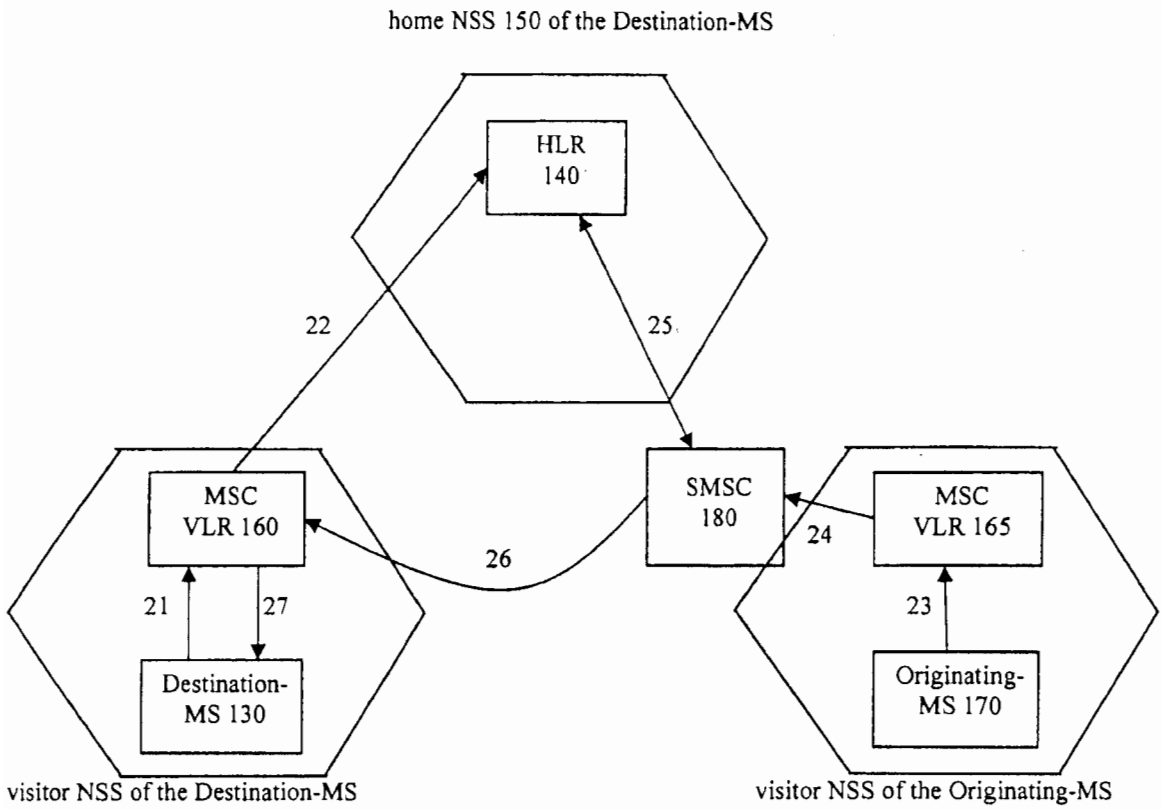

home NSS 150 of the Destination-MS
HLR
140
22
25
MSC
VLR 160
SMSC
180
MSC
VLR 165
24
26
21
27
23
Destination-
MS 130
Originating-
MS 170
visitor NSS of the Destination-MS
visitor NSS of the Originating-MS

Fig. 2

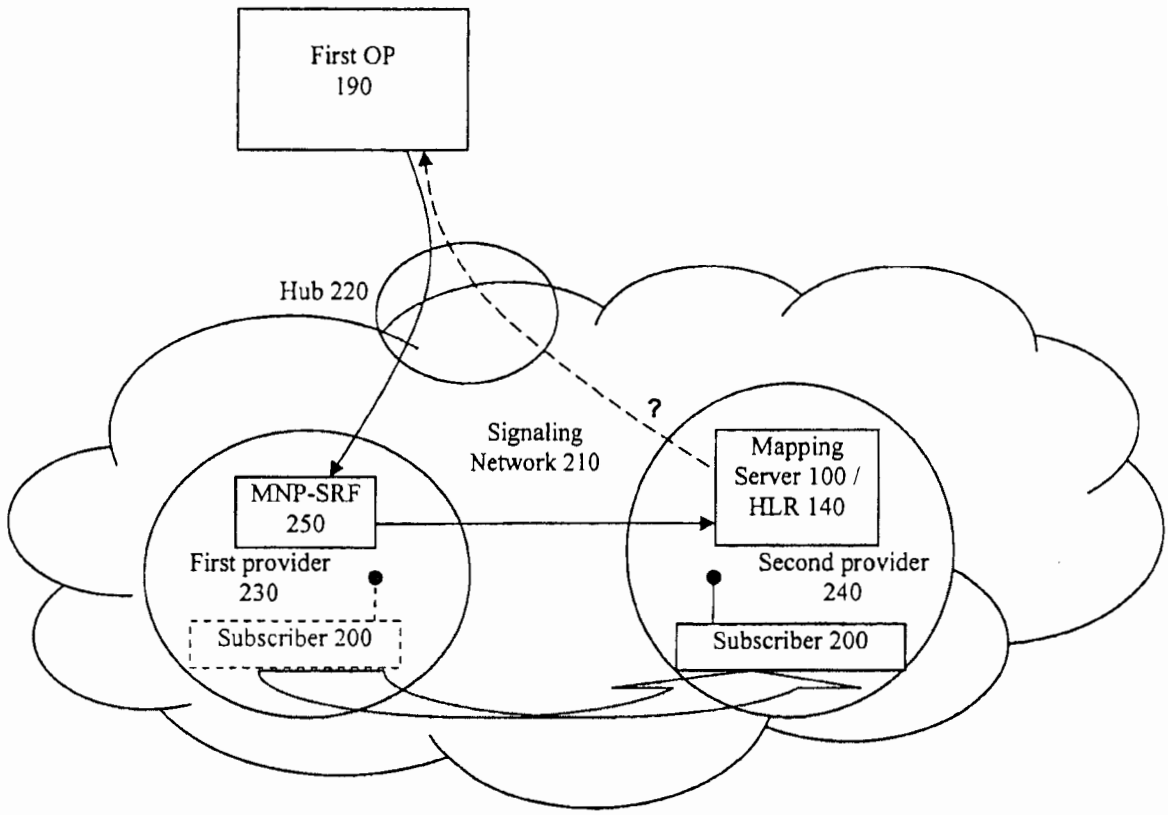

First OP
190
Hub 220
?
Signaling
Network 210
MNP-SRF
250
Mapping
Server 100 /
HLR 140
First provider
230
Second provider
240
Subscriber 200
Subscriber 200

Fig. 3

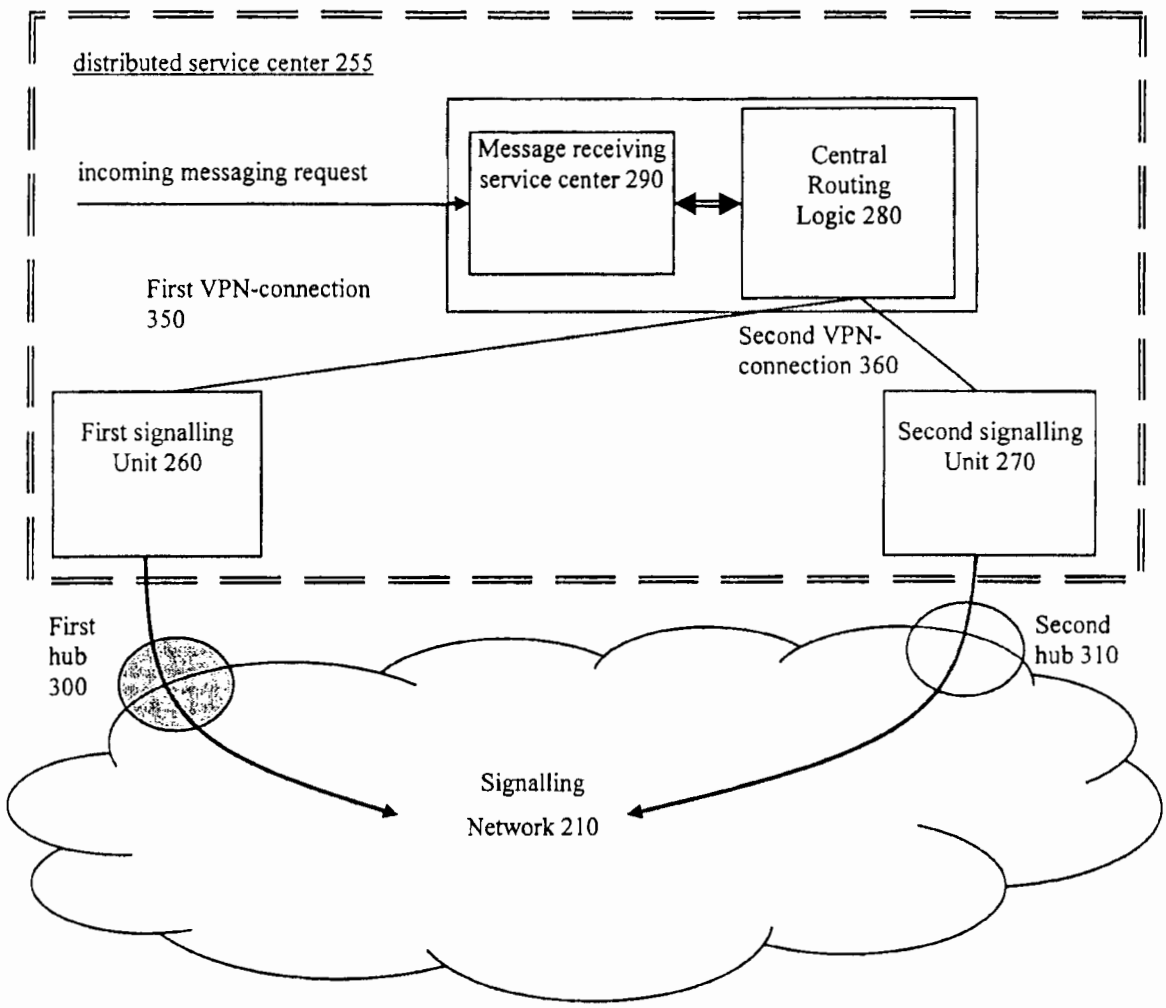

distributed service center 255
incoming messaging request
Message receiving service center 290
Central Routing Logic 280
First VPN-connection 350
Second VPN-connection 360
First signalling Unit 260
Second signalling Unit 270
First hub 300
Second hub 310
Signalling Network 210

Fig. 4

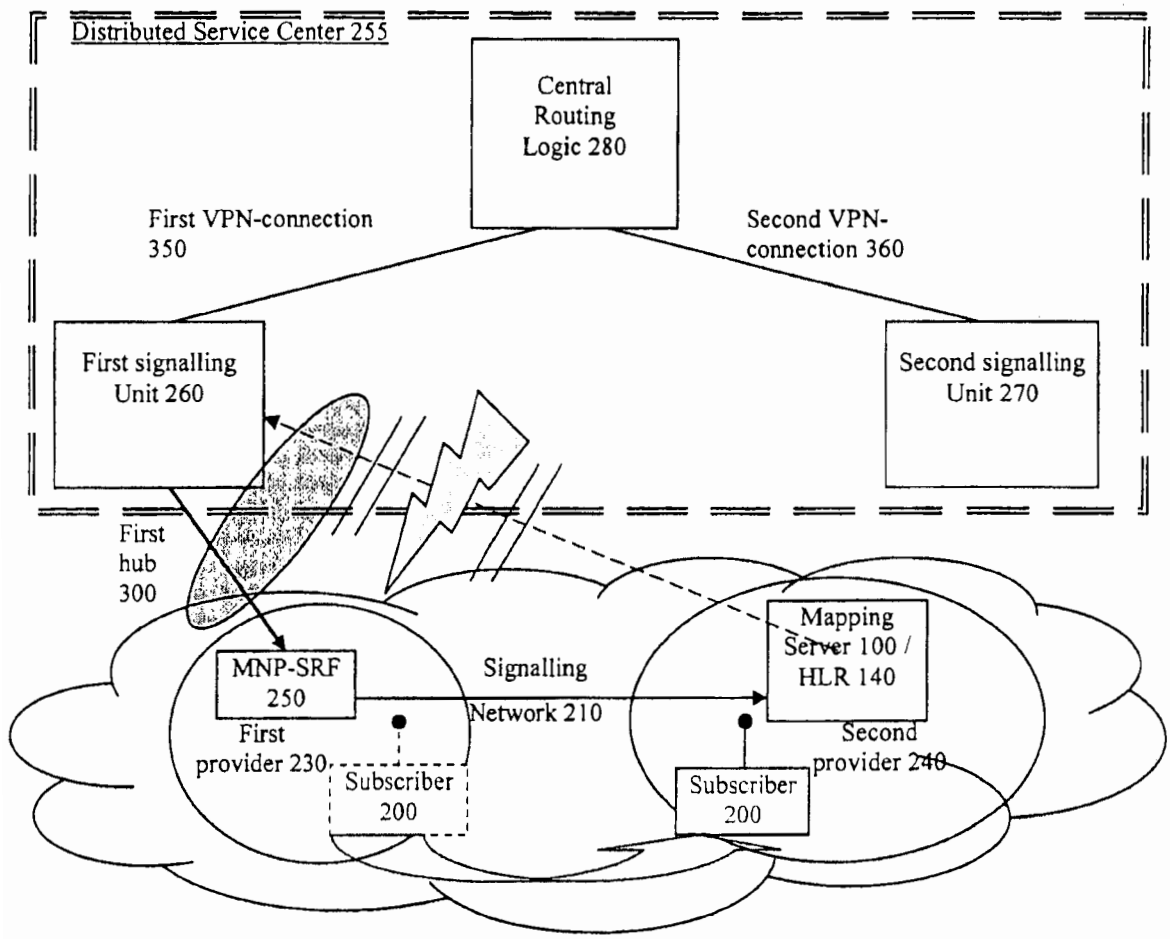

Distributed Service Center 255
Central Routing Logic 280
First VPN-connection 350
Second VPN-connection 360
First signalling Unit 260
Second signalling Unit 270
First hub 300
MNP-SRF 250
Signalling Network 210
Mapping Server 100 / HLR 140
First provider 230
Second provider 240
Subscriber 200
Subscriber 200

Fig. 5

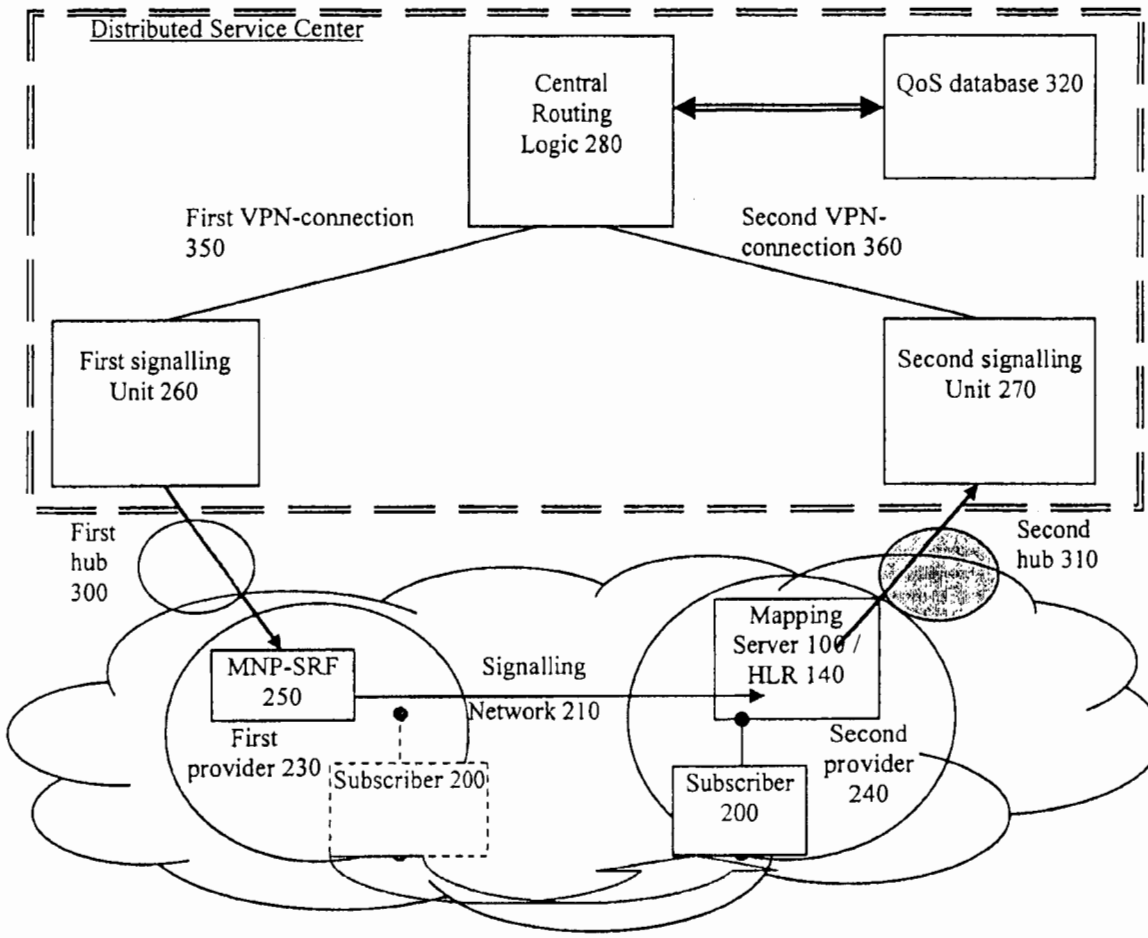

Distributed Service Center
Central Routing Logic 280
QoS database 320
First VPN-connection 350
Second VPN-connection 360
First signalling Unit 260
Second signalling Unit 270
First hub 300
Second hub 310
MNP-SRF 250
Signalling Network 210
Mapping Server 100 / HLR 140
First provider 230
Subscriber 200
Second provider 240
Subscriber 200

Fig. 6

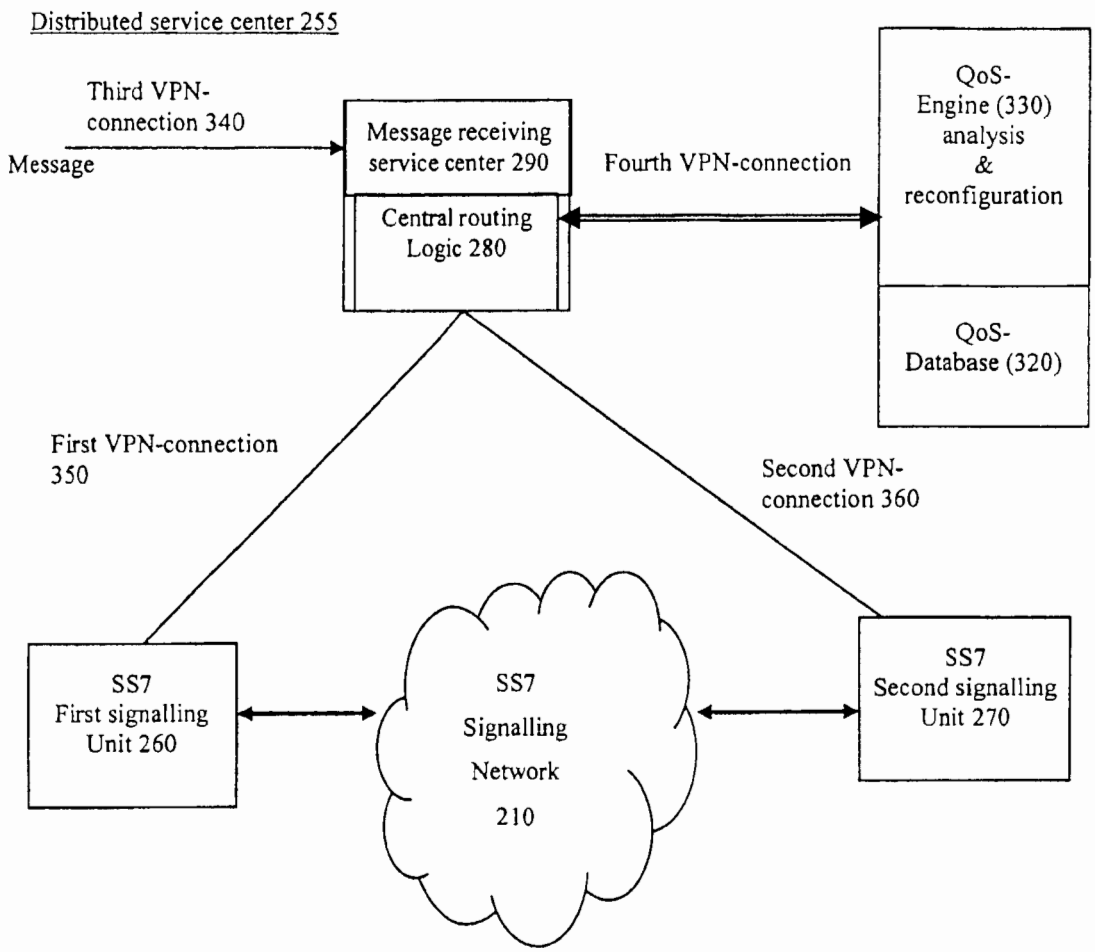

Distributed service center 255
Third VPN-connection 340
Message
Message receiving service center 290
Central routing Logic 280
Fourth VPN-connection
QoS-Engine (330) analysis & reconfiguration
QoS-Database (320)
First VPN-connection 350
Second VPN-connection 360
SS7 First signalling Unit 260
SS7 Signalling Network 210
SS7 Second signalling Unit 270

Fig. 7