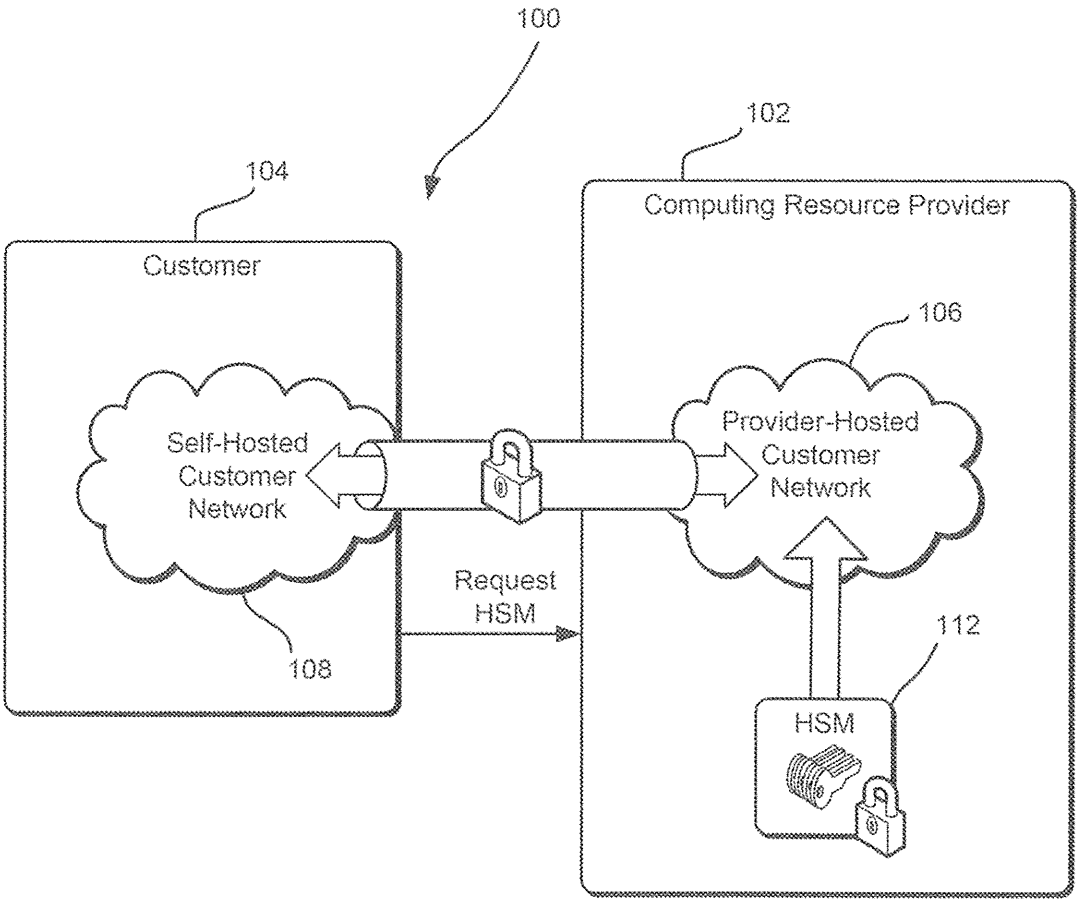
100
102
104
Computing Resource Provider
Customer
106
Self-Hosted
Customer
Network
Provider-Hosted
Customer
Network
Request
HSM
112
108
HSM

FIG. 1

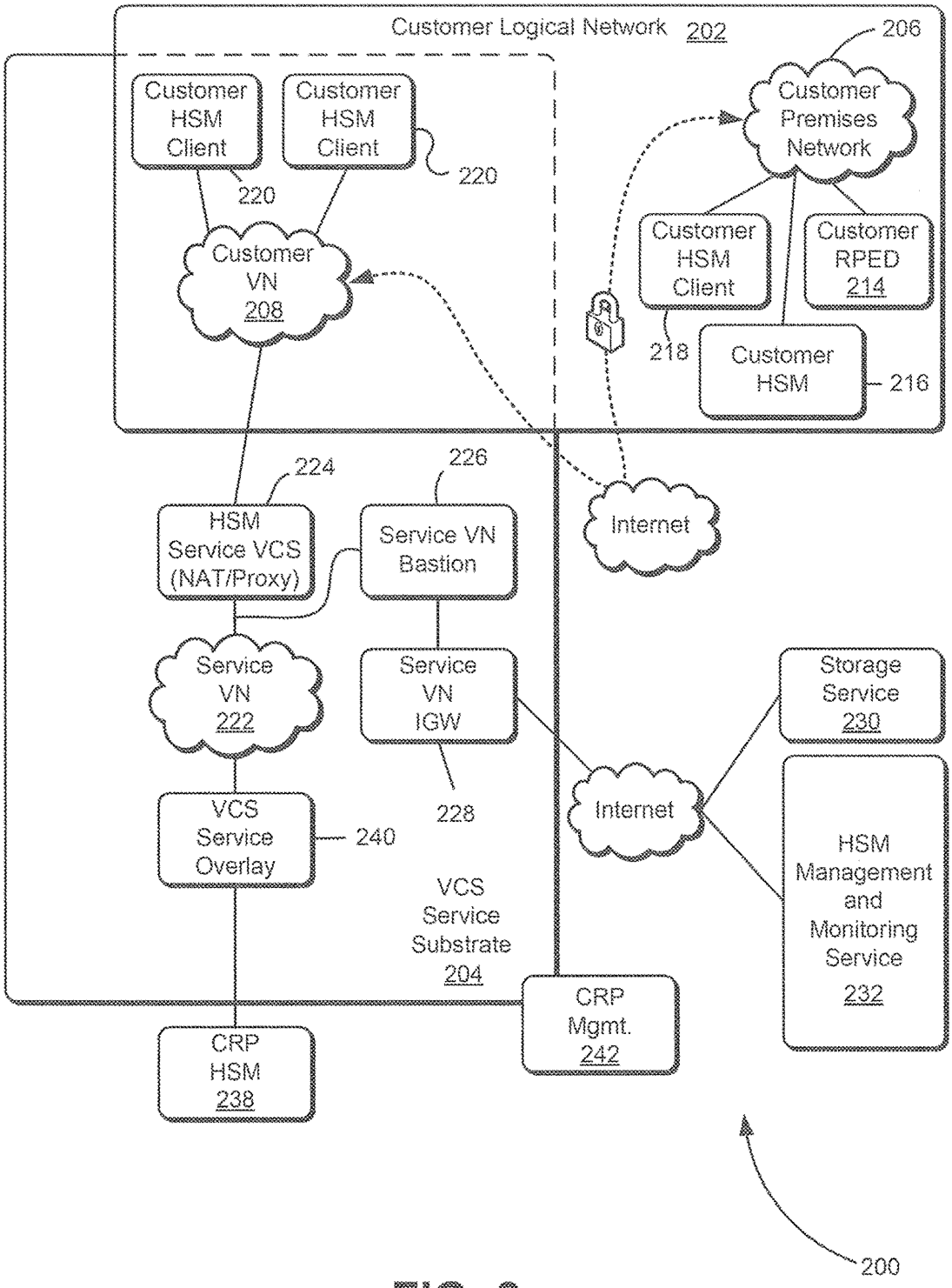
Customer Logical Network 202
206
Customer HSM Client
Customer HSM Client
220
220
Customer Premises Network
Customer VN 208
Customer HSM Client
Customer RPED 214
218
Customer HSM
216
224
226
HSM Service VCS (NAT/Proxy)
Service VN Bastion
Internet
Service VN 222
Service VN IGW
Storage Service 230
VCS Service Overlay
240
228
Internet
HSM Management and Monitoring Service 232
VCS Service Substrate 204
CRP Mgmt. 242
CRP HSM 238
200

FIG. 2

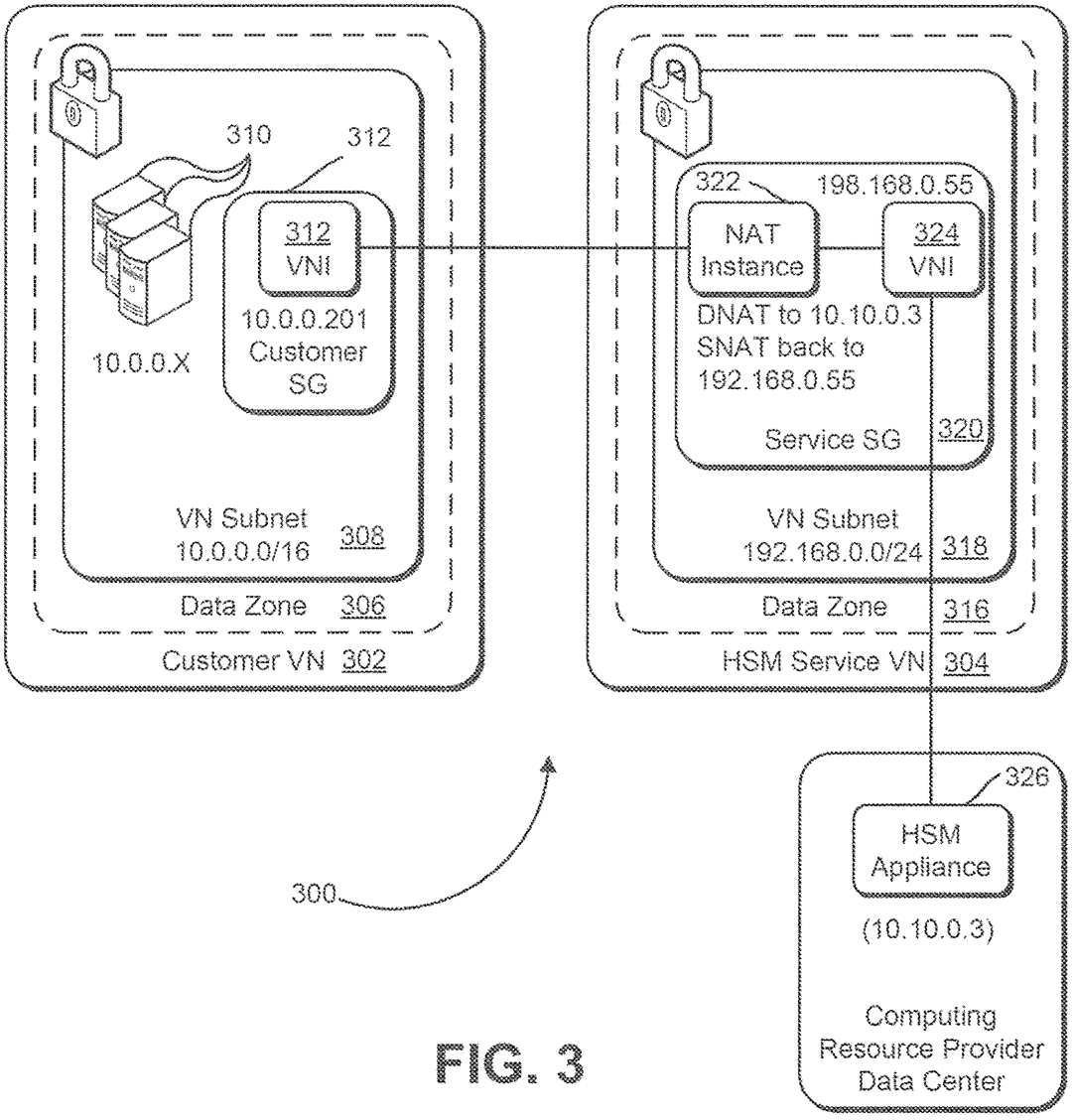
310
312
312
VNI
10.0.0.201
Customer
SG
10.0.0.X
VN Subnet
10.0.0.0/16
308
Data Zone
306
Customer VN
302
322
198.168.0.55
NAT
Instance
324
VNI
DNAT to 10.10.0.3
SNAT back to
192.168.0.55
Service SG
320
VN Subnet
192.168.0.0/24
318
Data Zone
316
HSM Service VN
304
326
HSM
Appliance
(10.10.0.3)
Computing
Resource Provider
Data Center
300

FIG. 3

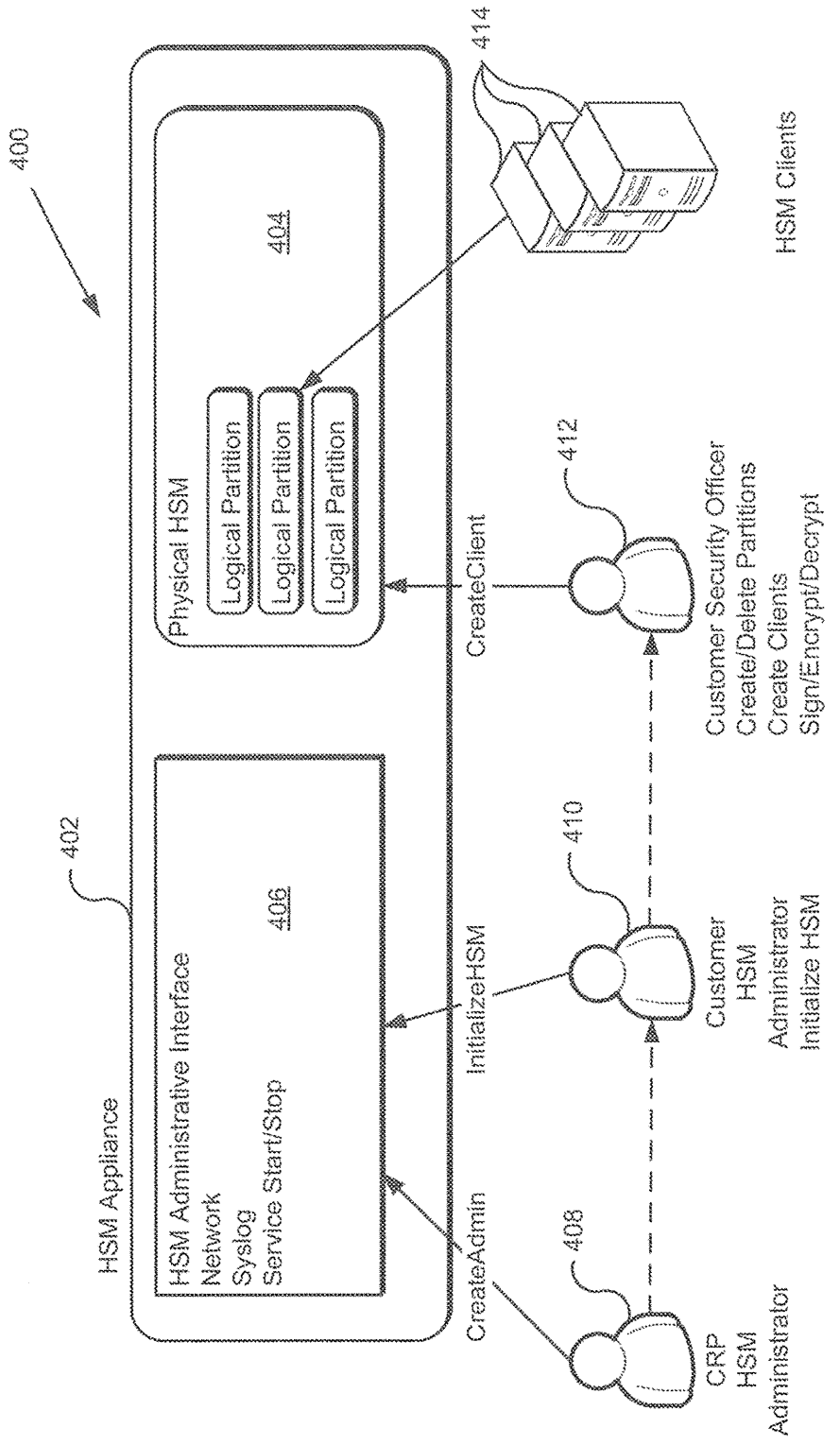
400
HSM Appliance
402
HSM Administrative Interface
Network
Syslog
Service Start/Stop
406
Physical HSM
Logical Partition
Logical Partition
Logical Partition
404
414
HSM Clients
CreateClient
412
Customer Security Officer
Create/Delete Partitions
Create Clients
Sign/Encrypt/Decrypt
InitializeHSM
410
Customer
HSM
Administrator
Initialize HSM
CreateAdmin
408
CRP
HSM
Administrator

FIG. 4

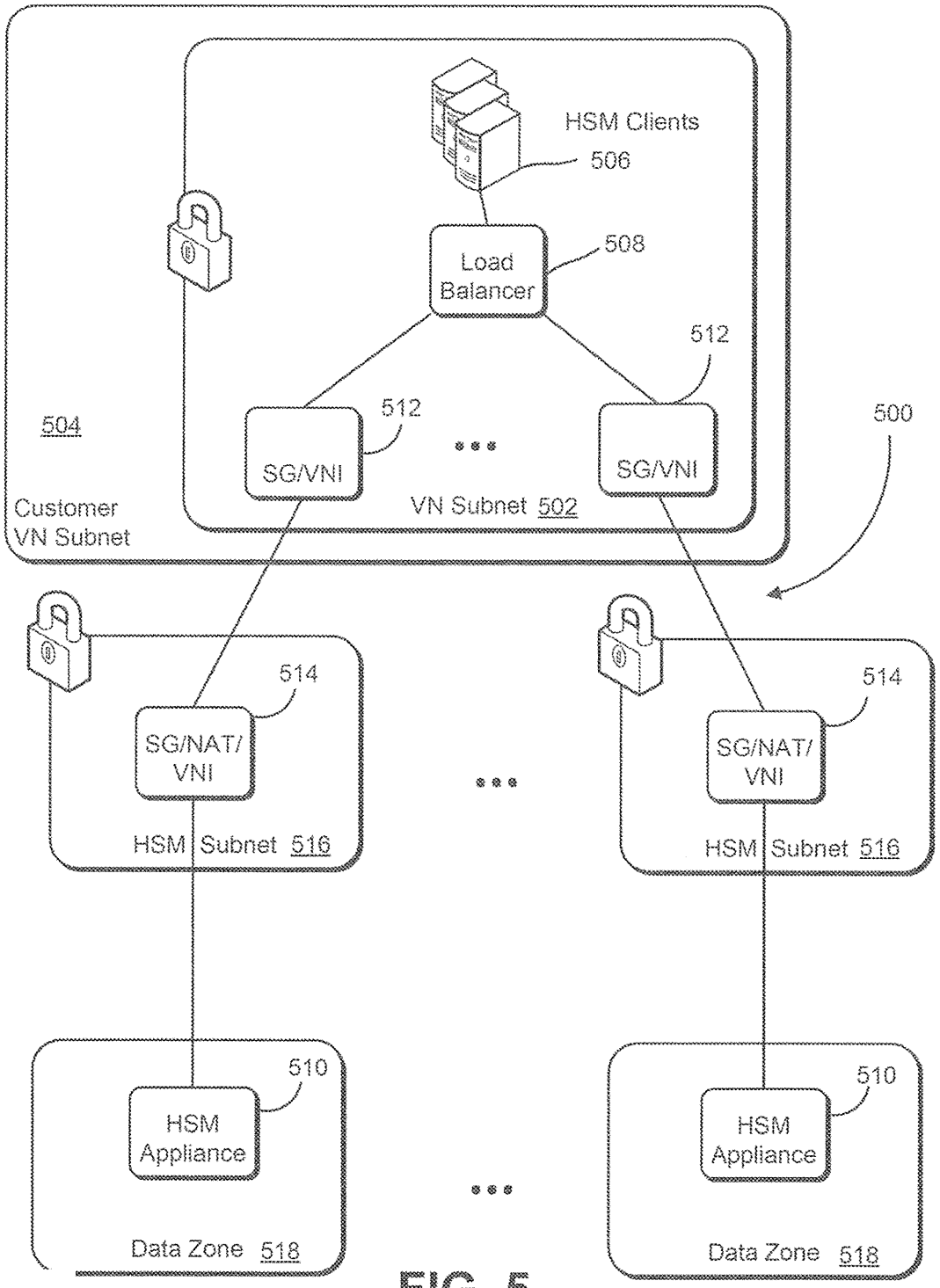
HSM Clients
506
Load Balancer
508
512
512
504
SG/VNI
SG/VNI
500
Customer VN Subnet
VN Subnet 502
514
514
SG/NAT/ VNI
SG/NAT/ VNI
HSM Subnet 516
HSM Subnet 516
510
510
HSM Appliance
HSM Appliance
Data Zone 518
Data Zone 518

FIG. 5

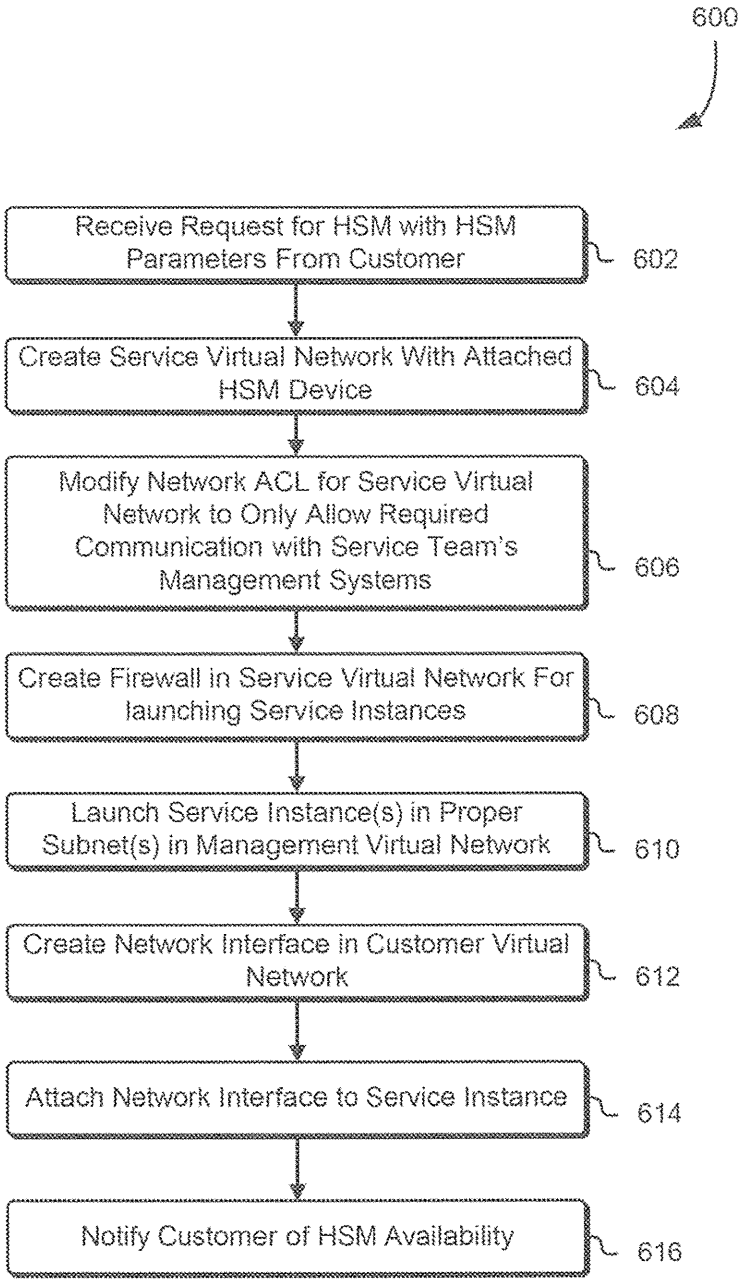
600
Receive Request for HSM with HSM Parameters From Customer
602
Create Service Virtual Network With Attached HSM Device
604
Modify Network ACL for Service Virtual Network to Only Allow Required Communication with Service Team's Management Systems
606
Create Firewall in Service Virtual Network For launching Service Instances
608
Launch Service Instance(s) in Proper Subnet(s) in Management Virtual Network
610
Create Network Interface in Customer Virtual Network
612
Attach Network Interface to Service Instance
614
Notify Customer of HSM Availability
616

FIG. 6

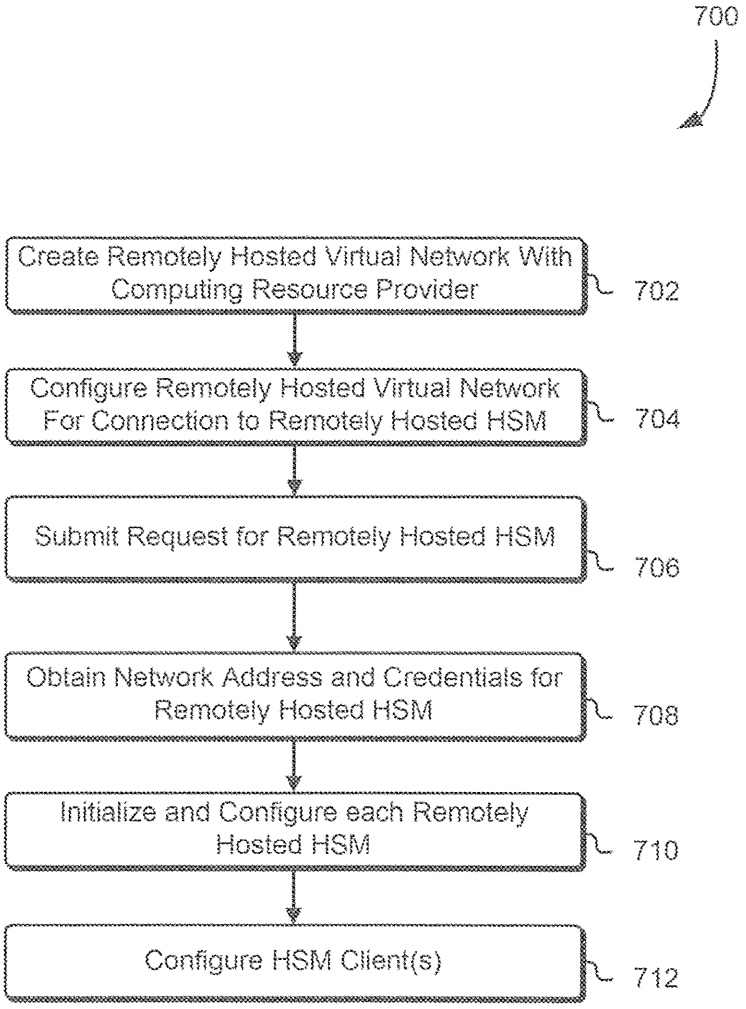
700
Create Remotely Hosted Virtual Network With Computing Resource Provider
702
Configure Remotely Hosted Virtual Network For Connection to Remotely Hosted HSM
704
Submit Request for Remotely Hosted HSM
706
Obtain Network Address and Credentials for Remotely Hosted HSM
708
Initialize and Configure each Remotely Hosted HSM
710
Configure HSM Client(s)
712

FIG. 7

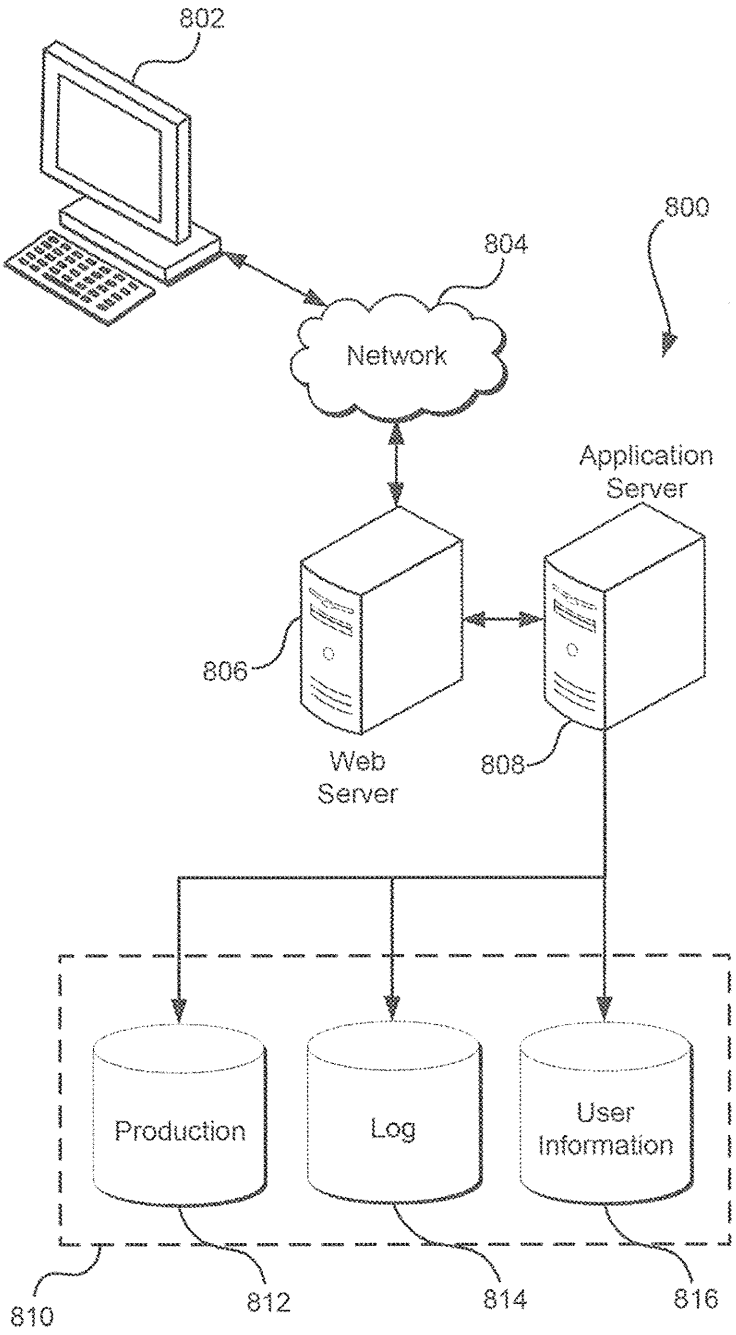
802
800
804
Network
Application
Server
806
Web
Server
808
Production
Log
User
Information
810
812
814
816

FIG. 8