

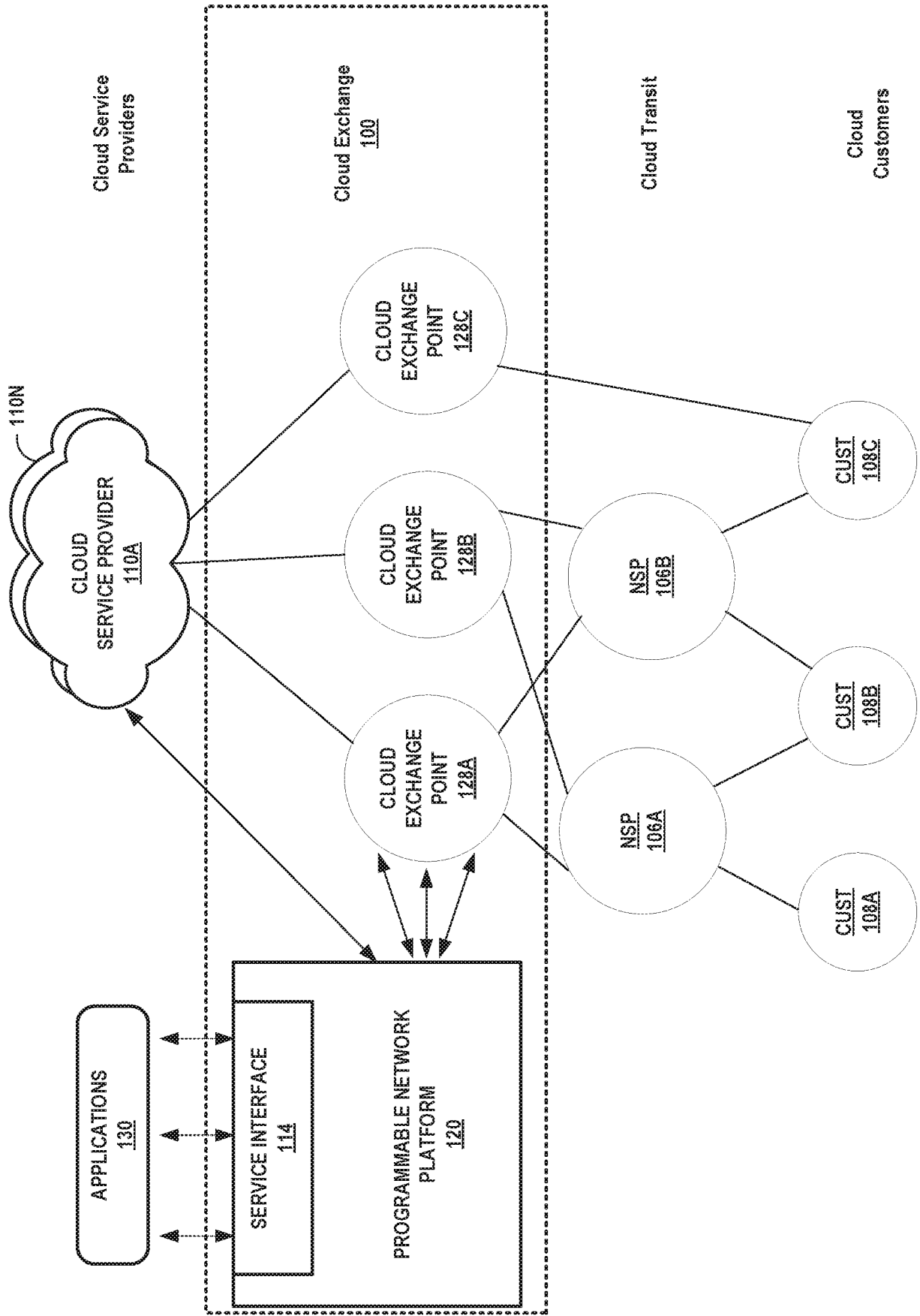
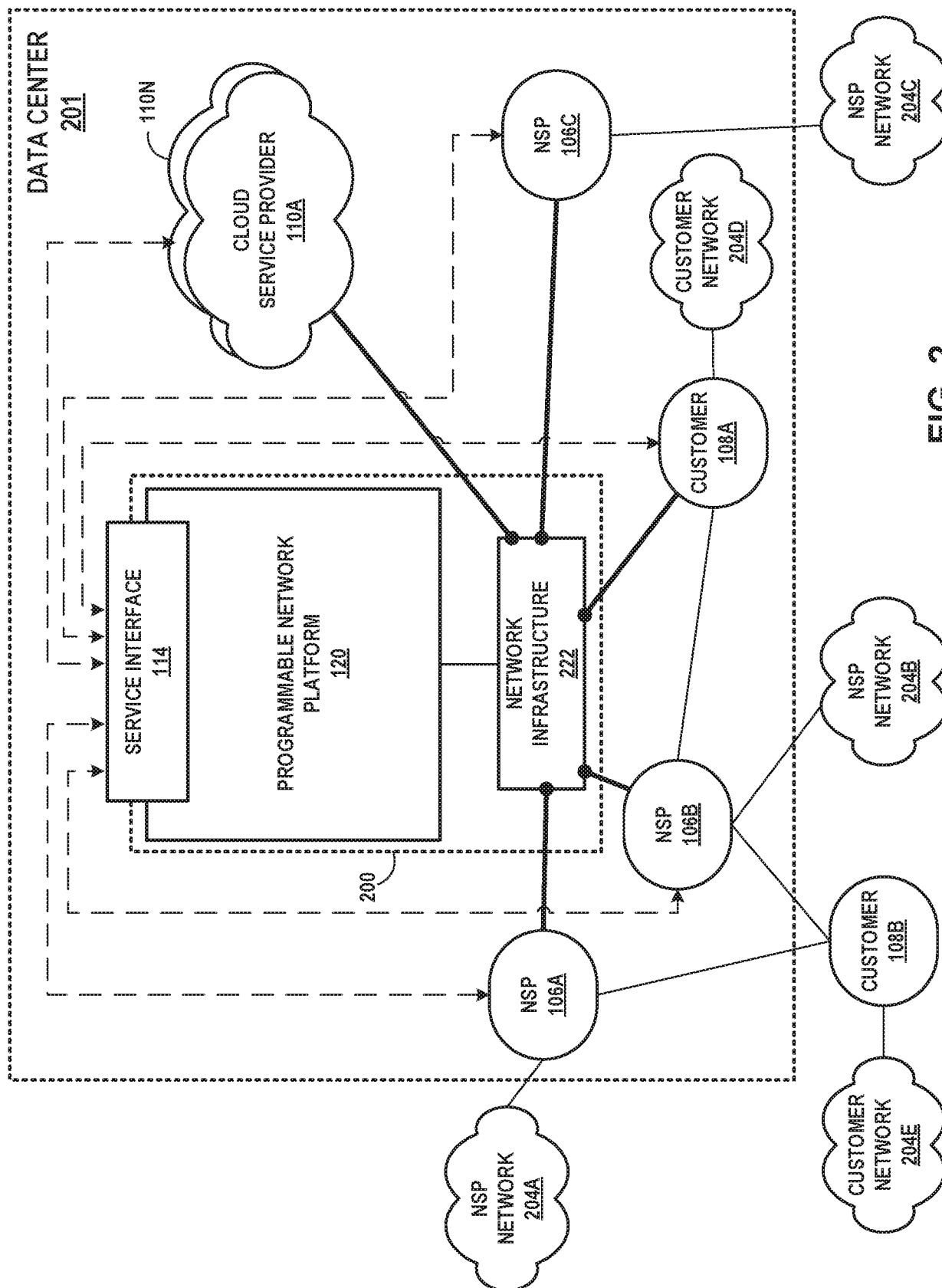


FIG. 1



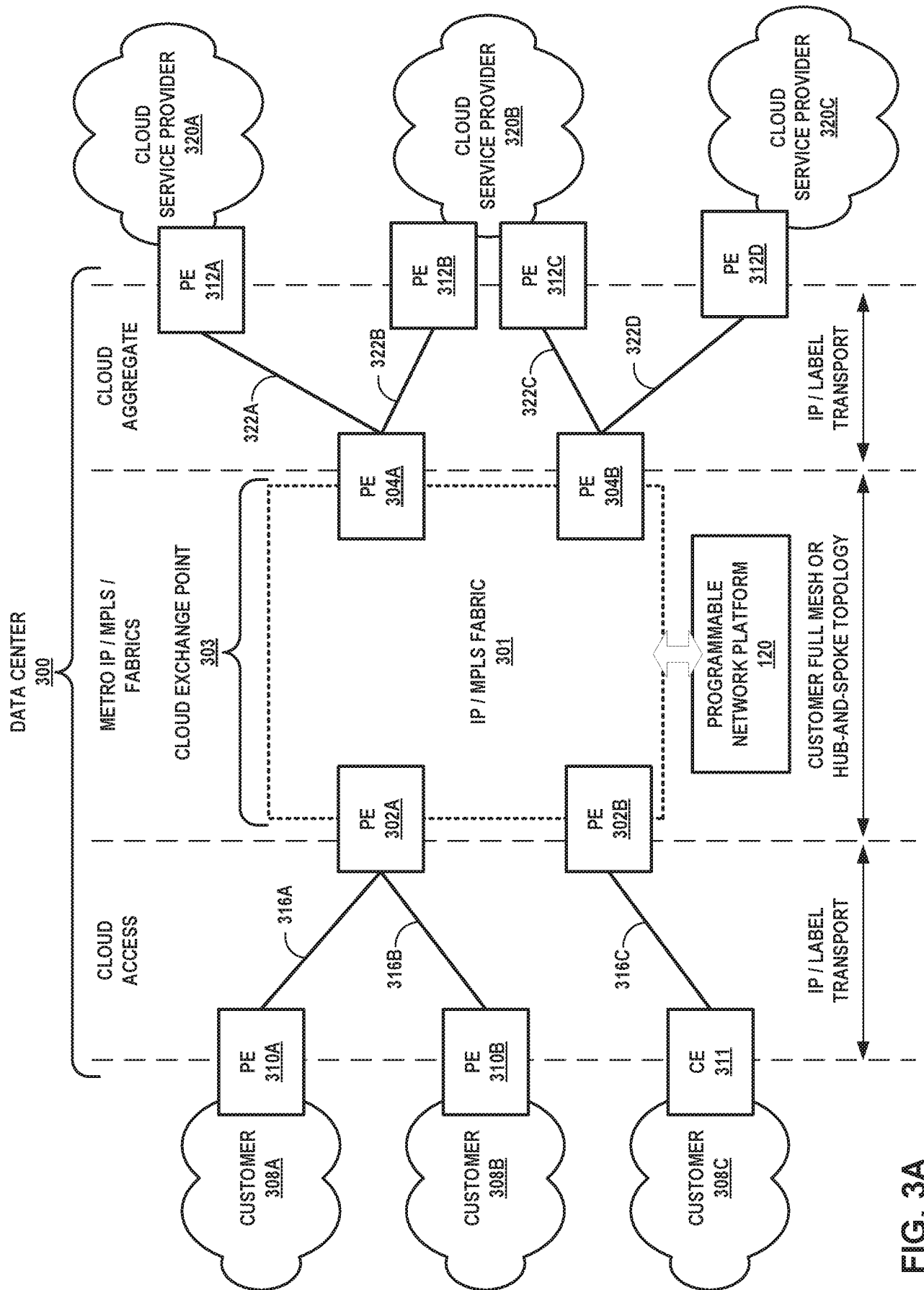


FIG. 3A

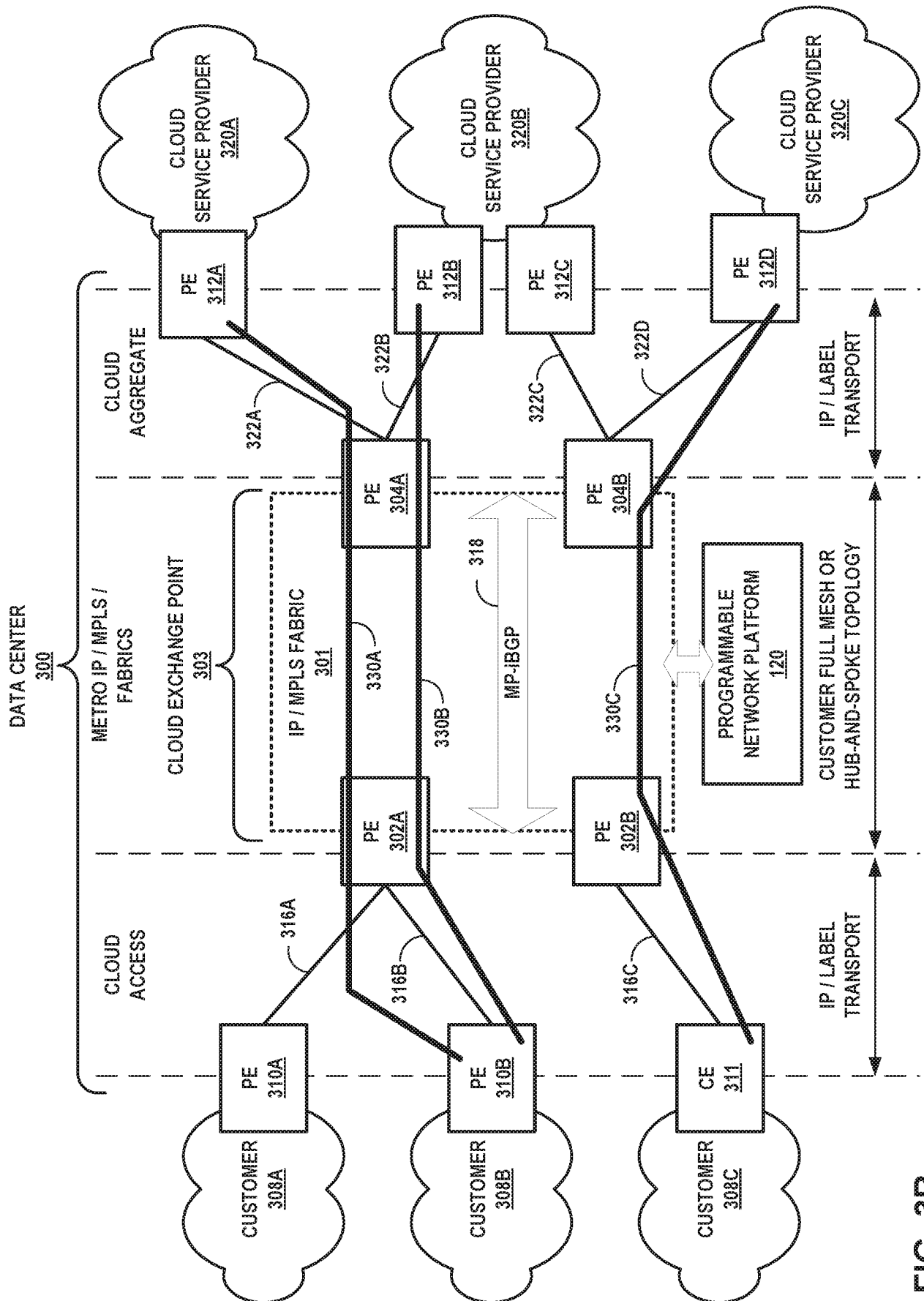


FIG. 3B

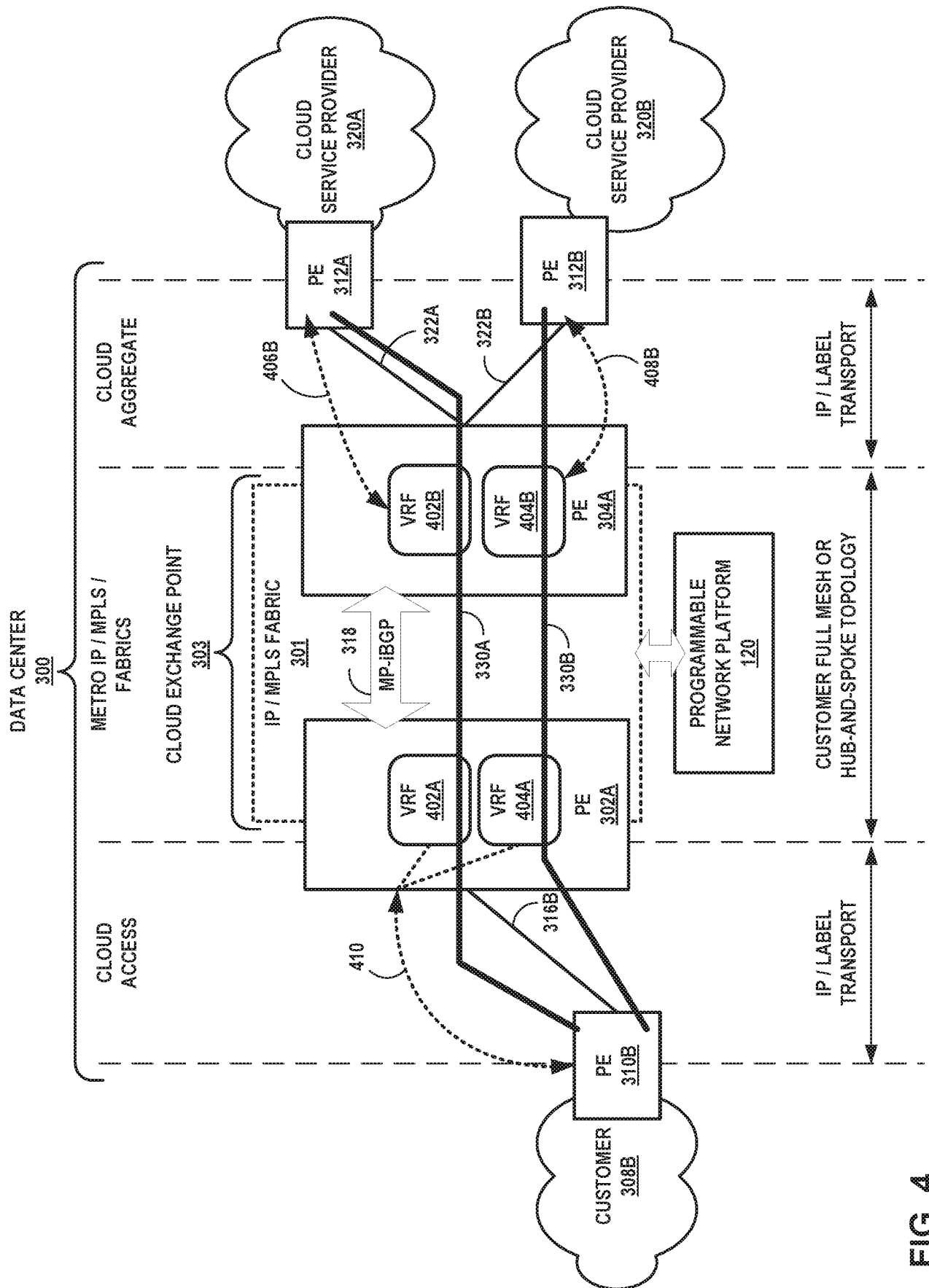


FIG. 4

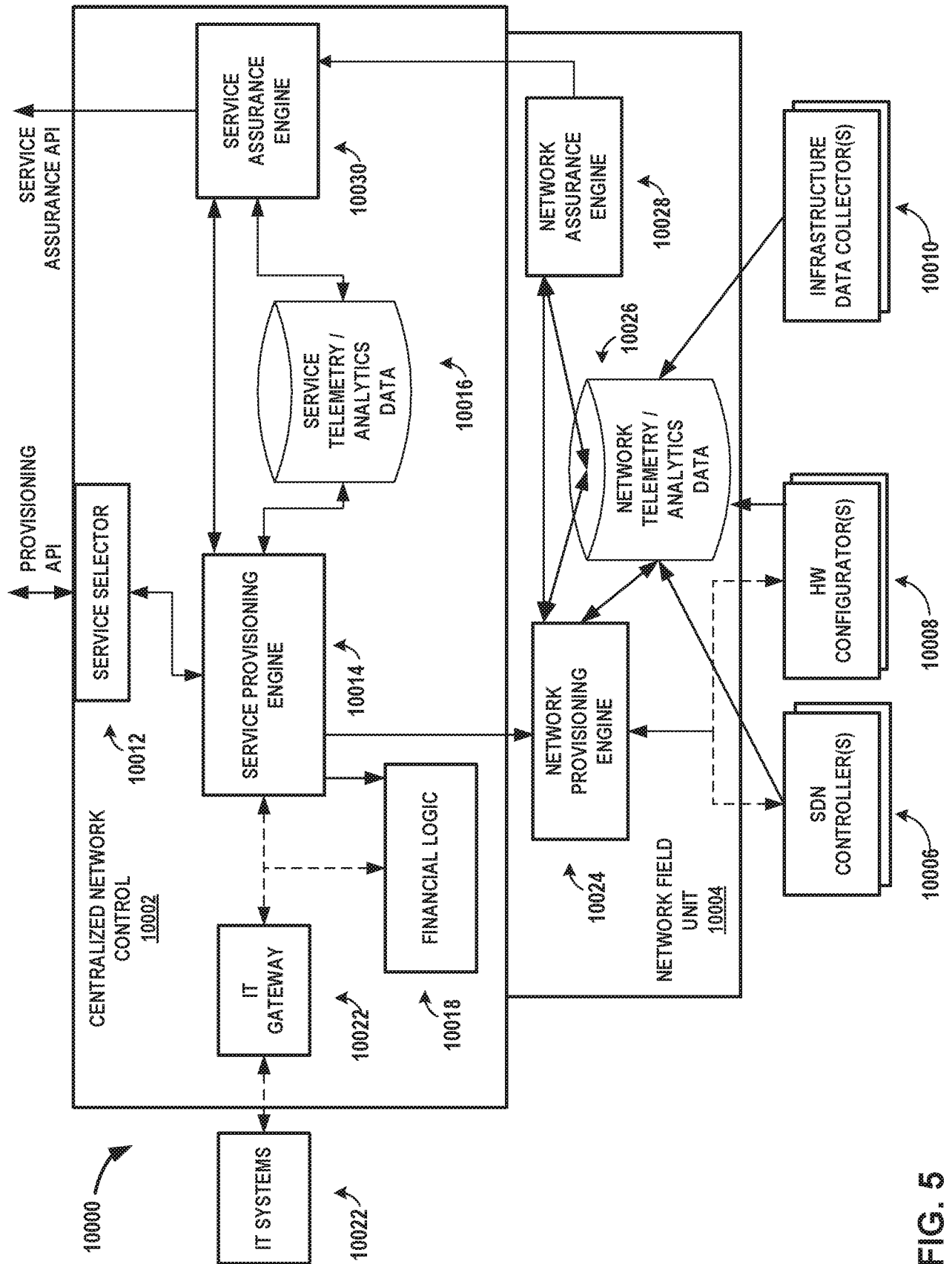


FIG. 5

Service Provisioning Engine Third Party Orchestration

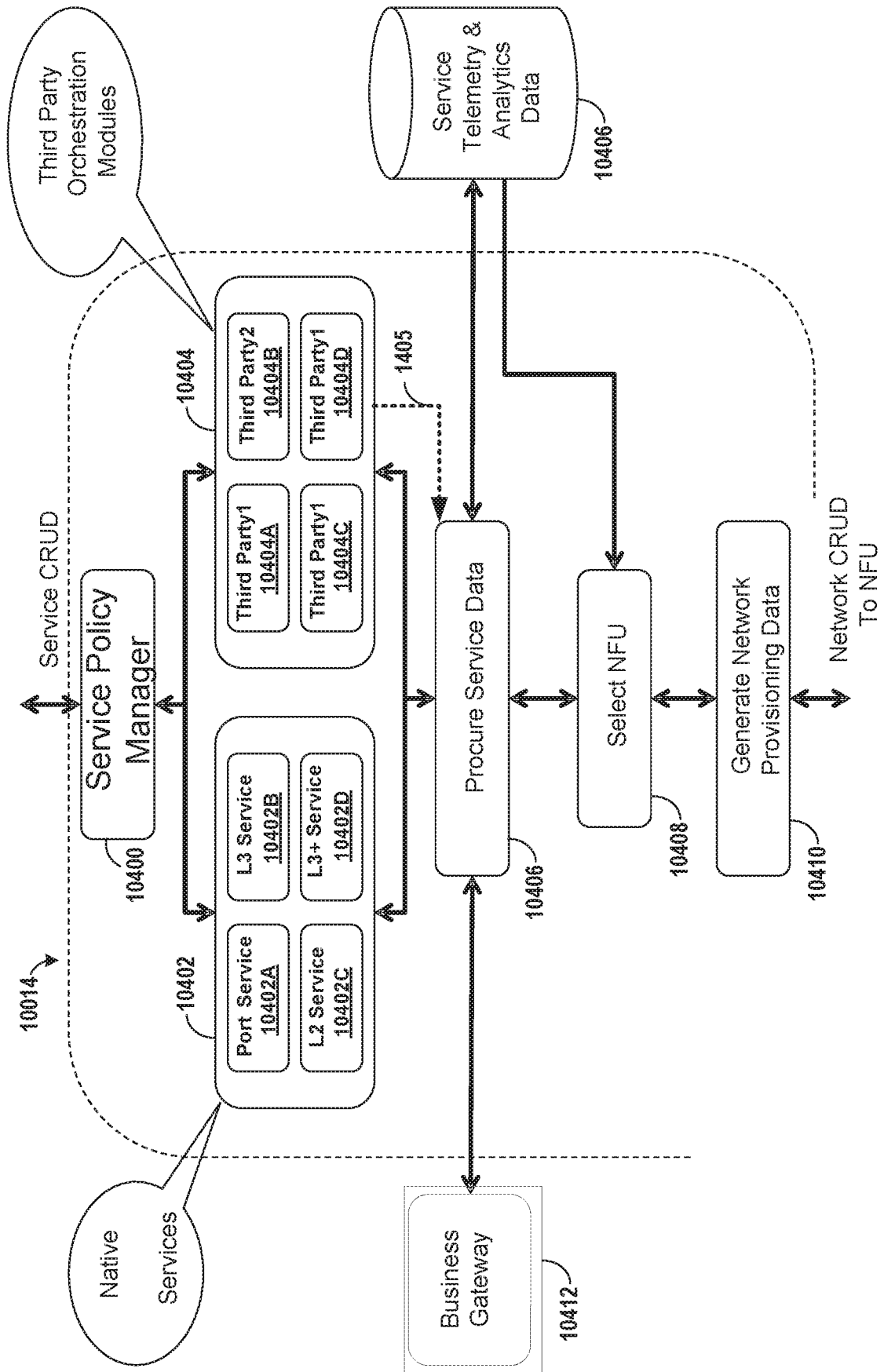


FIG. 6

Service Assurance Engine

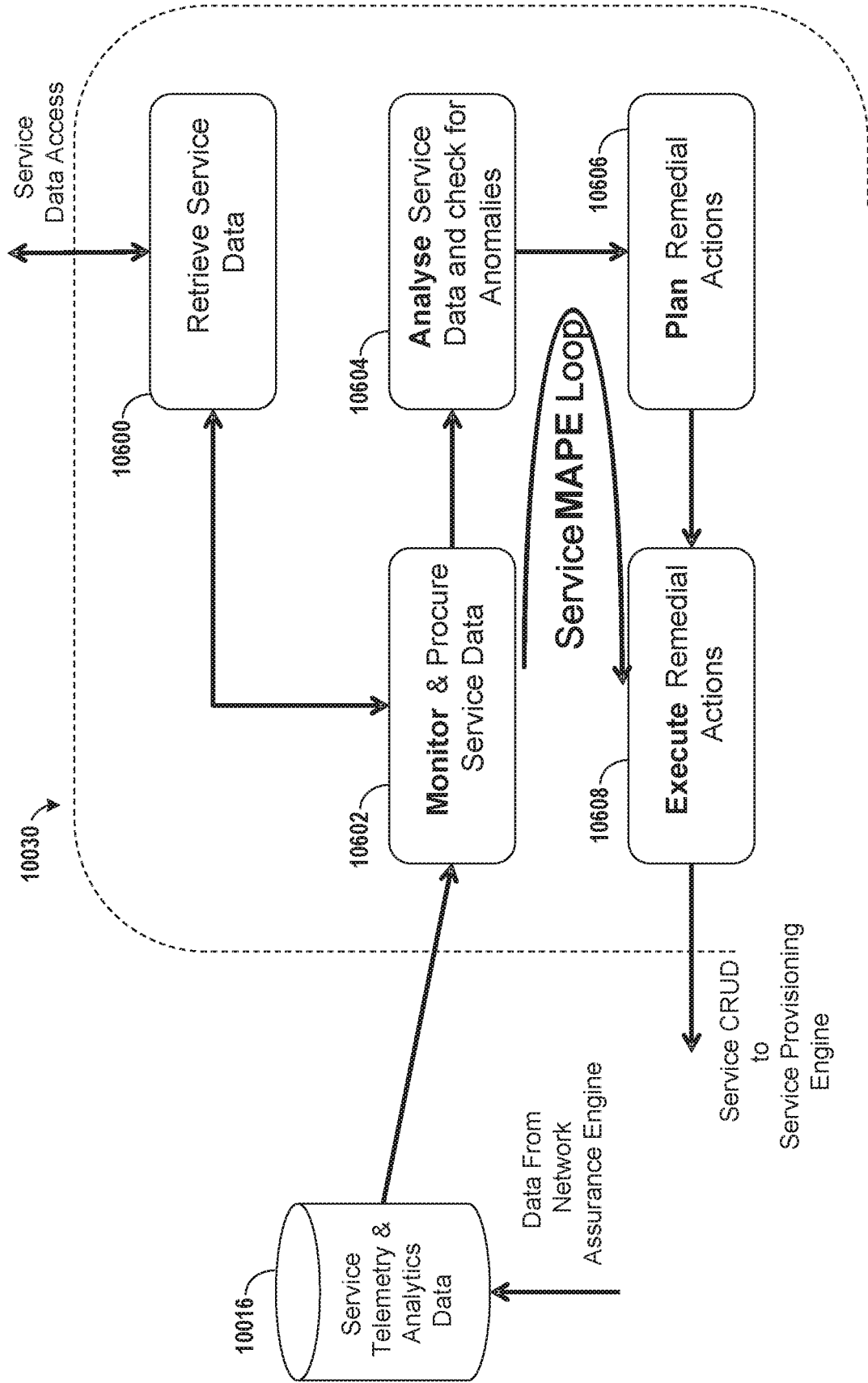


FIG. 7

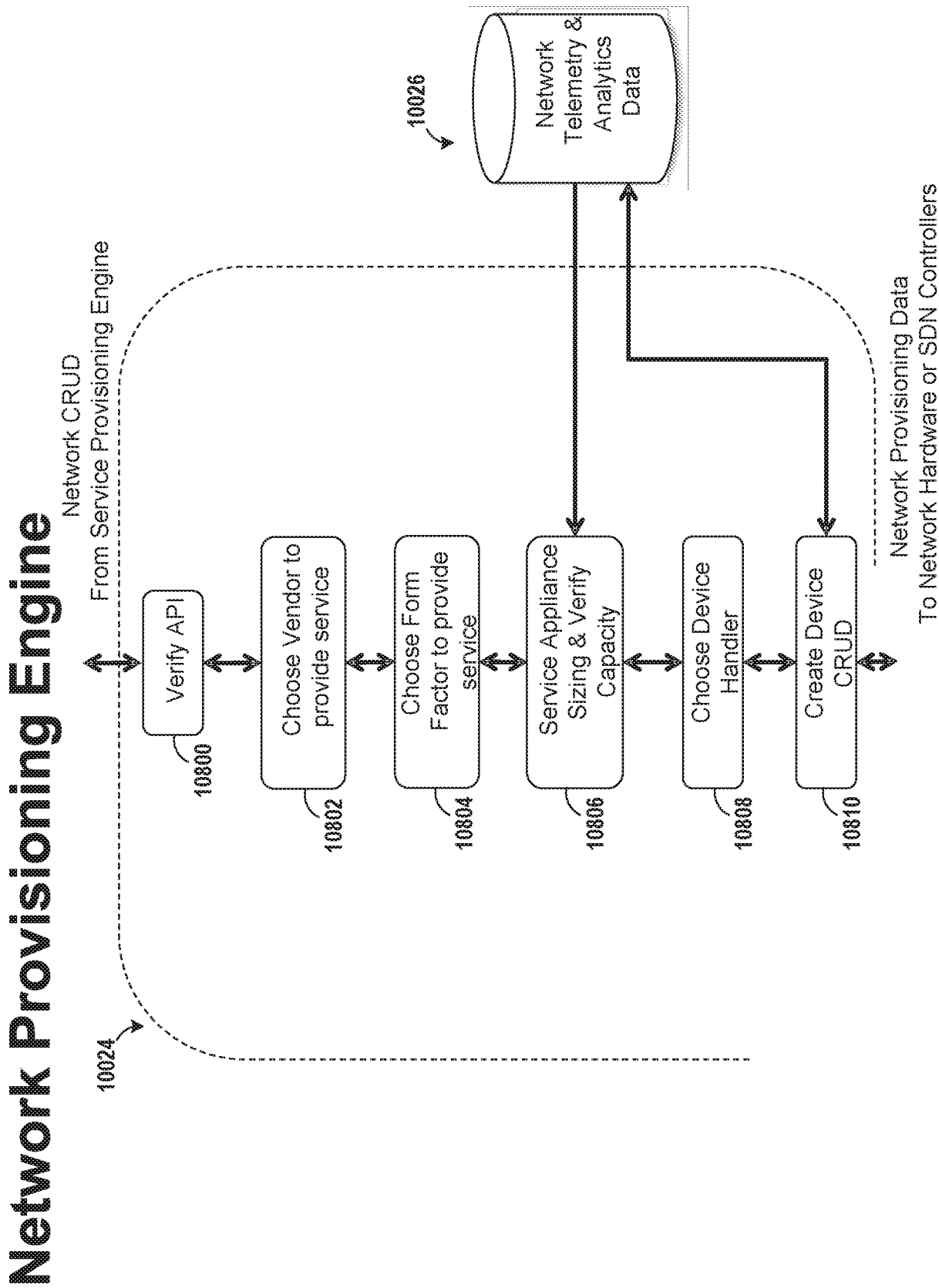


FIG. 8

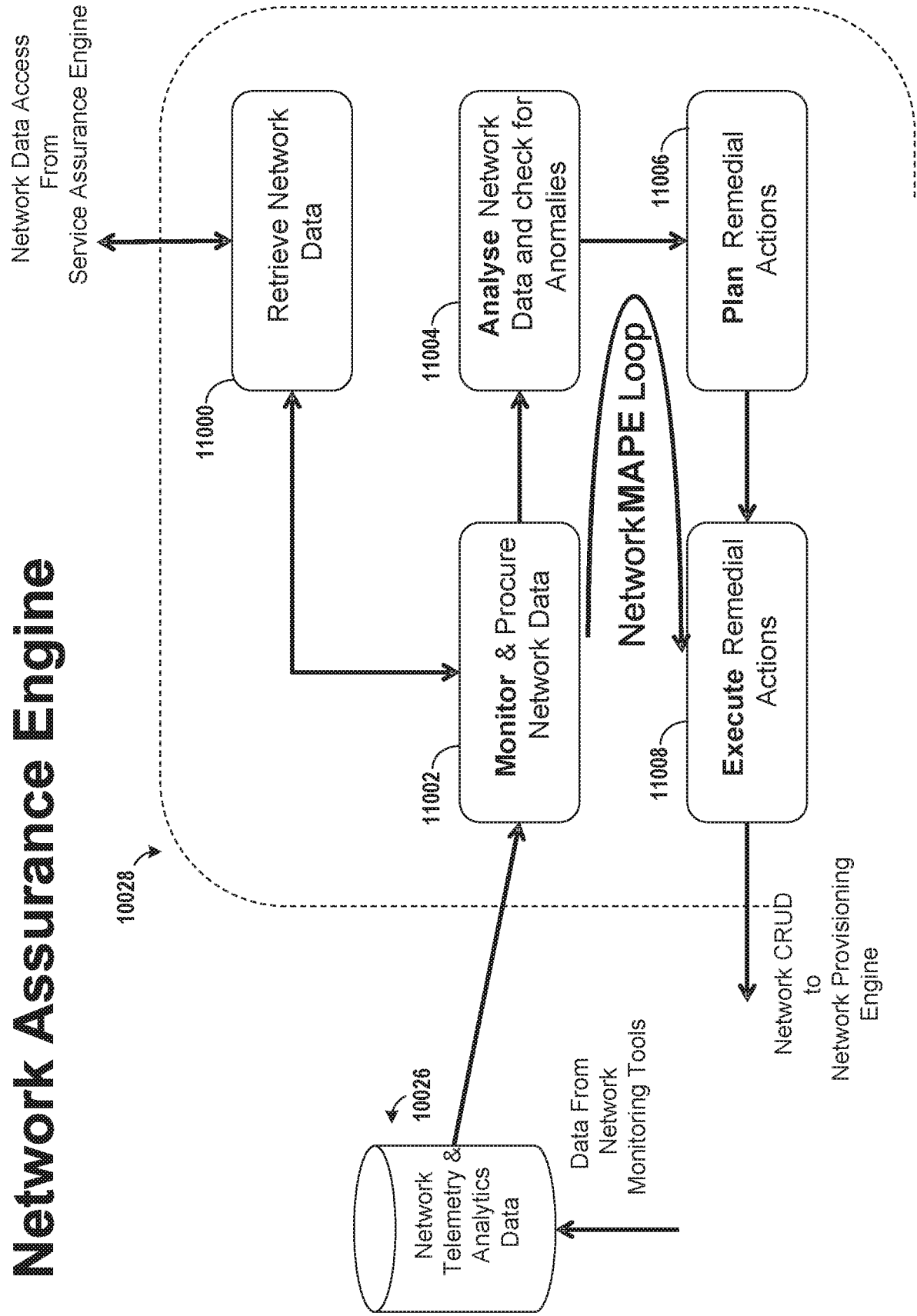


FIG. 9

Programmable Network

High Level Architecture—Intelligent Networks

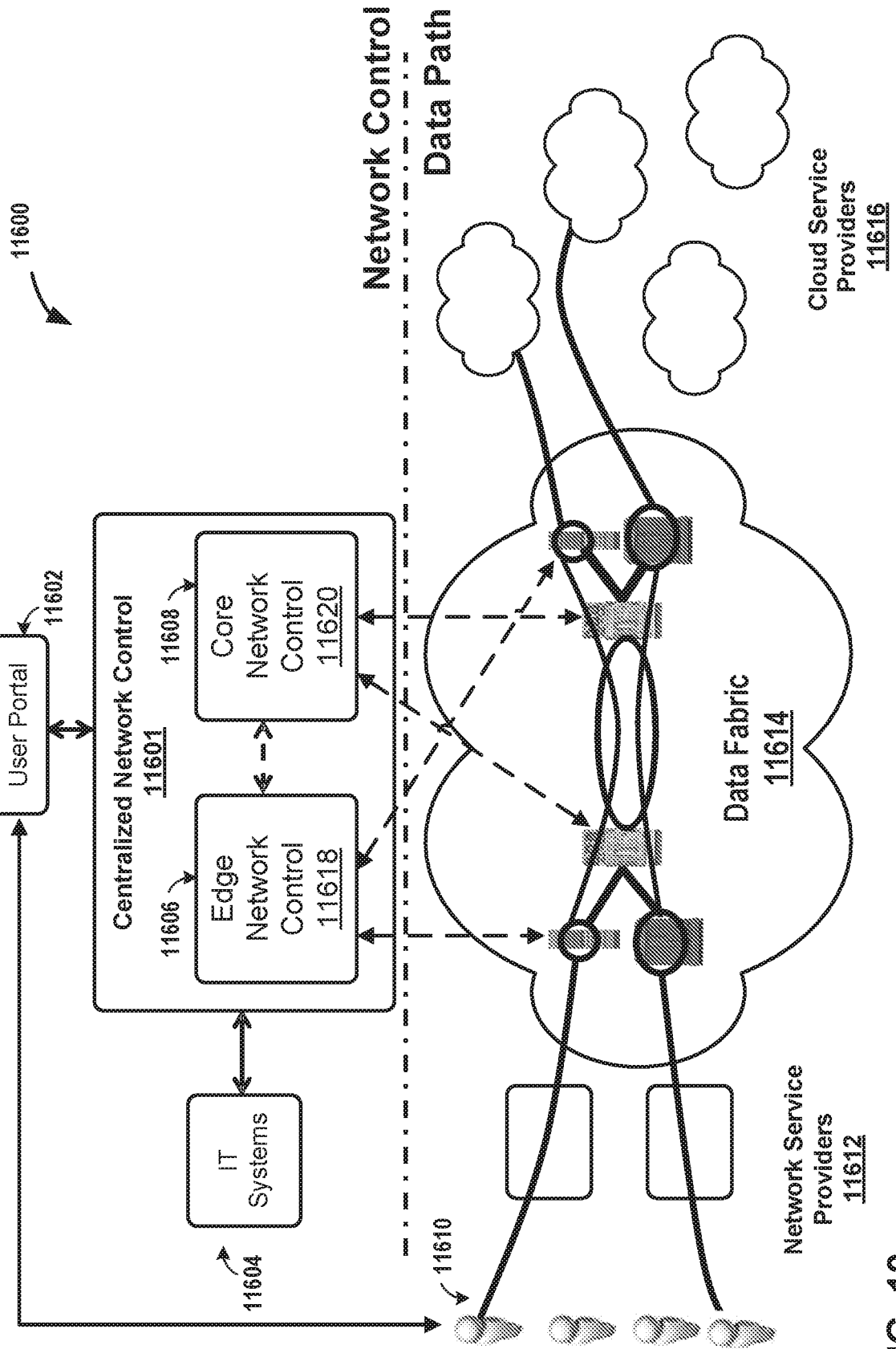


FIG. 10

Service Ordering System

L3 Connect Service Order

12200

Service Ordering System

<https://www.example.com/services/L3connect>

Port Service

Virtual Connect

L3 Connect

Firewall/NAT

DDOS

Encryption

12202

Service Definition: L3 Connect

12004

Customer Location 1

1700, XYZ Rd, San Jose, CA

12006

Network Segment

10.10.10.0/24

12008

Cloud Service Provider

CSP 1

☐

CSP 2

☒

CSP 3

☐

CSP 4

☐

12020

Network Segment

192.168.10.10/24

12022

Performance

☐ 1 Mbps

☐ 10 Mbps

☐ 100 Mbps

☒ 1 Gbps

☐ 10 Gbps

☐ 40 Gbps

☐ 100 Gbps

12010

Burstable

☒

ELR in %

25

12014

MAX Latency in ms

50

12016

Availability

☐ 99.9999 (315 Sec/Yr)

☐ 99.999 (5.26 Min/Yr)

☒ 99.995 (26.28 Min/Yr)

☐ 99.99 (52.56 Min/Yr)

☐ 99.9 (8.76 Hr/Yr)

☐ 99 (3.65 Days/Yr)

☐ 90 (36.5 Days/Yr)

12018

Security

DDOS Mitigation

☒

12024

DDOS CSP

Arbor

12026

Redirect IP Address

172.20.12.412/32

12028

Estimate

12030

CustomerID

Message

Status

FIG. 11

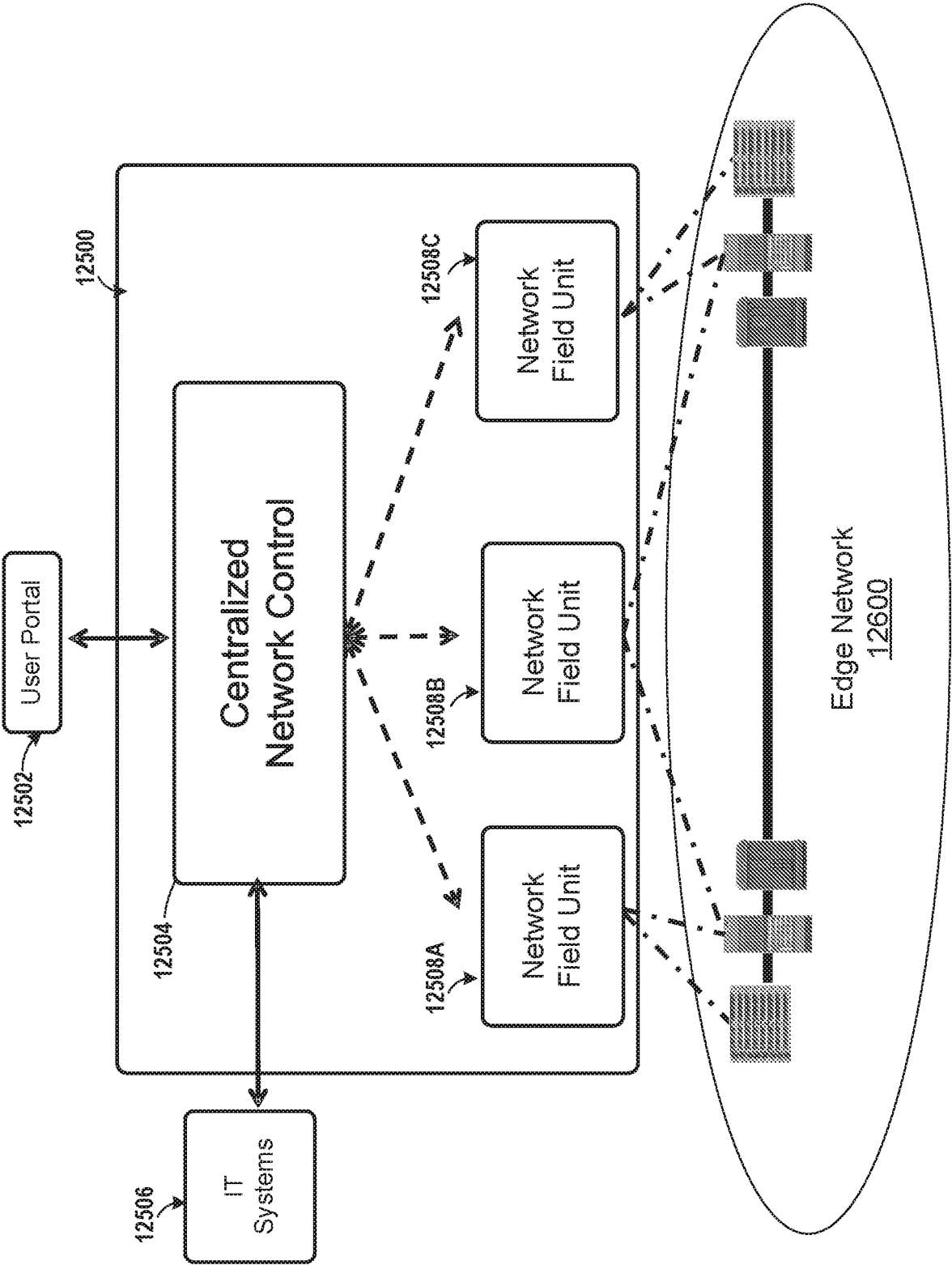


FIG. 13

Programmable Network

Use Case – Cloud Aggregation

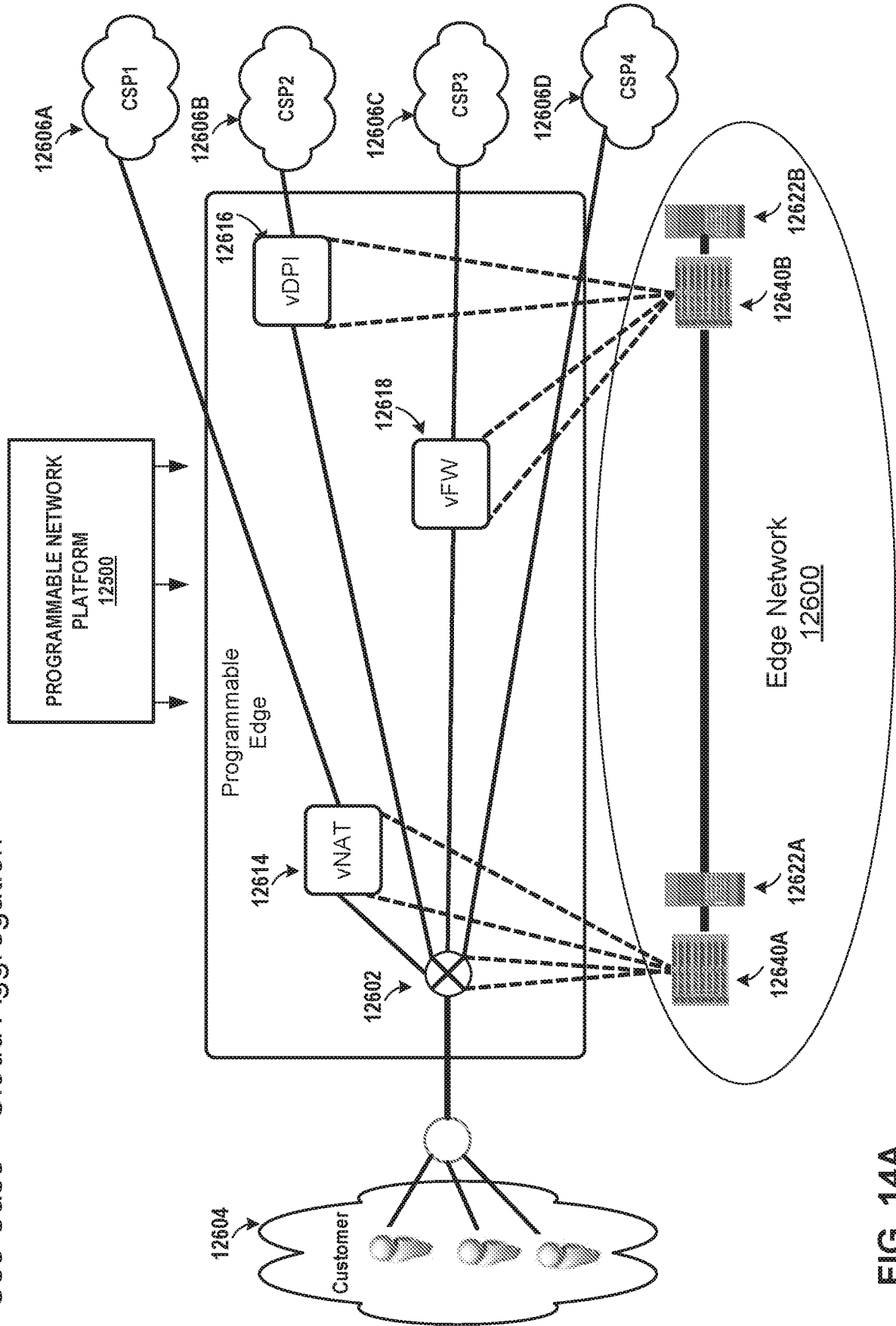


FIG. 14A

Programmable Network

Use Case – Micro-service stitching

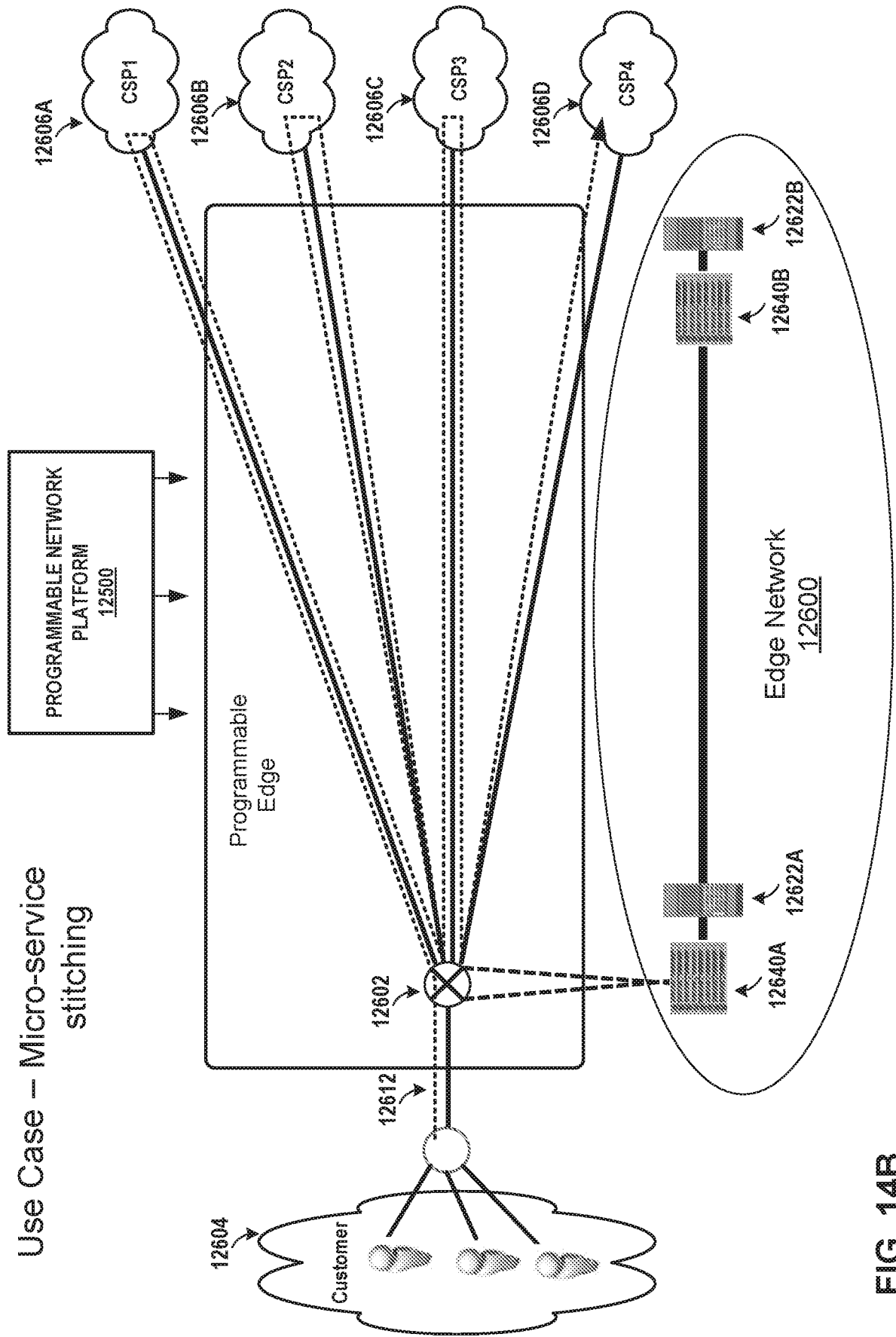


FIG. 14B

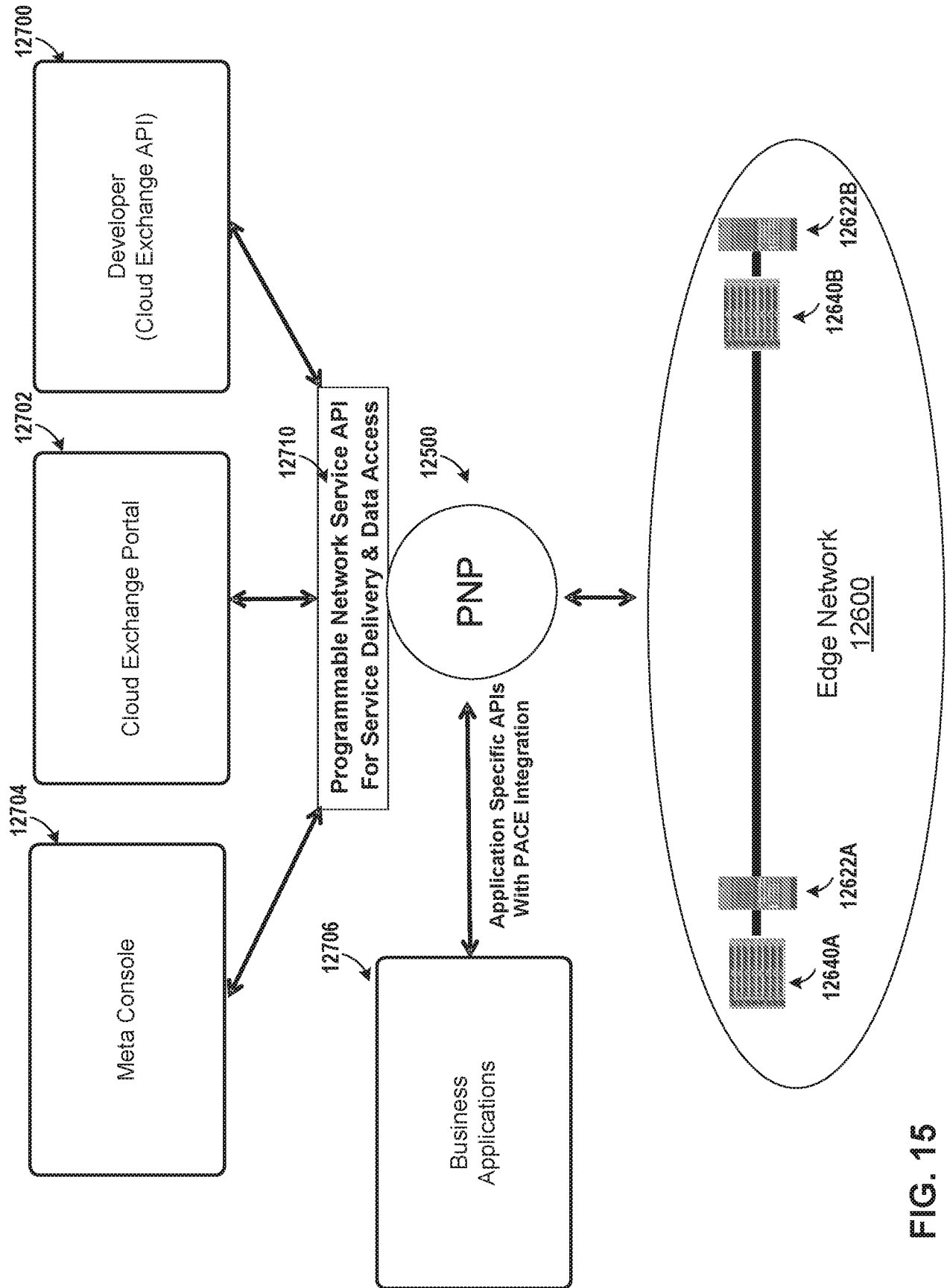
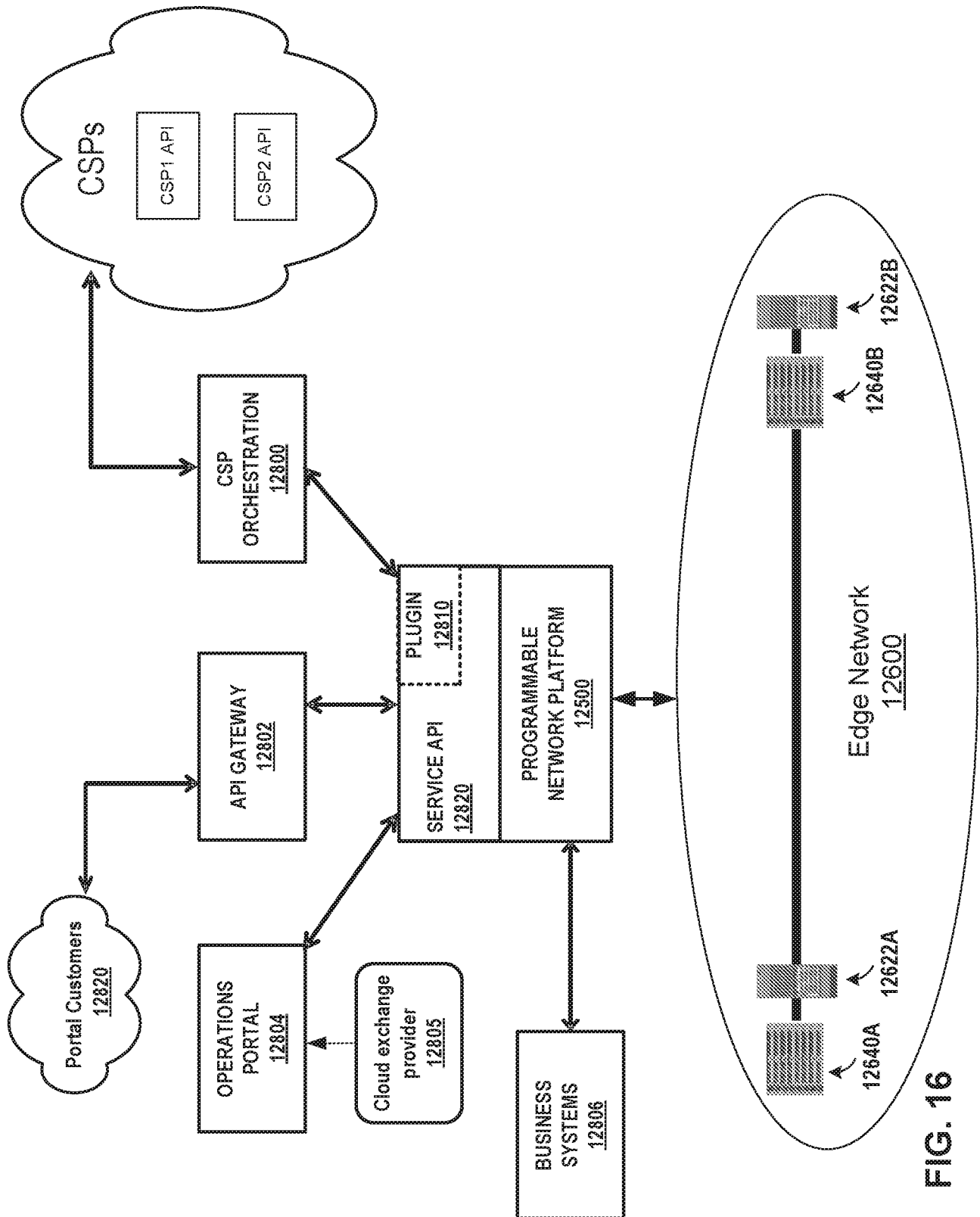


FIG. 15



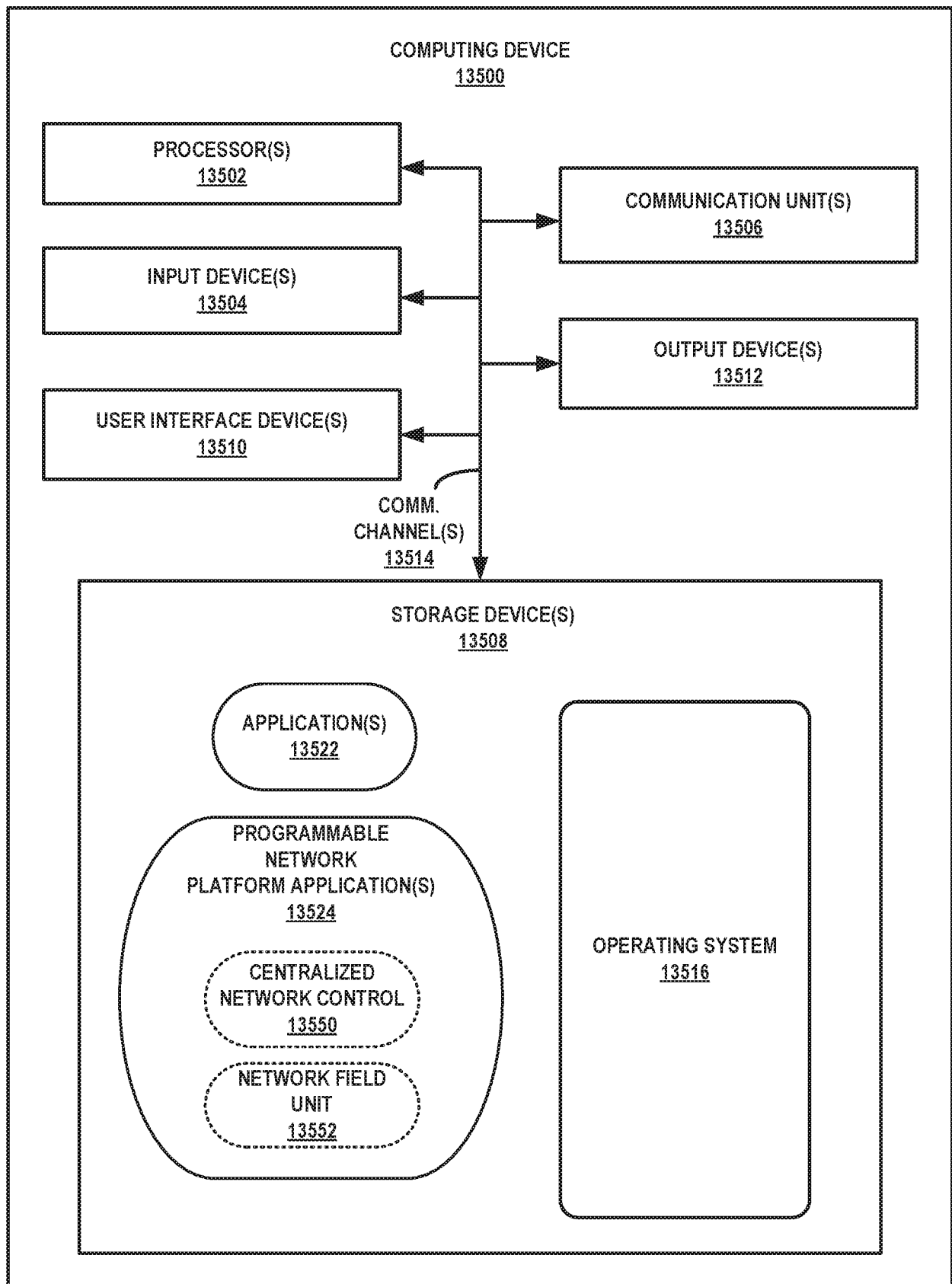


FIG. 17