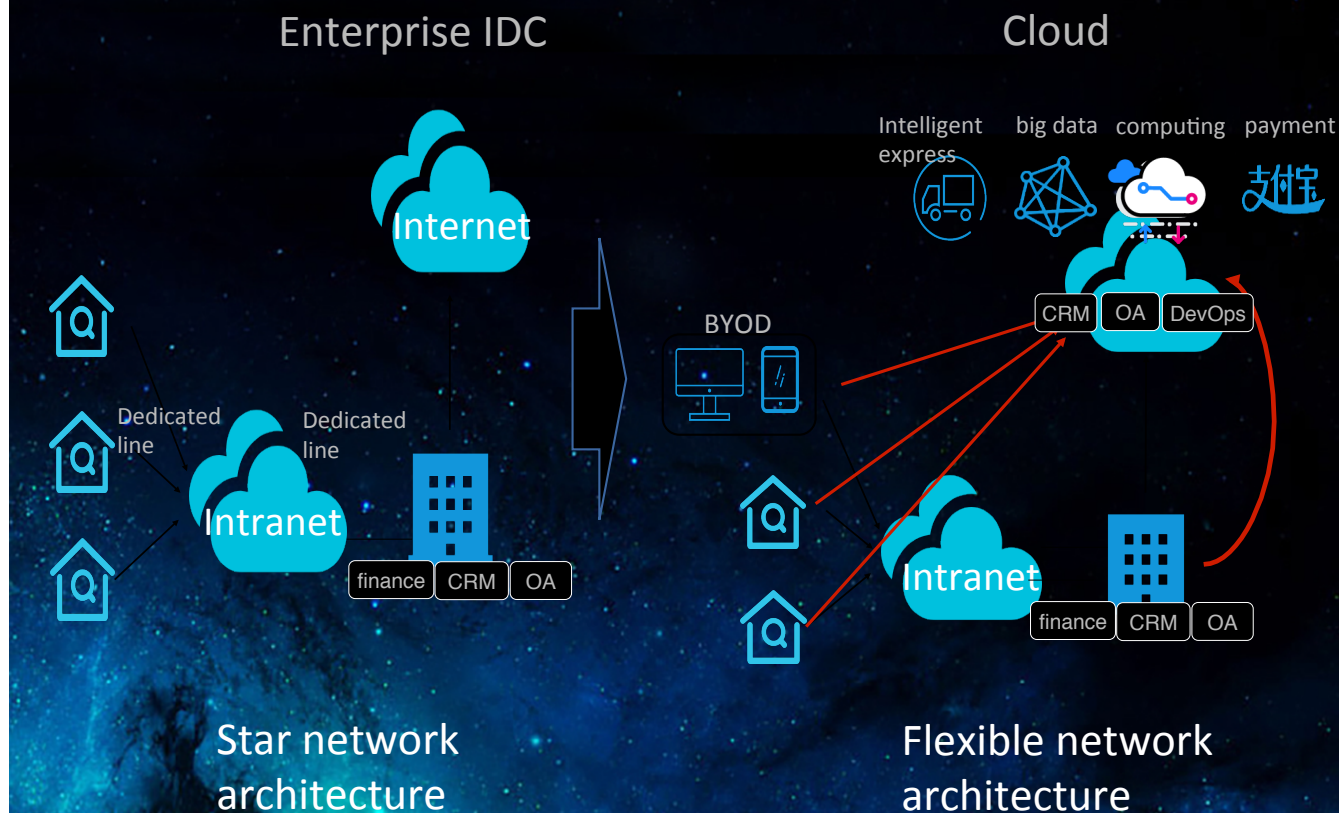





Open hybrid cloud network architecture based on SDWAN

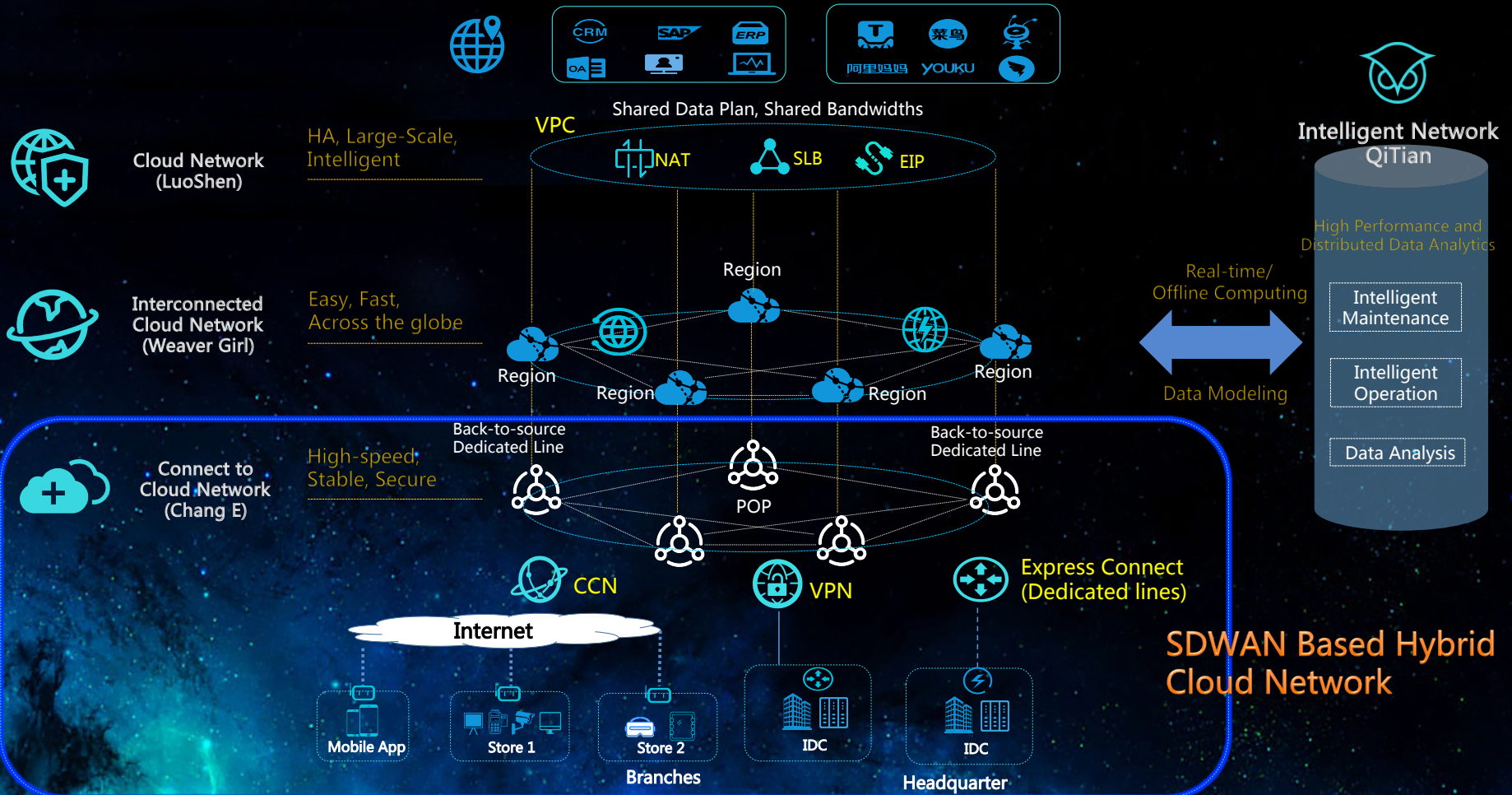
Trend and Challenges



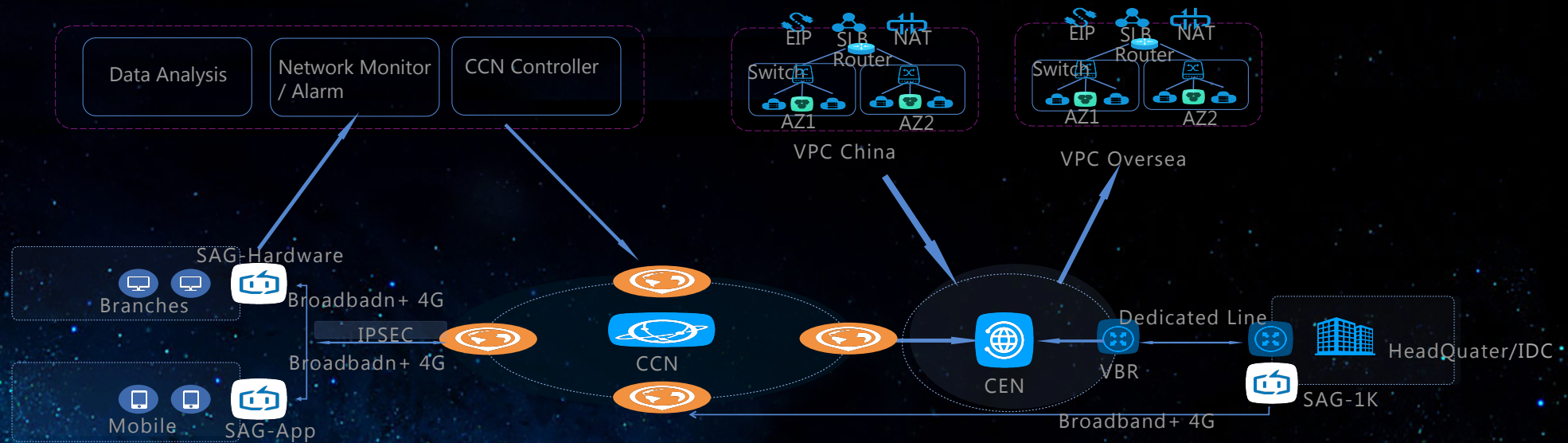
Network Challenges:

-  **Long Open Cycle**
(Dedicated line: months)
-  **Operations**
(thousands of network configurations)
-  **Not Stable**
(Delay, Jetter, Loss)

Apsara Cloud Network Solution



CCN - SDWAN Based Hybrid Network Architecture



Kinds of terminals

Hardware – On Shelf box/Desktop
Software – Mobile App Client

Inter-connections Over Regions

Connect to local POP
Virtual dedicated line over regions

Interconnect with Cloud

Access to VPC worldwide
Cloud Service Acceleration

Cloud Network Integration

Backup for dedicated line
Full network monitor

Characteristics

Simple

- Zero Touch Provision
- Cloud Network Integration
- Easy configure on the cloud
- SAG plugin and play

Open Ecosystem

- Certified 3rd Party Box
- Carrier Partners
- ISV/MSP Partners
- Empower the network operation abilities

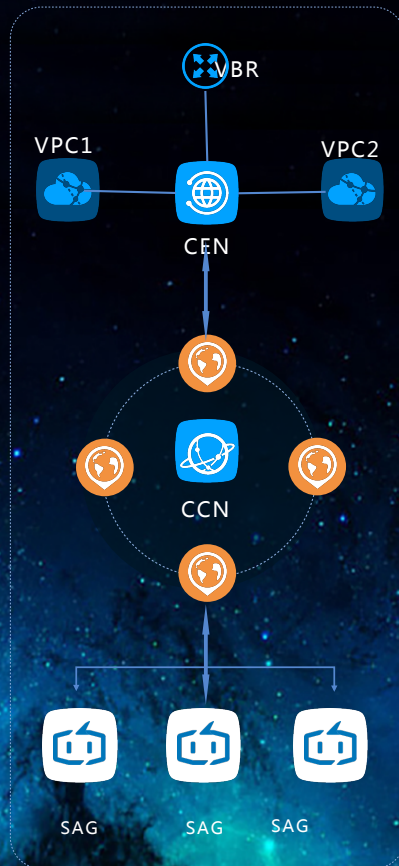
Security

- Tenant Isolation
- Encrypted Data Transfer
- Security Pop Site
- Anti-Attack/Tamper resistance

Quality

- Dedicated Line from POP to Region
- Global Wide POP Site
- Intelligent POP Selection
- Best Route Selection
- High Availability

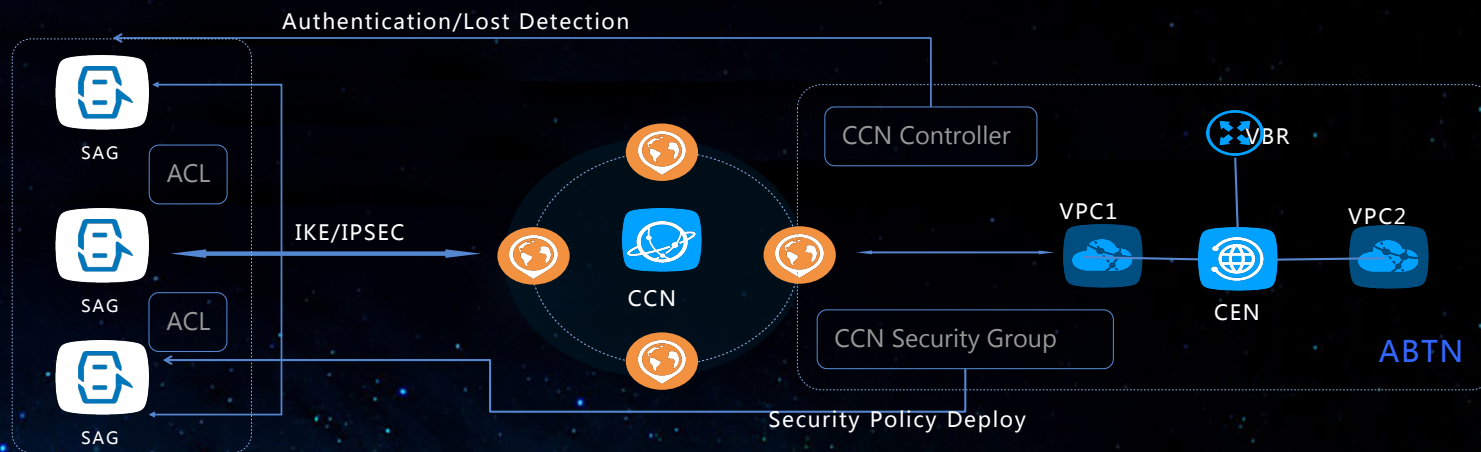
Plugin and connect to the Cloud



- Automatic configuration
- Best pop site select automatically
- Link failure detection & alarm
- Traffic monitor
- Zero touch provision
- Free operation



End-To-End Security



End-To-End Security

- SAG Authentication/Lost Detection
- Tanent Isolation with private network
- Integrated Security Control
- Anti-Attack/Tamper resistance
- Traffic Encryption

Various terminals and way of connect to the cloud



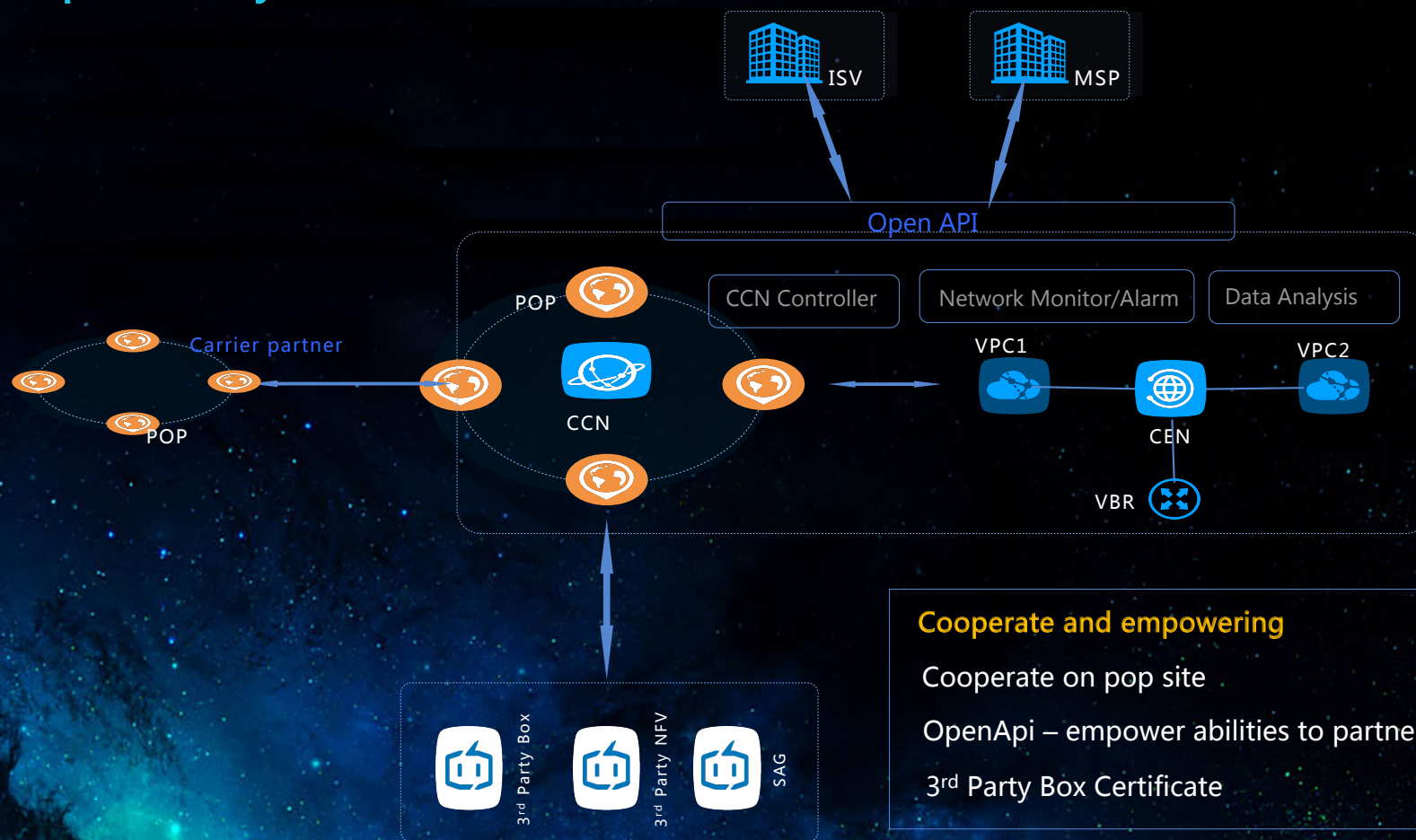
Kinds of connection to cloud

Internet
Dedicated line

kinds of terminals

App client with ssl vpn
Hardware box/3rd
VM Images

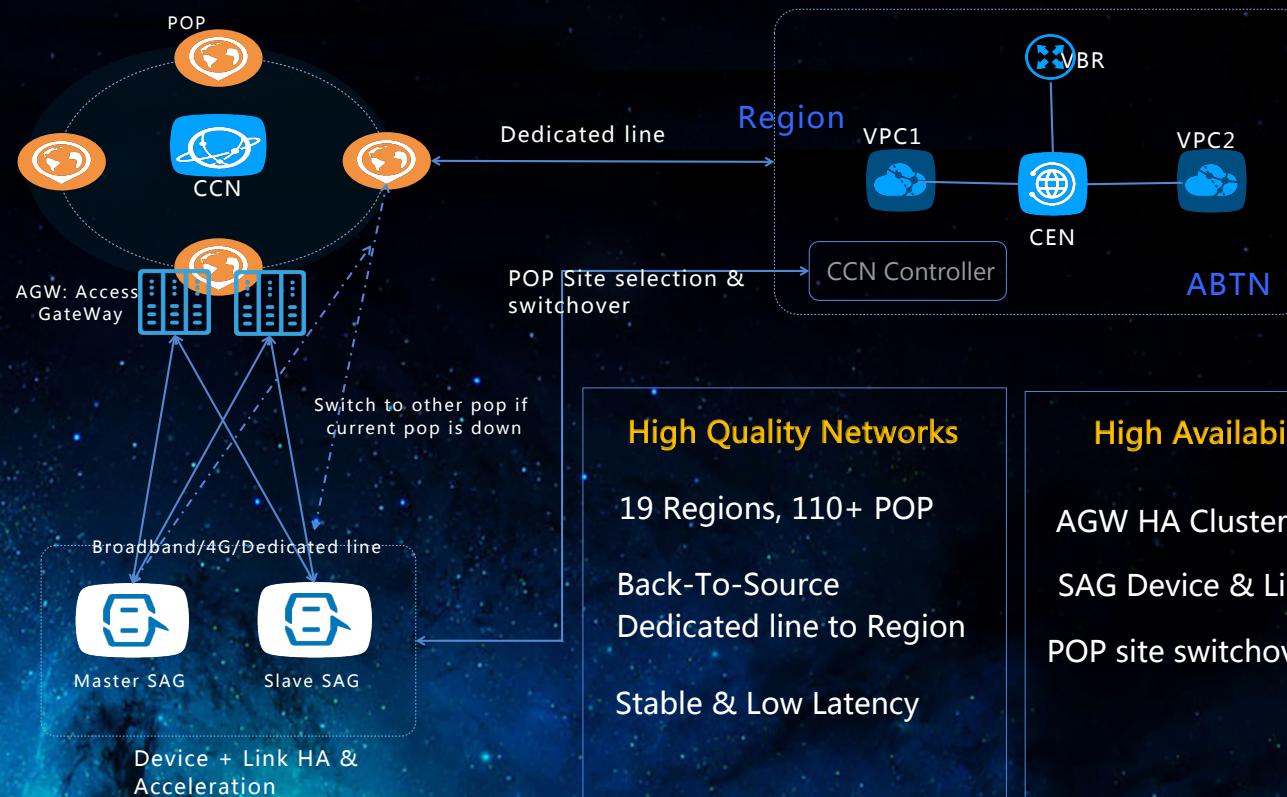
Open Ecosystem



Cooperate and empowering

- Cooperate on pop site
- OpenApi – empower abilities to partners
- 3rd Party Box Certificate

High Quality Network and Services



High Quality Networks

19 Regions, 110+ POP
Back-To-Source
Dedicated line to Region
Stable & Low Latency

High Availability Services

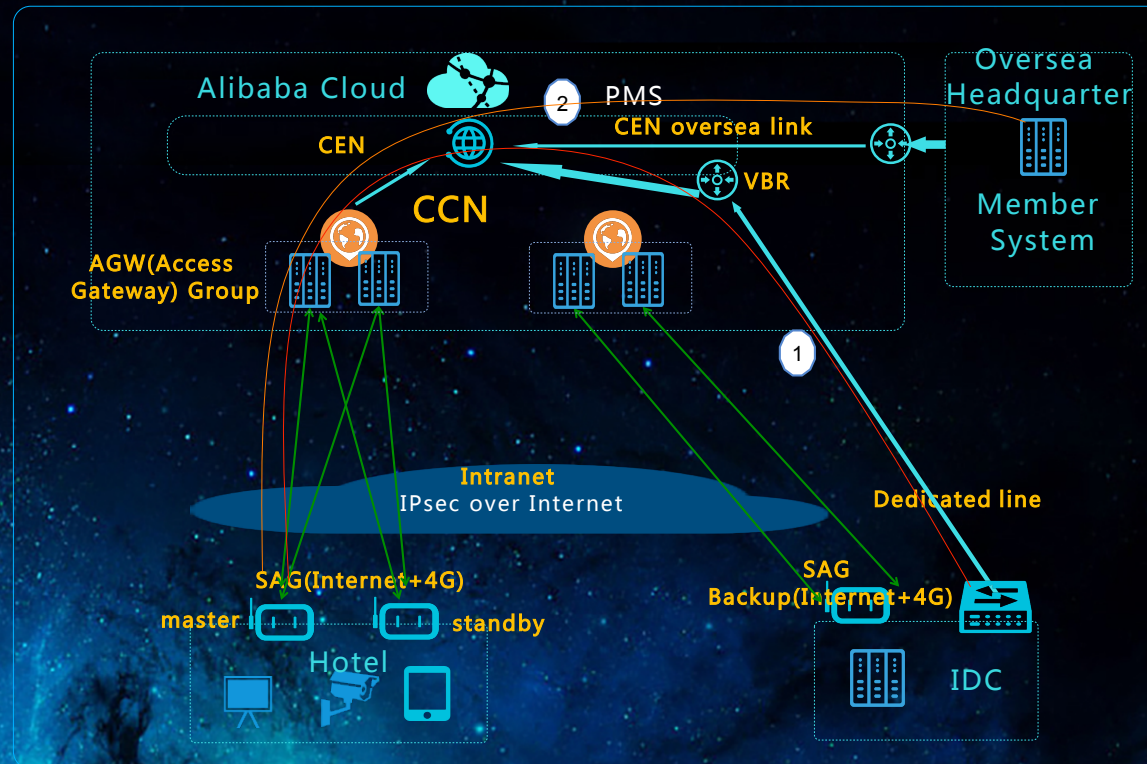
AGW HA Clusters on POP
SAG Device & Link HA
POP site switchover

Acceleration

SAG-AGW link Acceleration
Optimized route in ABTN

HA Scenario – International Hotel

Normal traffic

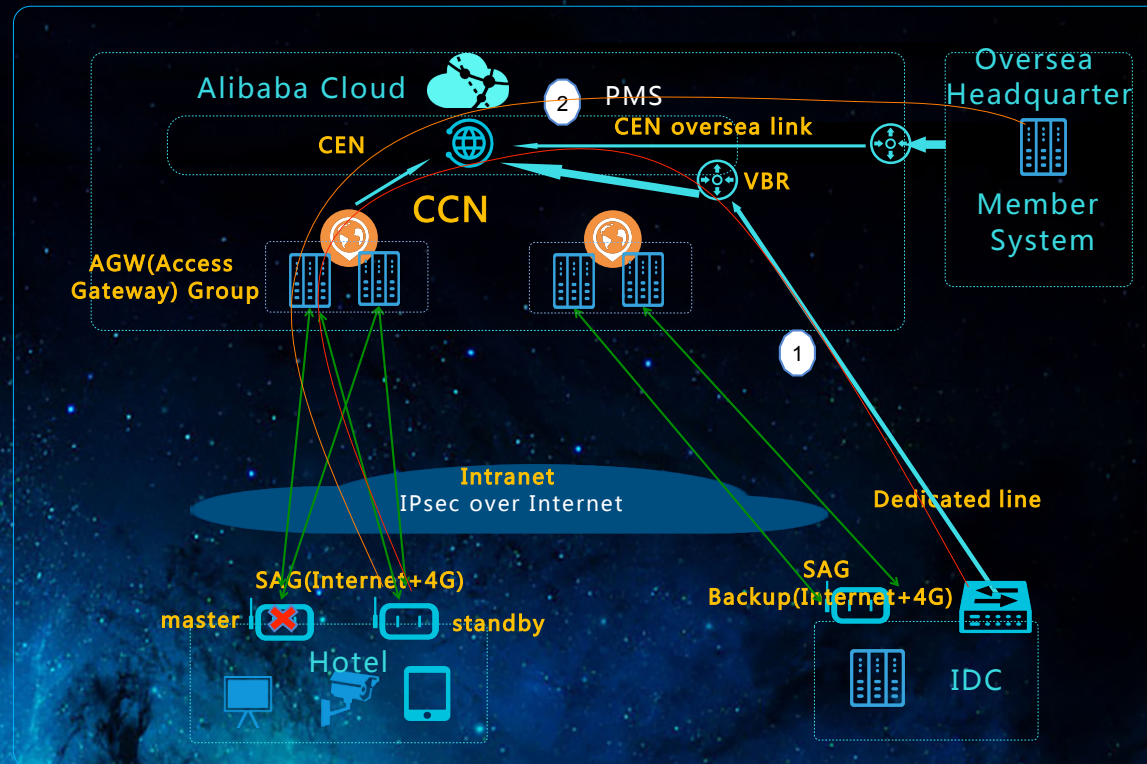


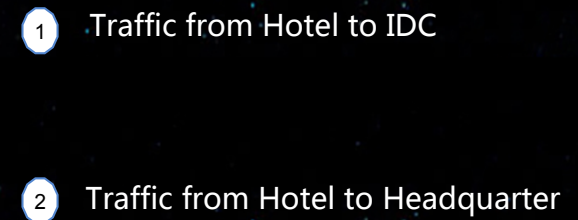
1 Traffic from Hotel to IDC

2 Traffic from Hotel to Headquarter

Symmetric flow path

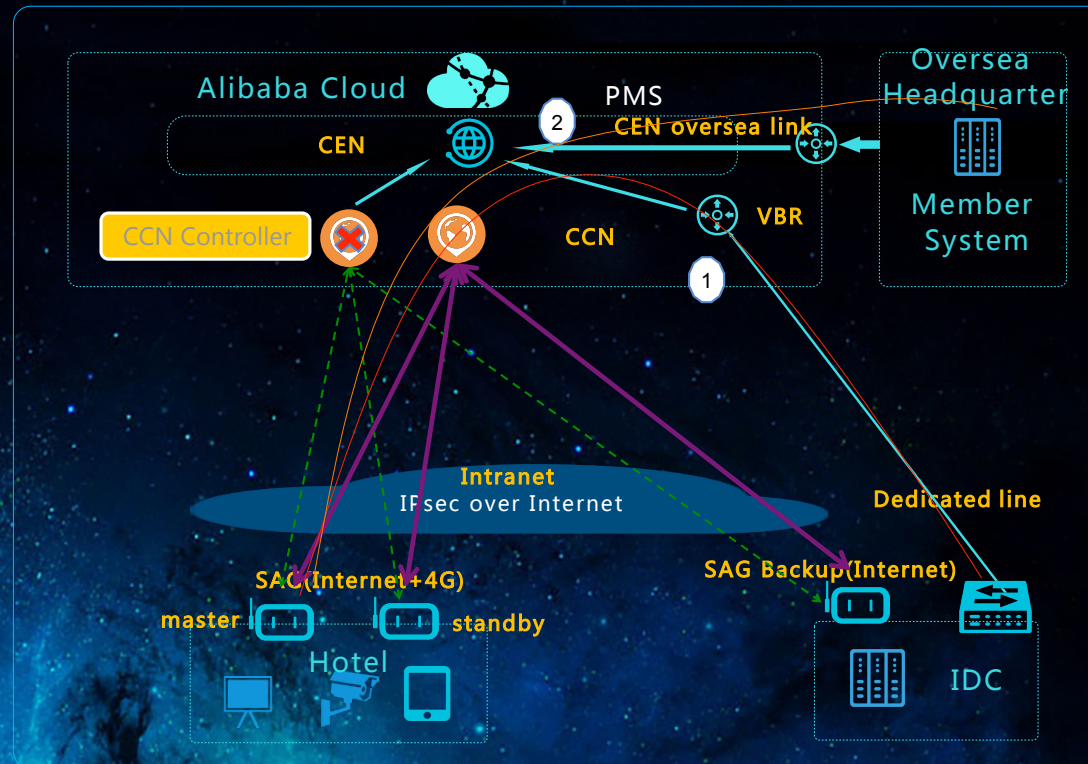
HA Scenario – International Hotel SAG switchover





Symmetric flow path

HA Scenario – International Hotel POP site switchover

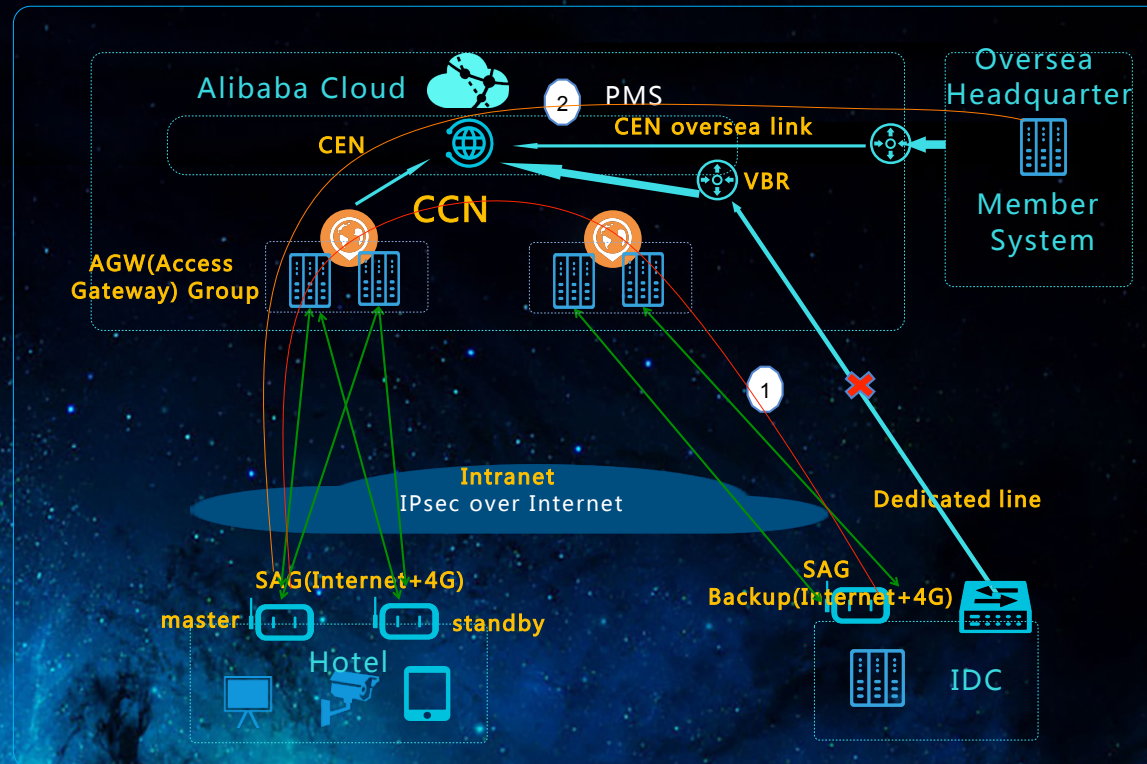


1 Traffic from Hotel to IDC

2 Traffic from Hotel to Headquarter

Symmetric flow path

HA Scenario – International Hotel Dedicated line switchover



1 Traffic from Hotel to IDC

2 Traffic from Hotel to Headquarter

Symmetric flow path



Our Mission

Simplify the Network!