Chunghwa Telecom

Your **APAC Connection Hub** to the world

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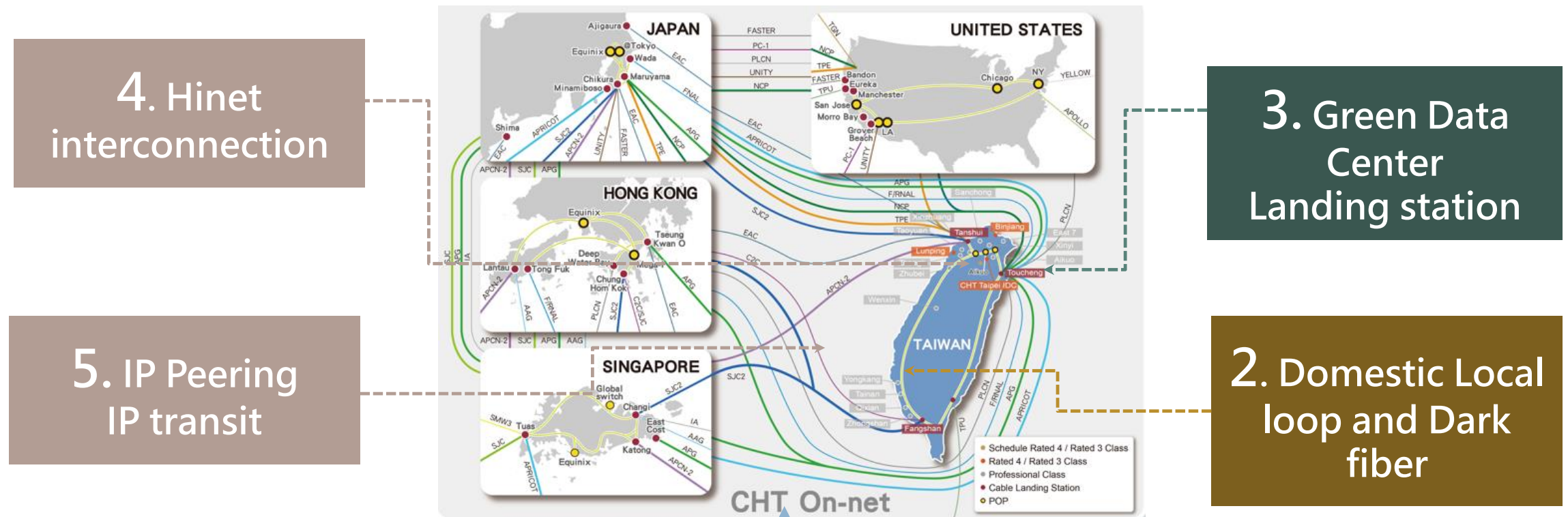# Five-in-One Connection Solutions

Chunghwa Telecom leverages Taiwan's strategic location in the Asia-Pacific region to provide a comprehensive **5 in 1 connection services**.

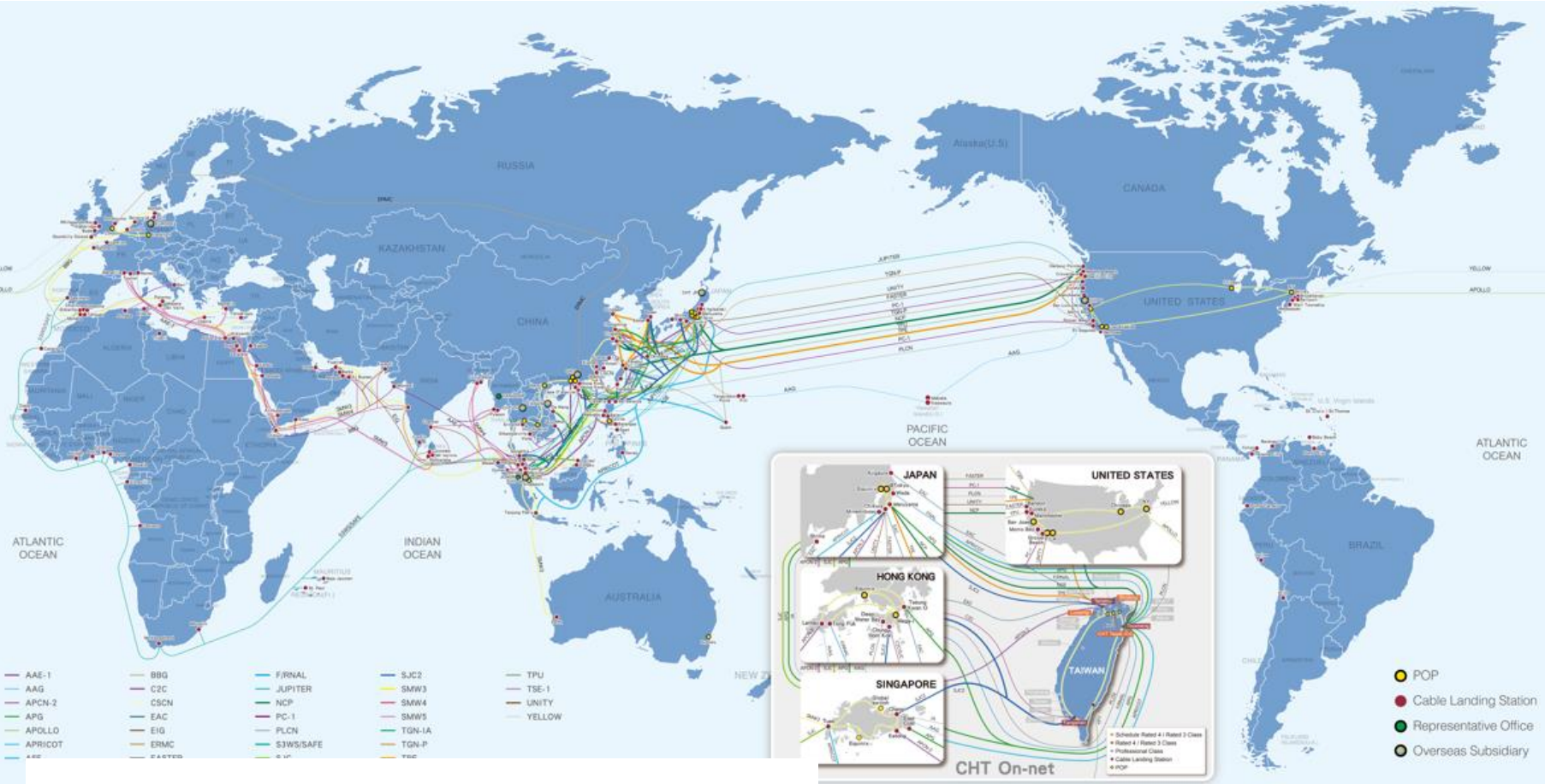4. Hinet interconnection

5. IP Peering IP transit

3. Green Data Center Landing station

2. Domestic Local loop and Dark fiber

1. Global network connectivity (IPLC, IPVPN)

Five-in-One Connection Solutions

1. Global network connectivity

CHT Global Networks

31	Undersea Cables
14	Transoceanic Undersea Cables
52	Global PoPs
>100	Tbps Total Capacity
4	Global Cable Landing Stations
22	Data Center
15,000+	Racks

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Chunghwa Global Network(CGN) POPs Coverage

- **52** Pops covering **14** countries and **36** cities.
- Providing IPLC, IPVPN, Global IP Transit, SDWAN Service.

Europe

Asia & Oceania

America

- London
- Frankfurt
- Seoul
- Hong Kong
- Hanoi
- Tokyo
- Bangkok
- Taipei
- Makati
- Phnom Penh
- Ho Chi Minh
- Singapore
- Sydney
- Vancouver
- Portland
- Chicago
- Toronto
- Palo Alto
- Dallas
- New York
- San Jose
- Miami
- Los Angeles
- Houston

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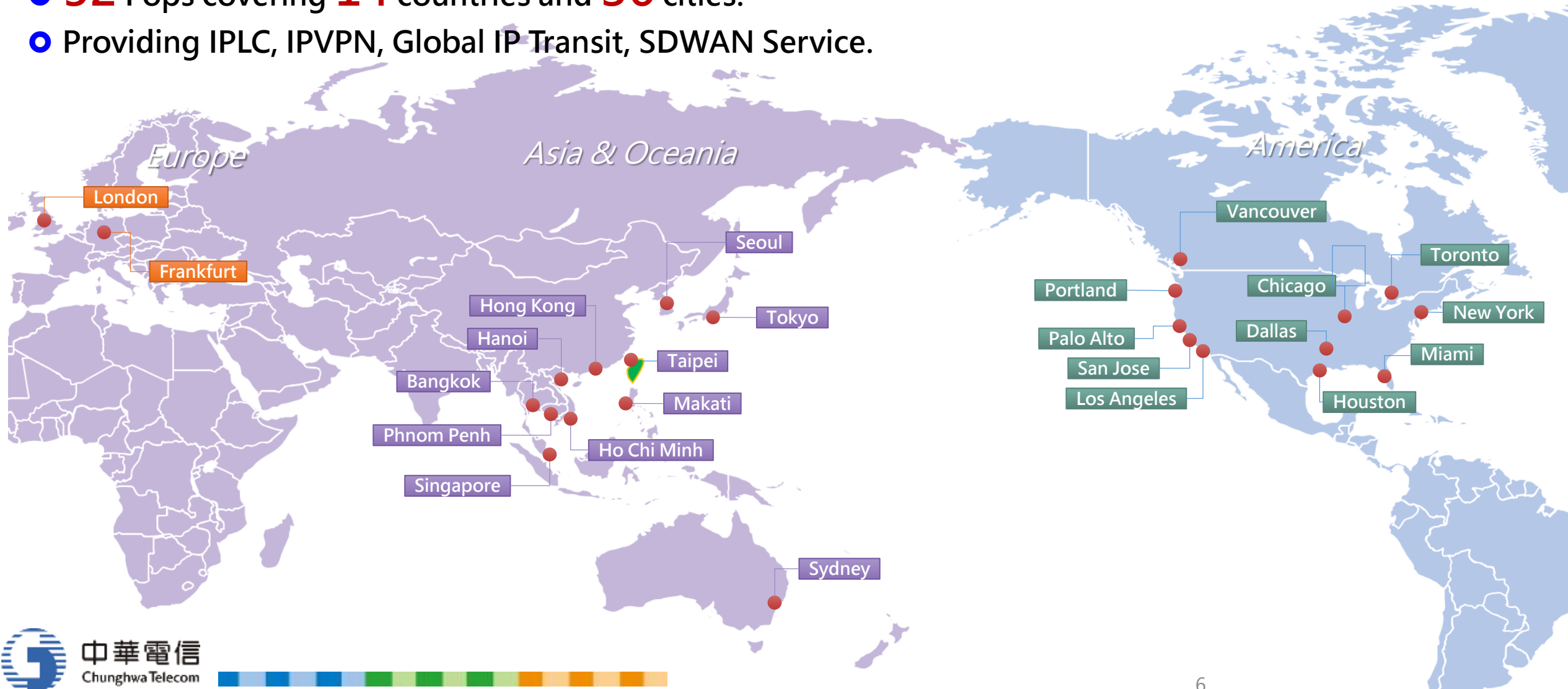
CHT Global Network Backbone for IPLC Service

- Providing Pop-to-Pop IPLC service with flexible bandwidth from 4M to 10G and 100G.
- Extending to customer site over the world through connecting with global partners' network resource.

Ring-based Network

Auto-Switching Route

Multiple Submarine Cable Protection

Full Controlling Network

Diversity Route

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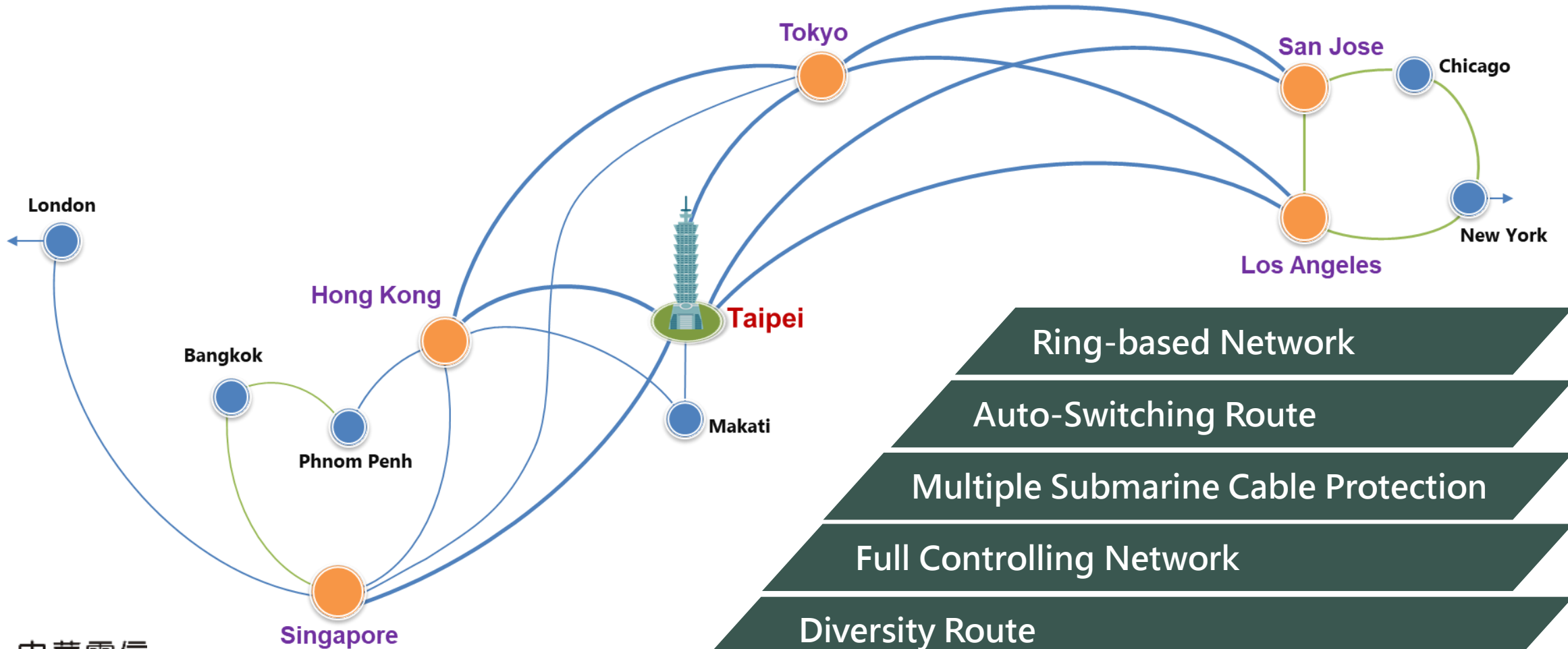
New Strategies of Cable Investment

- Providing **E2E solutions** for the connection of southeast Asia and North America.
  - SG-TW-US : APG/SJC2 + PLCN/NCP/TPE
  - HK-TW-US: APG/SJC2 + NCP/TPE

- **Multiple routes** to enhance the network robustness and security

- Driving the growth of land cable and IDC business
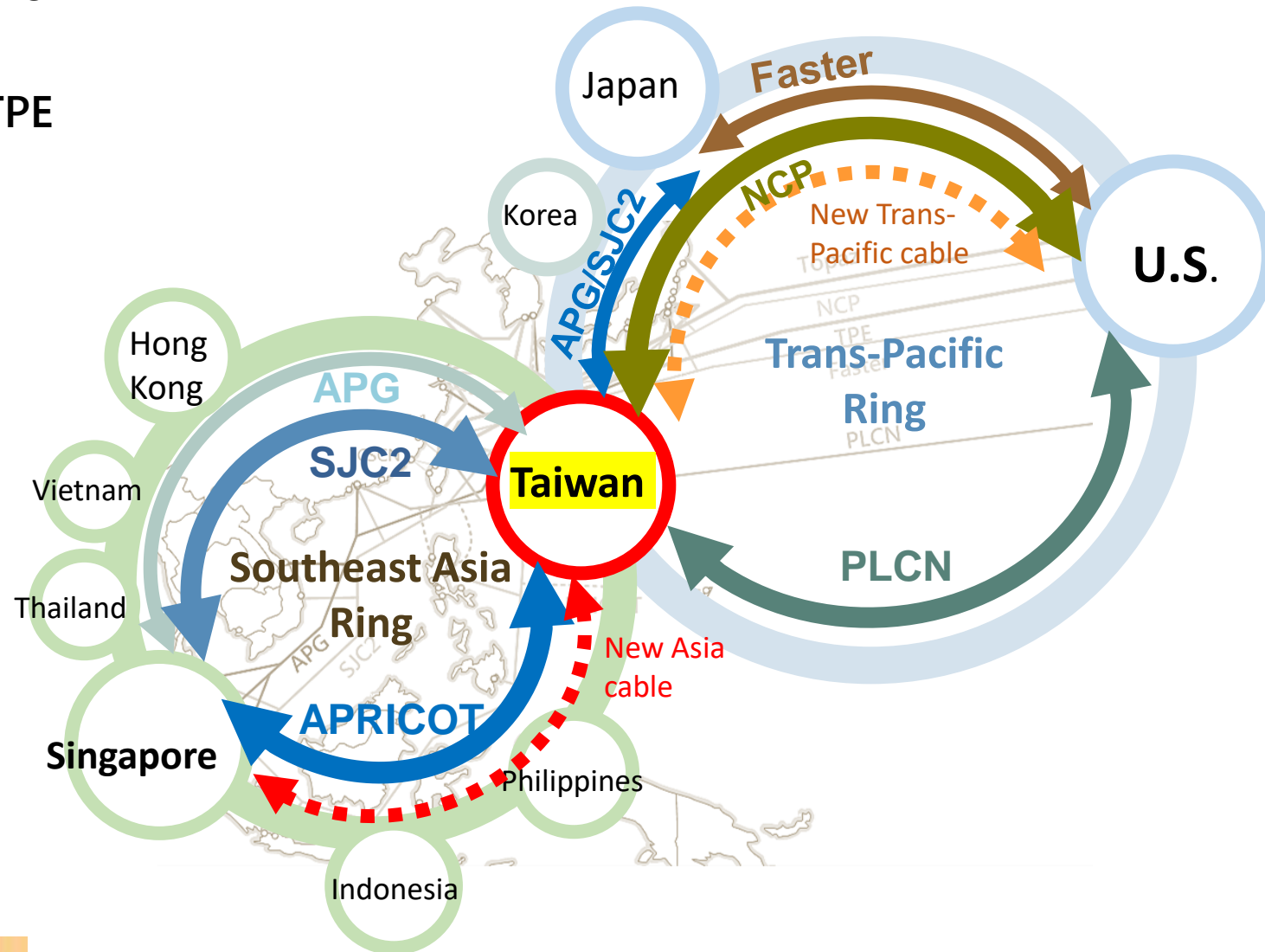
Five-in-One Connection Solutions

2.Domestic local loop and Dark fiber

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CHT's Domestic Local Loop

Nearly 100% of fiber underground
– the highest density carrier in Taiwan

Fully Diverse Multiple Routes
– both East & West Coast

The most skillful and experienced engineers
- expedite the trouble-shooting and shorten the outage

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Fiber covers all Taiwan

■ **West Coast Dark Fiber**

① Existing 3 Routs
② The 4th route is under construction

■ **East Coast Dark Fiber**

① Existing 2 Routes
② Shortest route between North landing station and South Landing Station

Five-in-One Connection Solutions

3. Data Center

No.1 Data Center Leading Provider in Taiwan

Your No.1 IDC Choice in Taiwan

IDC
Chunghwa Telecom

Your Achievement   Our Success

S Safety
Fire, flood, drought, earthquake protection
24-hour video surveillance

A Always on
Reliability exceeds 99.995%; Rated 4 power
ISO 9001/ISO 27001/ISO 50001/OHSAS 18001

F Flexibility
Largest network in Taiwan
18,733 Gbps HiNet (domestic) backbone
3,829 Gbps HiNet international connectivity

E Expertise
20 years IDC and network experience
Highest market share in Taiwan
Next generation Green IDC

Sanchong
Binjiang
Xinzhuang
Taoyuan
Tanshui
East 7
Xinyi
Aikuo
Zhongli
Aikuo
Zhubei
Toucheng
Wenxin
CHT Taipei IDC

TAIWAN

Yongkang
Tainan
Qixian
Fangshan
Zhongshan

- Scheduled Rated 4/Rated 3 Class
- Rated4 / Rated3 Class
- Professional Class
- Cable Landing Station
- POP

CHT On-net

Certifications of Taipei DC

- International:
  - ✓ TIA 942-B Rated 3 & TIA 942-A Rated 4
  - ✓ Uptime Institute M&O
  - ✓ LEED Gold
  - ✓ ISO 27001(information security)
  - ✓ ISO 45001(occupational health and safety)
  - ✓ ISO 50001(energy management)
  - ✓ PCI-DSS (Payment Security)
  - ✓ SOC1 SOC2 Report
- National:
  - ✓ Green Building
  - ✓ Intelligent Building
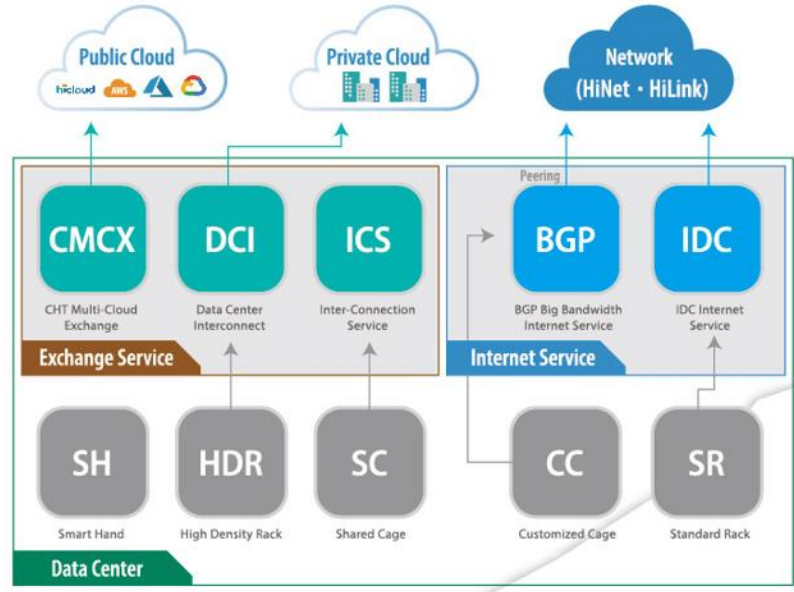 - ✓ Structure Accreditation Building
  - ✓ Fire Safety Building

TIA
TIA-942 Rated 4 / Ra
BSI
ISO27001
LEED GOLD
DNV-GL

AICPA SOC
PCI
M&O

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CHT Upcoming IDC

22

Green Data Centers in Taiwan

⭐ Upcoming new IDC 2025-2026
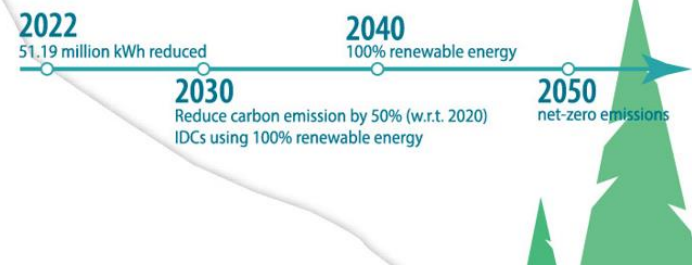
Next Generation IDC/Cloud Network Integration

Public Cloud — hicloud, AWS, Azure, Google Cloud

Private Cloud

Network (HiNet · HiLink)

Exchange Service

CMCX	DCI	ICS
CHT Multi-Cloud Exchange	Data Center Interconnect	Inter-Connection Service

Internet Service

BGP	IDC
BGP Big Bandwidth Internet Service	IDC Internet Service

Peering

Data Center

SH	HDR	SC	CC	SR
Smart Hand	High Density Rack	Shared Cage	Customized Cage	Standard Rack

2040
100% renewable energy
New DC : PUE under 1.37

Green IDC Efficiency Energy Strategies

Green Energy	Energy Efficiency
2023: 50 million kWh green power used (Largest scale in Taiwan)	Utilizing free-cooling, cold/hot aisle isolation, fan wall, and more
2026: Sign large-scale of CPPA (Consistent use renewable energy)	Higher performance of PUE (under 1.39 at the most)
2030 : 376 million kWh green power used	CO₂ emission reduction
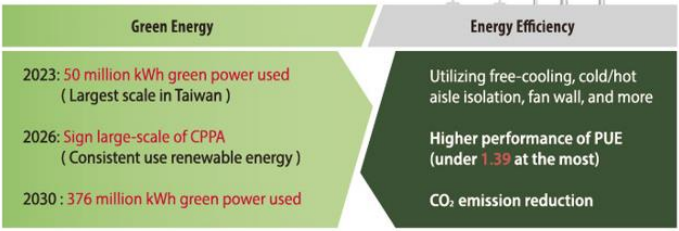
Existing IDC	AI-integrated energy-saving system：reducing PUE to 1.6. Achieving an 11% energy-saving rate.
Expansion IDC	Reduce the current PUE from 1.8 to under 1.5. Achieving a 17% energy-saving rate.
New IDC	High-efficiency data center design. Achieving a PUE of below 1.39 , energy-saving rate of 23%.

2022 — 51.19 million kWh reduced

2030 — Reduce carbon emission by 50% (w.r.t. 2020) IDCs using 100% renewable energy

2040 — 100% renewable energy

2050 — net-zero emissions

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4. IP Peering
5. IP Transit

TWIX-Best Peering Hub in Taiwan

4 Sites of exchange center

- **Taipei City** : is the main site for providing internet exchange service.
- **New Taipei City** (Banqiao)
- **Taichung**
- **Kaohsiung**

**To provide a better quality of service, and in a more convenient way**

Taipei

Banqiao

Taichung

Kaohsiung

Member list

HiNet (3462)	Google (15169)	Akamai (20940)
Cloudflare (13335)	AT&T (2687)	Far Eas Tone (4780)
Amazon (16509)	Gigamedia (9416)	APOL/APTG (17709,9415)
TFN (9924)	SYSNET (4783)	So-net (18182)
TWNAP (7655)	Chief (17408)	TISNet (7535)
Symphbox (9216)	Gamania (7532)	WorldStar (131603)
Diyixian (9244)	Ansonnet (131612)	eASPNet (10135)
KBT (18042)	Sprint_TW (Sprint-Taiwan) (1239)	TST (24157)
YuanJhen (131149)	Taifo (131584)	Pumo (38843)
TINP (18049)	天空數位 (134823)	GSN (4782)
TWNIC (131621)		

# TWIX-Best Peering Hub in Taiwan

Network Architecture
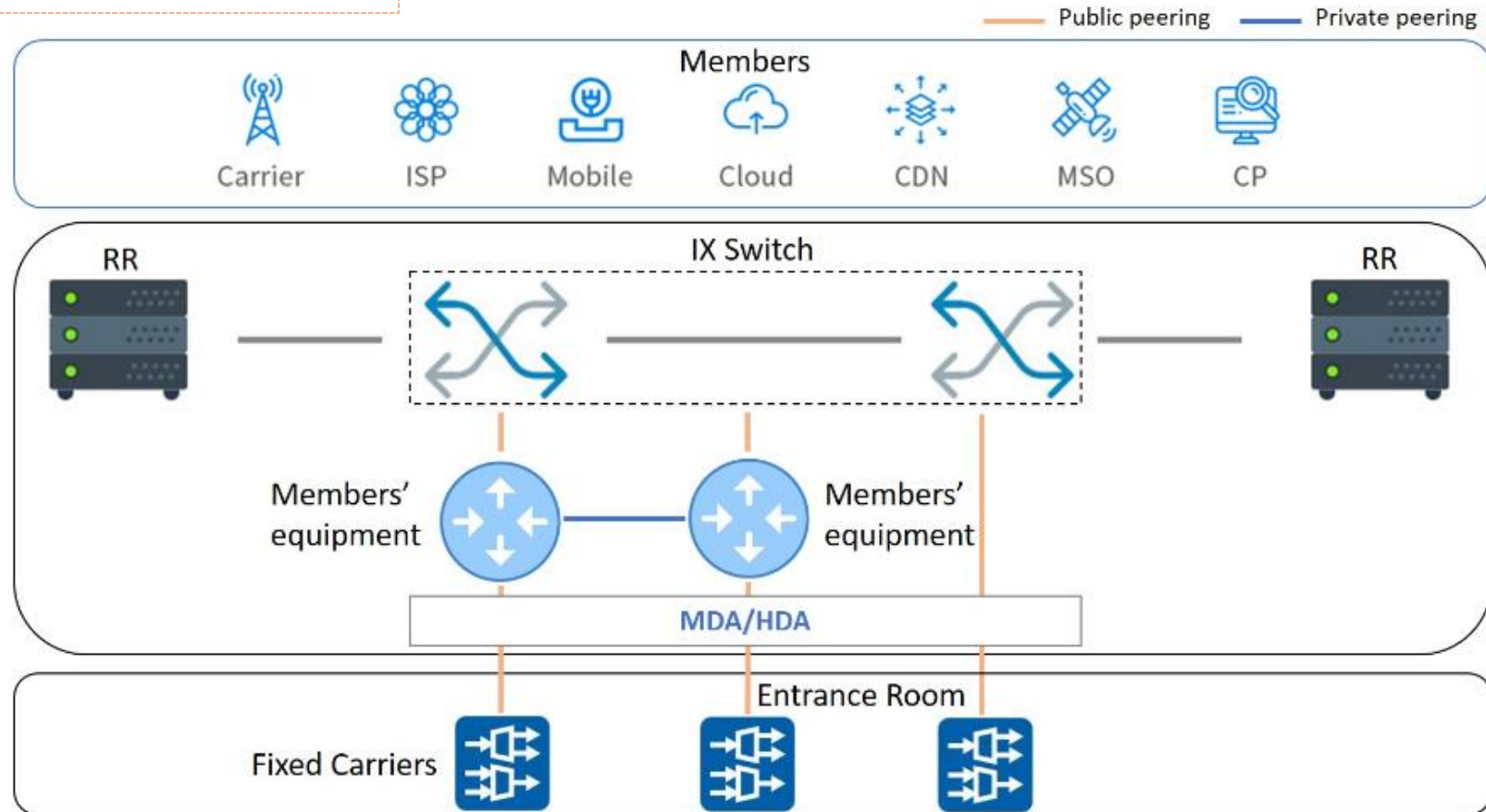
The network architecture of TWIX is composed of Ethernet Switches (E/S) and Route Reflectors (RR). The types of equipment are listed as follows.
  (1) E/S：Providing peering connection of FE/GE/10GE interfaces.
  (2) RR：Providing public peering sessions.

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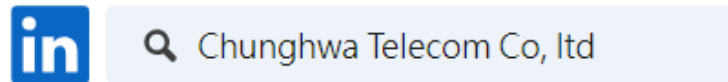
**Limited quantity
today only**

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