

More Than Bandwidth

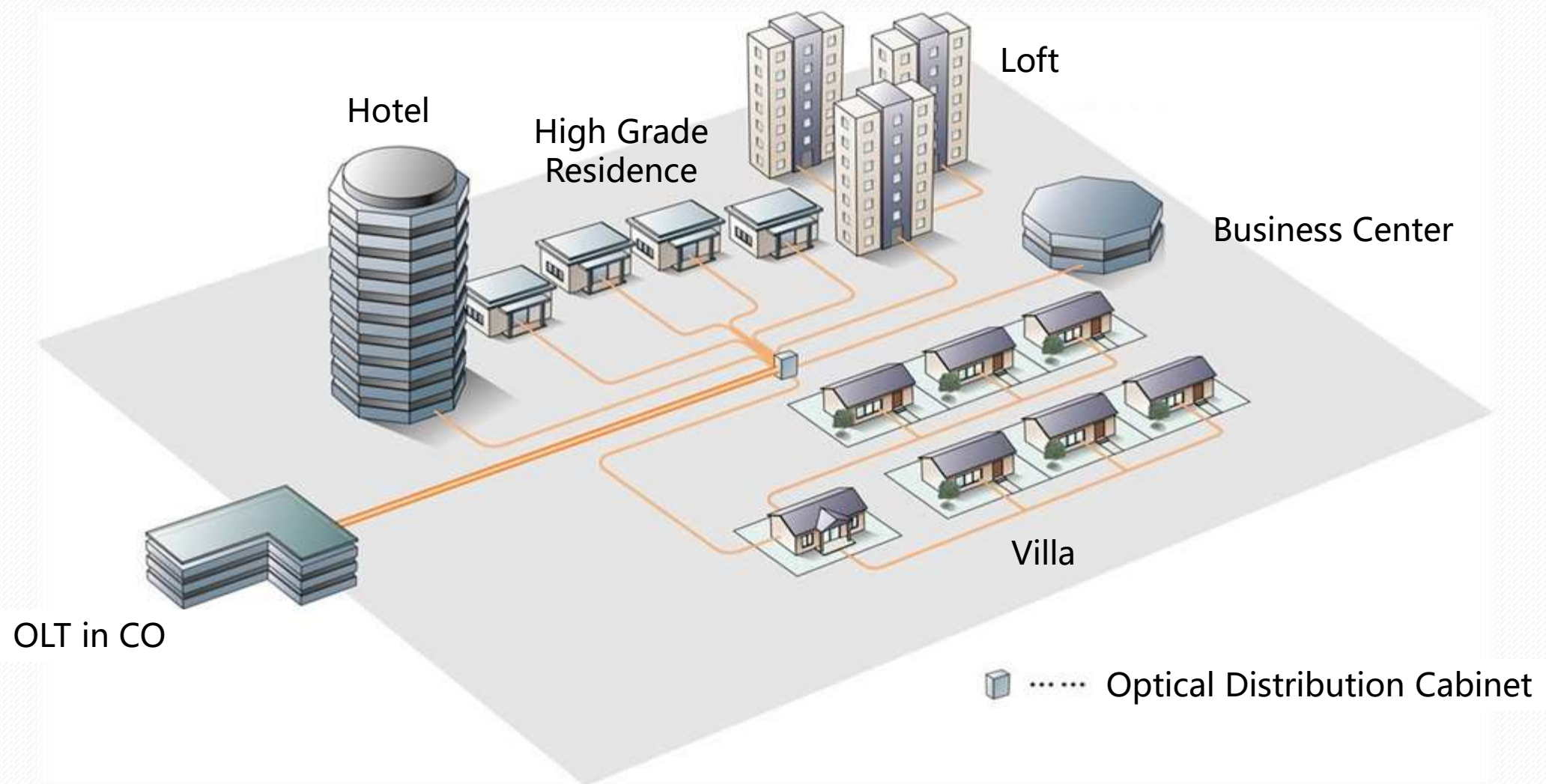
Next Generation Access Solution

Broaden Your Future

Content

- 1. Fiberhome Progress On FTTx**
- 2. FiberHome Recent Achievements**
- 3. Suggestions And Key Projects**

Fiberhome Traditional FTTx Deployment Overview



Covers various access scenarios

Fiberhome in Chinese FTTx market



The first commercial FTTH project in CHINA
(Apr,2005)



We led creating FTTx industry alliance
(Oct,2008)

Leading vendor of the world

- More than 10 years PON technology R&D



- **30%** market share, **3.75M** lines deployed



- **20%** market share, **15.5M** lines deployed



- **20%** market share, **11M** lines deployed



SOURCE: OVUM/Market Share Report,1Q14

FiberHome FTTx global deployment



Global presence

50 million lines

27 countries



Recent achievements

- ✓ More than 1000 technical standard proposals and patents in ITU-T, IEEE, CCSA.
- ✓ Fiberhome win a bid of the Indonesia National Broadband Network with Telkom Indonesia (15M lines in 5 years).
- ✓ Fiberhome has undertaken the FTTx construction of Telekom Malaysia\PLDT\CAT (The Communications Authority of Thailand) in Southeast Asia
- ✓ Fiberhome has provided services for the Brazil users of Brisnet\Copel\WDC in South America.
- ✓ PON products shipments are ranked fourth of global FTTX market.



Fiberhome in Asia FTTX market

Malaysia



Fiberhome is the first turnkey vender for Malaysia telecom. From 2009-2013, more than 100,000 FTTH users are supplied by FH GPON products.

Philippines



Fiberhome is the sole turnkey vender for PLDT. The project starts from 2012. FiberHome has deployed the first commercial GPON network in Manila for 85,000 FTTH subs.

India



From 2008-2012, Fiberhome has deployed more than 130,000 FTTH subs in India, including EPON and GPON project.

Indonesia



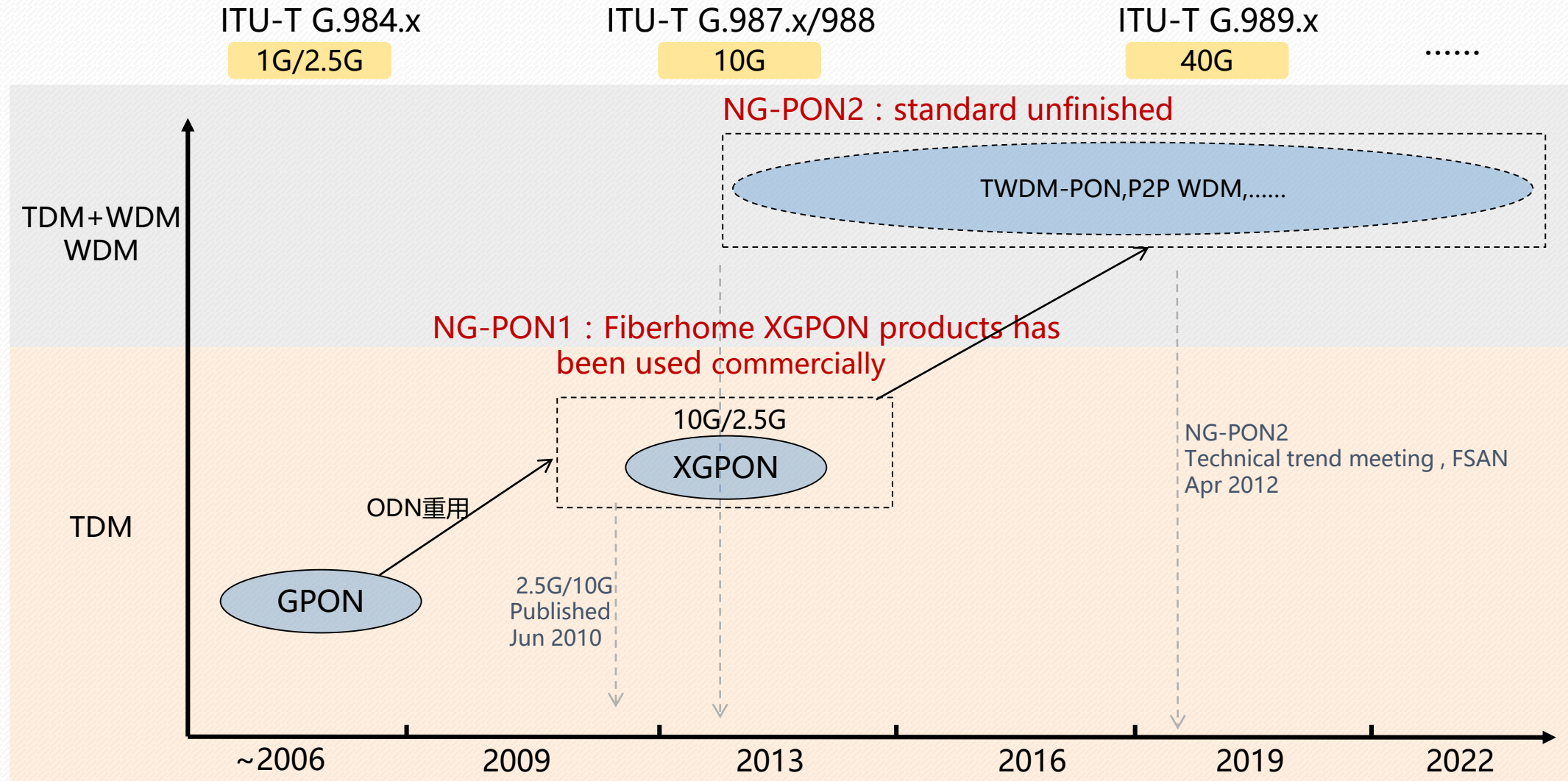
Fiberhome is joining in Indonesia national FTTX project constructing. This project will cover 7,500,000 FTTX users in next 3 years.

Thailand



FiberHome is the mainstream supplier of FTTH GPON/EPON network in Thailand, and has been deployed more than 250 OLTs & 80, 000 terminal users in total.

Fiberhome NG-PON Development Path



1G PON → 10G PON → TWDM PON → P2P WDM

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Traditional Family

xPON Integrated **OLT** Platform



xPON series **ONU**

OLT



AN5116-06B

12U
16 service slots
1+1 core switch
1+1 uplink card
1+1 power supply



AN5516-06

6U
6 service slots
1+1 core switch
1+1 uplink card
1+1 power supply



AN5516-04

2U
2 service slots
1+1 core switch
1+1 uplink card
1+1 power supply

SFU



01 series

1GE/1FE+1POTS



04 series

4GE/4FE+2POTS+CATV



04 WiFi series

4GE+2POTS+WiFi+CATV

MDU



07/09/10 series

Type A: 8/16/24 FE
Type A+: 8/16/24 FE with PoE
Type B: 8/16/24 FE+POTS



20 series

256 POTS
256 ADSL
128 VDSL/VDSL2+
128+128 Combo
16 FE
4 E1



30 series

960 POTS
1024 ADSL
512 VDSL/VDSL2+
512+512 Combo
512 G.SHDSL(ATM)
128 G.SHDSL(TDM)

Fully FTTx solution

Products' Update Part 1



Mini OLT



Medium OLT

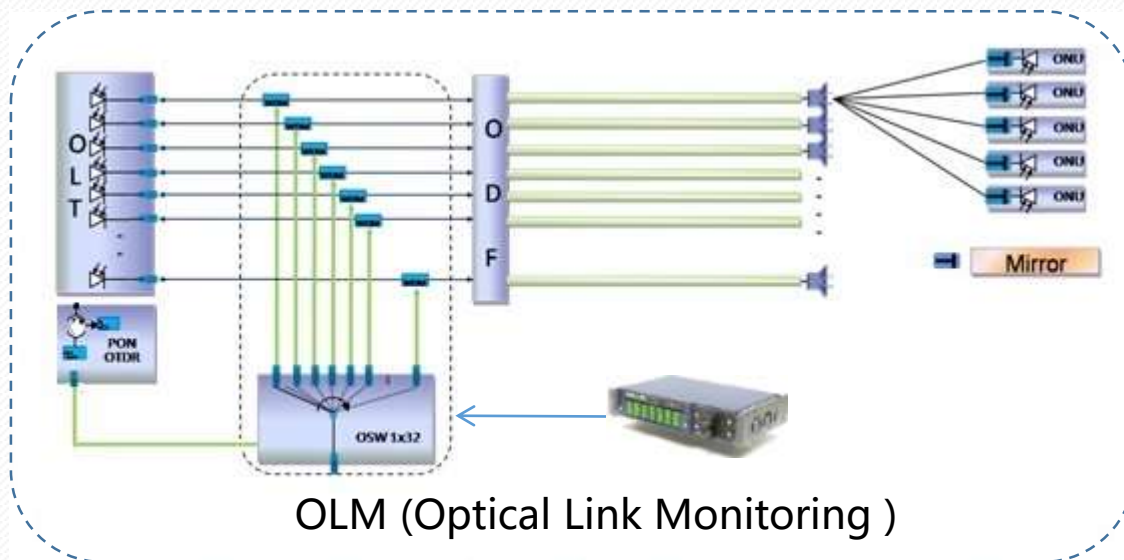


Large OLT

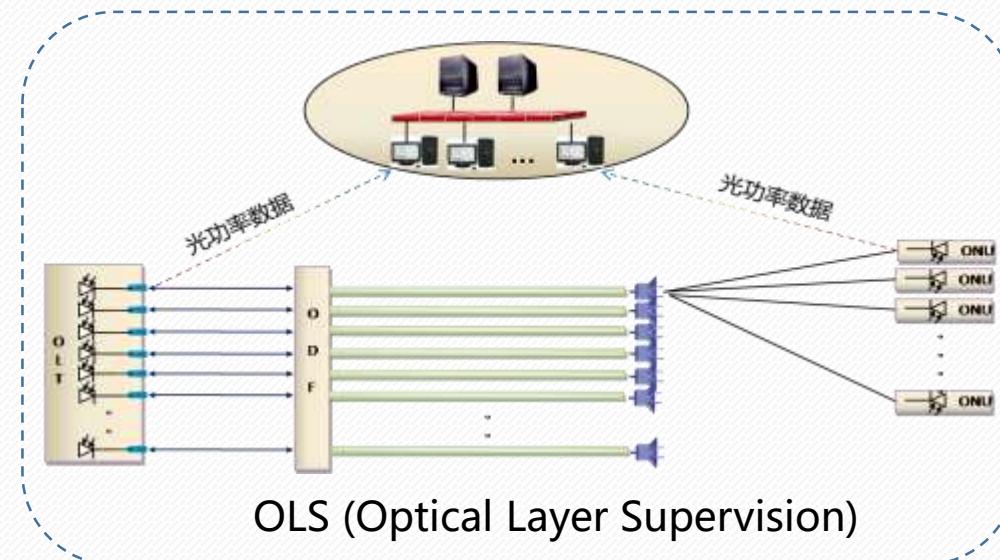
OTDR



- ✓ Unified EMS
- ✓ OLM+OLS analysis
- ✓ External OSW (Max. 4*64)
- ✓ 256 pon ports per card



+



OTDR board —— efficient assistor

Products' Update Part2

CBU



AN5161

UPLINK	GPON/GE
UNI	6*GE
POWER	AC/DC
SYNC.	Sync E, 1588v2

Small Cell
Mobile Back Haul

PoE/RPoE



AN5121

UPLINK	GPON
UNI	4*GE/8*FE
POWER	PoE/RPoE
OPERATING TEMP	-30°C~60°C

Data & Power Supply
for
Outdoor Monitoring
WAP

XG-PON



XP4A

More ports in the future

- ✓ FiberHome has 8 ports plan
- ✓ Using self patent ASIC
- ✓ Dual mode : GPON/XG-PON



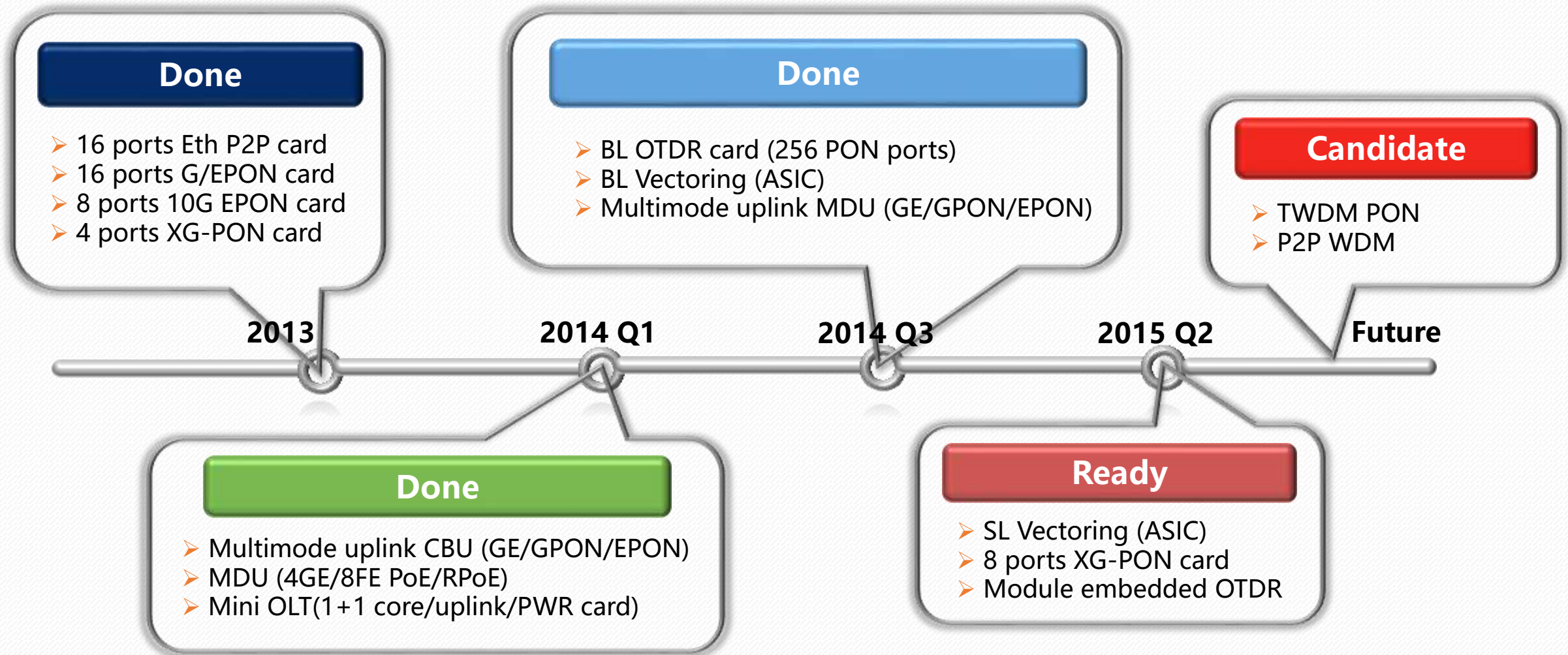
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plan for SFU

- ✓ Heat dissipation
- ✓ reduce cost

XG-PON、CBU、PoE/RPoE —— go ahead

Roadmap Till 2015



Fiberhome is going forward with a high speed

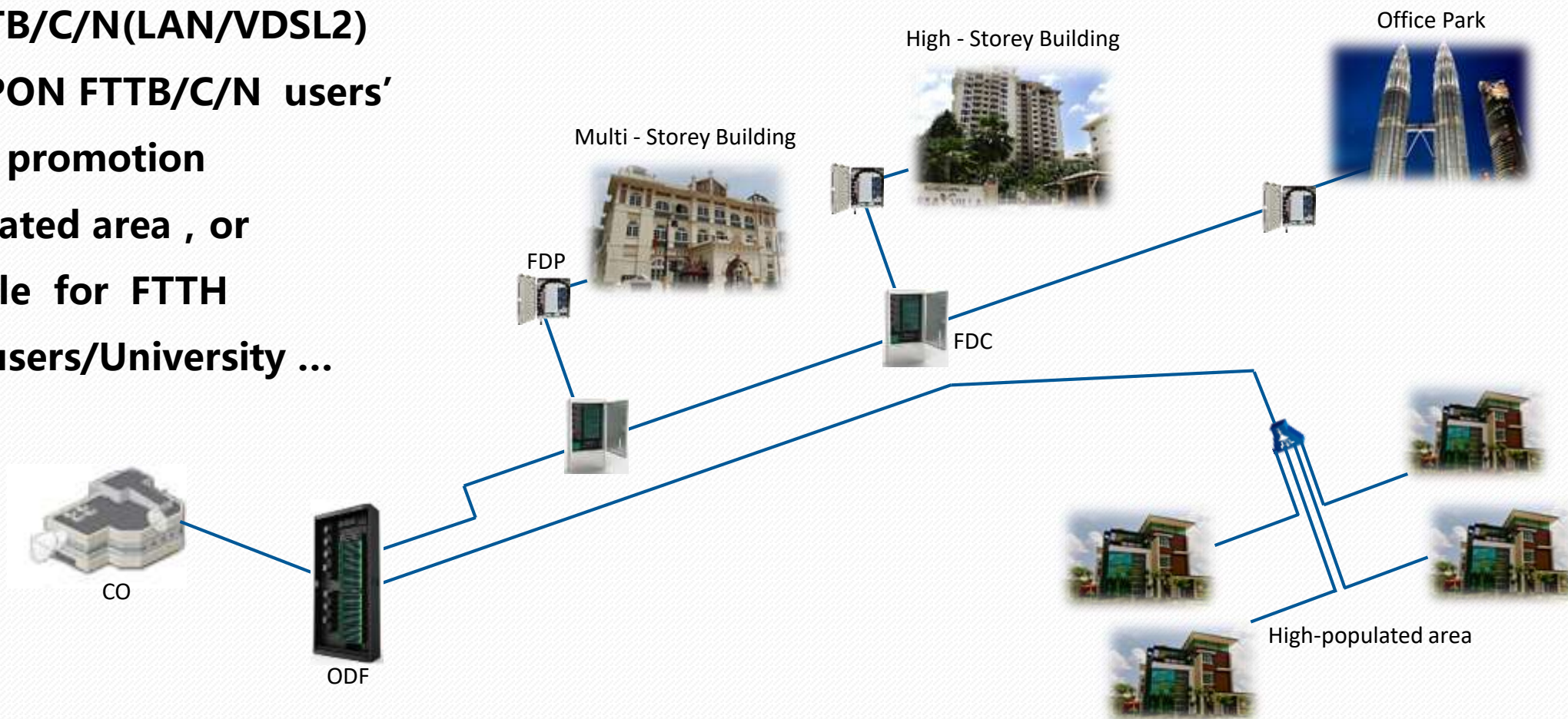
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Sugg1: 10G PON provide more bandwidth than GPON For the Enterprise/University

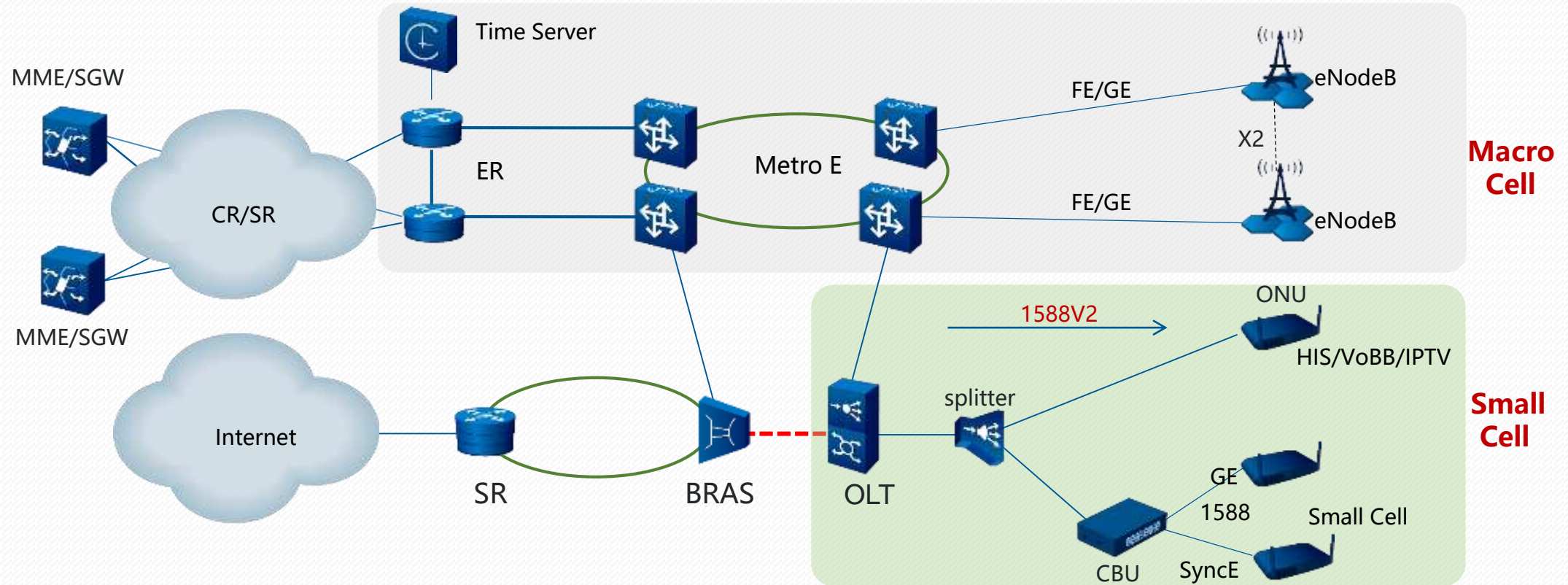
10G PON+FTTB/C/N(LAN/VDSL2)

- Existing GPON FTTB/C/N users' bandwidth promotion
- High-populated area , or unacceptable for FTTH
- Enterprise users/University ...

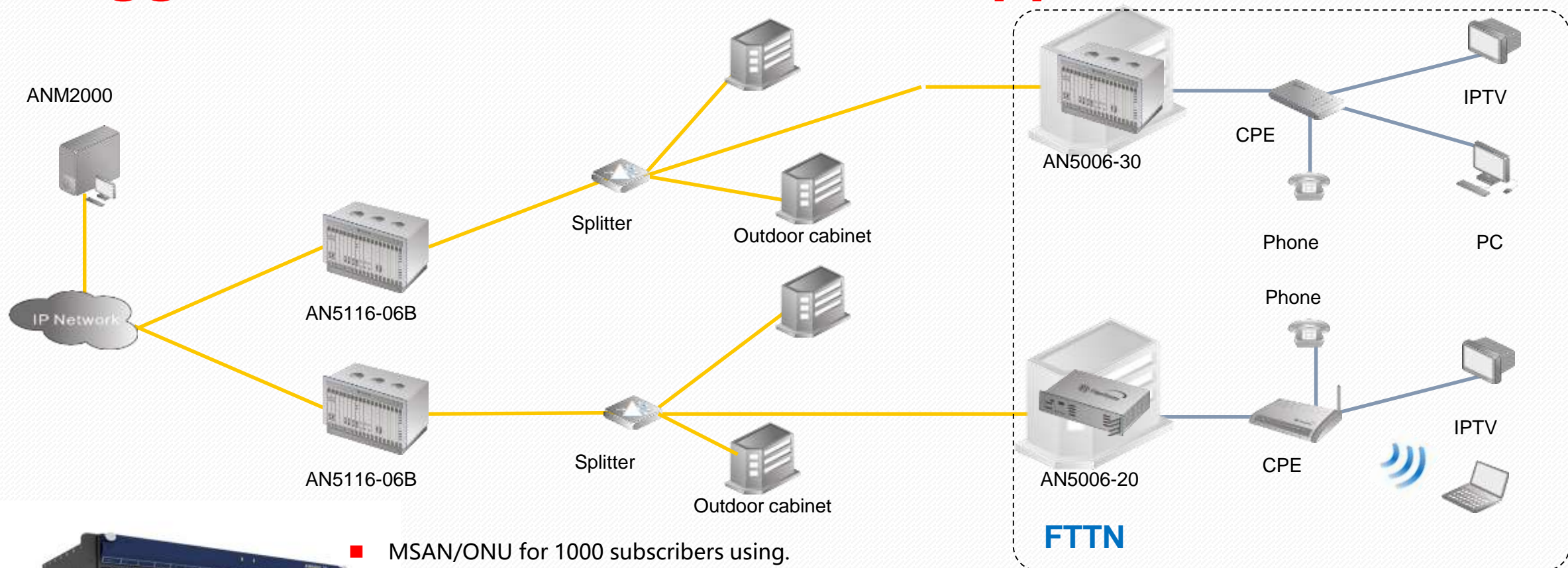


The cost of FTTH by 10G PON is still so high

Sugg2: CBU will cut the CAPEX of Small Cell



Sugg3: FTTB/N+DSL can reuse copper



AN5006-30

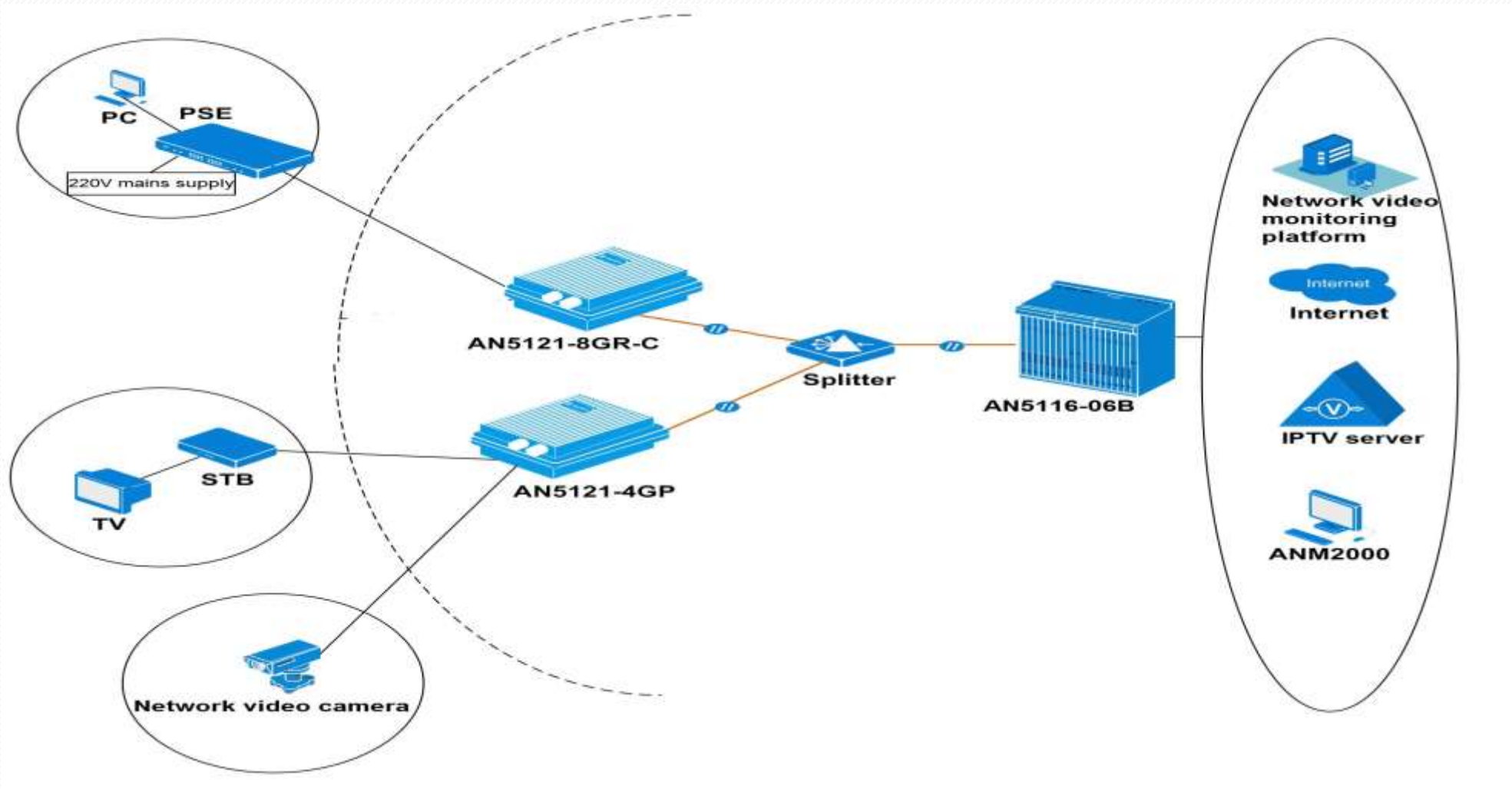
- MSAN/ONU for 1000 subscribers using.
- Uplink: XGE/GE/GPON/XGPON
- Service ports: ADSL/VDSL/ETH/POTS/VDSL2+/Vectoring



AN5006-20

- MSAN/ONU for 256 subscribers using.
- Uplink: GE/GPON/XGPON
- Serviceports:ADSL/VDSL/ETH/POTS/VDSL2+ /Vectoring

Sugg4: PoE/RPoE ONU can solve power trouble



ZISONG Community, CHINA

Challenge

- Existing equipment is old, OPEX is high
- High power consumption with existing MSAN
- Broadband speed is lower than the average level in the region

FiberHome solution highlight

- ODN part is passive, save the CAPEX
- One stop FTTH solution, including active and passive part (ODN designing/planning/constructing)
- OLT and ONU power consumption are the lowest in the FTTx field
- 1st Triple-play FTTH deployment in CHINA



Thailand Air Force

Challenge

- Besides CATV, user need high speed internet service
- Opex for coax cable is pretty high
- No E2E network deploy experience

FiberHome solution highlight

- Triple-play in one fiber
- Reusing coax cable in the building
- 1st GPON turkey deployment in Thailand



Thanks

Broaden Your Future

