

# FTTx GPON Products and Service Solutions

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ALFOCOM Technology Co., Ltd.



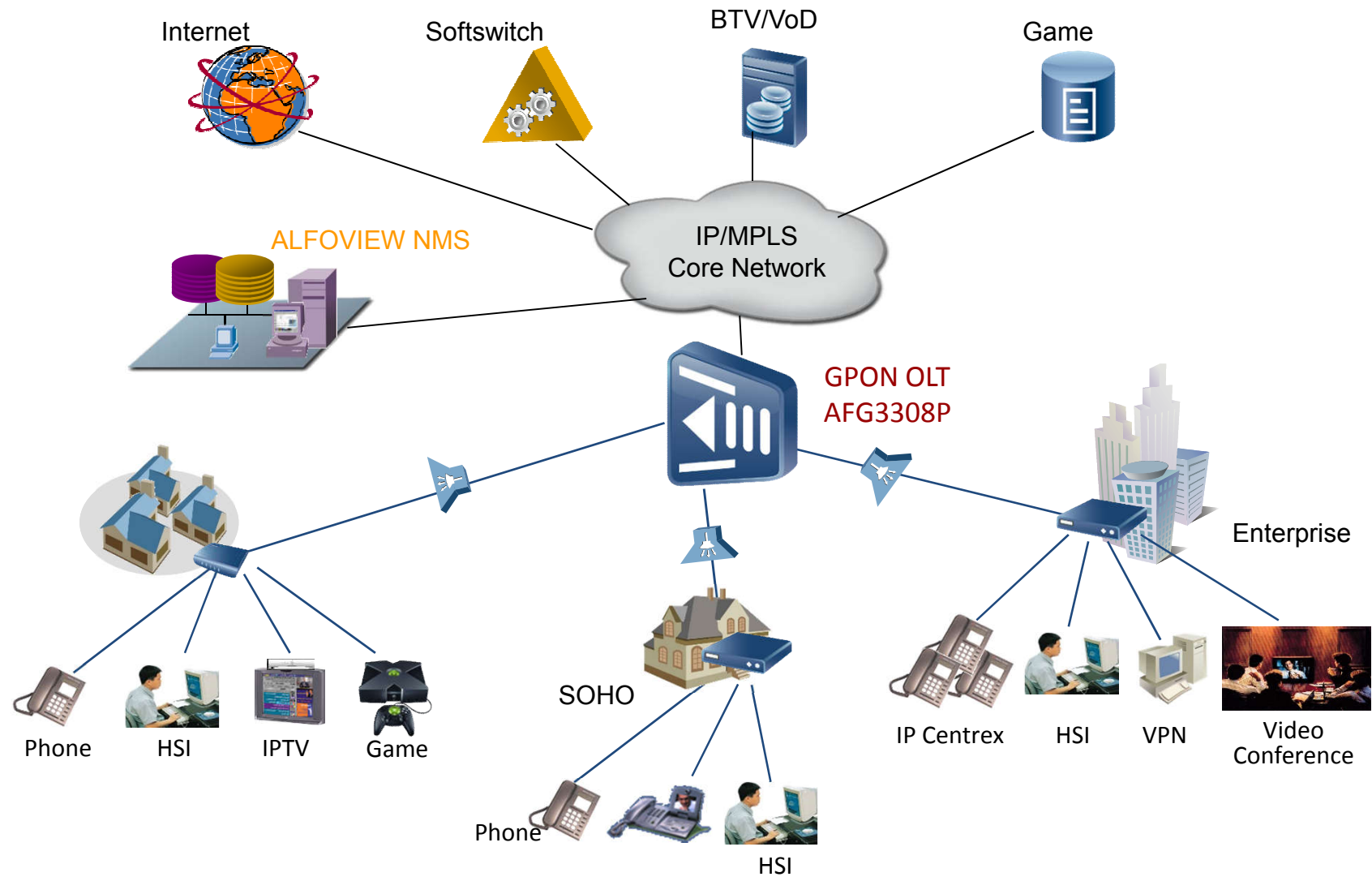


# Contents

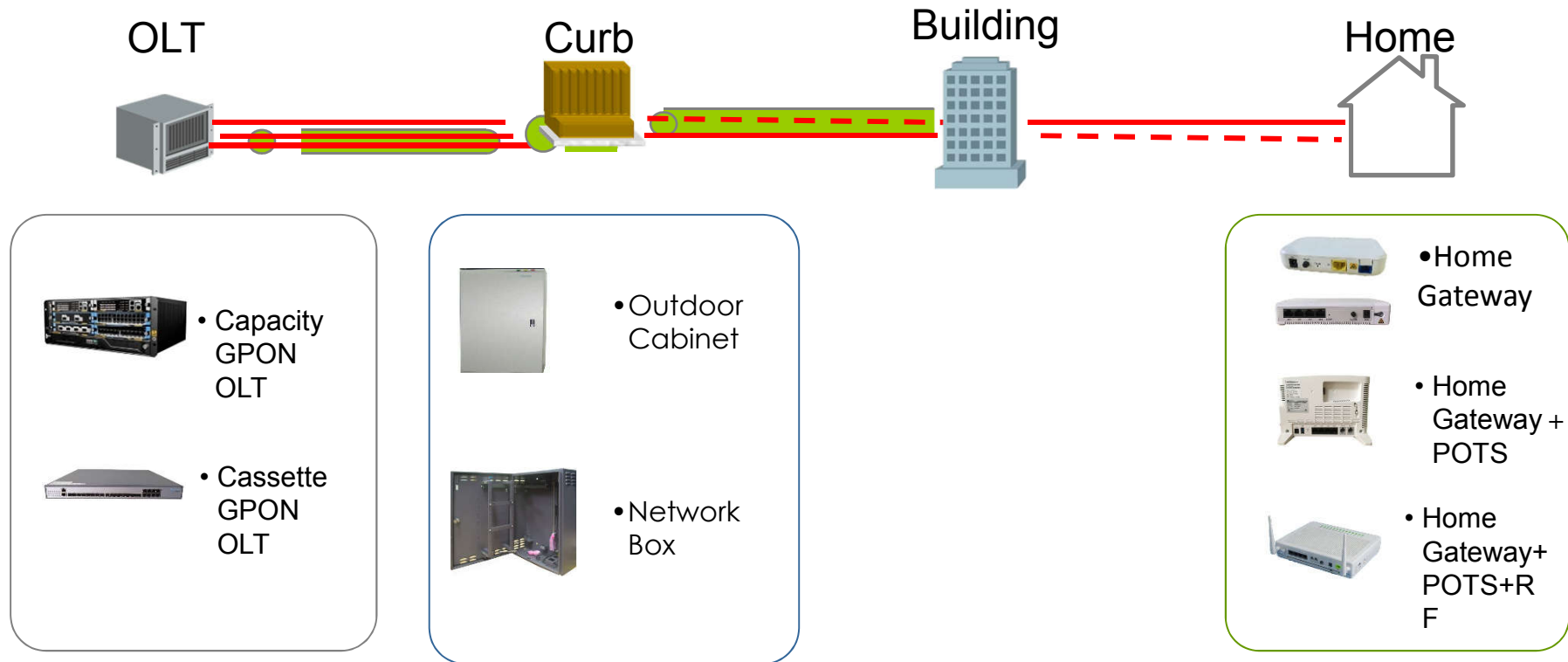
- 1. FTTx GPON Products Overview**
- 2. FTTx GPON Products Description**
  1. OLT Products Description
  2. ONT Products Description
- 3. FTTx GPON Service Solution**



# GPON Network



# ALFOCOM GPON Products



➤ All the GPON series products can be management by ALFOVIEW unified NMS

# GPON OLT

All levels of OLT adopt for different application.



Cassette 1RU Mini 4ports  
AFG3304P



Cassette 1RU Mini 8ports  
AFG3308P



Chassis 4RU 4 service slots  
4096 ONT capacity  
AF6000-04

Flexible Network Application

# GPON OLT



AF6000-04

- 4RU ultra-compact chassis, semi-slot high-density design
- 1+1 master control redundancy, 1+1 power supply redundancy
- Hot plug fan tray, intelligent speed and temperature control
- 6 slots, 2 main control slots, 4 service slots
- Support maximum 32\* GPON port and 32\* GE port
- Support maximum 64\* EPON port
- Support maximum 32\* 10GE EPON port and 32\* 10GE port
- 1.6Tbps backplane capacity for smoothly upgrading to 40G/100G
- IPv4/IPv6 and MPLS line-rate forwarding ability based on hardware
- Full-loaded power consumption is 350W



AFG3304P/AFG3308P

- 1RU, 19 inches
- 1+1 power supply redundancy
- 4/8\* GPON port, 1\* console port
- 8\*1000BaseX SFP port, 8\*100/1000Base-T port
- 1\*10GE SFP+ expansion slot
- Full-loaded power consumption is 40W

# GPON ONU

## DATA

**AFGN-01GS**



**AFGN-02S**



**AFGN-04GS**



**AFGN-02GS-W**



**AFGN-04GS-W**



## DATA+VoIP

**AFGN-2F1V**



**AFGN-04GS-2V**



**AFGN-04S-2VW**



**AFGN-04GS-2VW**



## DATA+VoIP+WIFI+CATV

**AFGN-04S-2VT**



**AFGN-04S-2VWT**





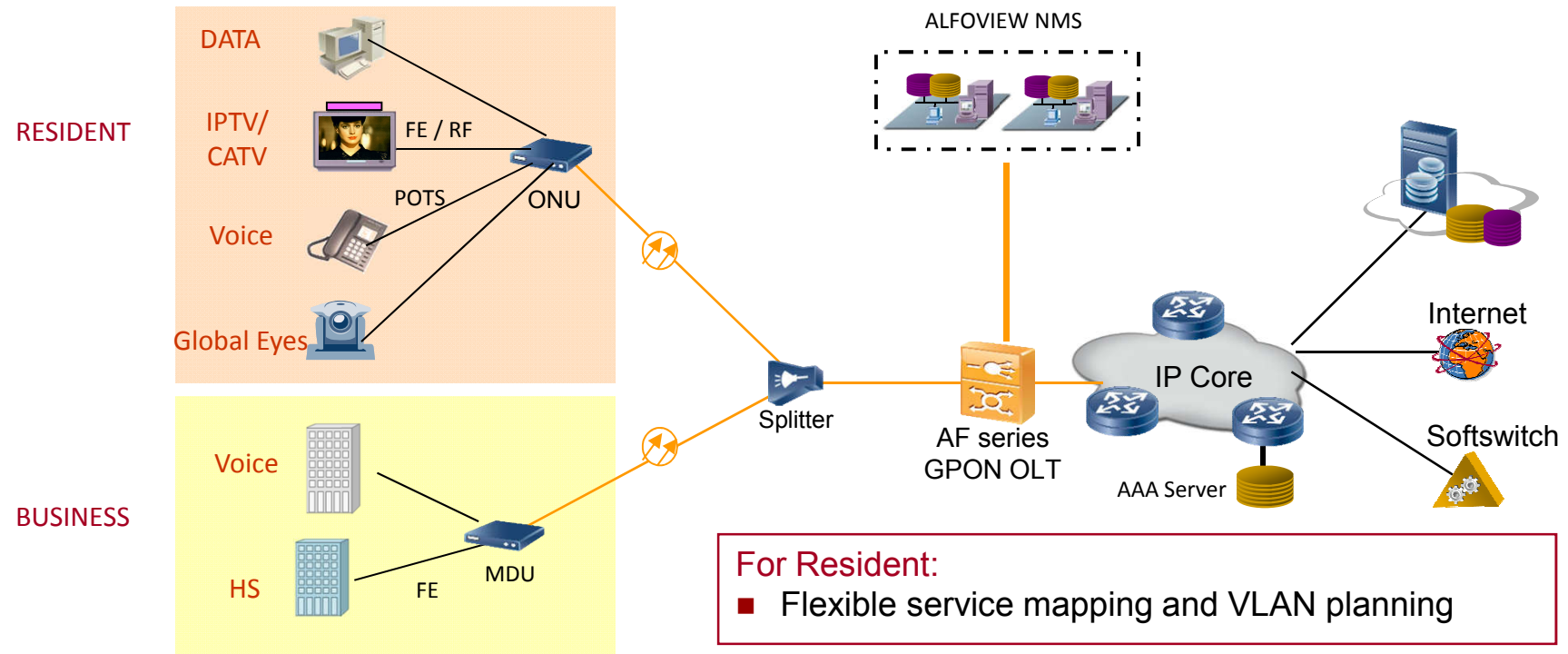
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# Multiple Service Solution Based on GPON



## For Resident:

- Flexible service mapping and VLAN planning

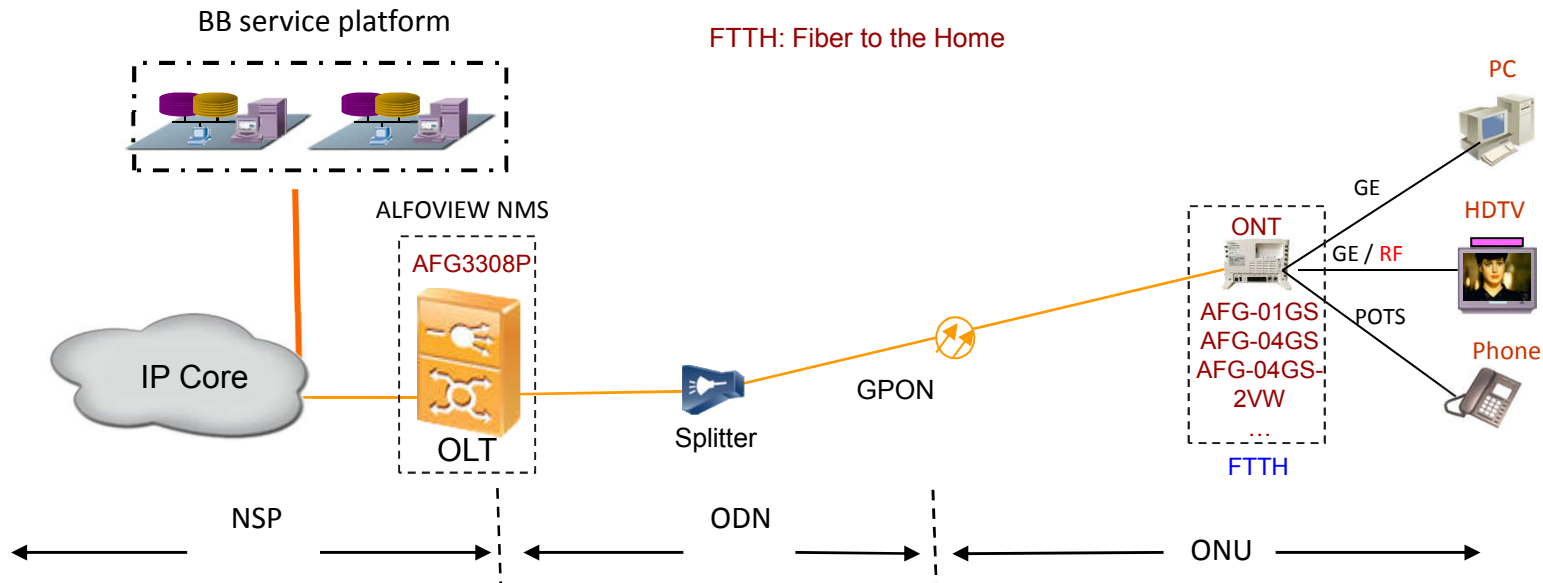
## For Business:

- Hierarchical QoS
- High reliability and security

## For Mobile:

- Native TDM and CESoP for 2G/3G backhaul
- Clock synchronization solution

# FTTH Scenarios



## FTTH:

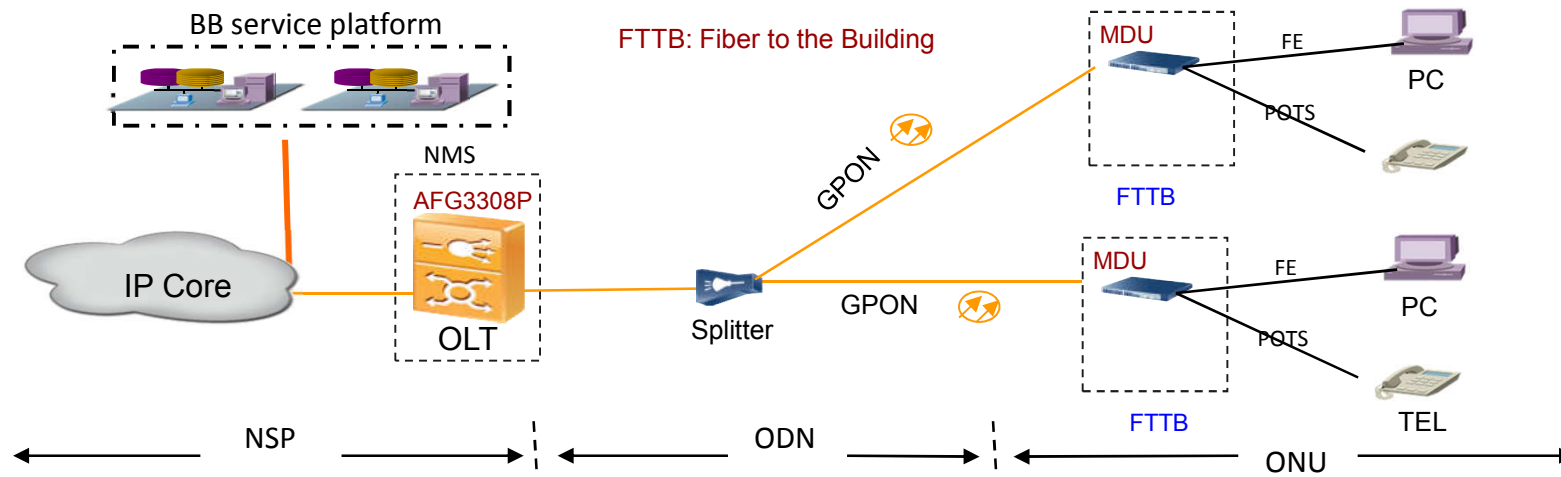
**CAPEX** is **the highest** among the ones in different FTTX.

**OPEX** is **the lowest** among the ones in different FTTX

All the equipment of ODN are passive

FTTH needs lots of cables, so drop cables is the major cost in CAPEX.

# FTTB Scenario: LAN/VDSL+POTS



## Benefit:

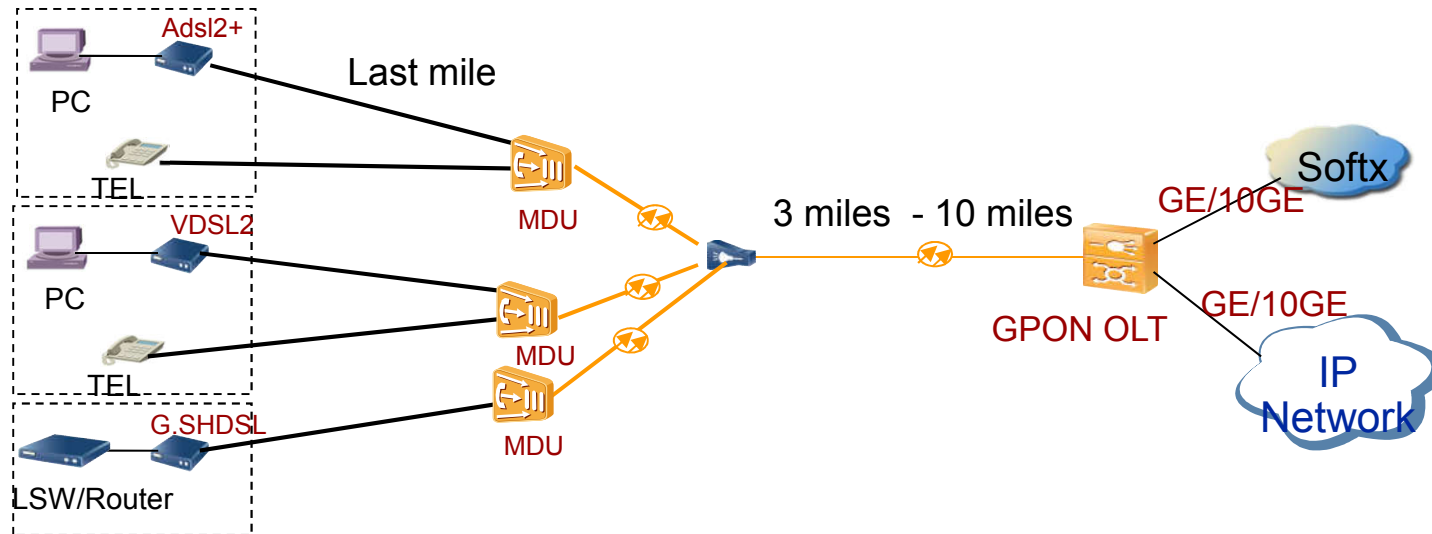
- CAPEX saved
- High speed access 100M bps
- Smoothly evolution to FTTH

## Disadvantage:

- Limited distance: 100m for Ethernet;  
1.2km for VDSL

- FTTB:
- OPEX is higher than CAPEX in FTTB and it's also higher than the OPEX of FTTH
- MDU is the major cost in the CAPEX
- For there are lots of active equipment, the power expense is higher.
- The rent for MDU is also higher.

# FTTC Scenario: ADSL + POTS



## Benefit:

CAPEX saved

Make the best use of previous copper network

Smoothly evolution to FTTH

## Disadvantage:

Limited bandwidth 25 M bps

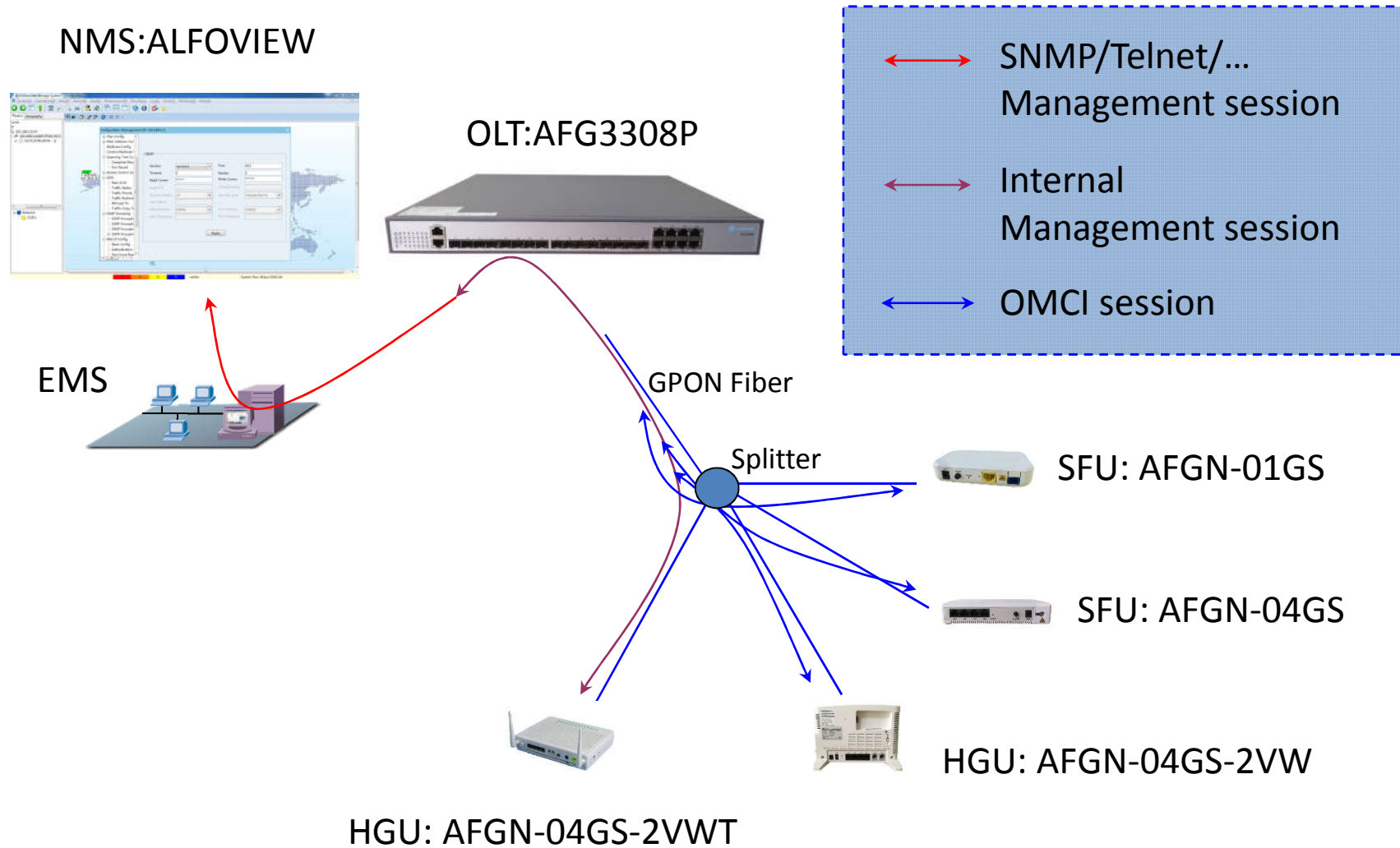
## FTTC:

CAPEX is the lowest among all the FTTX scenarios.

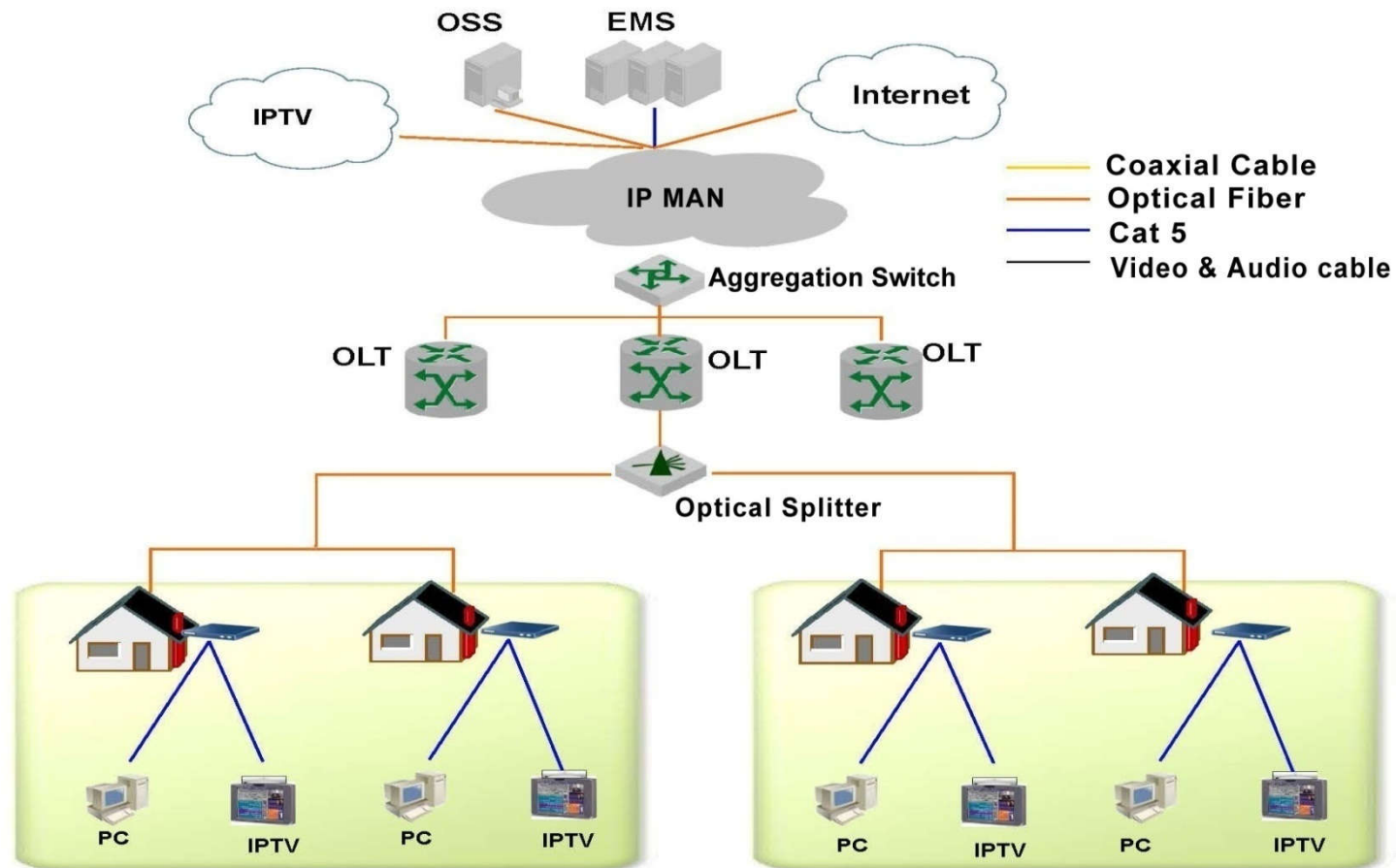
Compared with FTTB, its rent cost is much higher since it needs the cabinet

Power Expense and rent are the major costs of the OPEX

# Evolution of management



# Vietnam Telecom Operator GPON solution



Thank you !

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