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Huawei FTTO Network Solution for Commercial Real Estate

Build a Smart and Easy-to-use All-Optical Commercial
Real Estate Network

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| Requirements and Challenges

Many services and devices

- Various services covering large areas
- Difficult installation and fault locating

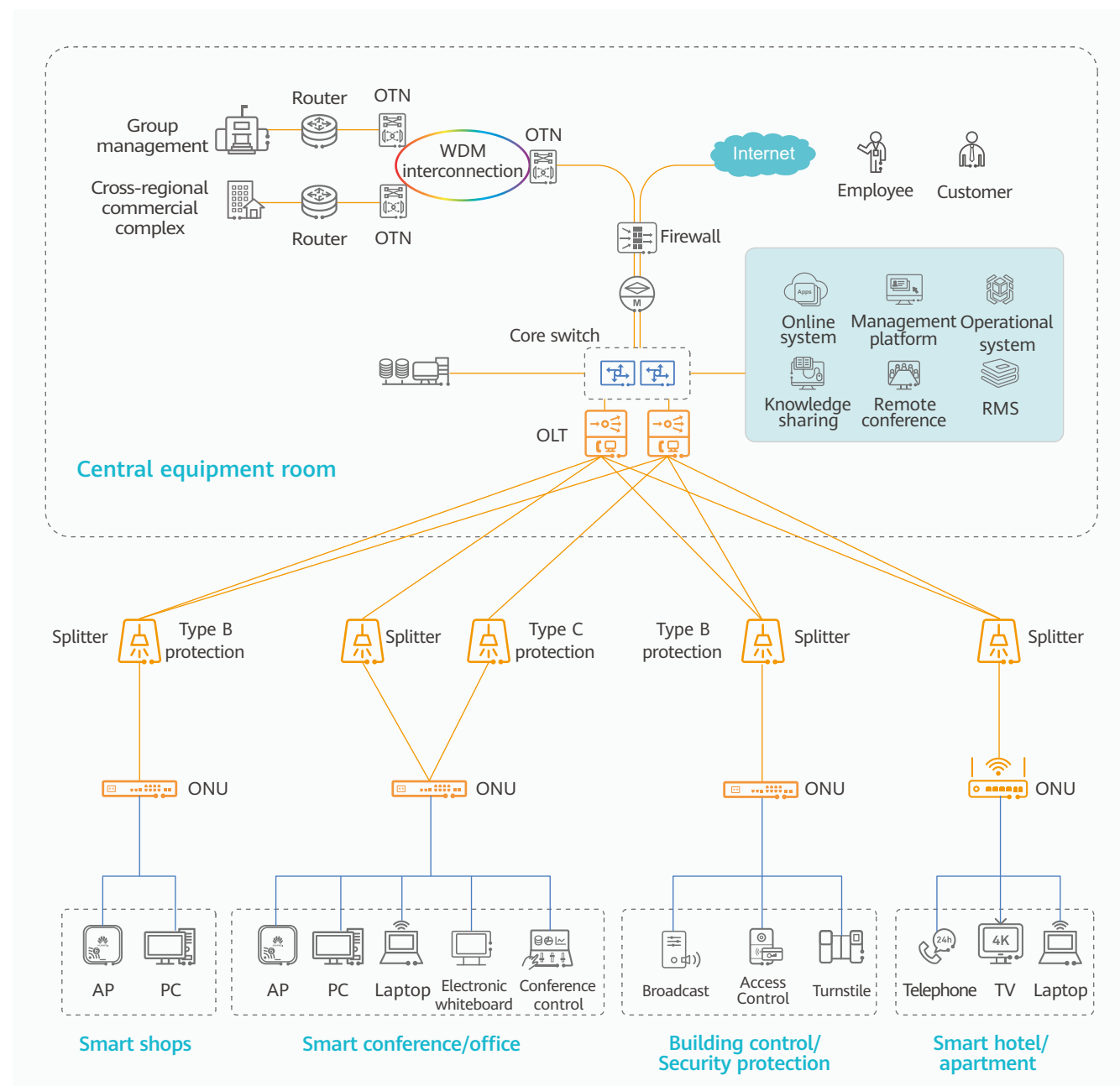
Difficult O&M

- Multiple independent service systems
- Complex management interfaces

High energy consumption

- Equipment rooms requiring air conditioners
- High carbon footprint of copper wires

| Solution Introduction



| Solution Highlights

All-optical bearer

- All-optical coverage in all scenarios, green and energy-saving
- Fiber to the room, shop, office; Wi-Fi 7 backhaul; and full-service bearing

Simplified architecture

- Two-layer architecture, achieving one-hop connection from the central equipment room to users
- One fiber carrying 8 networks, and multiple services (Internet access, voice, and IPTV) isolated using hard slices

Easy O&M

- Intelligent O&M, quick deployment, and one-click fault locating
- Automatic radio optimization and seamless roaming
- Visible Wi-Fi experience and fault backtracking

One Fiber for Multiple Services

Traditional Network

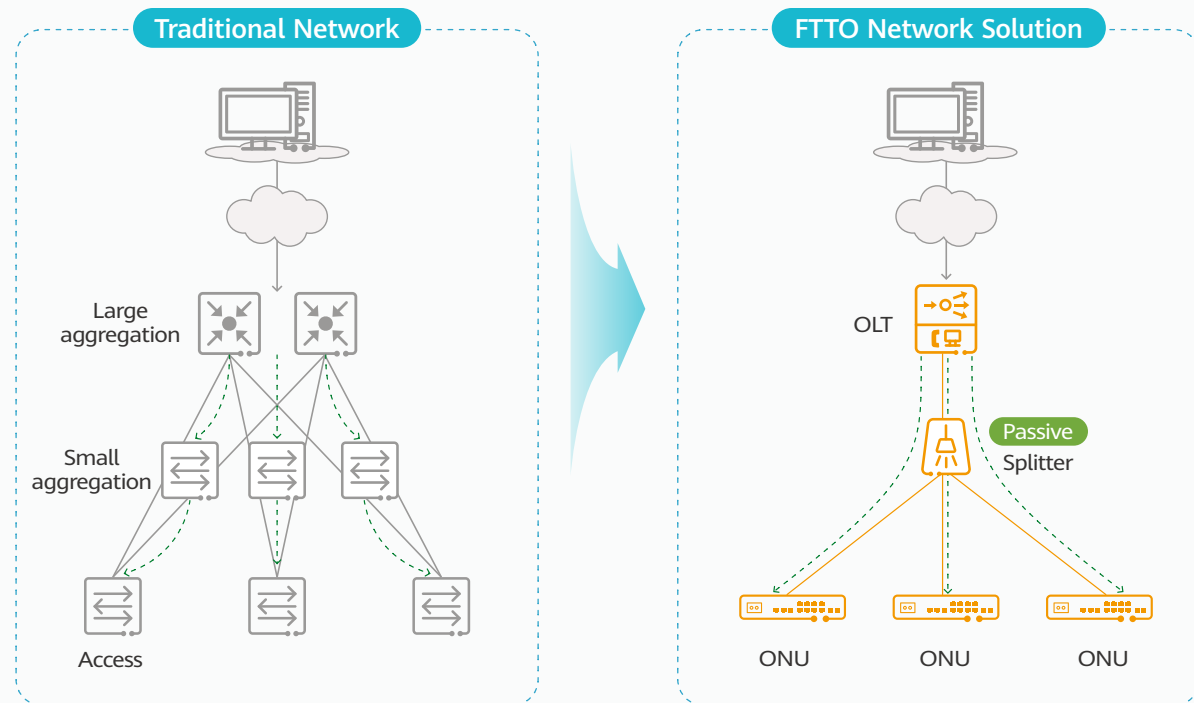
Multiple cables, high costs, and difficult maintenance

5 cables in a Merchant: 4 network cables, 1 telephone cable

FTTO Network Solution

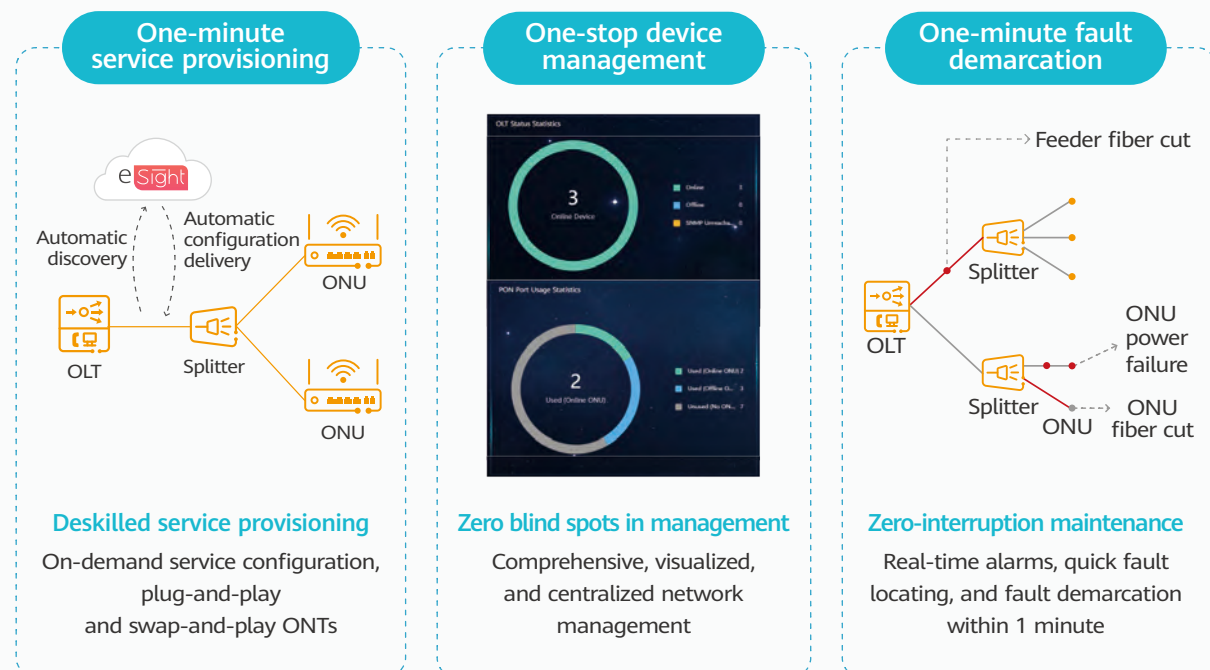
One fiber One room: 80% cables are simplified, and ONU wired, wireless, and voice networks are integrated, reducing costs and simplifying management.

Simplified Architecture



Active devices replaced by passive devices | 0 ELV room, saving 50% optical modules | Overall TCO reduced by 30%

Easy Operation & Management



Success Story

Dubai Creek Harbor in United Arab Emirates



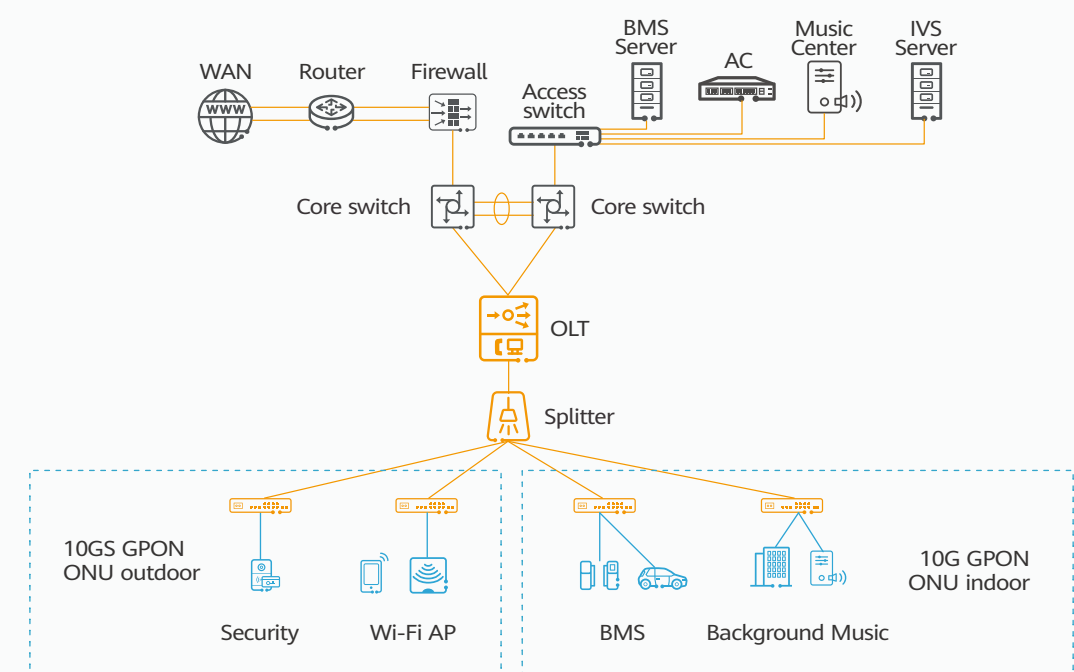
Project Background

Dubai Creek Harbor represents the frontier in contemporary life and work with spectacular cultural offerings, world class residences and offices.


Challenges

BMS service, video and Wi-Fi backhaul consumes huge bandwidth in the density scattered high-rises.

Solution




Solution Highlights




Broadband

Suitable for such bandwidth-hungry services as video and Wi-Fi backhaul with symmetrical 10G GPON
HQoS guarantees network quality for multi-service



Safe & Reliable

Type B Protection guarantees “0”service interruption (video, Wi-Fi and BMS) during network fault, saving OPEX
10G GPON Bi-Directional AES algorithm ensures data security



Flexible

40km super long distance coverage, saving CAPEX
Future network upgrade reusing ODN, long-term evolution

Product Introduction

Huawei OptiXaccess OLT series

EA5800-X15

15 service slots
UNI: GPON/XG(S)-PON/
XGS-PON&GPON Combo/GE/10GE



EA5800-X7

7 service slots
UNI: GPON/XG(S)-PON/
XGS-PON&GPON Combo/GE/10GE



EA5800-X2

2 service slots
UNI: GPON/XG(S)-PON/
XGS-PON&GPON Combo/GE/10GE



EA5801E-GP08/GP04

Modular OLT
NNI: 4 x 10GE/GE
UNI: EA5801E-GP08: 8 x GPON
EA5801E-GP04: 4 x GPON



Huawei OptiXstar ONU series

P612L NEW

NNI: GPON
UNI: 4 x GE, Support PoE/PoE+



P603E-L1 NEW

NNI: GPON
UNI: 8 x GE



P613E-L1 NEW

NNI: GPON
UNI: 8 x GE, Support PoE/PoE+



P635E

NNI: 2 x GPON
UNI: 24 x GE + 24 x POTS



P803L NEW

NNI: XGS-PON
UNI: 8 x GE



P813L NEW

NNI: XGS-PON
UNI: 8 x GE, Support PoE/PoE+



P813E-E



NNI: 2 x XGS-PON
UNI: 8 x GE, Support PoE/PoE+

P885E



NNI: 2 x XGS-PON Pro / 2 x XGS-PON
UNI: 24 x 2.5GE, Support PoE+

W617C *



NNI: GPON
UNI: 1 x GE + 2.4GHz&5GHz Wi-Fi 7

W626E-10



NNI: GPON
UNI: 1 x POTS + 4 x GE +
1 x USB + 2.4GHz&5GHz Wi-Fi 6

W826P



NNI: XGS-PON (Hybrid SC)
UNI: 1 x POTS+4 x GE+
1 x USB + 2.4GHz&5GHz Wi-Fi 6

W817C NEW



NNI: XGS-PON
UNI: 1 x GE +
2.4GHz&5GHz Wi-Fi 7

S600E



NNI: GPON
UNI: GE/2.5GE/5GE/10GE

S800E



NNI: XGS-PON
UNI: GE/2.5GE/5GE/10GE

Roadmap products marked with an asterisk (*) are expected to be released in Q4 2024.