

Application of FTTR in household information consumption

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China Unicom FTTR Operation Profile



1. Product layout

- ➤ Issued the "Notice of Gigabit Optical Network Trial "
- ➤ Issued "China Unicom New-Generation Optical Home Network solution and Construction Suggestions"

Release enterprise standard in April 2022

Expected: initiate the C system adaptation test in June 2022

Expected: complete the launch of the C system version in September

2022

11/2021

04/2021

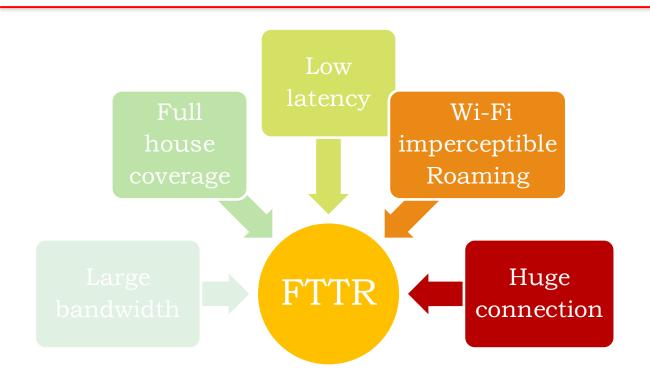
- ➤ Issued the "Notice on Launching the Marketing and Promotion of FTTR Optical Broadband Products"
- ➤ Issued the "China Unicom New Generation Home Optical Network Solution and Construction Suggestions "V2.0
- ➤ By the end of 2021, all northern key cities and part of key cities of southern provinces launched FTTR
- ➤ By the Mid 2022, all northern cities and southern cities have launched FTTR products

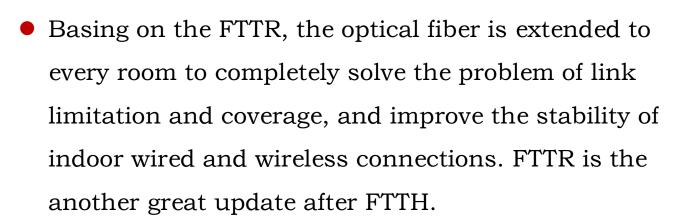
2. Business progress (End of March 2022)

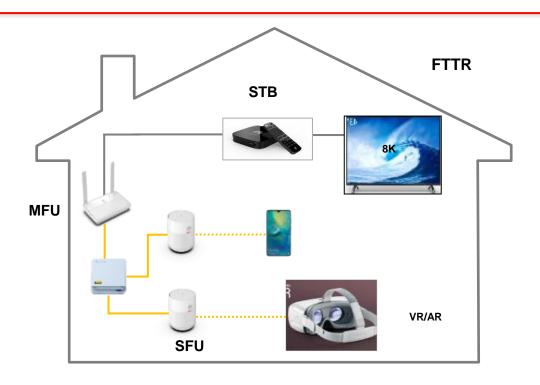
- ➤ A total of 110,000+ users in 7 provinces including Shandong, Beijing and so on.
- >FTTR service have been released in the remaining provinces including: Shanghai, Jilin, Hubei, Hunan, Fujian, Tianjin, etc.

Overview of FTTR







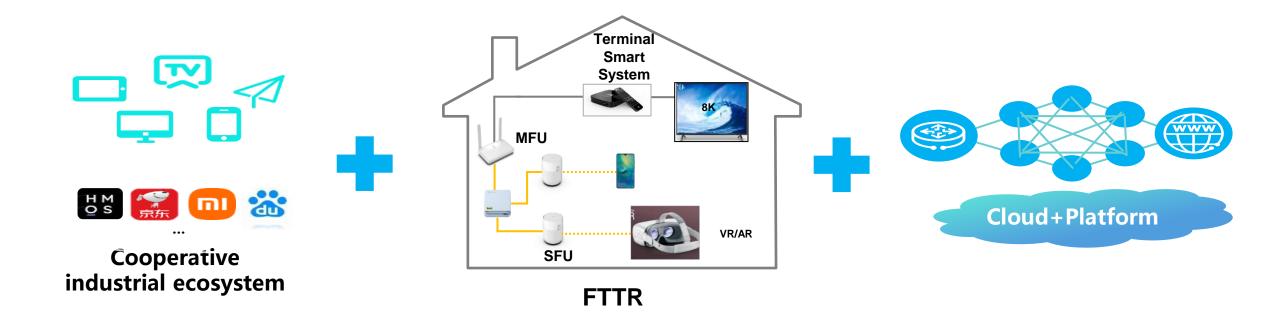


Item	FTTR
Speed	>1G
Ratio	1:16
Connections	Max 256
Roaming	Imperceptible

-3

Overall architecture





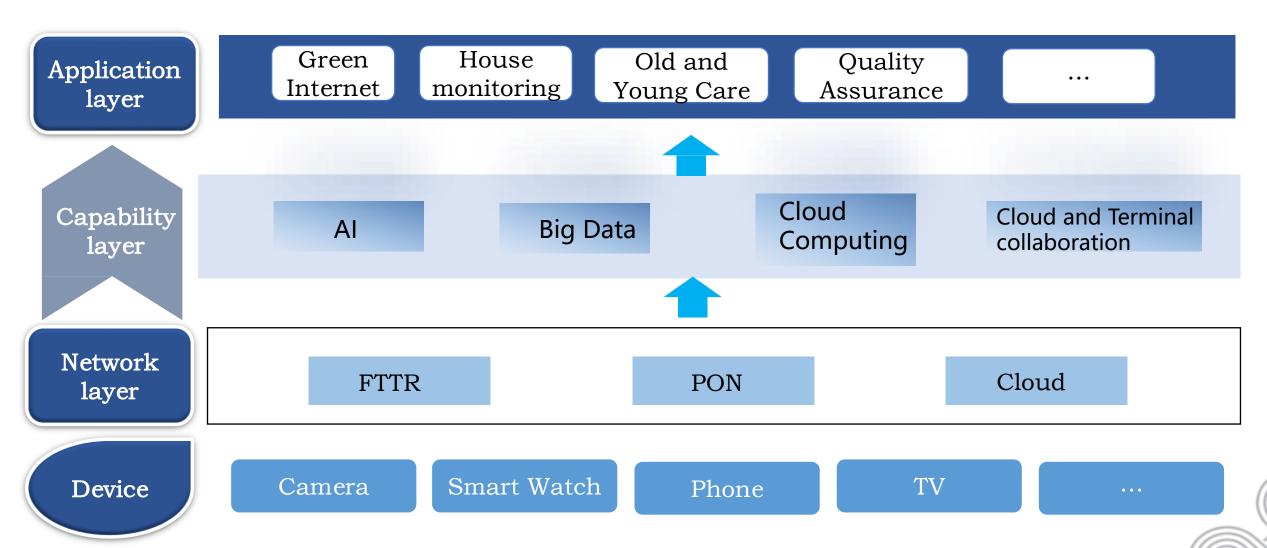
A network/Multi scenario support

Whole house intelligence

Cloud and Terminal collaboration

Architecture of FTTR application





Application of FTTR: Service quality assurance



Online education



Online games



Video conferencing



Service identification

QoS

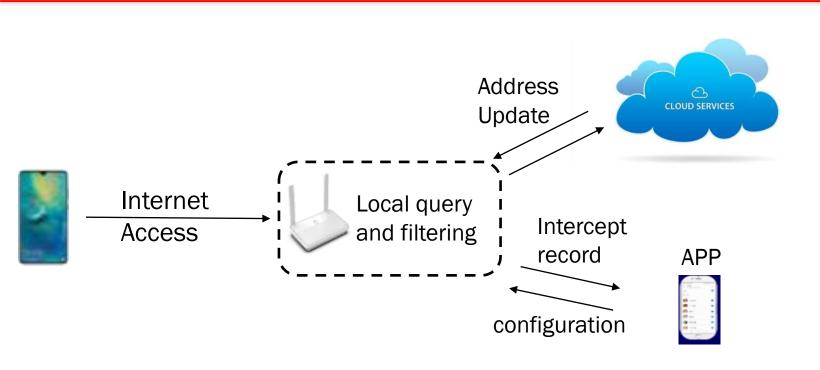
Network acceleration

Intelligent routing

■ Based on the cooperation of gateway intelligent system and network open capability, QoS and low delay plane technology are adopted to achieve end-to-end assurance for specific applications and meet various scenarios.

Application of FTTR: Parental control & Green Internet









Parental control:

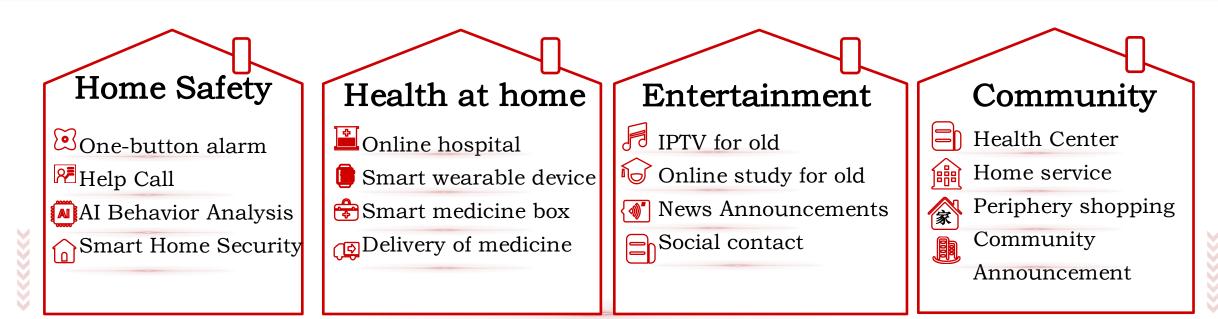
- Manage the time of Internet access to prevent children spend too much time on game;
- Control the APP/address of Internet access to help children focus on study especially online courses time;

Green Internet:

• Prevent website with virus;

Application of FTTR: House monitoring & Old and young care





- ➤ Home safety:
 - Smart Home Security, AI analysis of critical behavior or situation, One button alarm/call in case of emergency;
- Health at home:
 - Online hospital consultation, health monitoring by Intelligent wearable device, reminder by Smart medicine box, Delivery of medicine to home;
- Entertainment:
 - Proper IPTV/NEWS/Study for the old, Video call;
- Community:
 - Health Centers, Home service, information of Periphery shopping/ Community

Application of FTTR: Network awareness



Self network diagnosis

- Provide users with 7 * 24 hours network diagnosis service
- Intelligent customer service process
- significantly improves user perception



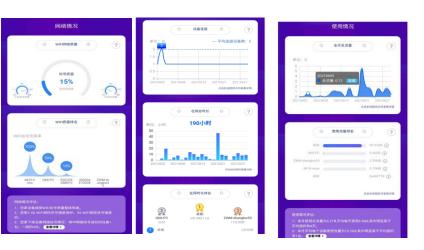
Network speed test

- One click network speed test service
- Network problems are maintained by specially assigned personnel



User Reports

- Visualization of users' Wi Fi status and Internet access quality
- Tagging user preferences
- Precision marketing based on user behavior big data



□ Achieve the visual and refined management of network services, provide users with differentiated high-quality service experience, comprehensively enhance user perception, and extend from network service to experience service.

Application scenarios to be discovered





Small enterprises

Multi terminal, WI-FI coverage/ roaming



Online education

large bandwidth (up/downlink)



Branch

Cloud access, Branch interconnection



Zone

Multi terminal, WI-FI coverage/ roaming



Live broadcast

Stable, large bandwidth (up/downlink)



Restaurant

Multi terminal, WI-FI coverage/ roaming



Entertainment

Multi terminal, Stable



Warehouse

Multi terminal, WI-FI coverage/ roaming



Government

Security,WI-FI coverage/ Roaming, Cloud access



Campus

Multi terminal, WI-FI coverage/ roaming



Industry network

Multipoint interconnection, bandwidth



Exhibition

Multi terminal, WI-FI coverage/ roaming



谢谢!

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