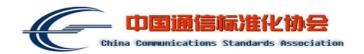
Fourth Joint ETSI ISG F5G, BBF, CCSA TC6 and ITU-T SG15 Workshop on "FTTR"

# Progress on CCSA FTTR related standards

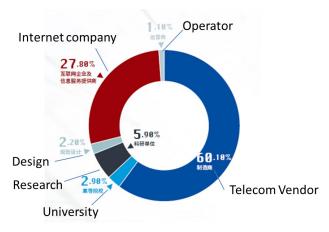
**Qiang Cheng** 

2024-07-10



#### China Communication Standards association (CCSA)

- CCSA is a non-profit organization in China for carrying out standardization activities in the field of Information and Communications Technology (ICT) across China.
- CCSA has more than 700 members, including Telecom/Internet vendors, operators, institutes and universities.



#### **CCSA Technical Committees**

TC1: Internet and applications

TC3: Network and service capability

TC4: Power supply and station working environment

TC5: Wireless communication

TC6: Transport and access network

TC7: Network management and operation

TC8: Network & data security

TC9: Electromagnetic Environment & Protection

TC10: Internet of things

TC11: Mobile internet application and terminal

TC12: Aerospace communication

TC13: Industrial Internet

Standardization of FTTR system is in the scope of TC6



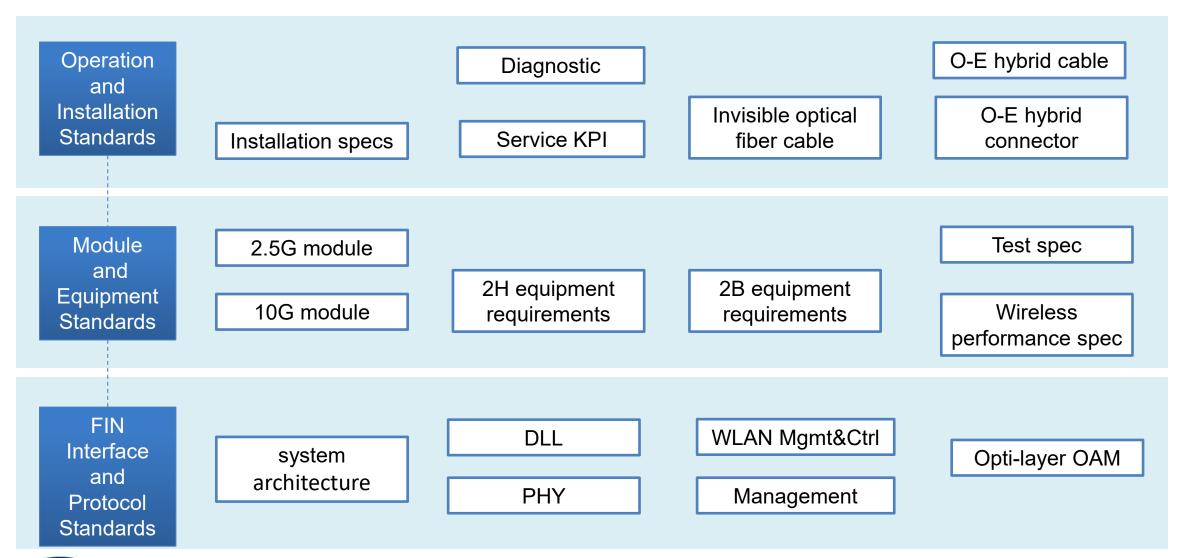
WG1: Transport network

WG2: Access and home network

WG3: Optical fiber and cable

WG4: Optical devices

## Overview of FTTR related standard layout in CCSA





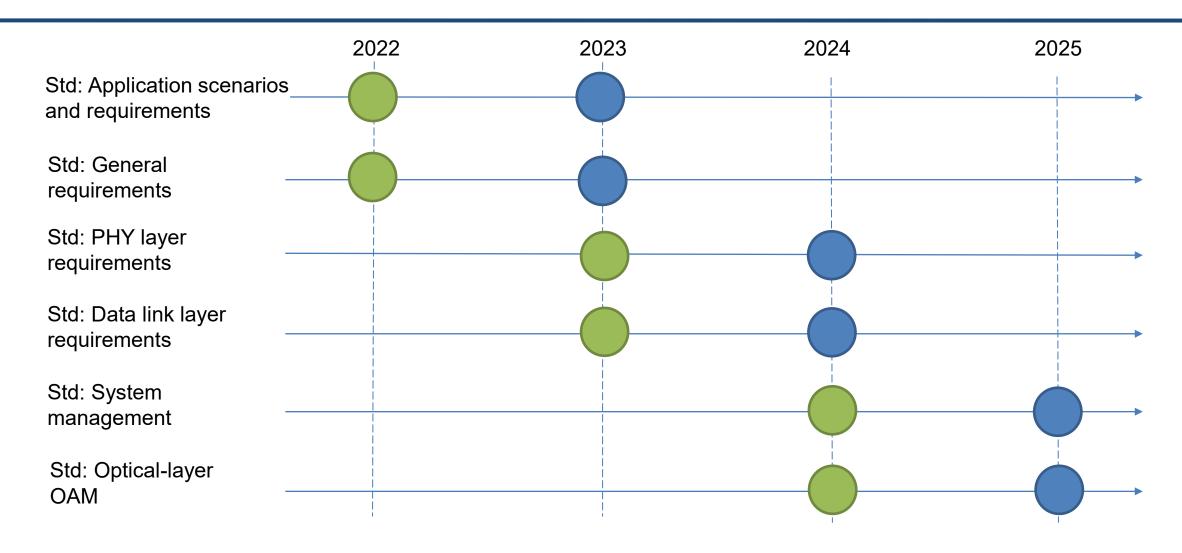
## **CCSA FTTR standards - optical related**

- For optical part, CCSA standards correspond to G.fin serial recommendations of ITU-T, and make expand for asymmetry rate.
- Dual rate (asymmetry and symmetry) co-existance is an important feature for M-FTR

Downstream	2.5Gbit/s		10Gbit/s	
Upstream	1.25Gbit/s	2.5Gbit/s	2.5Gbit/s	10Gbit/s
PHY- class Ra	Yes	Yes	FFS	FFS
PHY- class Rb	Yes	Yes	Yes	Yes
DLL	GEM based		XGEM based	



## **CCSA FTTR standard roadmap – optical related**







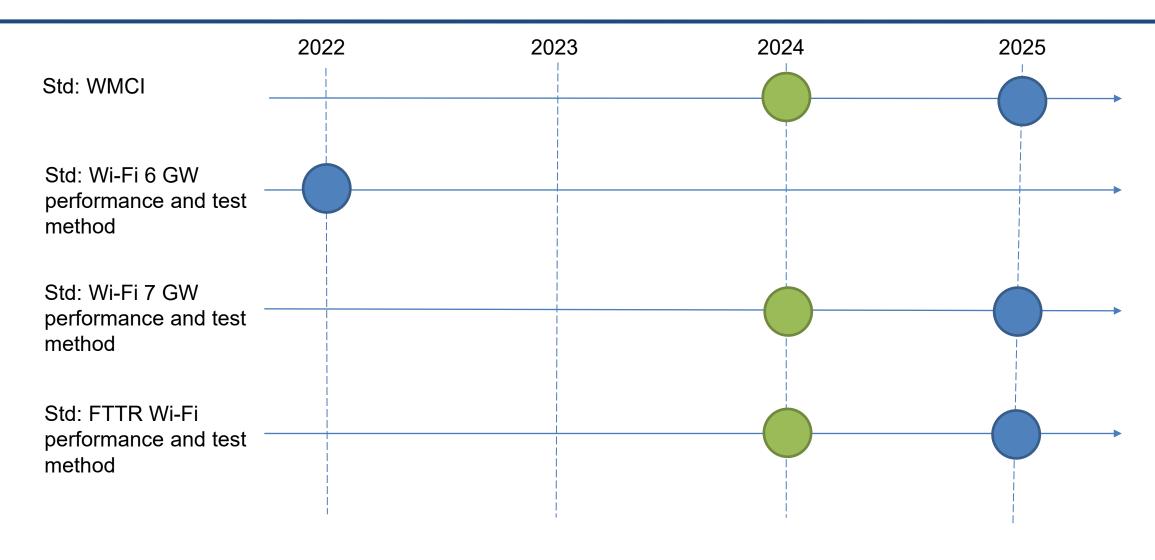


#### **CCSA FTTR standards - wireless related**

- Wireless performance is a key index when evaluate the FTTR technology
- Four standards related in CCSA:
  - WMCI: define the WLAN management and control interface between MFU and SFUs. It's equivalent to G.wmci in Q3
  - Wi-Fi 6 gateway WLAN performance and test method. Already published
  - Wi-Fi 7 gateway WLAN performance and test method
  - FTTR network WLAN performance, including Multi-AP throughput and roaming handover time etc. This standard depends on the first three standards



#### **CCSA FTTR specification roadmap – wireless related**









# **Summary**

- CCSA has made the whole layout of FTTR standards, covering technical requirements for interfaces, devices, modules, equipment, test methods and deployment.
- FTTR is a new and complicated system. Standards need some time to mature. Perhaps it will take several generations of evolving like xDSL or xPON
- But currently, the progress of FTTR standard seems fall behind the needs. It's good to finalize initial versions ASAP



Third Joint ETSI ISG F5G, BBF, CCSA TC6 and ITU-T SG15 Workshop on "FTTR"

# **Thanks**

