

A close-up photograph of a network patch panel. Several green RJ45 patch cables are plugged into the ports. The cables are arranged in a row, and their green plastic connectors are prominent. The background is dark and slightly out of focus.

Broadband Forum Overview

The Broadband Forum

Our Vision: A thriving, services-led broadband industry based on global collaboration, open standards, and open source that maximizes value for all stakeholders.

Our Mission: As the industry-recognized center of competence, we provide an accessible, efficient, and effective community where all broadband stakeholders can collaborate on, develop, and promote open standards and open software that provide the basis for deployable solutions for the global broadband industry.



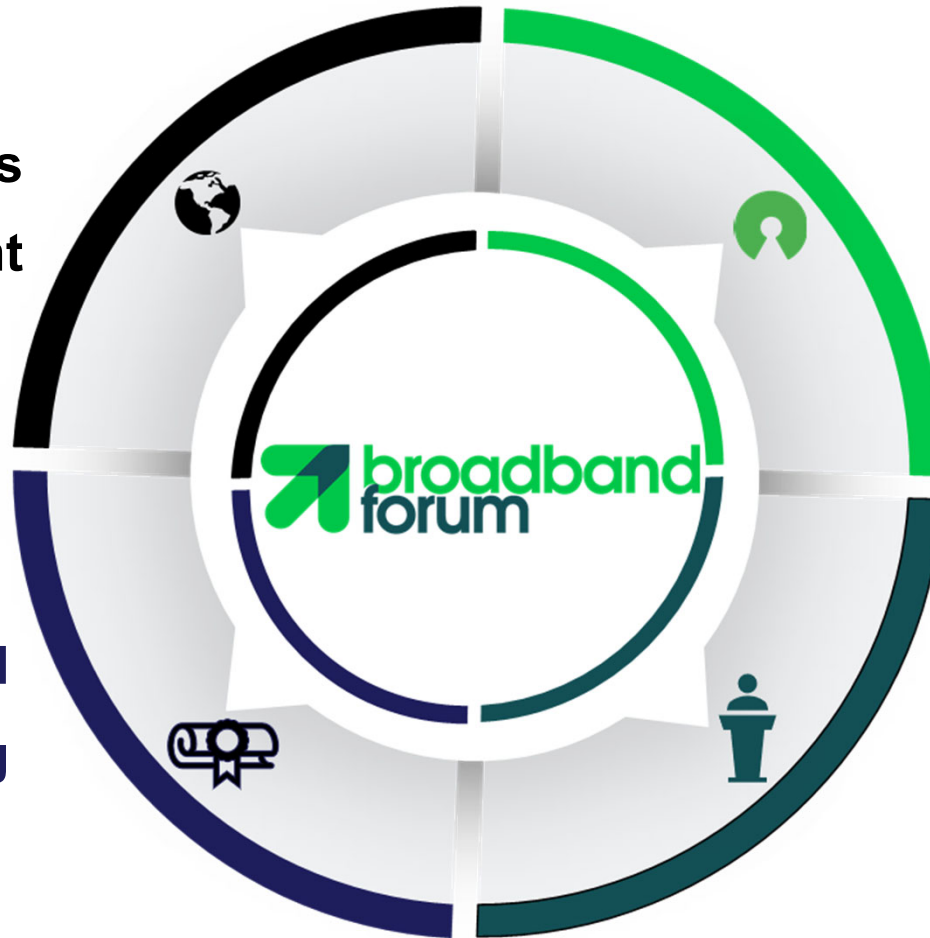
BBF Deliverables

**Global Open Standards
Development**

**Open Broadband
Projects**

**Certification and
Performance Testing**

**BASe: Industry
Education**



BBF Areas of Focus and Innovation



Connected Home

- *User Services Platform (USP)*
- *TR-069 (CWMP)*
- *Subscriber Network Infrastructure*
- *Subscriber Software, Hardware, and Applications*
- *Device Requirements*
- *Wi-Fi Performance*



5G

- *5G Fixed Mobile Convergence*
- *5G Transport*



Cloud

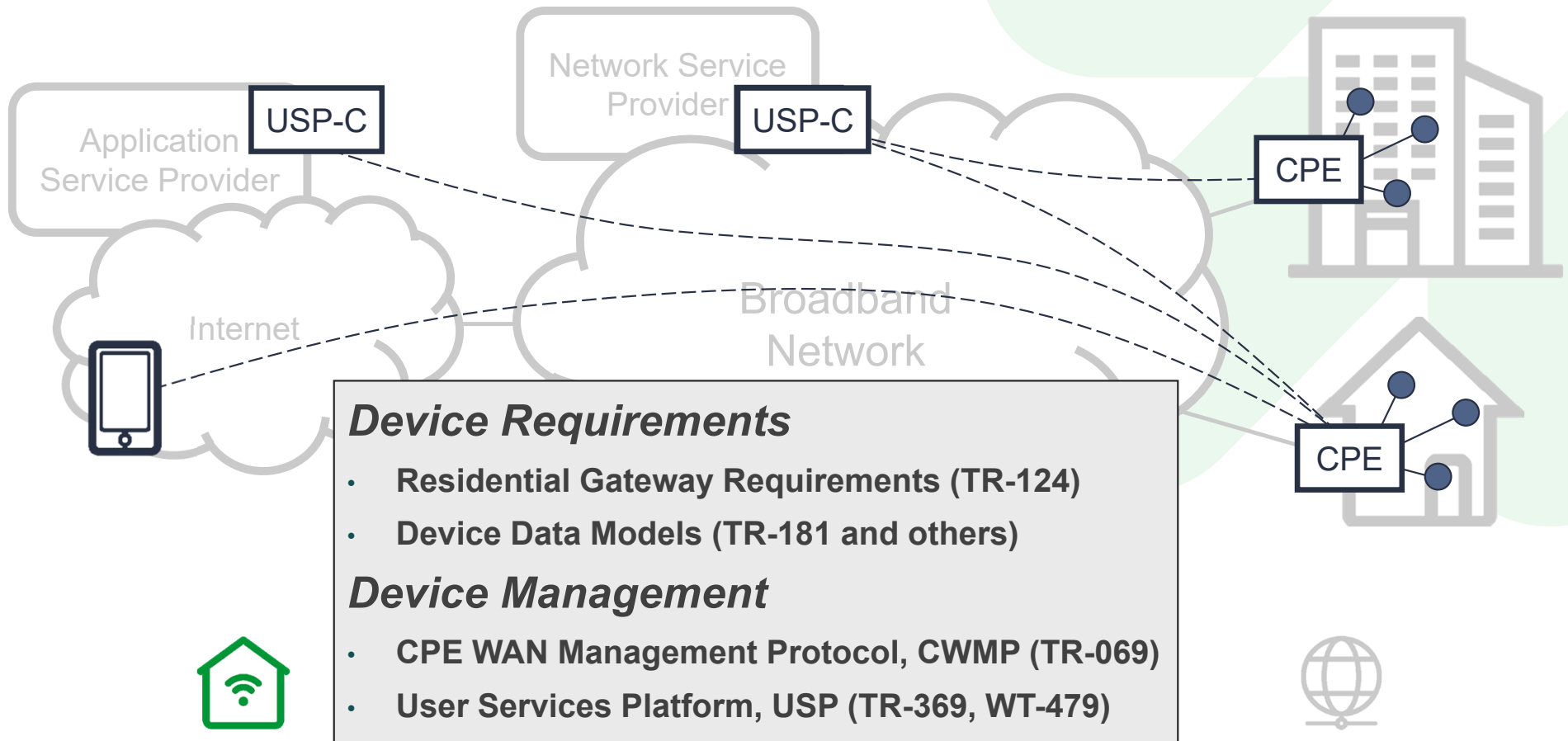
- *CloudCO*
- *Virtualization*
- *Disaggregation*
- *FANS*



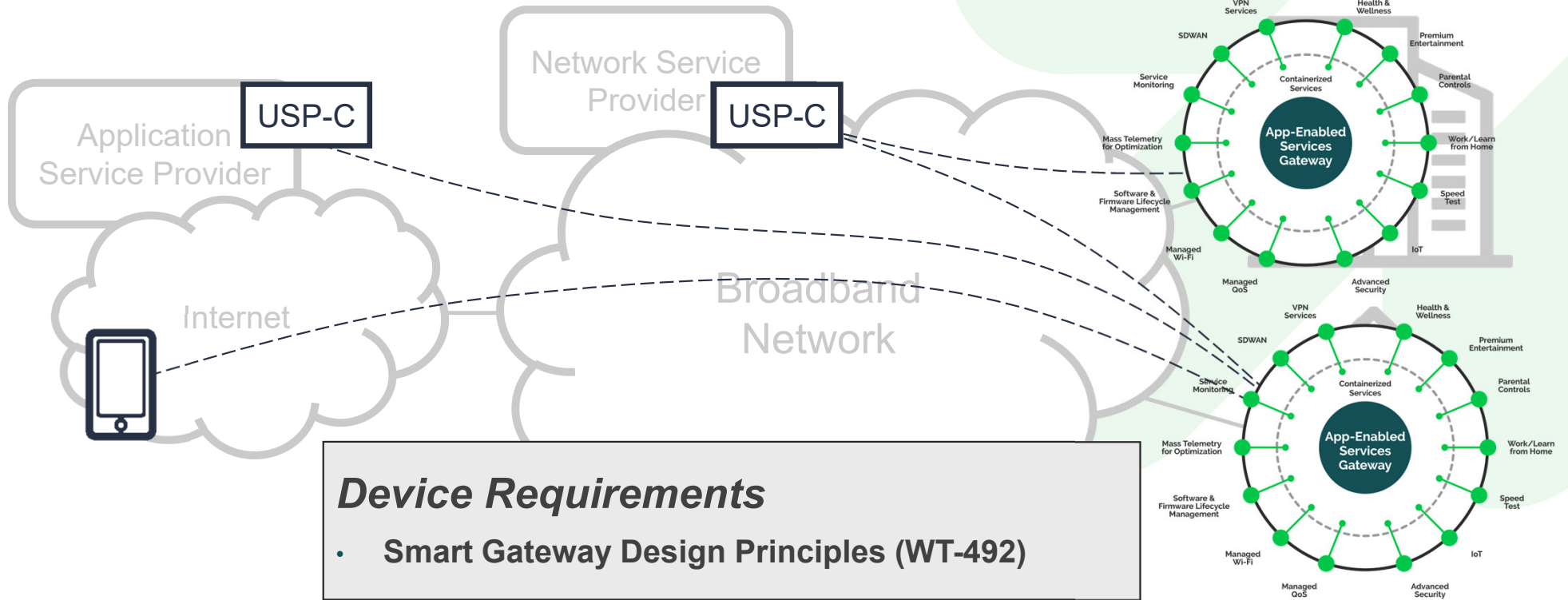
Access/Next

- *Fiber*
- *Copper*
- *Performance Measurement & Analysis*

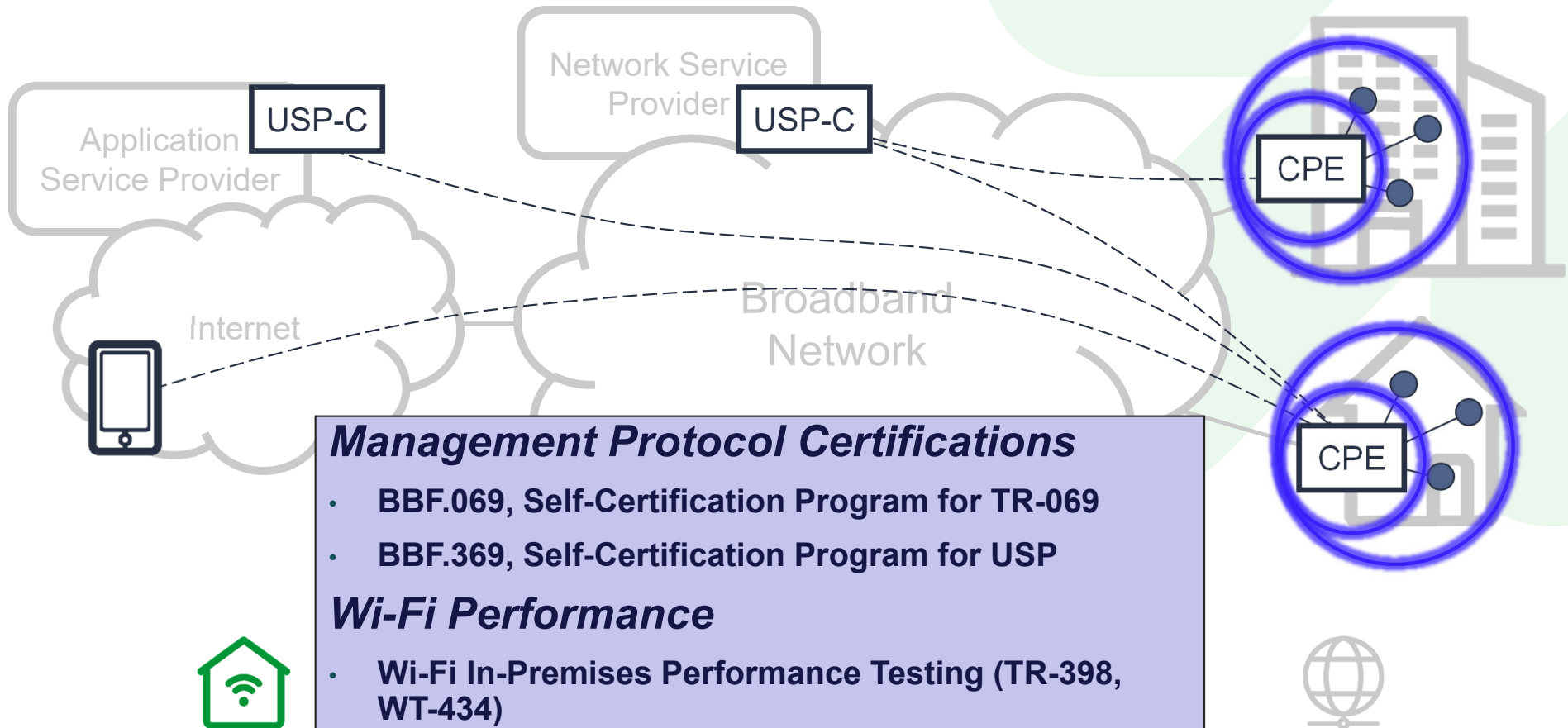
Connected Home Open Standards



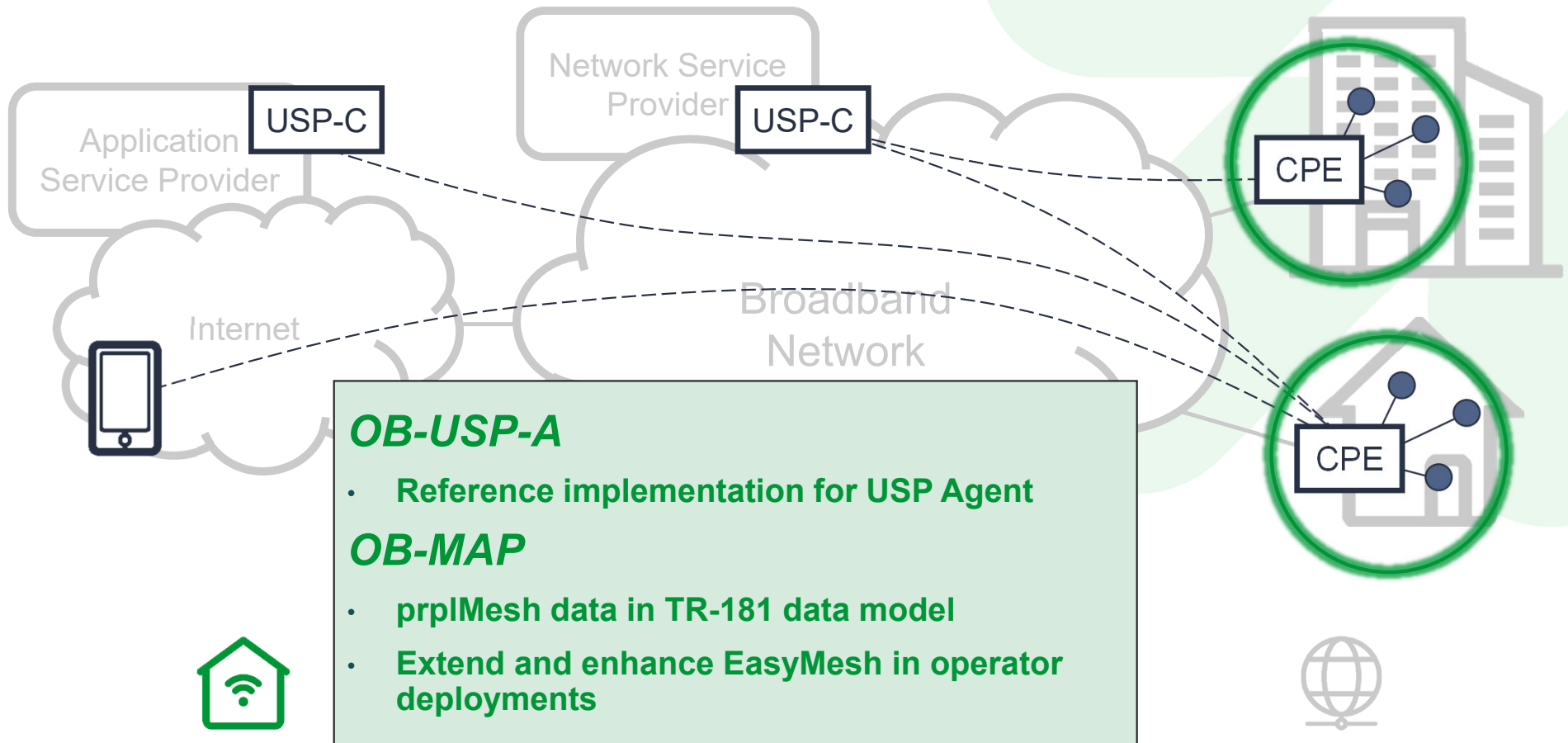
Connected Home Open Standards



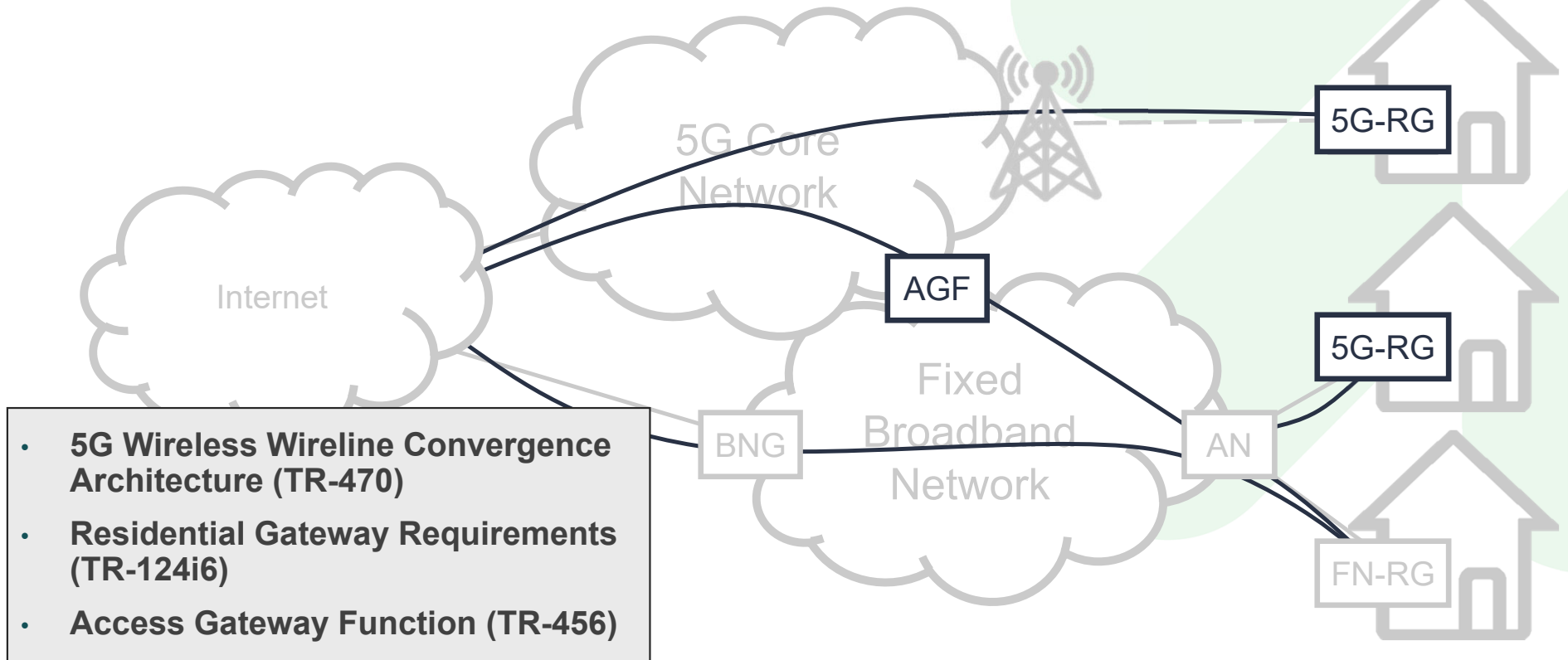
Connected Home Certification and Performance Testing



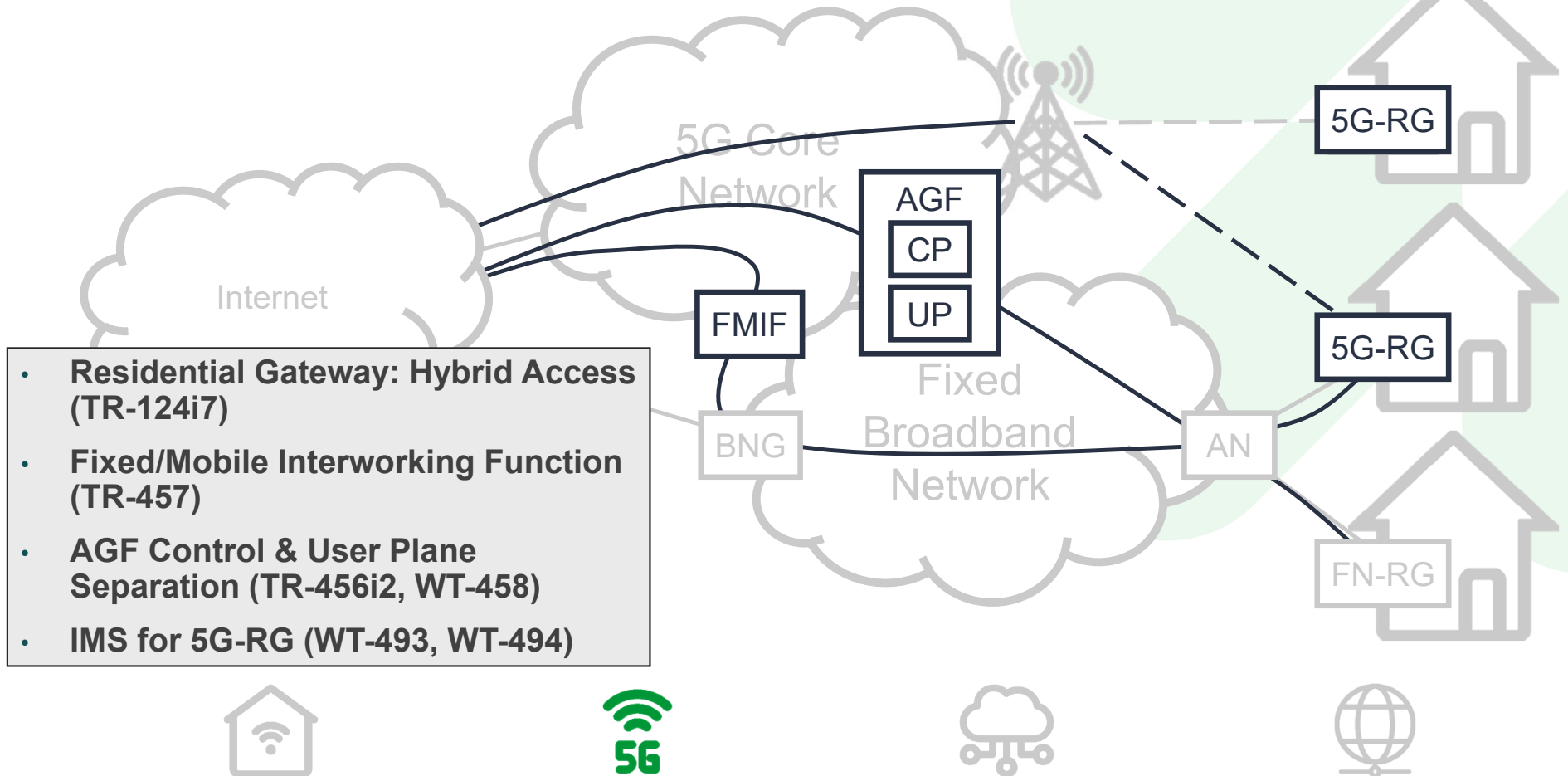
Connected Home Open Broadband Projects



BBF/5G Open Standards: Phase 1



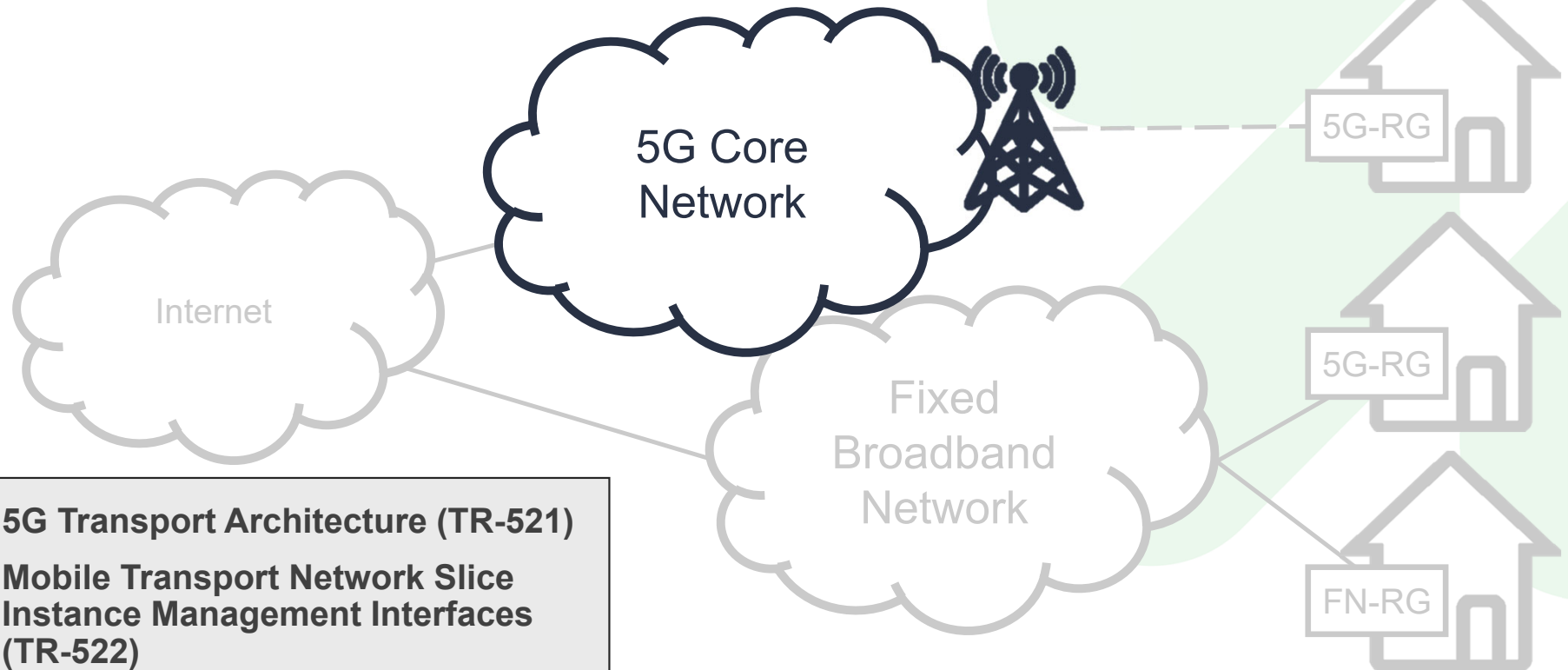
BBF/5G Open Standards: Phase 2



- Residential Gateway: Hybrid Access (TR-124i7)
- Fixed/Mobile Interworking Function (TR-457)
- AGF Control & User Plane Separation (TR-456i2, WT-458)
- IMS for 5G-RG (WT-493, WT-494)



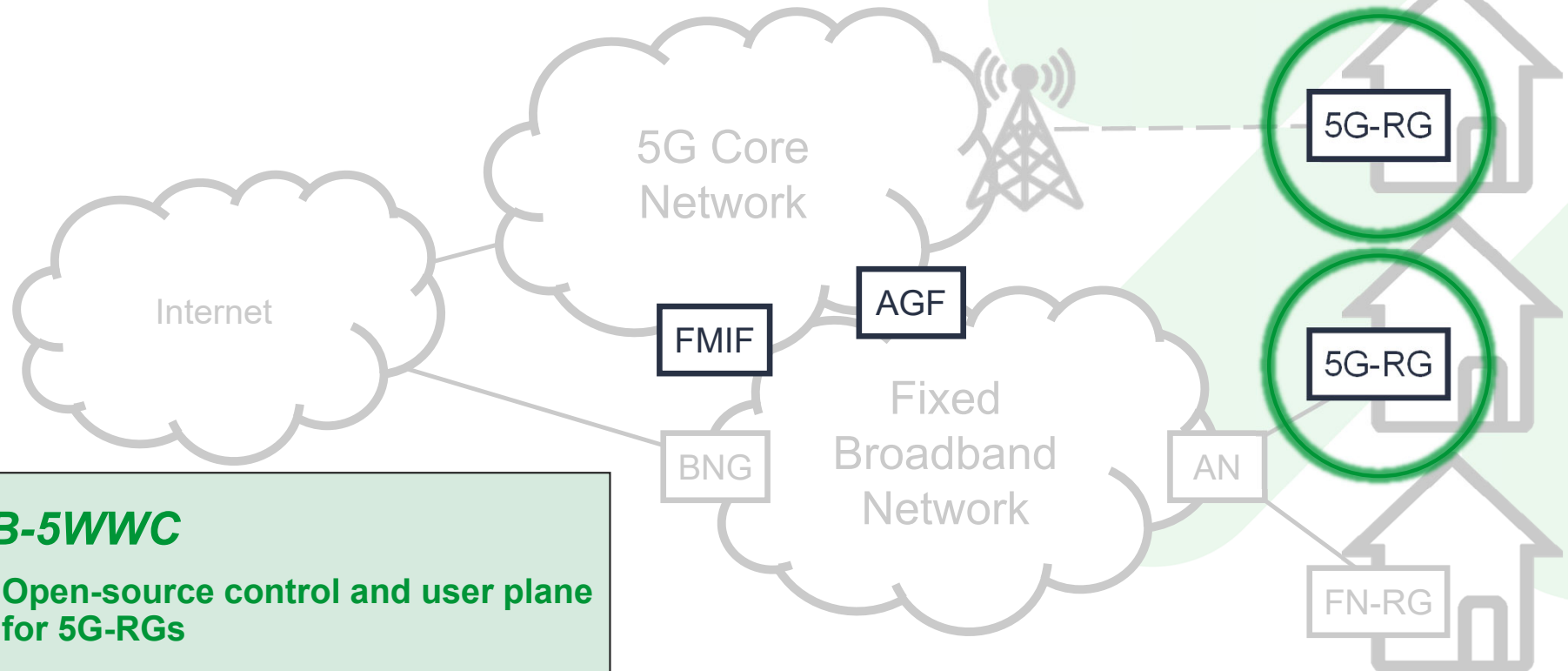
BBF/5G Open Standards: Transport & Slicing



- **5G Transport Architecture (TR-521)**
- **Mobile Transport Network Slice Instance Management Interfaces (TR-522)**



BBF/5G Open Broadband Projects



OB-5WWC

- Open-source control and user plane for 5G-RGs



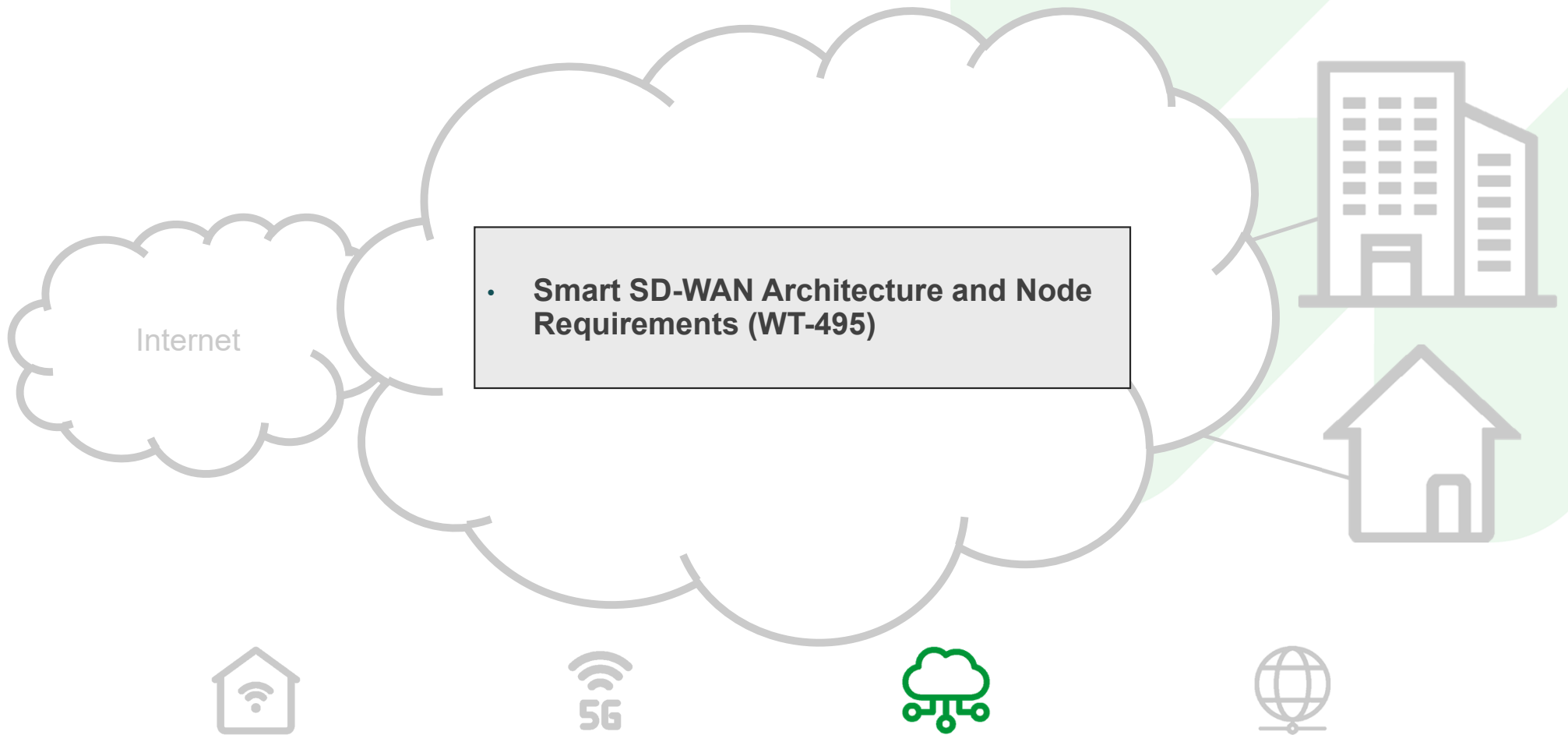
Cloud Open Standards: CloudCO

- Reference Architectural Framework (TR-384)
- Use Cases and Scenarios (TR-416)
- Migration and Coexistence (TR-408)
- Interfaces between CloudCO Functional Modules (TR-411)
- Management and Control Interfaces (TR-413)
- Subscriber Session Steering (WT-474)
- NETCONF requirements for Access Nodes and Broadband Access Abstraction (TR-435)
- YANG Modules for Access Network Map & Equipment Inventory (TR-454)
- Test Cases for Cloud CO Applications (TR-412)

Internet



Cloud Open Standards: SD-WAN



Cloud Open Standards: Cloud Components

Metro Compute Networking

- Use Cases and High Level Requirements (TR-466)
- Architecture, Functional Modules and Interface Definitions (WT-491)

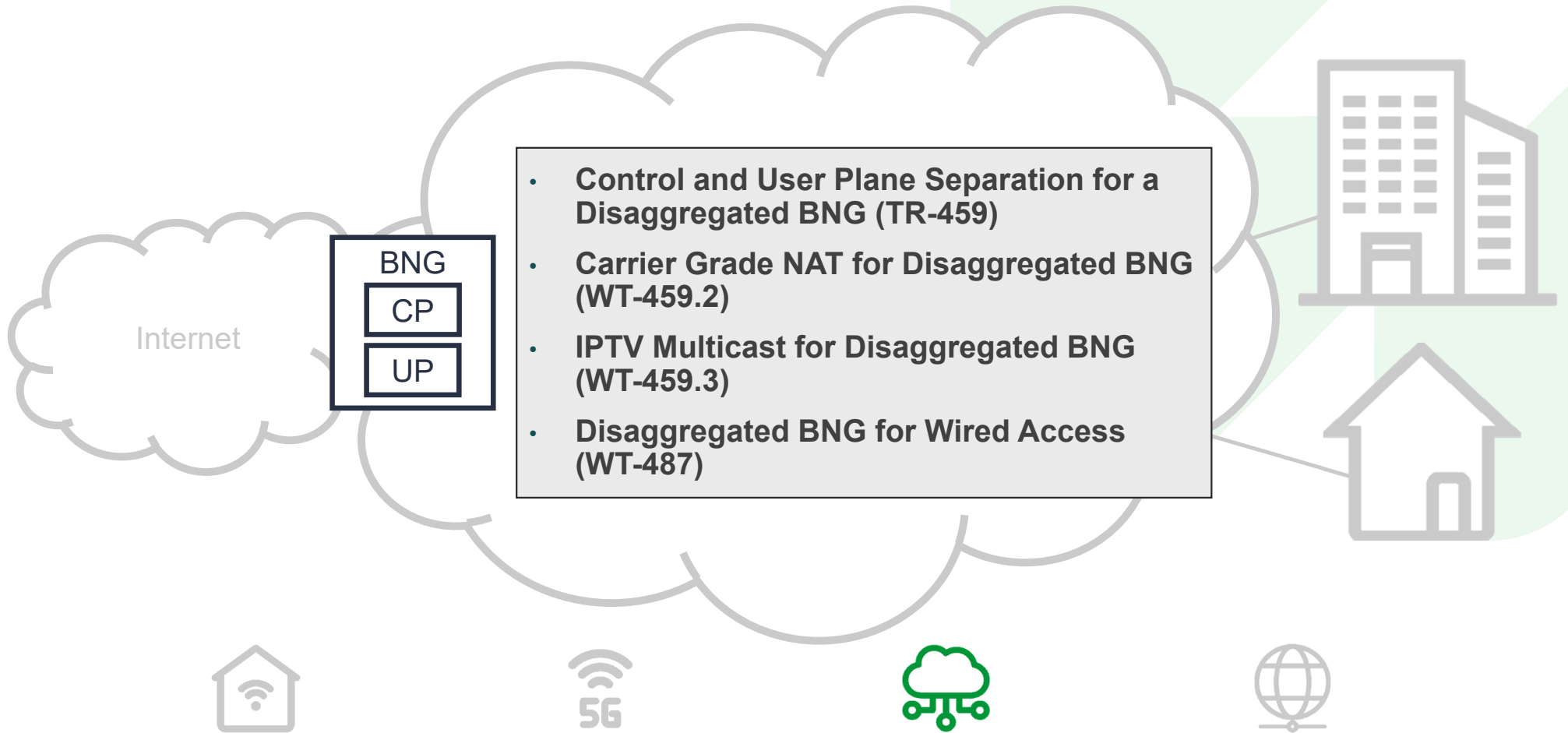
Automated Intelligent Management

- Access & Home Network O&M Automation/Intelligence (TR-436)
- Interfaces for Automated Intelligent Management (WT-486)

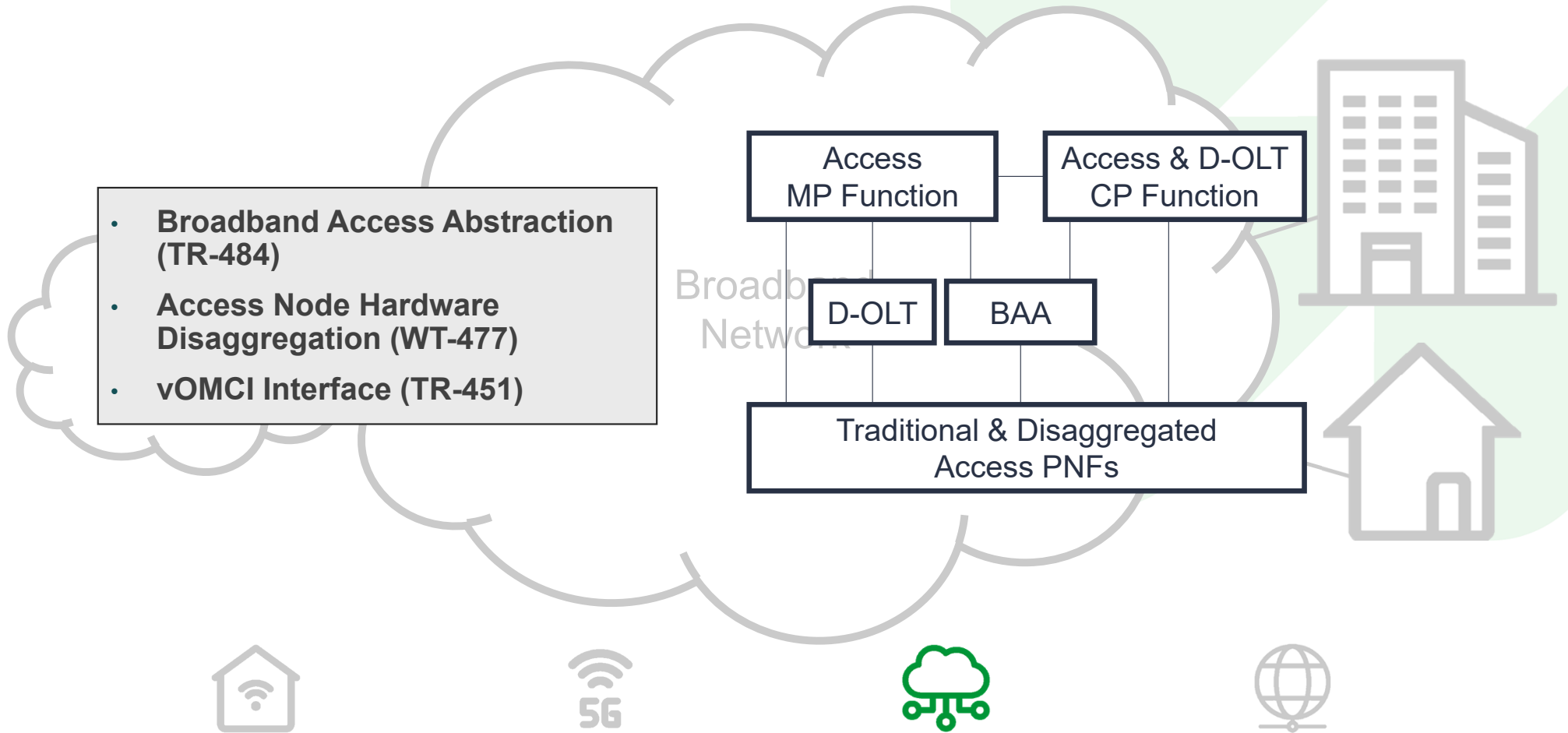
Internet



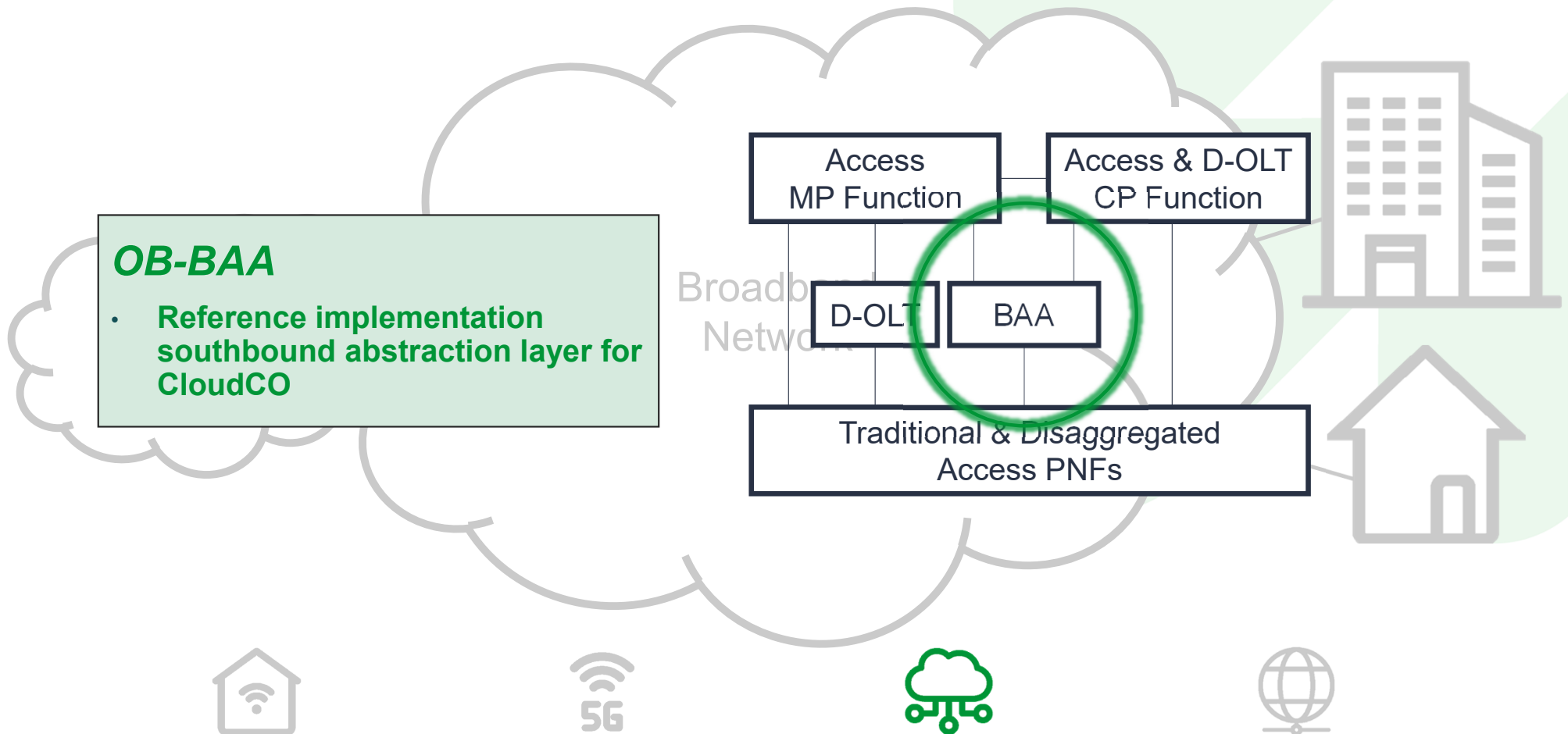
Cloud Open Standards: Broadband Network Gateway



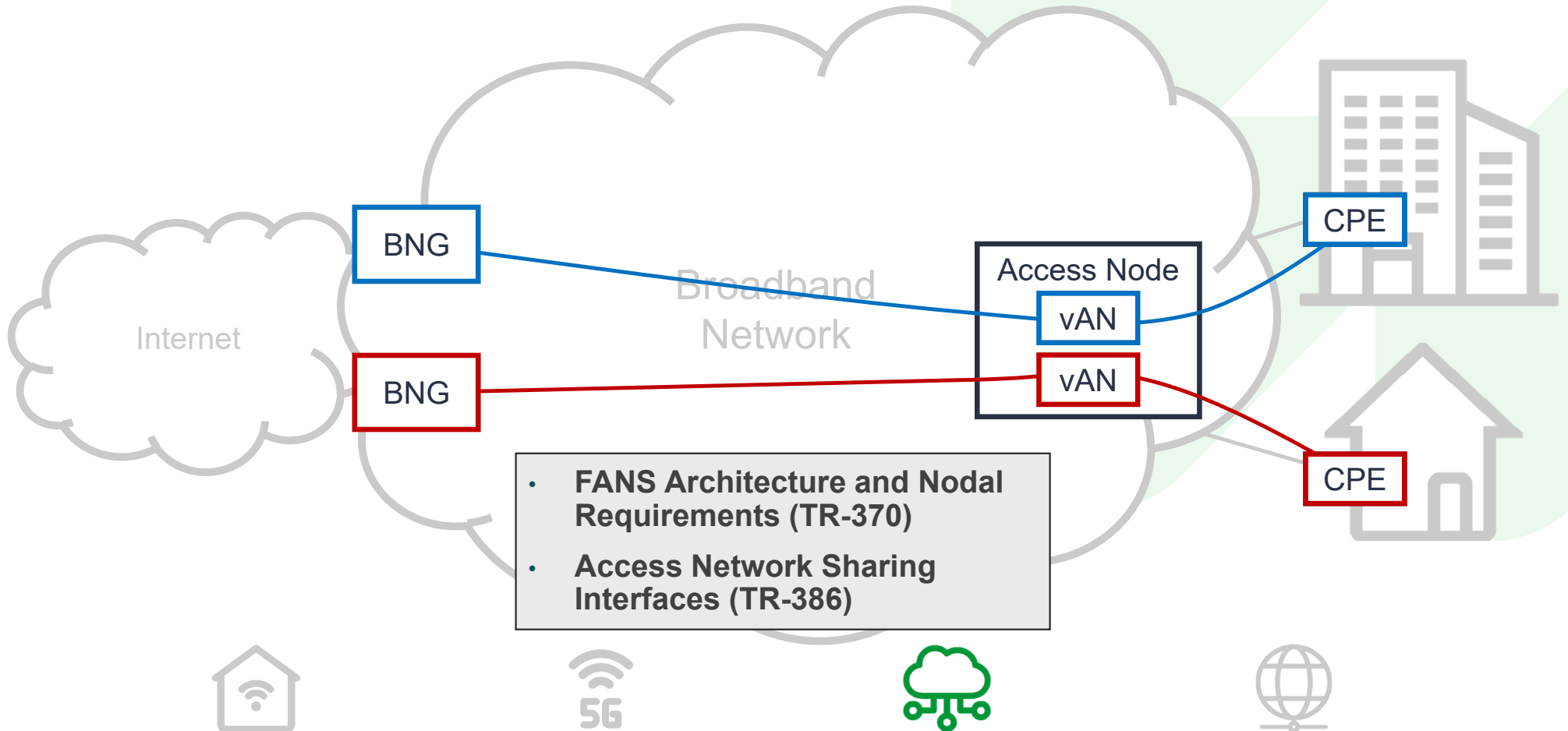
Cloud Open Standards: Access Nodes



Cloud Open Broadband Projects



Cloud Open Standards: Fixed Access Network Sharing



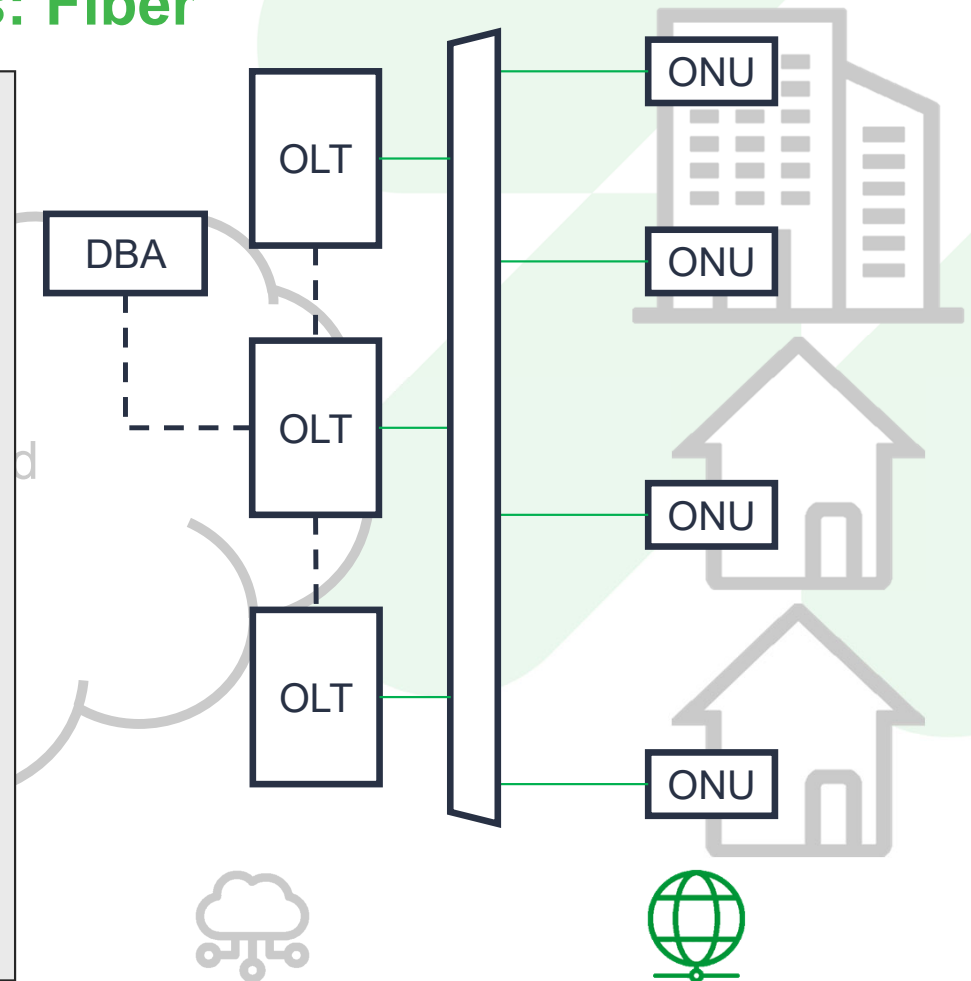
Access/Next Open Standards: Fiber

PON Architecture

- PON with TR-101 (WT-156i5)
- PON-fed Ethernet Access Nodes (WT-167i4)
- ITU-T PON with TR-178 (WT-280i4)
- PON-based Mobile Backhaul (WT-331i2)

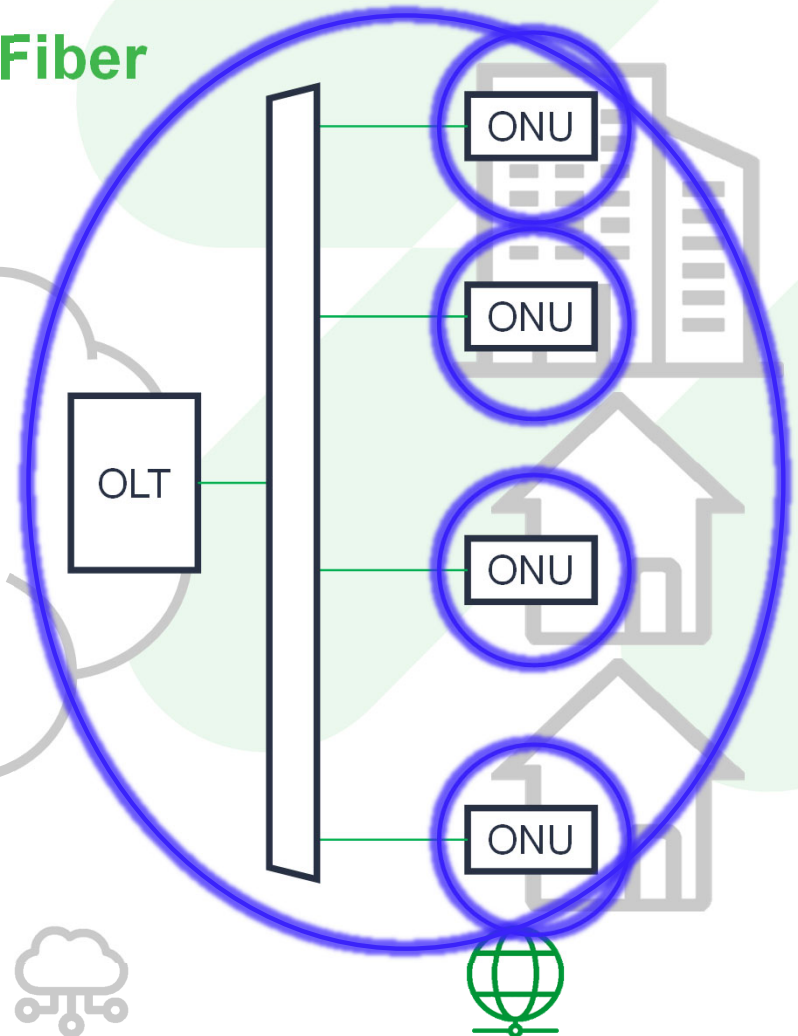
PON Management

- ITU-T PON YANG Modules (WT-385i3)
- EPON YANG Modules (WT-431)
- CWMP- and USP-enabled PON devices (WT-142i5)
- ONU Authentication and eOMCI/vOMCI (TR-489)
- ONU Management at Scale (WT-505)
- Multi-wavelength PON Inter-Channel Termination Protocol (ICTP) (TR-352)
- PON Abstraction Interface for time-critical application (TR-402/TR-403)



Access/Next Certification Testing : Fiber

- ONU Certification (BBF.247, DTP-247i5)
- DTP-255i2 PON Interoperability Test Plan
- TC Layer Interoperability Test Plan (WT-309i3)
- PON PMD Layer Conformance Test Plan (WT-423i3)

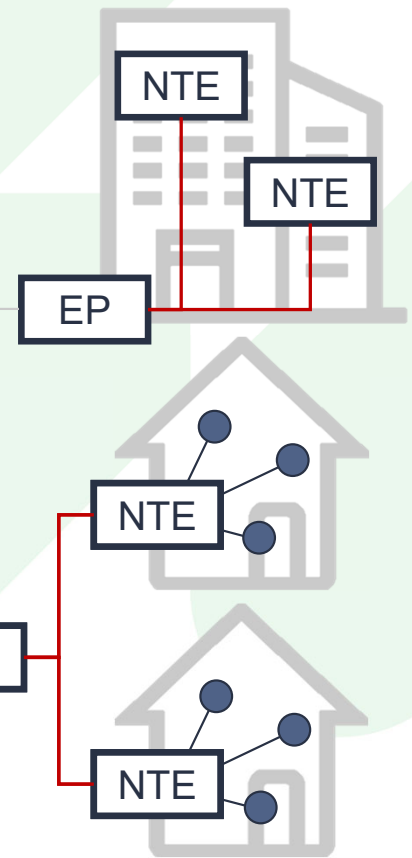


Access/Next Open Standards: Copper

- Architecture and Requirements for Fiber to the Distribution Point (TR-301)
- Fiber Access Extension over Existing Copper Infrastructure (TR-419)
- Architecture and Requirements for Home Distribution Networks (WT-488)
- Broadband Copper Cable Models (TR-285)

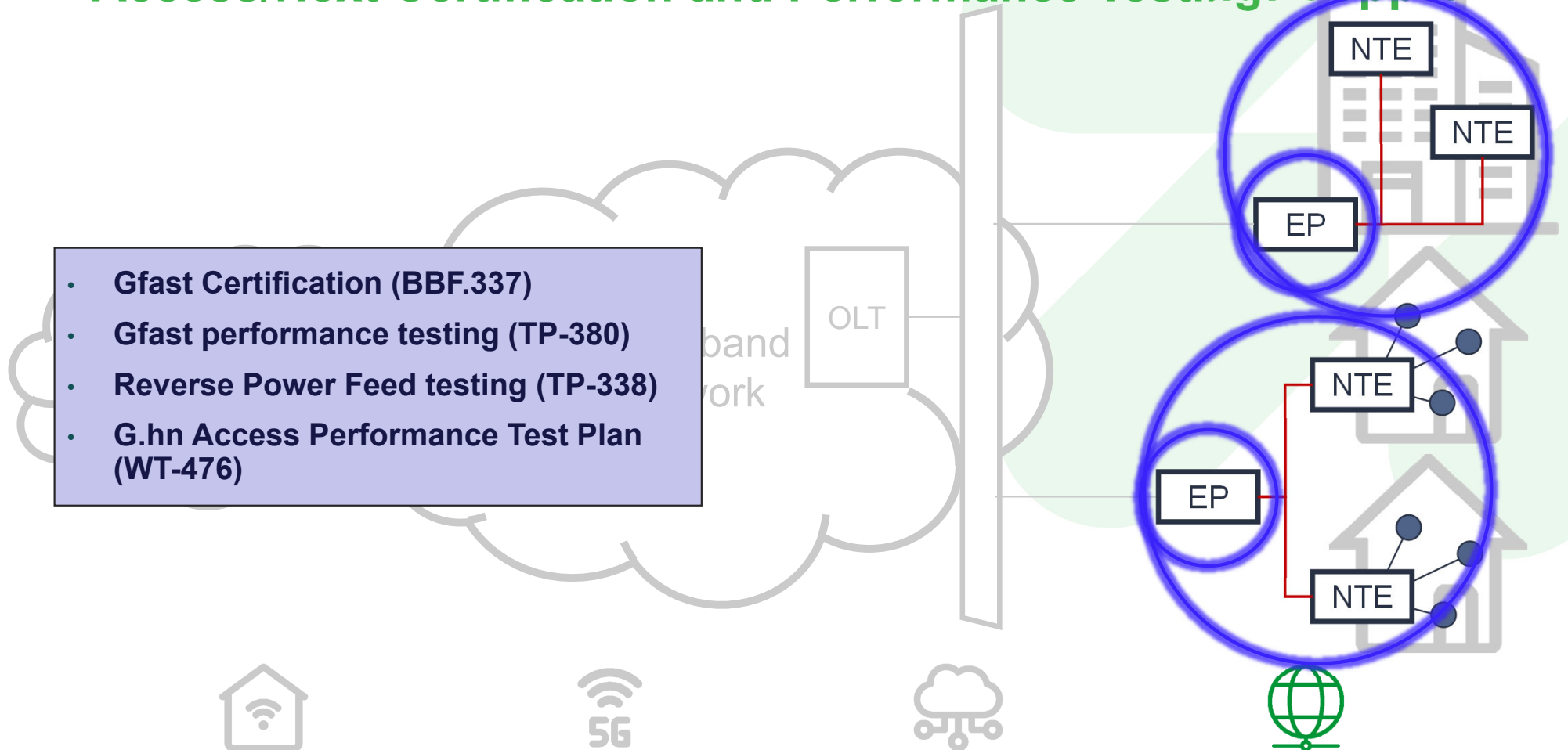
band
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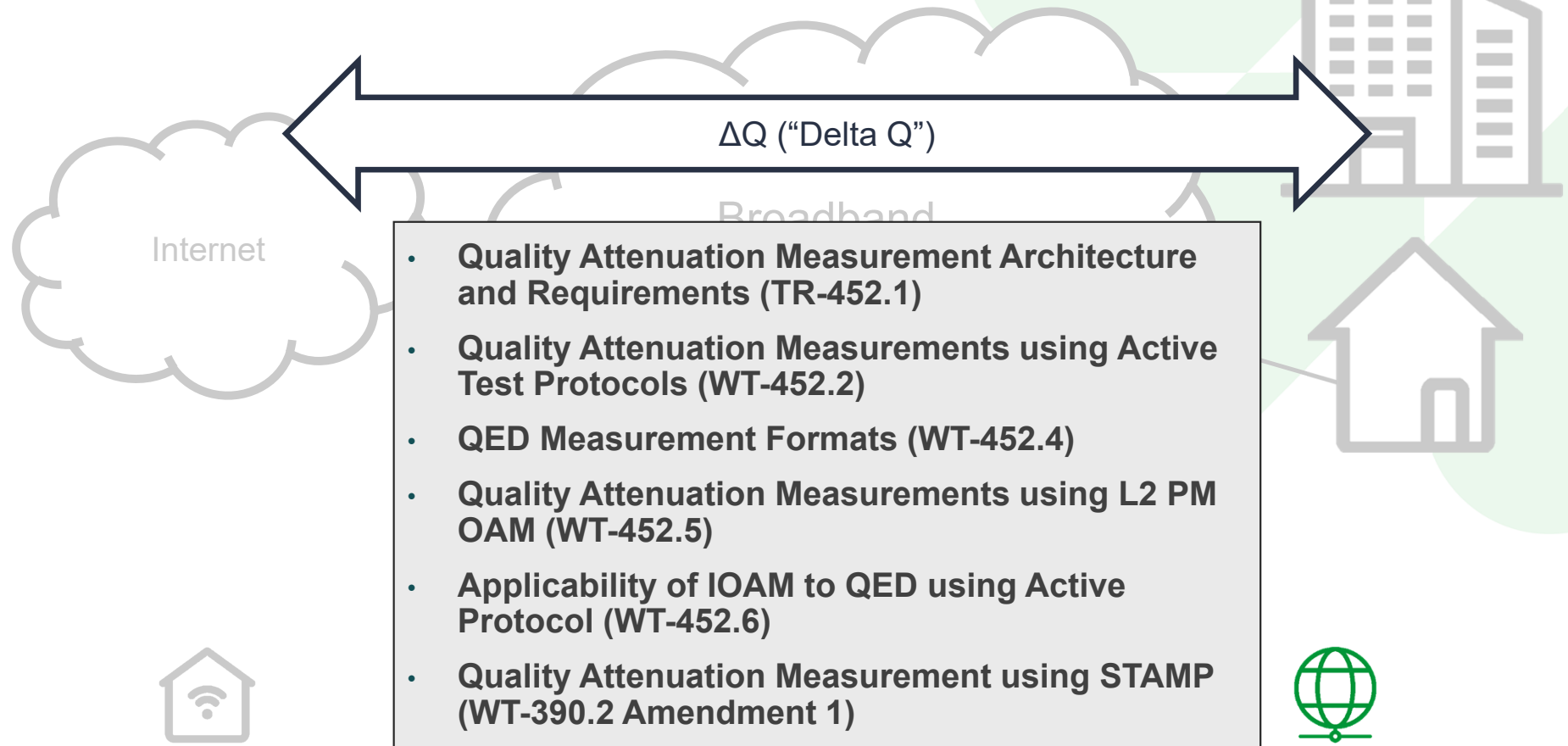


Access/Next Certification and Performance Testing: Copper

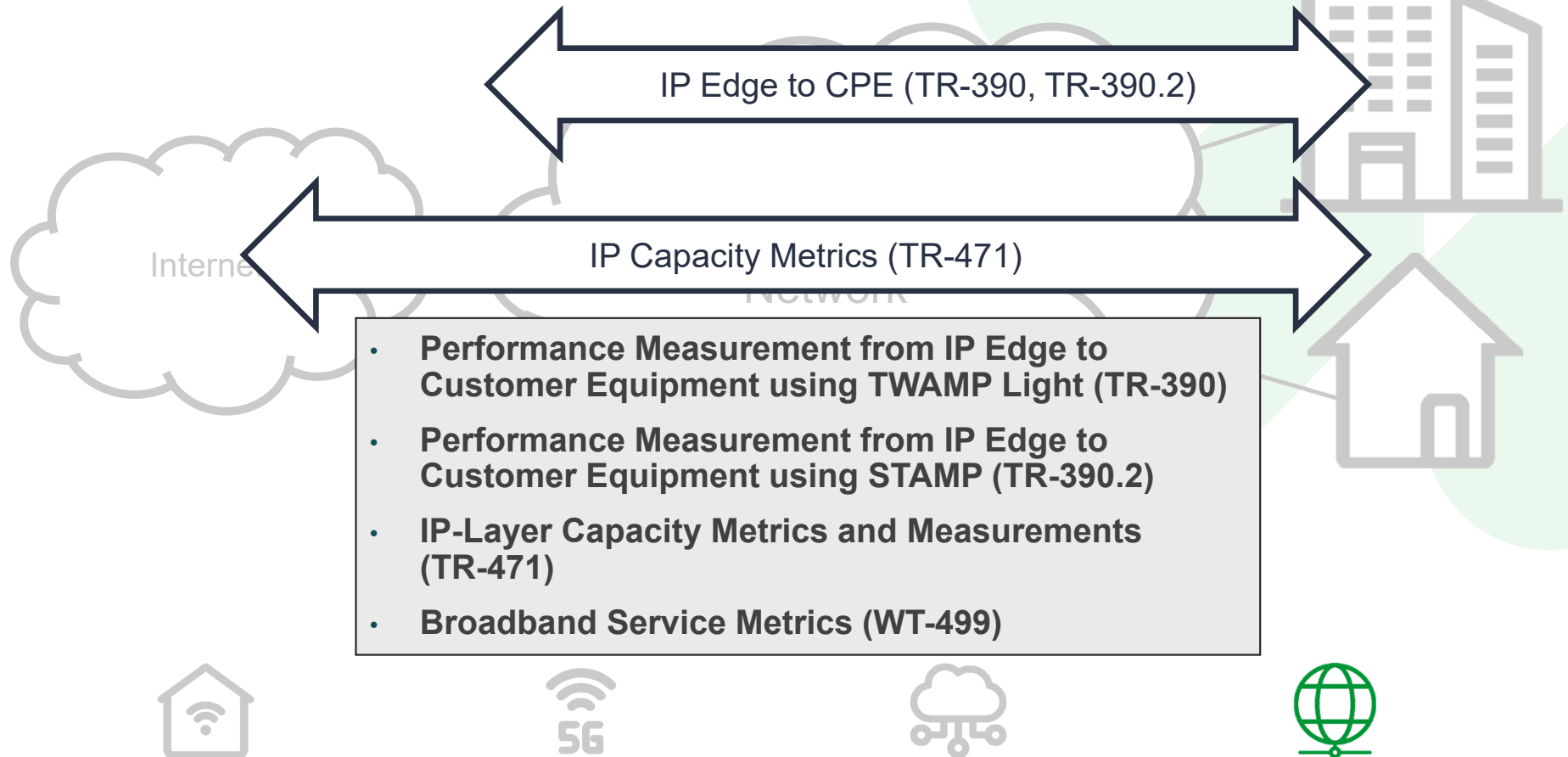
- Gfast Certification (BBF.337)
- Gfast performance testing (TP-380)
- Reverse Power Feed testing (TP-338)
- G.hn Access Performance Test Plan (WT-476)



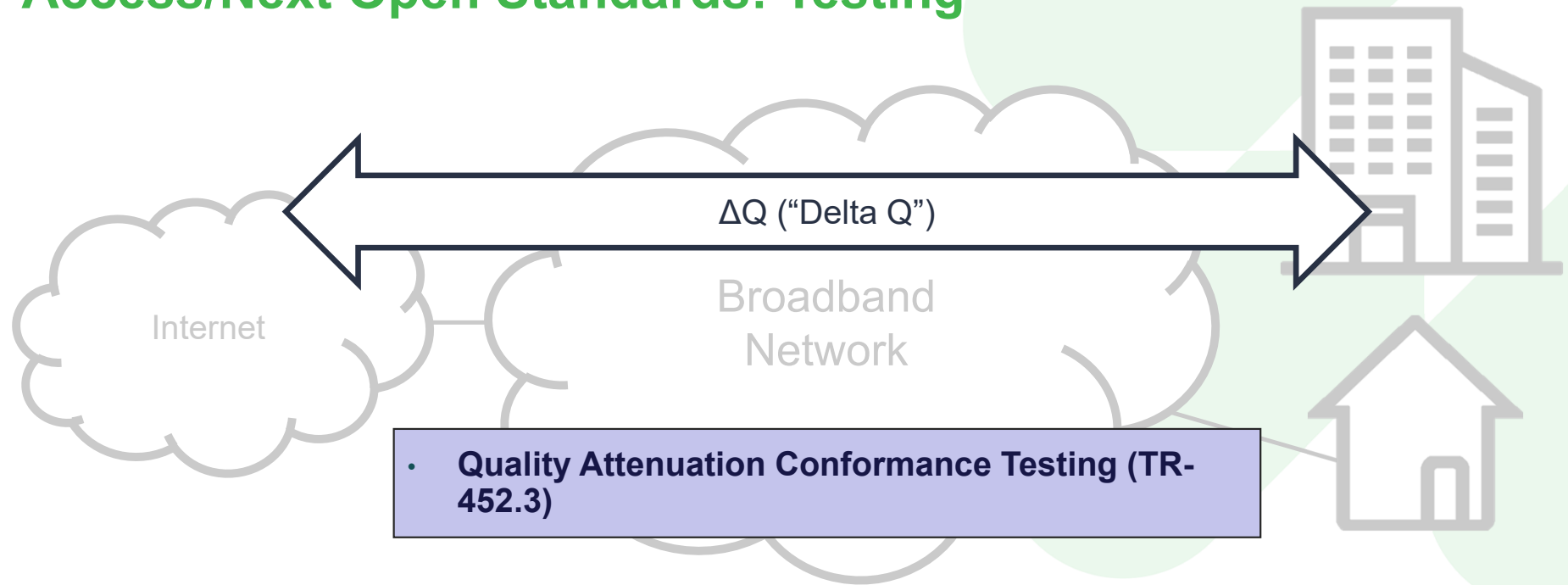
Access/Next Open Standards: Quality Attenuation



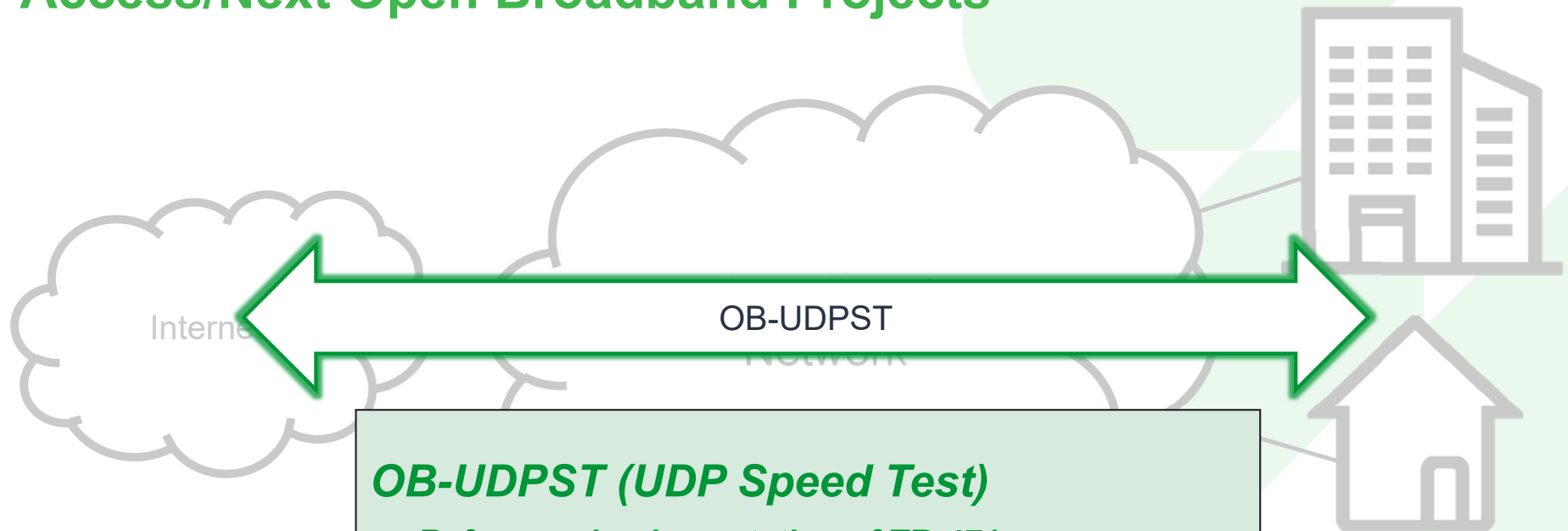
Access/Next Open Standards: Performance



Access/Next Open Standards: Testing



Access/Next Open Broadband Projects



OB-UDPST (UDP Speed Test)

- Reference implementation of TR-471
- More accurate than TCP-based throughput tests, esp. at Gigabit speeds



Thank you

Learn more about Broadband Forum at:
<http://www.broadband-forum.org/>

Interested in more information?
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