ITU-T Joint FTTR Workshop

July 10, 2024

Managed Wi-Fi Standardization at the BBF

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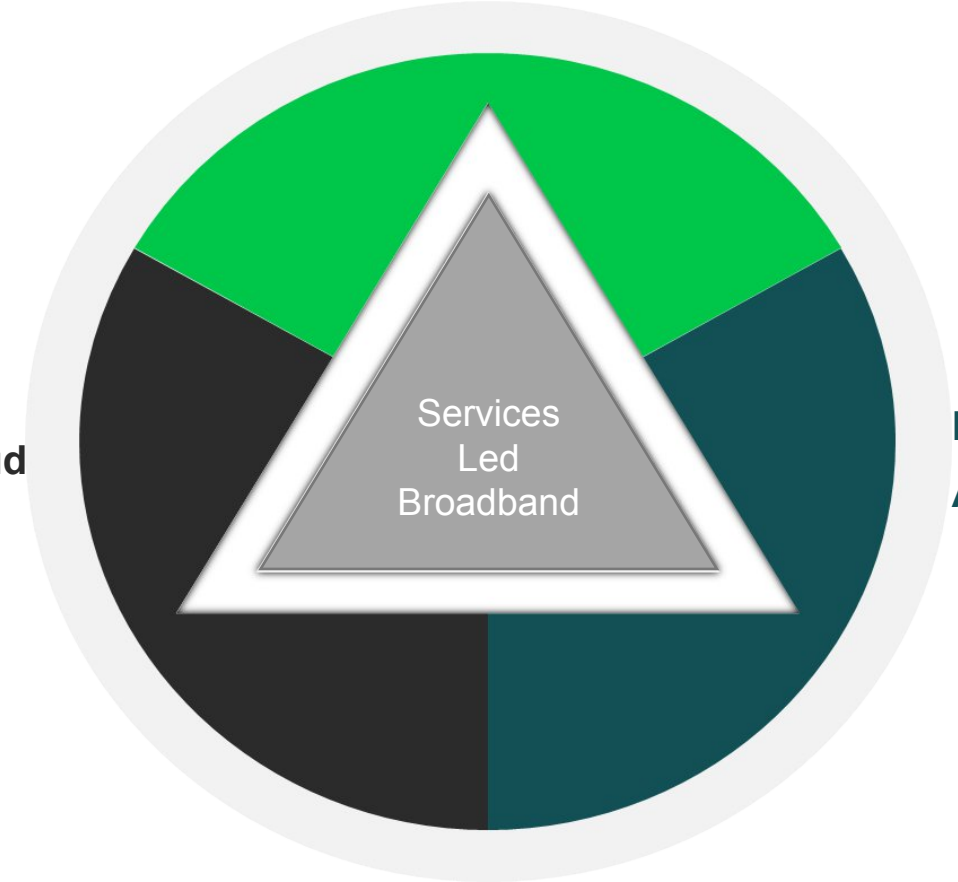
Our Focus

Connected User



Provider Cloud

Broadband Network Architecture

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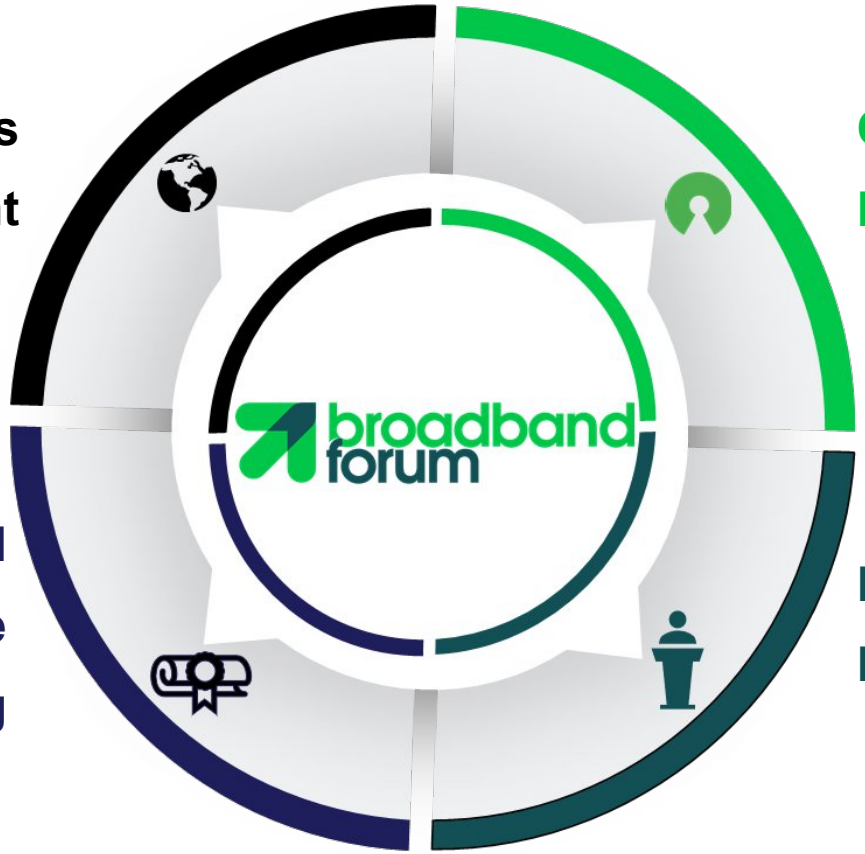
BBF Deliverables

Global Open Standards Development

Open Broadband Projects



Certification and Performance Testing

BASe: Industry Education

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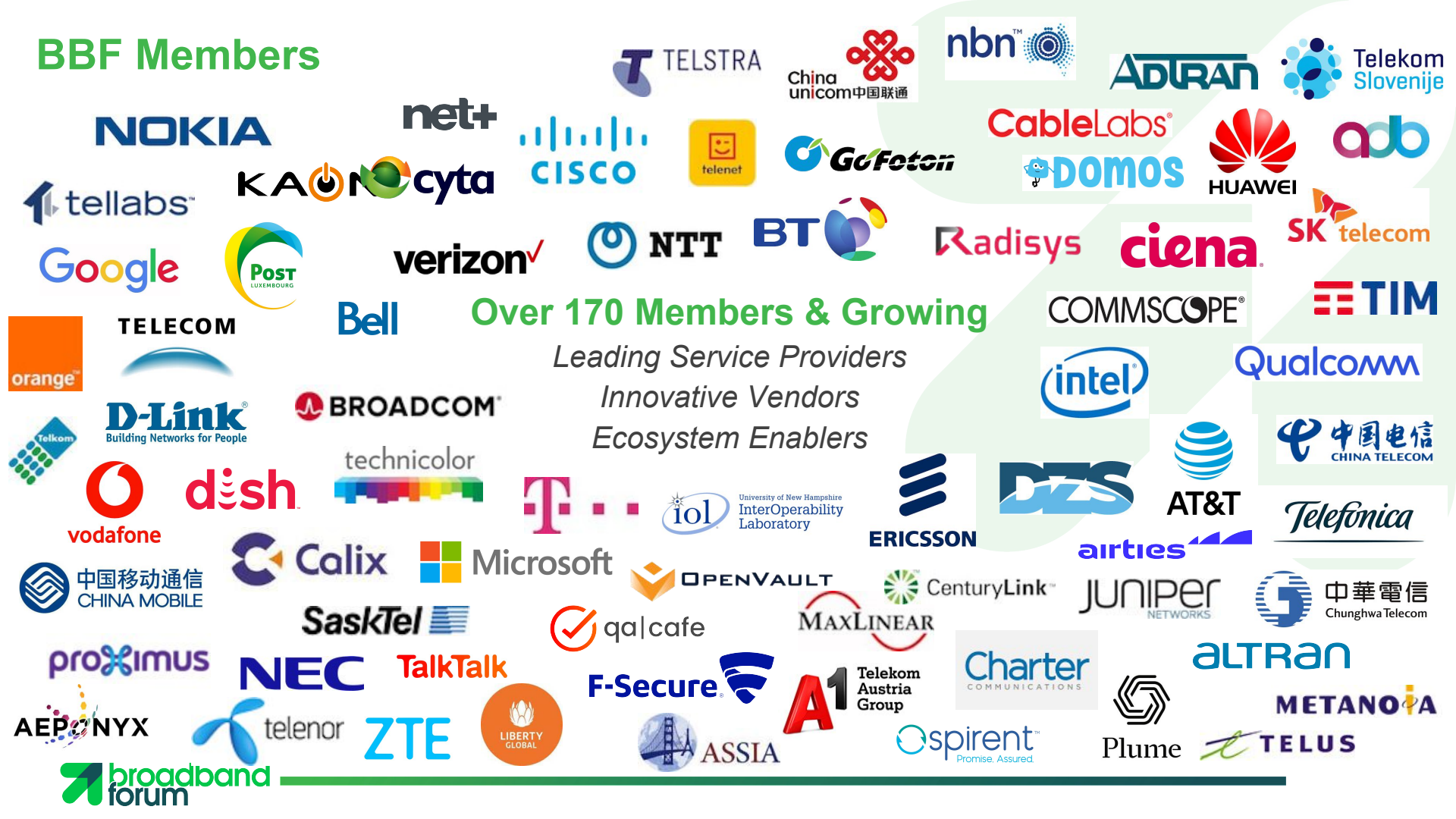
BBF Members


TELSTRA
China unicom中国联通
nbn
ADTRAN
Telekom Slovenije
NOKIA
net+
cisco
telenet
GoFoton
CableLabs
DOMOS
HUAWEI
adb
tellabs
KAONcyta
Google
Post Luxembourg
verizon
NTT
BT
Radisys
ciena
SK telecom
TELECOM
Bell
Over 170 Members & Growing
COMMSCOPE
TIM
orange
Leading Service Providers
Innovative Vendors
Ecosystem Enablers
intel
Qualcomm
D-Link
Building Networks for People
BROADCOM
Telkom
technicolor
中国电信
CHINA TELECOM
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University of New Hampshire InterOperability Laboratory
ERICSSON
DZS
AT&T
Telefonica
Calix
Microsoft
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中国移动通信
CHINA MOBILE
OPENVAULT
CenturyLink
JUNIPER NETWORKS
中華電信
Chunghwa Telecom
SaskTel
qa|cafe
MAXLINEAR
proximus
NEC
TalkTalk
F-Secure
Charter COMMUNICATIONS
ALTRAN
AEPONYX
telenor
ZTE
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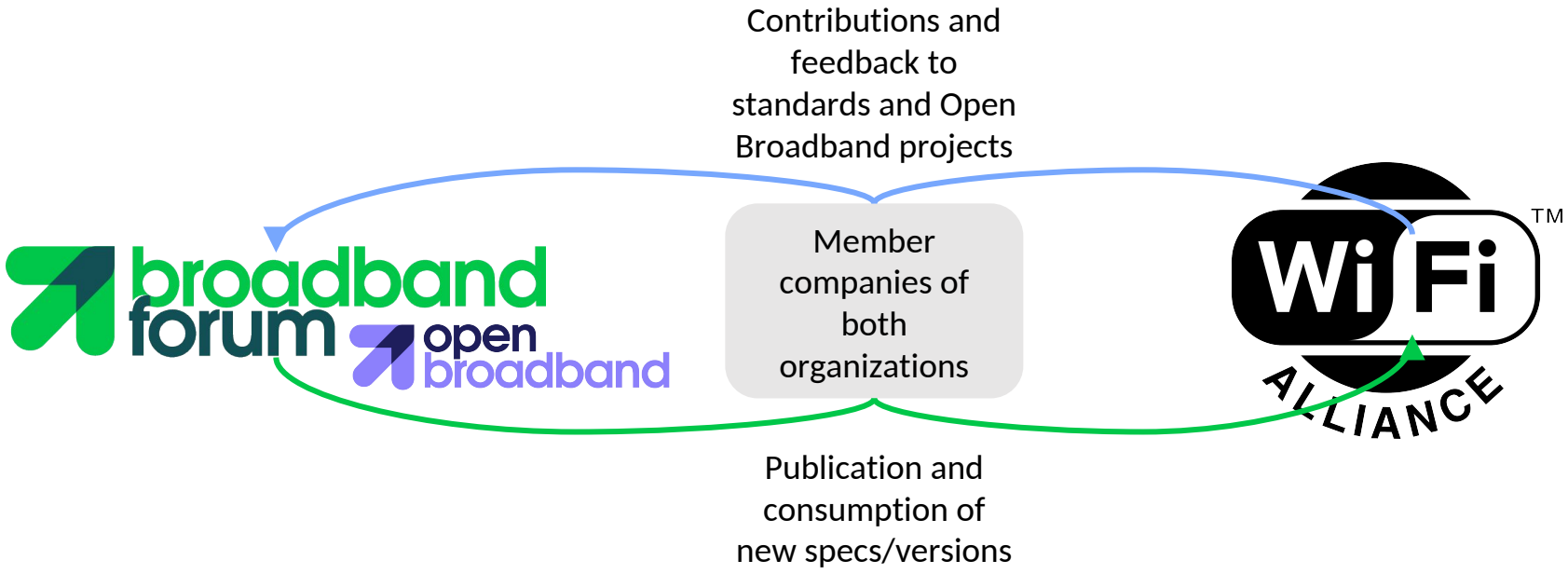
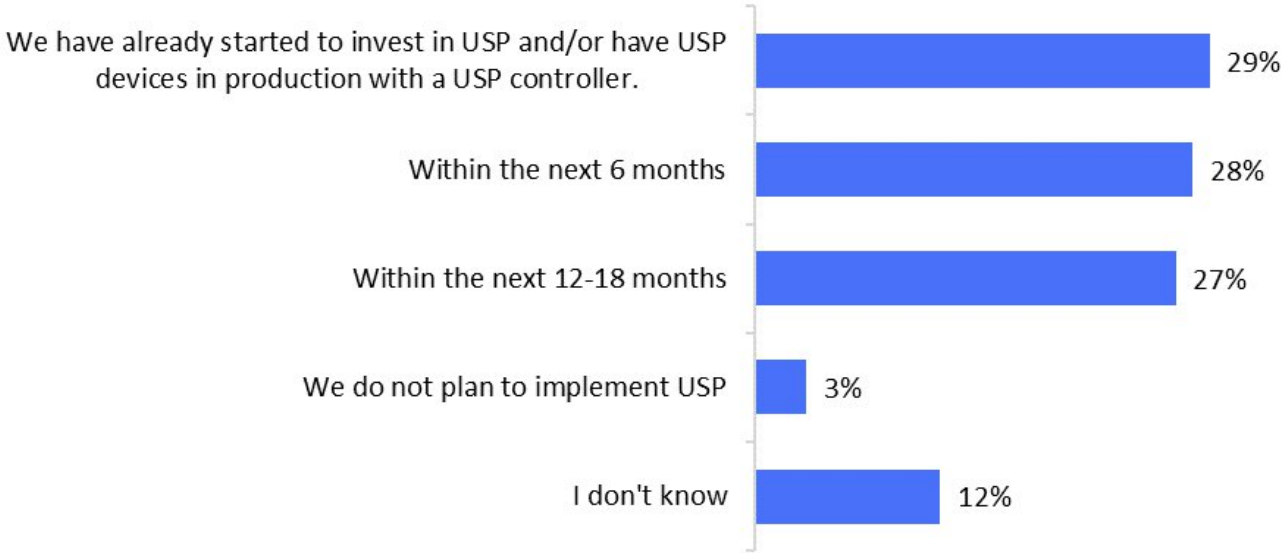
How we work with other groups



And vice-versa…

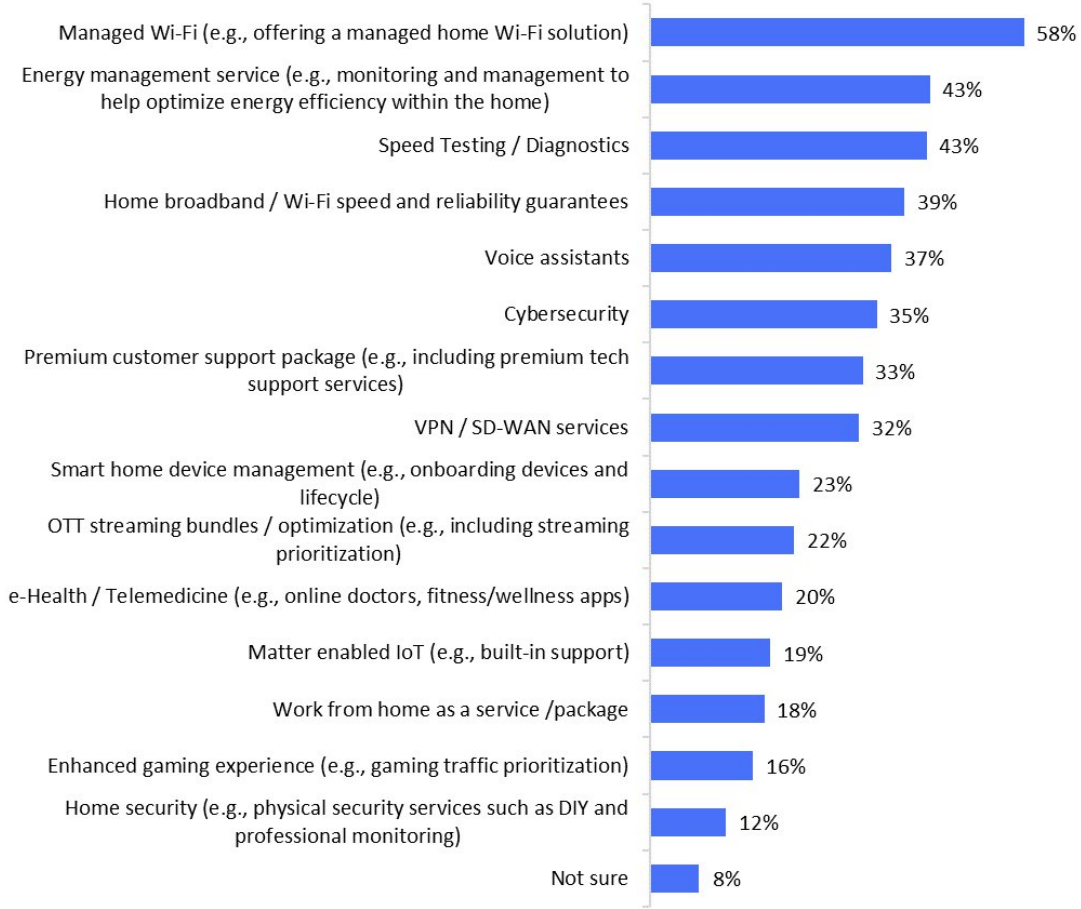
2023 Survey of Over 100 Operators Worldwide

If you use or plan to deploy USP/TR-369, what is your timeline?



N: 92
Source: Omdia

What value-added services and features do you plan to deploy exclusively using TR-369/USP?



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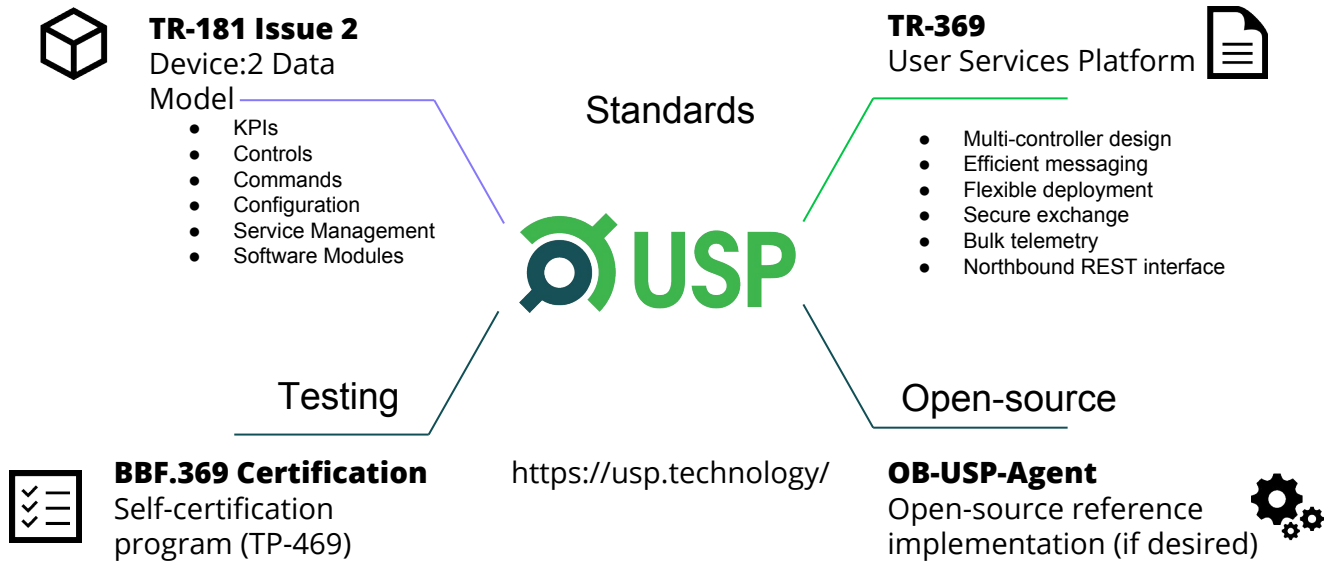
Source: Omdia

What makes up the User Services Platform?

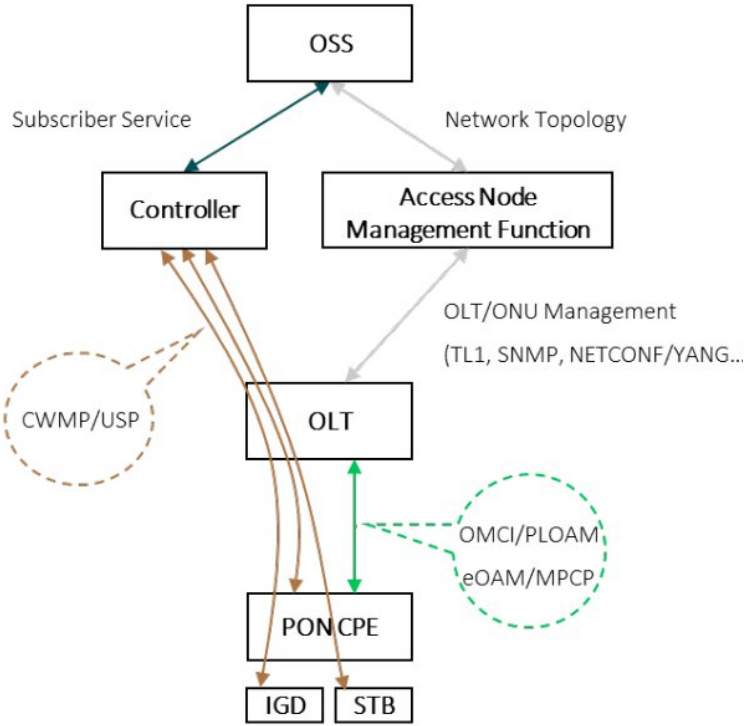


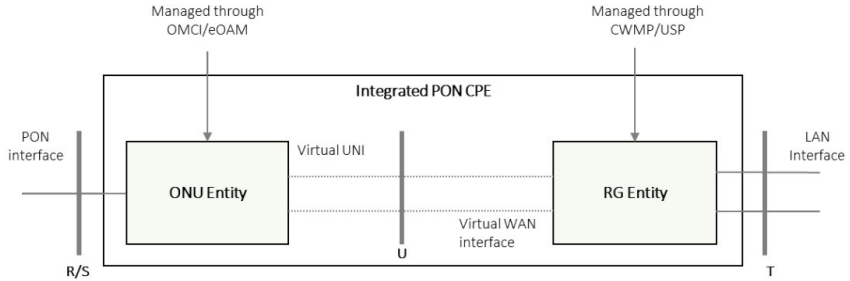
Complemented by:

Wi-Fi Data Elements Certification
QuickTrack certification method
https://www.wi-fi.org/discover-wi-fi/Wi-Fi-Data-Elements

BBF TR-142
TR-142 Issue 4: Framework for TR-069 and USP enabled PON Devices

Agreed Upon TR-142 Architecture for PON Broadband Access





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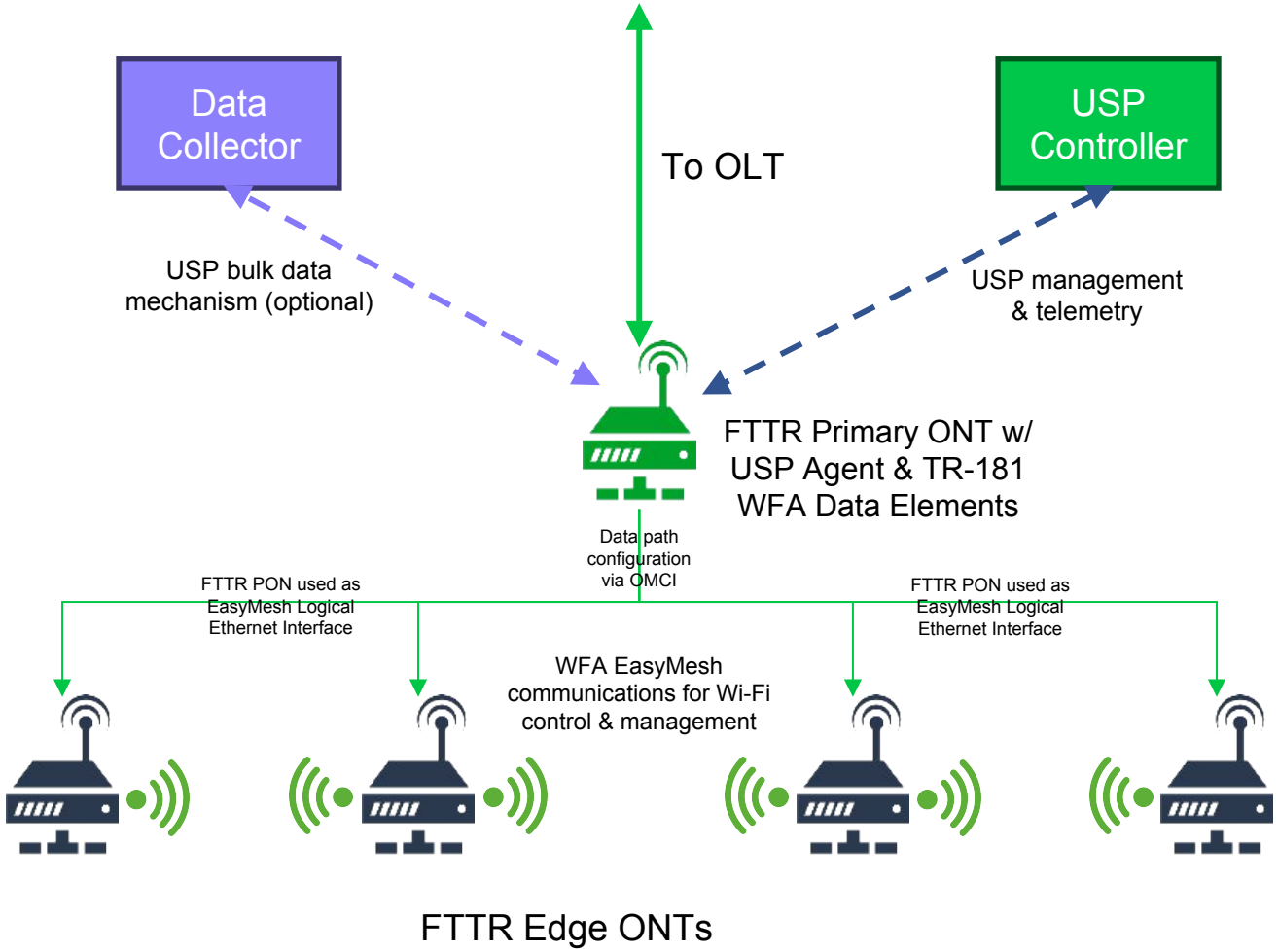
Wi-Fi Alliance Data Elements in TR-181

- R2 added in Device:2.15 (2022)
- Working directly with WFA members on incorporating updates
- R3 in Device:2.17 (2023)
- Multi-Access Point (backhaul agnostic) standardized
- Includes metrics and active commands (operations beyond setting configurations
- R4 in progress to add more detailed configuration capabilities to the Wi-Fi system



FTTR connectivity can be used as-is with no additional standardization required by using USP/TR-181 and EasyMesh

Sticking with aligned industry standards

- USP is the heterogeneous management solution for many different deployment models and backhaul technologies
- Industry has converged on USP/TR-069 as the management platform
- TR-181 is holistic, beyond Wi-Fi management alone; including firmware updates, other interfaces, applications, etc.
- USP/TR-181 referenced by multiple other standards and OS's: WFA, WBA, RDK, prpl, and more
- ITU-T should also reference USP/TR-181 for Wi-Fi management for FTTR