

# Fiber to the Room (FTTR) Service Provider view

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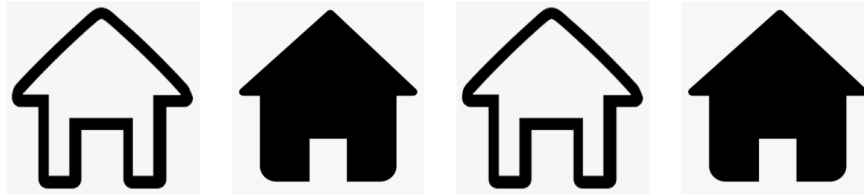
# Broadband in the home – Yesterday



	Early 2000s	Starting 2011
<b>Copper from the CO</b>	Service provider used existing telephone line	Share loss is dramatic
<b>Coax from the CO</b>	Service provider used existing coax	Share gain is dramatic - broadband for triple-play & coax used to extend broadband inside home
<b>Fiber from the CO (FTTP)</b>	Begins to ramp up	Share gain is dramatic - significant speed upgrade
<b>WiFi</b>	Just beginning path to dominance	Used to extend broadband inside home

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# Broadband in the home – Today



<b>Coax from the CO</b>	Share continues to grow – broadband continues to be profit engine
<b>Fiber from the CO</b>	Revenue continues to grow. Triple play continues to dominate
<b>WiFi</b>	WiFi 6 provides dramatic speed and coverage improvement
<b>5G FW</b>	Speeds can approach Multigig

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# Broadband in the home – Tomorrow



<b>Emerging Use Cases</b>	Gaming, Healthcare, Streaming and AR/VR - demand low latency / High bandwidth
<b>WiFi</b>	WiFi 6 performance sufficient for most applications
<b>5G FW</b>	Adequate replacement for wired broadband
<b>FTTR</b>	Possible solution for emerging use cases

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## Why FTTR – is there a need?



- Bandwidth not evenly distributed
- Demand for low latency
- Security
- Lasts a generation

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# What is in it for service providers ?



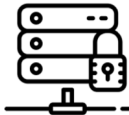
- Fewer truck rolls



- Fewer customer service calls



- Less wiring upgrades



- More secure networking solution

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# What is in it for customers?



- Reliable bandwidth
- Faster download & upload
- Improved video quality
- Low latency
- Improved refresh time
- Faster startup time
- Security

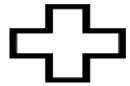


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## Common Use cases



High Speed Gaming



Healthcare



Smart Office



AR/VR applications



Entertainment / Streaming



Education



WiFi Backhauling



# Thank you