

Hybrid Gigabit Deployments

Intro:

Founder and CEO (Chief Everything Officer)

AeroNet Wireless Broadband LLC & 5G Telecom LLC

- Hybrid ISP serving PR, USVI and Miami.
- Founded in 2001, Business-Enterprise Market
- Started as FWA ISP, Fiber Network started in 2010
- DIA, Broadband, Metro Ethernet, VOIP, Managed Svcs.
- 5G Telecomm : Technology Integrator









Hybrid = Wireless + Fiber

Network of 250+ sites, 150+ Lit Buildings

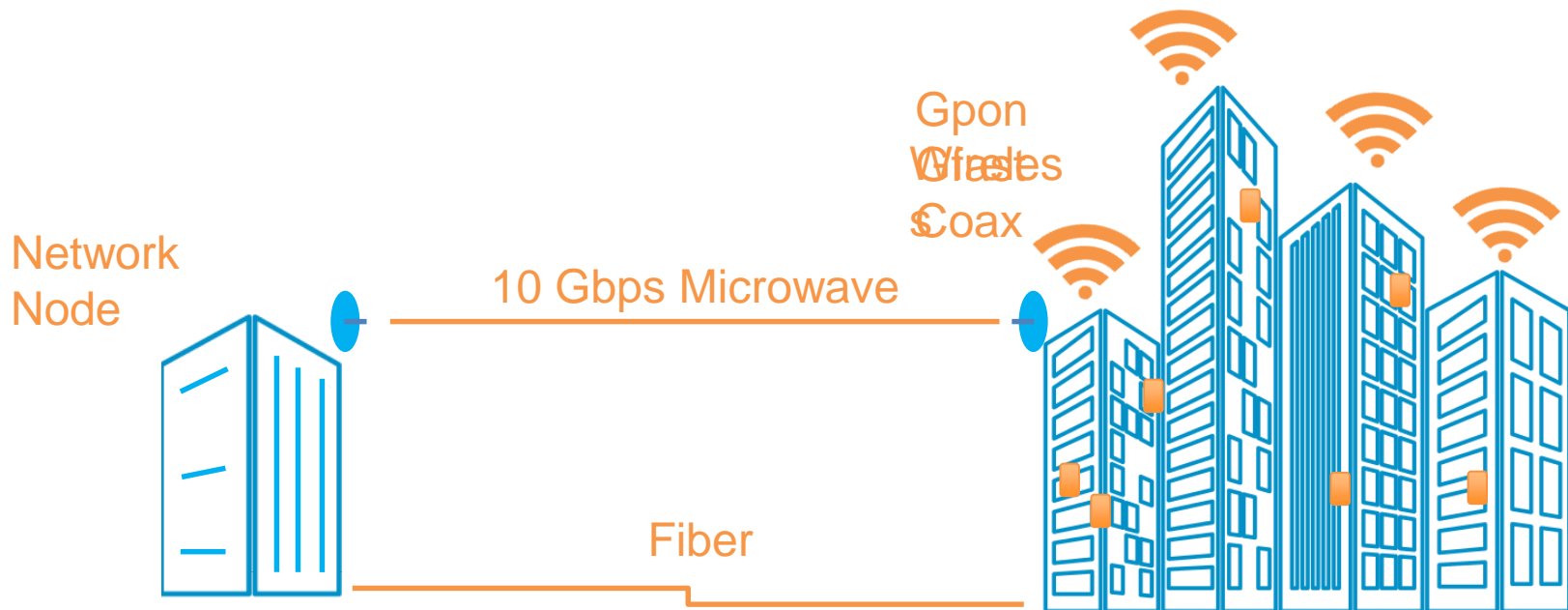
67% = Licensed Microwave up to 10 Gbps

33% = Fiber Backbone 10-100 Gbps

Fiber vs Wireless? Fiber + Wireless!

	Speed	Cost	Deployment Time	Deployment Ease	Life
Fiber					
Wireless					

Deployment Scenarios



Wireless Gigabit Access Technologies

Fixed Wireless Access:

Outdoor,
Cost-Effective,
Unlicensed Spectrum
500 Mbps

LTE/5G:

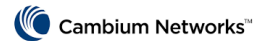
In/Outdoor,
Expensive,
Licensed Spectrum,
1+ Gbps

mmWave 60GHz:

Outdoor,
Cost-Effective,
Unlicensed Spectrum,
1+ Gbps

Wireless Gigabit Technologies :

mmWave 60 Ghz - Point to Multipoint



Developed by the Telecom Infrastructure Project (TIP) a Facebook initiated industry-wide open-sourcing organization.

Goals:

- Deliver Wireless Gigabit Connectivity
- Lower Cost of Network Deployment
- Faster Time to Market
- Scales up as Needed
- Mesh Network Design

Achievements:

- Multi-Vendor Hardware Partners
- Successful Trials
- Deployed in Days
- 1 Gbps+ Connectivity
- 2019 GA



Hybrid Deployment Scenario



Takeaways

Hybrid Gigabit Deployments provide:

- Flexibility
- Lower Cost of Deployment (Capex estimated at 70% less than fiber)
- Faster Time to Market (Days vs. Months)
- Scalability
- Automatic Rerouting (Auto Mesh)

Another Tool for the Toolbox

Thank You!