GIGAWIRE Technology

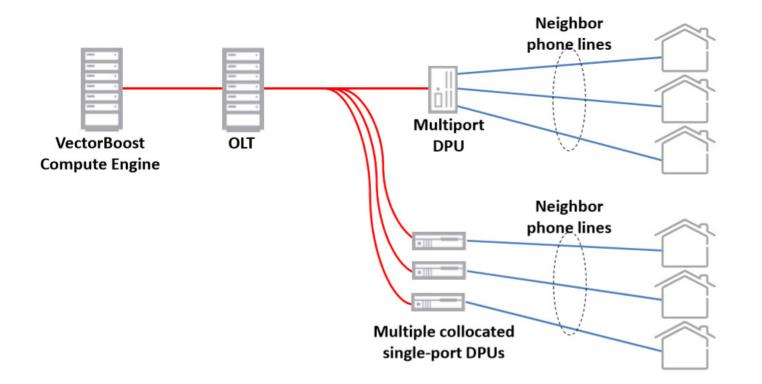
Using G.hn in Access Networks Topologies and Profiles



For any wire, anywhere in your home.[™]

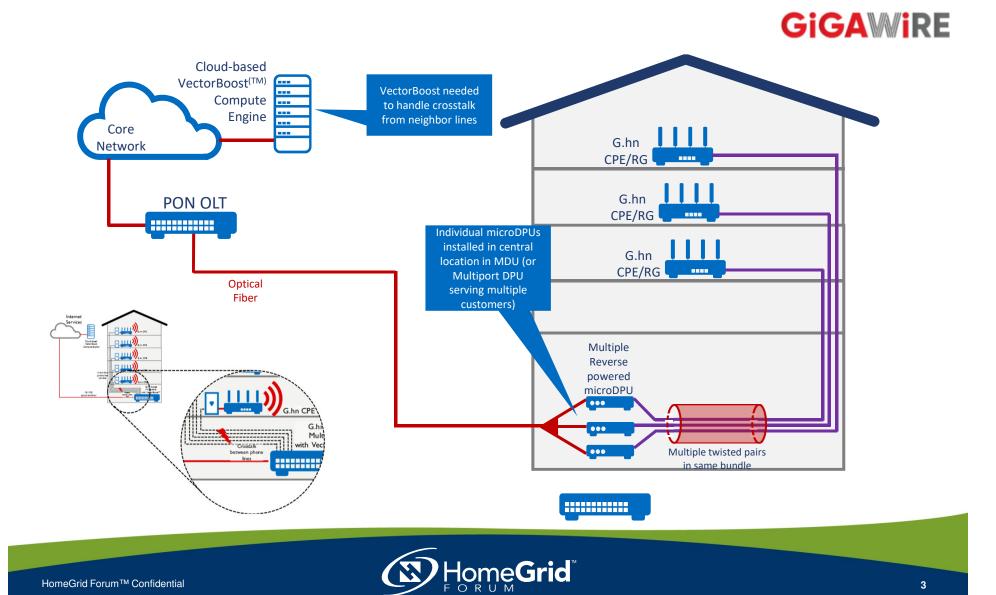
FTTDp Topology (with crosstalk)





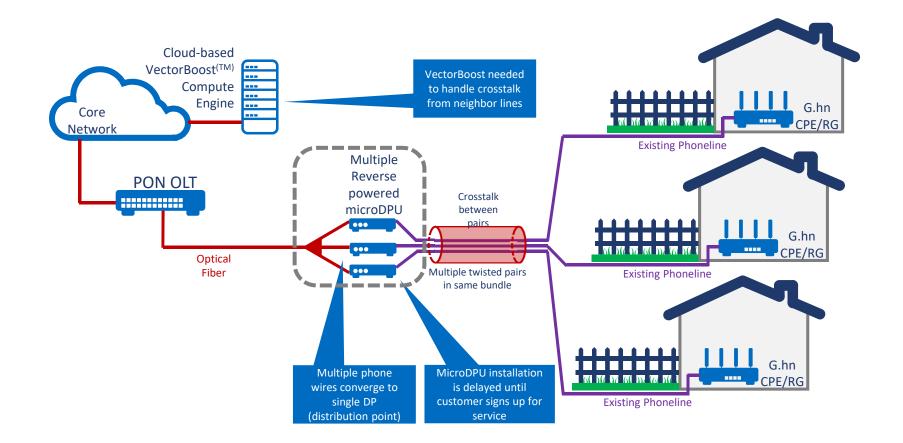


MDU Topology (with crosstalk)



SFU mP2P Topology (with crosstalk)

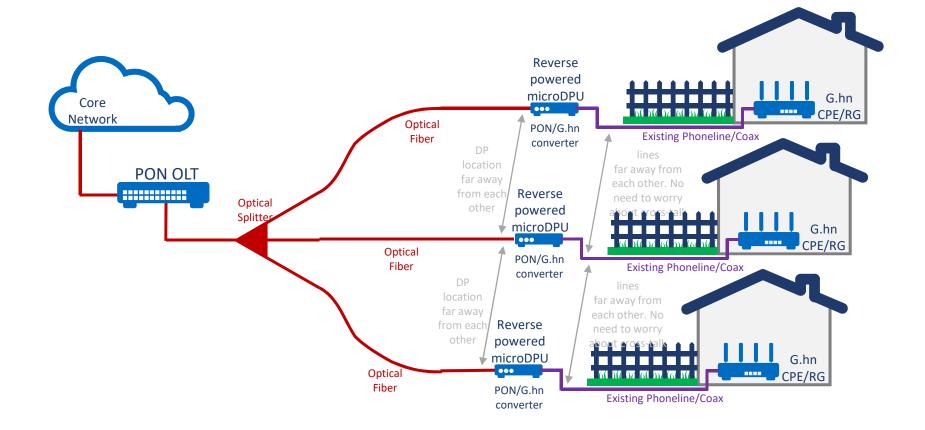
GiGAWiRE





SFU P2P Topology (no crosstalk)

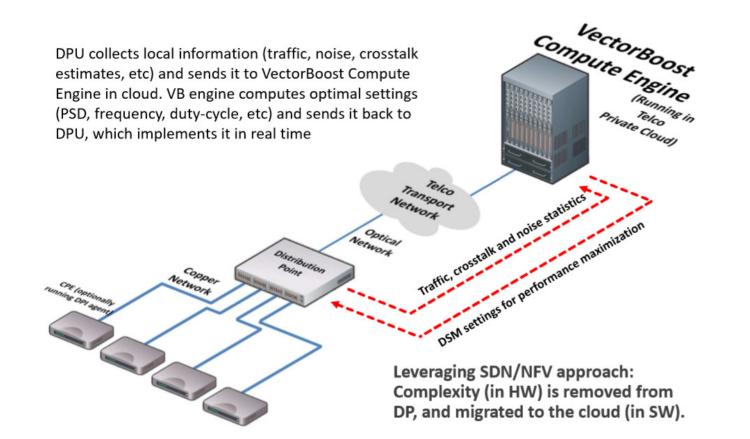






GiGAWire VectorBoost







GiGAWire Profiles

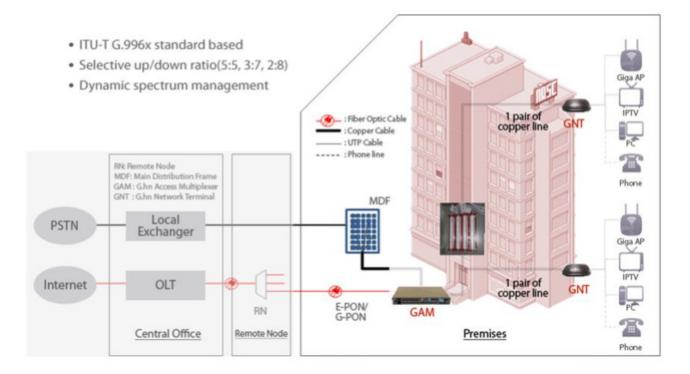
GigaWire

GiGAWire Standardization Profile	GIGAWire Profile #1 GiGAWire-VB			GIGAWire Profile #2 GiGAWire-XF		
	FTTDp	MDU	SFU	MDU	SFU	FE
APPLICATION	Fiber To The Distribution point	Multi-Dwelling Units with phone lines in same building bundle	Single-Family Unit houses in same bundle	Multi-Dwelling Units	Isolated Single-Family Unit houses	Fiber extender inside the home
NETWORK CABLE	Phoneline	Phoneline	Phoneline	Coax	Phoneline or Coax	Phoneline or Coax
CONNECTIVITY	multiple Point-to-Point	multiple Point-to-Point	multiple Point-to-Point	Point-to-Point or Point-to-MultiPoint	Point-to-Point	Point-to-Point
SISO/MIMO	SISO/MIMO	SISO/MIMO	SISO/MIMO	SISO	SISO/MIMO	SISO/MIMO
CROSSTALK	Crosstalk between lines	Crosstalk between lines	Crosstalk between lines	No Crosstalk	No Crosstalk	No Crosstalk
CROSSTALK MITIGATION	VectorBoost™	VectorBoost™	VectorBoost™	Crosstalk Free (XF)	Crosstalk Free (XF)	Crosstalk Free (XF)
CROSSTALK MITIGATION ALGORITHM	Cloud based or local	Cloud based or local	Cloud based or local	N/A	N/A	N/A
BANDWITH MANAGEMENT	CDTA feature (Coordinated Dynamic Time Allocation) with adaptive DS/US split	CDTA feature (Coordinated Dynamic Time Allocation) with adaptive DS/US split	CDTA feature (Coordinated Dynamic Time Allocation) with adaptive DS/US split	DBA feature (Dynamic Bandwidth Allocation)	DS/US split Per Frame Adaption	DS/US split Per Frame Adaption









https://www.youtube.com/watch?v=YCicl_WHFal&feature=youtu.be

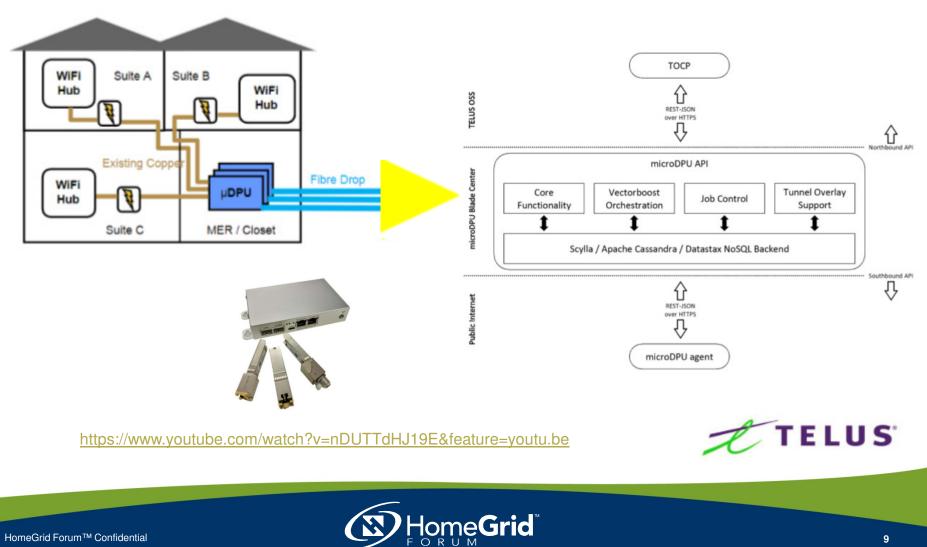


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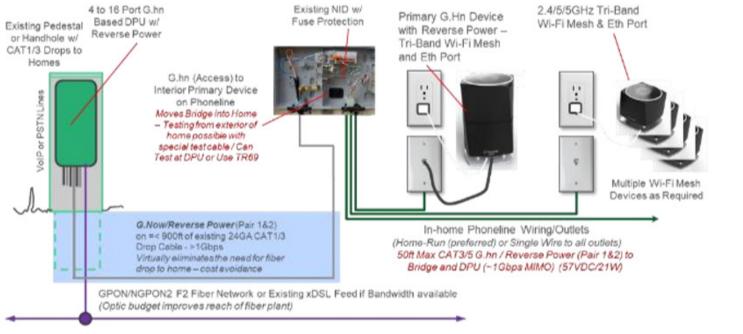


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Example G.hn SFU Wiring Model



https://www.youtube.com/watch?v=nDUTTdHJ19E&feature=youtu.be



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Resources





For more information: <u>https://homegridforum.org/giga-wire-access/</u>

https://homegridforum.org/wp-content/uploads/2020/07/Ghn-in-access-network v2-FINAL-June-2020.pdf



