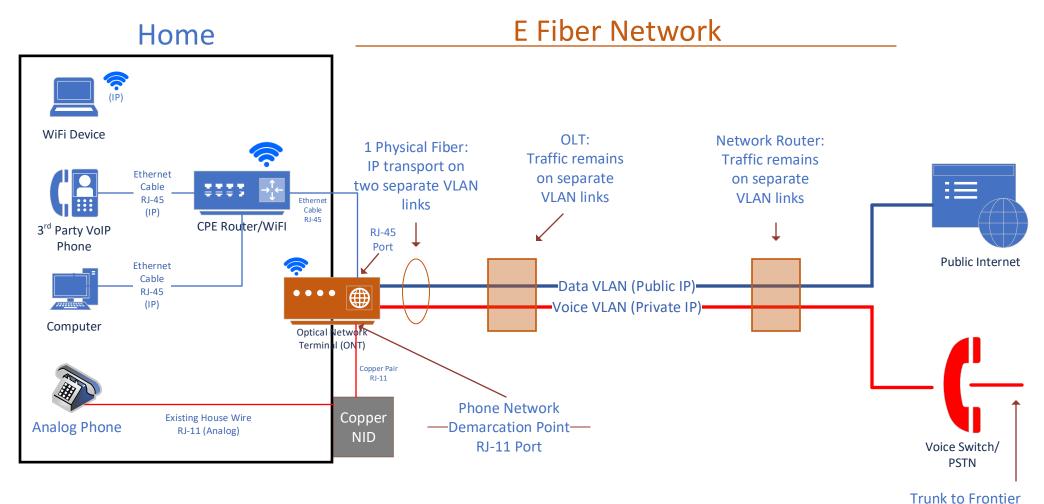# E Fiber Network Services Over Fiber
Delivered to Non E Fiber Customer (e.g., Frontier Customer)

Below is a configuration for E Fiber voice and broadband services at a residential location with the voice call delivered to a non E Fiber customer. In this diagram we use a Frontier customer for the example.

For voice only service, the Data VLAN, the RJ-45 port(s) and WiFi on the ONT are not activated. Only the RJ-11 port providing analog voice is activated on the ONT. The Voice VLAN transports voice traffic to the switch/PSTN.

Home

E Fiber Network

(IP)

WiFi Device

Ethernet Cable RJ-45 (IP)

3rd Party VoIP Phone

CPE Router/WiFI

Ethernet Cable RJ-45

Ethernet Cable RJ-45 (IP)

Computer

1 Physical Fiber: IP transport on two separate VLAN links

RJ-45 Port

OLT: Traffic remains on separate VLAN links

Network Router: Traffic remains on separate VLAN links

Public Internet

Optical Network Terminal (ONT)

Data VLAN (Public IP)

Voice VLAN (Private IP)

Copper Pair RJ-11

Analog Phone

Existing House Wire RJ-11 (Analog)

Copper NID

Phone Network Demarcation Point RJ-11 Port

Voice Switch/ PSTN

Trunk to Frontier (TDM)