



POPP Internet and Voice Products Comparison Chart

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	Active Products										Grandfathered Products							
	VoIP	Broadband Internet (BI)	Central Office Lines (COLs)	CenturyLink Fiber + Enterprise	CenturyLink Pure Business Internet (PBI)	Comcast Coax	Comcast Ethernet Dedicated Internet (EDI)	Dynamic ADSL	Ethernet over Copper (EoC)	Internet T-1	Metro Optical Ethernet (MOE)	Broadband Internet (BI) (grandfathered)	DSL	Dynamic ADSL (grandfathered)	Dynamic T-1 (grandfathered)	Ethernet over Copper (EoC) (grandfathered)	Metro Optical Ethernet (MOE) (grandfathered)	Voice / Internet T-1 (grandfathered)
Maximum Speed on Single Circuit	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Up to 20Mbps/1Mbps	Up to 5.7Mbps/5.7Mbps	1.5Mbps/1.5Mbps	60Mbps/60Mbps	N/A	Up to 7Mbps/896Kbps	Up to 20Mbps/1Mbps	1.5Mbps/1.5Mbps	Up to 5.7Mbps/5.7Mbps	60Mbps/60Mbps	1.5Mbps/1.5Mbps
Maximum Speed Possible	N/A	1Gbps/1Gbps	N/A	1Gbps/1Gbps	1Gbps/1Gbps	Up to 1Gbps/35Mbps	10Gbps/10Gbps	Up to 40Mbps/2Mbps	Up to 40Mbps/40Mbps	Up to 12Mbps/12Mbps	300Mbps/300Mbps	Up to 40Mbps/5Mbps	Up to 7Mbps/896Kbps	Up to 40Mbps/2Mbps	Up to 12Mbps/12Mbps	Up to 40Mbps/40Mbps	300Mbps/300Mbps	Up to 12Mbps/12Mbps
Symmetrical or Asymmetrical	N/A	Asymmetrical or Symmetrical	N/A	Symmetrical	Asymmetrical or Symmetrical	Asymmetrical	Symmetrical	Asymmetrical	Symmetrical	Symmetrical	Symmetrical	Asymmetrical	Asymmetrical	Asymmetrical	Symmetrical	Symmetrical	Symmetrical	Symmetrical
Can circuits be bonded?	N/A	Yes	No	N/A	Yes	N/A	N/A	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No	Yes
How many circuits can be bonded?	N/A	Up to 2	N/A	N/A	Up to 2	N/A	N/A	Up to 2	Up to 8	Up to 8	N/A	N/A	N/A	Up to 2	Up to 8	Up to 8	N/A	Up to 8
Is the bandwidth client qualifies for "up to" and distance sensitive?	N/A	Yes	N/A	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes	No	No
Is quality of service (QoS) provided on voice calls?	Yes ¹	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	N/A	N/A	No	N/A	Yes	N/A	Yes	Yes
Maximum Voice Conversations	48	N/A	1	N/A	N/A	N/A	N/A	2 - on COLs	N/A	N/A	N/A	N/A	1	8 Total: COLs - 2 VoIP Lines - 6	48	48	48	24
What CPE is installed?	See Network CPE Reference Table										See Network CPE Reference Table							
Can the CPE be connected to VoIP Analog Phone Lines?	Yes	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	N/A
Can CPE be connected to CAS T-1/PRI T-1?	Yes	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	N/A	N/A	No	Yes	Yes	Yes	Yes	Yes
Is SIP Trunking available?	Yes	N/A	N/A	N/A	N/A	N/A	N/A	No	N/A	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes
POPP must be the public Internet service provider (ISP)?	N/A	No, CenturyLink is ISP	N/A	No, CLink is ISP	No, CLink is ISP	No, Comcast is ISP	No, Comcast is ISP	Yes	Yes	Yes	Yes	No, CenturyLink is ISP	On-Net: Yes Resold: No	Yes	Yes	Yes	Yes	Yes

¹When POPP is the ISP, POPP's core routers and the VoIP Management Device provide QoS/Prioritization of voice packets over internet packets from the clients' sites to the POPP NOC. When POPP is not the ISP, the VoIP Management Device provides prioritization of packets as they enter/exit the VoIP Management Device, however call quality may be impacted by congestion in the ISP's network or elsewhere.

ISP TIERS (TIER I, TIER II, TIER III)

Tier I, Tier II, Tier III refers to whether or not an ISP pays for Internet connectivity, or whether the ISP has an equal exchange trade with another ISP. ISP Tiers does not refer to quality, speed or priority.

Tier I ISPs – get all of their Internet connectivity through equal trade/exchange.

Tier II ISPs – get some of their connectivity by peering with other ISPs and the rest of their connectivity they pay for.

Tier III ISPs – pay for all of their connectivity.

POPP is a Tier III ISP and receives connectivity from two Tier I ISPs. POPP provides just as good of quality as any other Tier I carrier.