

February 2023

THE CVT CONNECTION



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What is the Difference Between Bandwidth and Latency?



Most of us understand the basics of the internet - just enough to log onto Wi-Fi and maybe turn the router on and off when it starts to malfunction.

However, are you familiar with the terms 'bandwidth' and 'latency'? If you're not, that's okay - you're not alone! Both terms are related to your internet's ability to send and receive data, but despite their similarities, they refer to two very different concepts. So what's the difference between them, and why should they matter to you?

Bandwidth

Bandwidth is a word that is thrown around a lot when discussing internet function. Many people assume it just means 'internet speed,' but that's not exactly true. Bandwidth is essentially how much data can move from network point A to point B in a given amount of time.

Think of your bandwidth as a high-speed motorway with, say, three lanes. When an average number of cars are on the highway, everything is going smoothly, and the cars are moving at a good clip. But when it's rush hour—that is, you're trying to download something with more data than your bandwidth can handle—the highway gets congested. The traffic bottlenecks then slows to a crawl.

Latency

On the other hand, latency refers to the amount of time it takes for the signal to get from point A to point B and then travel back again. The lower the latency, the better your internet will be because it

means there's less time between when you take your action and when you see the result.

For instance, think about when you do a Google search. You enter your query into the taskbar, click 'enter,' and then you wait. If you have low latency, the search engine will return your answer within milliseconds. But if you have higher latency, you might end up waiting a few seconds - or even longer - while the internet retrieves your data. The 'ping' you sent is traveling, and you have to wait until it reaches the server, collects what you need, and makes its way back to you.

How Bandwidth and Latency Affect You

Both bandwidth and latency can affect the speed of your internet but in different ways. If you're a gamer, you're likely already familiar with 'lag,' which is when you perform an action, but it takes a few moments for that entry to manifest in the game. This is a latency issue, as most of the assets you need to game are already loaded onto your computer, and therefore very little bandwidth is needed. Conversely, if you're trying to stream a show online, but it keeps buffering or appears infuriatingly grainy and broken, that's likely an example of low bandwidth. All that content has to squeeze its way down the digital superhighway.

Unfortunately, both bandwidth and latency issues can be a result of subpar high-speed internet. If you want the best internet experience available, you'll want to invest in a good fiber connection from Copper Valley Telecom today!

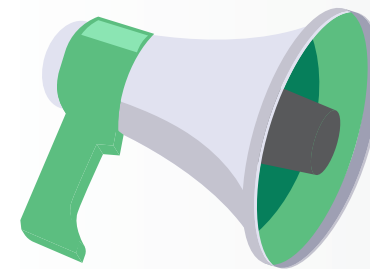
Youth Tour Scholarship



Copper Valley Telecom is thrilled to offer an experience to last a lifetime!

The Foundation for Rural Service Youth Tour brings students from rural areas across the country together in Washington, D.C. Students will develop leadership skills, gain insight into the challenges of providing quality broadband to rural communities, visit historic sites, create friendships, and meet the Federal Communications Commission and congressional staff.

Copper Valley Telecom is looking to sponsor up to 2 individuals and 2 chaperones. This opportunity is open to youth aged 15-17 whose parents/guardians are CVT members. Students will complete an application and submit a 2-5-minute video about themselves. The application and video must be submitted online at cvtc.org/scholarships by 6 pm Friday, March 3rd, 2023.



Call for Committee VOLUNTEERS!

Volunteers are needed to serve on the 2023 Annual Meeting Credentials and Election Committee.

Per CVT bylaws, "The Committee shall consist of an uneven number of Cooperative members not less than five (5) nor more than seven (7) who are not existing Cooperative employees, agents, officers, Directors or known candidates for Director, and who are not close relatives as defined in Section 4.3[a] of the bylaws."

The Credentials and Election Committee is responsible for validating signatures on returned ballots and for tallying ballots received for Annual Meeting purposes (Director election and, if applicable, bylaw amendments). Ballots will be received, validated, and counted in the Valdez office. Volunteers, who travel outside of

their district, will be reimbursed for eligible mileage expenses.

Additionally, the **2023 Scholarship Committee** is looking for four volunteers from Valdez and Glennallen. This committee is responsible for assessing scholarship applications and assigning the distribution of available funds.

Committee volunteers must be CVTC members in good standing without any conflict of interest. If you are interested in volunteering for either committee, please visit cvtc.org/volunteer to sign up today!

Applications must be submitted by March 15th.

Smart RG End-of-Life Support

Do you have a Smart RG gateway? Did you know that they are at end-of-life support? Find out what this means for you, today!

Call us at 800.235.5414 or visit cvtc.org/SmartRG

UPCOMING EVENTS

ICEWORM FESTIVAL: January 28th through Feb 4th. Watch for special promotions in Cordova. Join us Feb 2nd from 5:30-7:30pm for a Super Potato Bar and Feb 4th from 10am-4pm for our Super Hot Cocoa Bar!

FROSTY FEVER: February 17 through 26th. Keep an eye out for exclusive promotions in Valdez.

The CVT Connection

Enter to Win a \$50 Account Credit

February 2023

WORD SEARCH

Copper Valley Telecom

Glennallen

Smart RG

Aurora

Volunteer

Wireless

Valdez

Scholarship

Broadband

Cordova

WiFi

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Find all the hidden words, tear off, then mail or drop off at the Glennallen or Valdez business office. Return by the 10th of the month to ensure your entry is included in the monthly drawing. Congratulations to the last issue's winners, **Marsha Lesemann** (Glennallen) and **Billie Comer** (Valdez). **REMEMBER TO FILL IN YOUR NAME!**

Name: _____ Phone: _____

