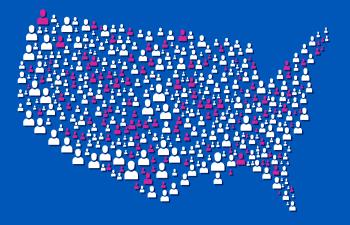


ISPs Capture the Rural Broadband Opportunity

Regional providers share their strategies, plans, and priorities.

Smaller ISPs are playing a big role in closing the digital divide.



42 million U.S. Customers

currently lack broadband internet service

Government-led initiatives are **pumping billions of dollars** into rural broadband programs.

Winners in the FCC's Dec. 2020 RDOF Phase I auction include 180 cable operators, electric cooperatives, incumbent telephone companies, satellite companies and fixed wireless providers.

They're capitalizing on the current regional broadband boom.

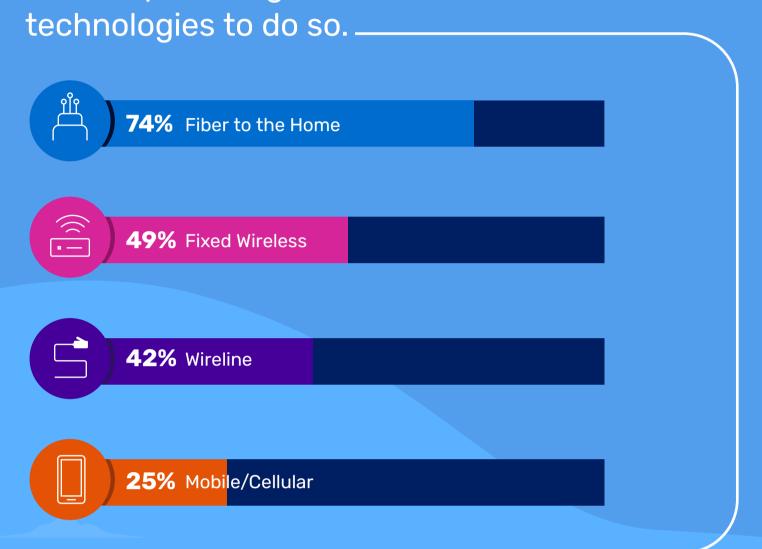


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U.S. broadband subscribers reached

135.5 Million at the end of the first quarter of 2021





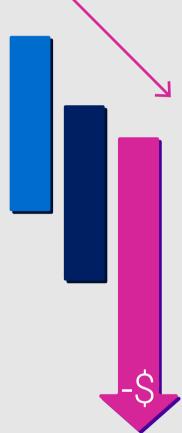
But IPv4 exhaustion is looming.

Free IPv4 addresses have been fully allocated by the RIR

Only 21% of regional ISPs have enough IPv4 addresses for the foreseeable future

53% expect to run out of available IPv4 addresses within three years

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The IPv4 crunch is already threatening profitability.

21% Of regional ISPs are leasing public IPv4 addresses from another service provider.

\$32 Current market prices: \$32 per address on average.

And in some cases, as much as \$60 per address, a 40% increase in just two years.

IPv6 offers a solution-eventually.



Easily Available IPv6 addresses can vastly expand capacity

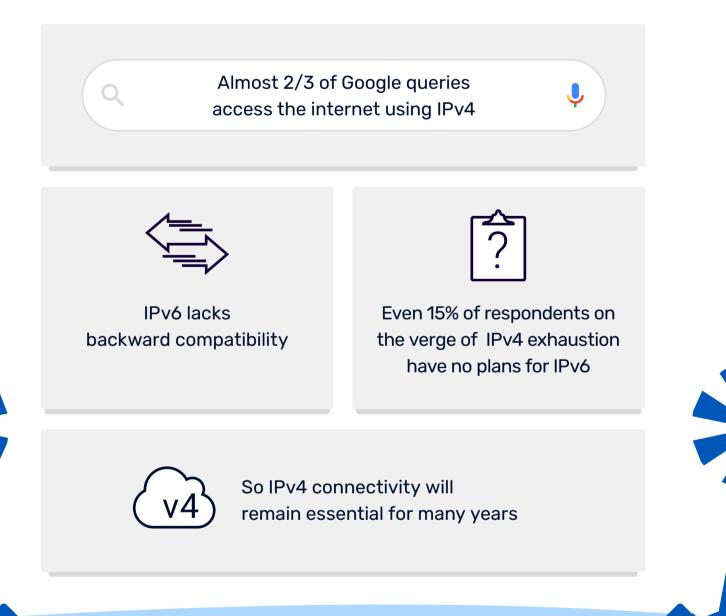


Most regional ISPs will transition their network in <5 years



Though over 25% have yet to move forward on the issue at all

And IPv4 isn't going anywhere for a while.



The **CGNAT** Solution.



Share existing IPv4 addresses to 64+ subscribers

Reduce IPv4

acquisition costs

up to 80%



Support 10,000 new subscribers with only 150 IPv4 addresses



Enable translations between IPv4 address and IPv6 addresses

Get the full picture on the rural broadband build-out.

Learn more about closing the digital divide in the A10 Networks survey report, *"Insights 2022: Rural Broadband Expansion."*

Download the Report



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