



Latin America - 2021 Forecast Highlights

IP Traffic

- In Latin America, IP traffic will grow 3-fold from 2016 to 2021, a compound annual growth rate of 21%.
- In Latin America, IP traffic will reach 15.5 Exabytes per month in 2021, up from 6.0 Exabytes per month in 2016.
- Latin America's IP networks will carry 508 Petabytes per day in 2021, up from 197 Petabytes per day in 2016.
- In Latin America, IP traffic will reach an annual run rate of 185.6 Exabytes in 2021, up from an annual run rate of 72.0 Exabytes in 2016.
- In Latin America, IP traffic will reach 23 Gigabytes per capita in 2021, up from 9 Gigabytes per capita in 2016.
- In Latin America, average IP traffic will reach 47 Tbps in 2021, and busy hour traffic will reach 261 Tbps.
- In 2021, the gigabyte equivalent of all movies ever made will cross Latin America's IP networks every 23 minutes.

Internet Traffic

- In Latin America, Internet traffic will grow 2.6-fold from 2016 to 2021, a compound annual growth rate of 21%.
- In Latin America, busy hour Internet traffic will grow 4.0-fold from 2016 to 2021, a compound annual growth rate of 32%.
- In Latin America, Internet traffic will reach 13.6 Exabytes per month in 2021, up from 5.3 Exabytes per month in 2016.
- Latin America's Internet traffic will be 446 Petabytes per day in 2021, up from 170 Petabytes per day in 2016.

- Latin America's Internet traffic in 2021 will be equivalent to 41 billion DVDs per year, 3 billion DVDs per month, or 5 million DVDs per hour.
- In 2021, the gigabyte equivalent of all movies ever made will cross the Internet every 26 minutes.
- Latin American Internet traffic in 2021 will be equivalent to 405x the volume of the entire Latin American Internet in 2005.
- In Latin America, Internet traffic will reach 20 Gigabytes per capita in 2021, up from 8 Gigabytes per capita in 2016.
- In Latin America, average Internet traffic will increase 2.6-fold by 2021 and will reach 41 Tbps.
- In Latin America, busy hour Internet traffic will increase 4.0-fold by 2021 and will reach 229 Tbps.

Wired Wi-Fi and Mobile Growth

- Latin America's Fixed/Wi-Fi was 58% of total IP traffic in 2016, and will be 52% of total IP traffic in 2021.
- Latin America's Fixed/Wired was 34% of total IP traffic in 2016, and will be 28% of total IP traffic in 2021.
- Latin America's Mobile was 8% of total IP traffic in 2016, and will be 20% of total IP traffic in 2021.
- Latin America's Fixed/Wi-Fi was 64.1% of total Internet traffic in 2016, and will be 58.4% of total Internet traffic in 2021.
- Latin America's Fixed/Wired was 27% of total Internet traffic in 2016, and will be 18% of total Internet traffic in 2021.
- Latin America's Mobile was 8.7% of total Internet traffic in 2016, and will be 23.1% of total Internet traffic in 2021.
- In Latin America, mobile data traffic will grow 7-fold from 2016 to 2021, a compound annual growth rate of 47%.
- In Latin America, mobile data traffic will reach 3.1 Exabytes per month in 2021, up from 459 Petabytes per month in 2016.
- Latin American mobile data traffic will grow 3 times faster than Latin American fixed IP traffic from 2016 to 2021.
- Latin America's Mobile was 8% of total IP traffic in 2016, and will be 20% of total IP traffic in 2021.
- In Latin America, mobile data traffic in 2021 will be equivalent to 82x the volume of the entire Latin American Internet in 2005.

IP Video

- In Latin America, IP video traffic will grow 3-fold from 2016 to 2021, a compound annual growth rate of 26%.
- In Latin America, IP video traffic will reach 12.9 Exabytes per month in 2021, up from 4.0 Exabytes per month in 2016.
- In Latin America, IP video will be 83% of all IP traffic in 2021, up from 67% in 2016.
- In Latin America, Ultra HD will be 7.2% of IP Video traffic in 2021, up from 0.2% in 2016 (149.5% CAGR).
- In Latin America, HD will be 52.1% of IP Video traffic in 2021, up from 24.0% in 2016 (47.4% CAGR).
- In Latin America, SD will be 40.7% of IP Video traffic in 2021, compared to 75.8% in 2016 (11.4% CAGR).
- In Latin America, consumer IP video traffic will be 86% of consumer IP traffic in 2021, up from 72% in 2016.

- In Latin America, business IP video traffic will be 69% of business IP traffic in 2021, up from 48% in 2016.

Internet Video

- In Latin America, Internet video traffic will grow 3-fold from 2016 to 2021, a compound annual growth rate of 27%.
- In Latin America, Internet video traffic will reach 11.1 Exabytes per month in 2021, up from 3.4 Exabytes per month in 2016.
- In Latin America, total Internet video traffic (business and consumer, combined) will be 82% of all Internet traffic in 2021, up from 65% in 2016.
- In Latin America, Ultra HD will be 6.9% of Internet video traffic in 2021, up from 0.3% in 2016 (141.7% CAGR).
- In Latin America, HD will be 49.0% of Internet video traffic in 2021, up from 19.0% in 2016 (52.9% CAGR).
- In Latin America, SD will be 44.1% of Internet video traffic in 2021, compared to 80.8% in 2016 (12.1% CAGR).
- In Latin America, consumer Internet video traffic will be 84% of consumer Internet traffic in 2021, up from 68% in 2016.
- In Latin America, business Internet video traffic will be 70% of business Internet traffic in 2021, up from 50% in 2016.
- In Latin America, Internet-Video-to-TV traffic will be 22% of fixed consumer Internet video traffic in 2021, up from 12% in 2016.
- In Latin America, Internet-Video-to-TV traffic will increase 5-fold between 2016 and 2021 (38.7% CAGR).
- In Latin America, 323 billion minutes (614,378 years) of video content will cross the Internet each month in 2021. That's 122,876 minutes of video streamed or downloaded every second.
- In Latin America, 54% of all Internet video traffic will cross content delivery networks in 2021, up from 32% in 2016.
- In Latin America, 67.1% of all Internet video traffic will be long-form video (including live) in 2021, up from 50.8% in 2016.
- In Latin America, 12.0% of all Internet video traffic will be Live video in 2021, up from 2.6% in 2016.
- In Latin America, Live Internet video traffic will increase 15-fold between 2016 and 2021 (72.0% CAGR).

IP VOD

- In Latin America, Ultra HD will be 10.3% of IP VOD traffic in 2021, up from 0.1% in 2016 (233.0% CAGR).
- In Latin America, HD will be 77.8% of IP VOD traffic in 2021, up from 59.6% in 2016 (32.2% CAGR).
- In Latin America, SD will be 11.9% of IP VOD traffic in 2021, compared to 40.3% in 2016 (-1.8% CAGR).

Gaming

- In Latin America, gaming traffic will grow 4-fold from 2016 to 2021, a compound annual growth rate of 31%.
- In Latin America, gaming traffic will reach 349 Petabytes per month in 2021, up from 92 Petabytes per month in 2016.
- In Latin America, gaming traffic will be 3% of consumer Internet traffic in 2021, up from 2% in 2016.

Devices

- In Latin America, there will be 2.0 billion networked devices in 2021, up from 1.3 billion in 2016.
- In Latin America, there will be 2.9 networked devices per capita in 2021, up from 2.1 per capita in 2016.
- In Latin America, 49% of all networked devices will be mobile-connected in 2021.
- In Latin America, M2M modules will account for 40% (794.6 million) of all networked devices in 2021, compared to 25% (338.8 million) in 2016, (18.6% CAGR).
- In Latin America, PCs will account for 6% (115.8 million) of all networked devices in 2021, compared to 13% (170.0 million) in 2016, (-7.4% CAGR).
- In Latin America, Tablets will account for 3% (50.8 million) of all networked devices in 2021, compared to 2% (33.0 million) in 2016, (9% CAGR).
- In Latin America, Smartphones will account for 29% (577.5 million) of all networked devices in 2021, compared to 25% (335.0 million) in 2016, (11.5% CAGR).
- In Latin America, Connected TVs will account for 13% (264.2 million) of all networked devices in 2021, compared to 9% (123.7 million) in 2016, (16.4% CAGR).
- In Latin America, Non-Smartphones will account for 7.1% (140.4 million) of all networked devices in 2021, compared to 25% (329.0 million) in 2016, (-15.7% CAGR).
- In Latin America, Other Portables will account for 1% (26.9 million) of all networked devices in 2021, compared to 1% (11.4 million) in 2016, (18.7% CAGR).
- In Latin America, 4K TVs will account for 32% (40.8 million) of all flat panel TVs in 2021, compared to 6.6% (2.9 million) in 2016, (69.6% CAGR).
- Latin America's IP traffic from non-PC devices was 33% of total IP traffic in 2016, and will be 73% of total IP traffic in 2021.
- In Latin America, PCs accounted for 67% of IP traffic in 2016, and will be 27% of IP traffic in 2021.
- In Latin America, TVs accounted for 14% of IP traffic in 2016, and will be 21% of IP traffic in 2021.
- In Latin America, Smartphones accounted for 14% of IP traffic in 2016, and will be 41% of IP traffic in 2021.
- In Latin America, Tablets accounted for 5% of IP traffic in 2016, and will be 7% of IP traffic in 2021.
- In Latin America, M2M modules accounted for 1.2% of IP traffic in 2016, and will be 3.9% of IP traffic in 2021.
- In Latin America, PCs accounted for 70% of consumer Internet traffic in 2016, and will be 25% of consumer Internet traffic in 2021.
- In Latin America, TVs accounted for 6% of consumer Internet traffic in 2016, and will be 14% of consumer Internet traffic in 2021.
- In Latin America, TVs accounted for 5% of total Internet traffic in 2016, and will be 12% of total Internet traffic in 2021.

Speed Evolution

- In Latin America, the average fixed broadband speed will grow 2.2-fold from 2016 to 2021, from 9.3 Mbps to 20.5 Mbps.
- In Latin America, 72% of fixed broadband connections will be faster than 5 Mbps in 2021, up from 53% today.
- In Latin America, 46% of fixed broadband connections will be faster than 10 Mbps in 2021, up from 31% today.
- In Latin America, 18.8% of fixed broadband connections will be faster than 25 Mbps in 2021, up from 10.9% today.

- In Latin America, 9.0% of fixed broadband connections will be faster than 50 Mbps in 2021, up from 5.2% today.
- In Latin America, the average Wi-Fi speeds from mobile devices will grow 1.8-fold from 2016 to 2021, from 7.7 Mbps to 14 Mbps.
- In Latin America, the average mobile connection speed will grow 3-fold from 2016 to 2021, reaching 12 Mbps in 2021.

Traffic per User and Household

- In Latin America, the average Internet user will generate 35.2 Gigabytes of Internet traffic per month in 2021, up 75% from 20.1 Gigabytes per month in 2016, a CAGR of 12%.
- In Latin America, the average Internet household will generate 105.7 Gigabytes of Internet traffic per month in 2021, up 76% from 60.1 Gigabytes per month in 2016, a CAGR of 12%.
- In Latin America, the average FTTx Internet household will generate 246.8 Gigabytes of Internet traffic per month in 2021, 124.6% more than other broadband households.
- In Latin America, the average FTTx Internet household generated 146.3 Gigabytes of Internet traffic per month in 2016, 146.9% more than other broadband households.
- In Latin America, there will be 13 million Internet households (16.6% of all Internet households) generating more than 250 Gigabytes per month in 2021.
- In Latin America, there will be 3 million households (4.3% of all Internet households) generating more than 500 Gigabytes per month in 2021.
- In Latin America, there will be 760,773 households (1.0% of all Internet households) generating more than a terabyte per month in 2021.
- In Latin America, the average mobile connection will generate 3,671 Megabytes of mobile data traffic per month in 2021, up from 622 Megabytes in 2016.

Traffic Topology and Traffic Patterns

- In Latin America, 19% of Internet traffic will be carried metro-to-metro in 2021, up from 7% in 2016.
- In Latin America, 12% of Internet traffic will be carried on regional backbones (without touching cross-country backbones) in 2021, compared to 6% in 2016.
- In Latin America, 69% of Internet traffic will traverse cross-country backbones in 2021, compared to 87% in 2016.
- In Latin America, 48% of all Internet traffic will cross content delivery networks in 2021, up from 24% in 2016.
- In Latin America, peak Internet traffic will grow at a compound annual growth rate of 32% from 2016 to 2021, compared to 21% for average Internet traffic.