



Australia - 2020 Forecast Highlights

IP Traffic

- In Australia, IP traffic will grow 3-fold from 2015 to 2020, a compound annual growth rate of 21%.
- In Australia, IP traffic will reach 1.9 Exabytes per month in 2020, up from 711 Petabytes per month in 2015.
- Australia's IP networks will carry 62 Petabytes per day in 2020, up from 23 Petabytes per day in 2015.
- In Australia, IP traffic will reach an annual run rate of 22.5 Exabytes in 2020, up from an annual run rate of 8.5 Exabytes in 2015.
- In Australia, IP traffic will reach 73 Gigabytes per capita in 2020, up from 30 Gigabytes per capita in 2015.
- In Australia, average IP traffic will reach 6 Tbps in 2020, and busy hour traffic will reach 32 Tbps.
- In 2020, the gigabyte equivalent of all movies ever made will cross Australia's IP networks every 3 hours.

Internet Traffic

- In Australia, Internet traffic will grow 2.7-fold from 2015 to 2020, a compound annual growth rate of 22%.
- In Australia, busy hour Internet traffic will grow 4.3-fold from 2015 to 2020, a compound annual growth rate of 34%.
- In Australia, Internet traffic will reach 1.7 Exabytes per month in 2020, up from 606 Petabytes per month in 2015.
- Australia's Internet traffic will be 55 Petabytes per day in 2020, up from 20 Petabytes per day in 2015.
- Australia's Internet traffic in 2020 will be equivalent to 5 billion DVDs per year, 415 million DVDs per month, or 569,007 DVDs per hour.

- In 2020, the gigabyte equivalent of all movies ever made will cross the Internet every 4 hours.
- Australian Internet traffic in 2020 will be equivalent to 210x the volume of the entire Australian Internet in 2005.
- In Australia, Internet traffic will reach 65 Gigabytes per capita in 2020, up from 25 Gigabytes per capita in 2015.
- In Australia, average Internet traffic will increase 2.7-fold by 2020 and will reach 5 Tbps.
- In Australia, busy hour Internet traffic will increase 4.3-fold by 2020 and will reach 28 Tbps.

Wired Wi-Fi and Mobile Growth

- Australia's Fixed/Wi-Fi was 58% of total IP traffic in 2015, and will be 58% of total IP traffic in 2020.
- Australia's Fixed/Wired was 37% of total IP traffic in 2015, and will be 31% of total IP traffic in 2020.
- Australia's Mobile was 5% of total IP traffic in 2015, and will be 11% of total IP traffic in 2020.
- Australia's Fixed/Wi-Fi was 61.6% of total Internet traffic in 2015, and will be 61.8% of total Internet traffic in 2020.
- Australia's Fixed/Wired was 32% of total Internet traffic in 2015, and will be 26% of total Internet traffic in 2020.
- Australia's Mobile was 6.3% of total Internet traffic in 2015, and will be 12.3% of total Internet traffic in 2020.

IP Video

- In Australia, IP video traffic will grow 3-fold from 2015 to 2020, a compound annual growth rate of 26%.
- In Australia, IP video traffic will reach 1.5 Exabytes per month in 2020, up from 488 Petabytes per month in 2015.
- In Australia, IP video will be 82% of all IP traffic in 2020, up from 69% in 2015.
- In Australia, Ultra HD will be 10.8% of IP Video traffic in 2020, up from 1.6% in 2015 (84.2% CAGR).
- In Australia, HD will be 60.8% of IP Video traffic in 2020, up from 37.1% in 2015 (38.9% CAGR).
- In Australia, SD will be 28.5% of IP Video traffic in 2020, compared to 61.3% in 2015 (8.0% CAGR).
- In Australia, consumer IP video traffic will be 86% of consumer IP traffic in 2020, up from 78% in 2015.
- In Australia, business IP video traffic will be 71% of business IP traffic in 2020, up from 49% in 2015.

Internet Video

- In Australia, Internet video traffic will grow 3-fold from 2015 to 2020, a compound annual growth rate of 27%.
- In Australia, Internet video traffic will reach 1.4 Exabytes per month in 2020, up from 418 Petabytes per month in 2015.
- In Australia, total Internet video traffic (business and consumer, combined) will be 82% of all Internet traffic in 2020, up from 69% in 2015.
- In Australia, Ultra HD will be 9.8% of Internet video traffic in 2020, up from 1.7% in 2015 (80.7% CAGR).
- In Australia, HD will be 64.7% of Internet video traffic in 2020, up from 38.6% in 2015 (40.4% CAGR).
- In Australia, SD will be 25.5% of Internet video traffic in 2020, compared to 59.7% in 2015 (6.8% CAGR).

- In Australia, consumer Internet video traffic will be 85% of consumer Internet traffic in 2020, up from 76% in 2015.
- In Australia, business Internet video traffic will be 71% of business Internet traffic in 2020, up from 51% in 2015.
- In Australia, Internet-Video-to-TV traffic will be 26% of fixed consumer Internet video traffic in 2020, up from 15% in 2015.
- In Australia, Internet-Video-to-TV traffic will increase 5-fold between 2015 and 2020 (39.3% CAGR).
- In Australia, 12 billion minutes (22,579 years) of video content will cross the Internet each month in 2020. That's 4,516 minutes of video streamed or downloaded every second.
- In Australia, 66% of all Internet video traffic will cross content delivery networks in 2020, up from 62% in 2015.
- In Australia, 58% of all Internet traffic will cross content delivery networks in 2020, up from 46% in 2015.

IP VOD

- In Australia, Ultra HD will be 28.2% of IP VOD traffic in 2020, up from 2.1% in 2015 (104.3% CAGR).
- In Australia, HD will be 49.3% of IP VOD traffic in 2020, up from 44.7% in 2015 (23.7% CAGR).
- In Australia, SD will be 22.5% of IP VOD traffic in 2020, compared to 53.2% in 2015 (2.1% CAGR).

Gaming

- In Australia, Internet gaming traffic will grow 9-fold from 2015 to 2020, a compound annual growth rate of 55%.
- In Australia, Internet gaming traffic will reach 1.4 Exabytes per month in 2020, up from 418 Petabytes per month in 2015.
- In Australia, Internet gaming traffic will be 7% of consumer Internet traffic in 2020, up from 2% in 2015.

Mobile

- In Australia, mobile data traffic will grow 5-fold from 2015 to 2020, a compound annual growth rate of 40%.
- In Australia, mobile data traffic will reach 204 Petabytes per month in 2020, up from 38 Petabytes per month in 2015.
- Australian mobile data traffic will grow 2 times faster than Australian fixed IP traffic from 2015 to 2020.
- Australia's Mobile was 5% of total IP traffic in 2015, and will be 11% of total IP traffic in 2020.
- In Australia, mobile data traffic in 2020 will be equivalent to 23x the volume of the entire Australian Internet in 2005.

Devices

- In Australia, there will be 237.0 million networked devices in 2020, up from 130.4 million in 2015.
- In Australia, there will be 9.3 networked devices per capita in 2020, up from 5.4 per capita in 2015.
- In Australia, 34% of all networked devices will be mobile-connected in 2020.
- In Australia, M2M modules will account for 59% (139.7 million) of all networked devices in 2020, compared to 41% (53.0 million) in 2015, (21.4% CAGR).
- In Australia, PCs will account for 8% (19.3 million) of all networked devices in 2020, compared to 15% (20.1 million) in 2015, (-0.7% CAGR).

- In Australia, Tablets will account for 3% (7.8 million) of all networked devices in 2020, compared to 5% (7.0 million) in 2015, (2% CAGR).
- In Australia, Smartphones will account for 11% (26.9 million) of all networked devices in 2020, compared to 18% (22.8 million) in 2015, (3.3% CAGR).
- In Australia, Connected TVs will account for 14% (32.7 million) of all networked devices in 2020, compared to 13% (17.1 million) in 2015, (13.8% CAGR).
- In Australia, Non-Smartphones will account for 0.0% (15647) of all networked devices in 2020, compared to 2% (2.2 million) in 2015, (-62.7% CAGR).
- In Australia, Other Portables will account for 4% (10.6 million) of all networked devices in 2020, compared to 6% (8.1 million) in 2015, (5.4% CAGR).
- In Australia, 4K TVs will account for 41% (7.0 million) of all flat panel TVs in 2020, compared to 5.2% (323,831) in 2015, (85.1% CAGR).
- Australia's IP traffic from non-PC devices was 28% of total IP traffic in 2015, and will be 50% of total IP traffic in 2020.
- In Australia, PCs accounted for 72% of IP traffic in 2015, and will be 50% of IP traffic in 2020.
- In Australia, TVs accounted for 12% of IP traffic in 2015, and will be 18% of IP traffic in 2020.
- In Australia, Smartphones accounted for 6% of IP traffic in 2015, and will be 17% of IP traffic in 2020.
- In Australia, Tablets accounted for 8% of IP traffic in 2015, and will be 10% of IP traffic in 2020.
- In Australia, M2M modules accounted for 2.0% of IP traffic in 2015, and will be 4.8% of IP traffic in 2020.
- In Australia, PCs accounted for 70% of consumer Internet traffic in 2015, and will be 46% of consumer Internet traffic in 2020.
- In Australia, TVs accounted for 10% of consumer Internet traffic in 2015, and will be 17% of consumer Internet traffic in 2020.
- In Australia, TVs accounted for 7% of total Internet traffic in 2015, and will be 13% of total Internet traffic in 2020.

Speed Evolution

- In Australia, the average fixed broadband speed will grow 2.4-fold from 2015 to 2020, from 18.4 Mbps to 44.3 Mbps.
- In Australia, 81% of fixed broadband connections will be faster than 5 Mbps in 2020, up from 64% today.
- In Australia, 53% of fixed broadband connections will be faster than 10 Mbps in 2020, up from 41% today.
- In Australia, 17.7% of fixed broadband connections will be faster than 25 Mbps in 2020, up from 11.9% today.
- In Australia, 16.0% of fixed broadband connections will be faster than 50 Mbps in 2020, up from 8.6% today.
- In Australia, the average Wi-Fi speeds from mobile devices will grow 2.6-fold from 2015 to 2020, from 9.1 Mbps to 23 Mbps.
- In Australia, the average mobile connection speed will grow 2-fold from 2015 to 2020, reaching 16 Mbps in 2020.

Traffic per User and Household

- In Australia, the average Internet user will generate 60.0 gigabytes of Internet traffic per month in 2020, up 139% from 25.1 gigabytes per month in 2015, a CAGR of 19%.

- In Australia, the average Internet household will generate 149.3 gigabytes of Internet traffic per month in 2020, up 146% from 60.8 gigabytes per month in 2015, a CAGR of 20%.
- In Australia, the average FTTx Internet household will generate 240.7 gigabytes of Internet traffic per month in 2020, 111.5% more than other broadband households.
- In Australia, the average FTTx Internet household generated 143.1 gigabytes of Internet traffic per month in 2015, 155.6% more than other broadband households.
- In Australia, there will be 2 million Internet households (22.0% of all Internet households) generating more than 250 gigabytes per month in 2020.
- In Australia, there will be 513,806 households (7.0% of all Internet households) generating more than 500 gigabytes per month in 2020.
- In Australia, there will be 146,802 households (2.0% of all Internet households) generating more than a terabyte per month in 2020.
- In Australia, the average mobile connection will generate 4,777 megabytes of mobile data traffic per month in 2020, up from 1,199 megabytes in 2015.