



Sweden - 2021 Forecast Highlights

IP Traffic

- In Sweden, IP traffic will grow 2-fold from 2016 to 2021, a compound annual growth rate of 14%.
- In Sweden, IP traffic will reach 1.2 Exabytes per month in 2021, up from 602 Petabytes per month in 2016.
- Sweden's IP networks will carry 38 Petabytes per day in 2021, up from 20 Petabytes per day in 2016.
- In Sweden, IP traffic will reach an annual run rate of 13.9 Exabytes in 2021, up from an annual run rate of 7.2 Exabytes in 2016.
- In Sweden, IP traffic will reach 114 Gigabytes per capita in 2021, up from 61 Gigabytes per capita in 2016.
- In Sweden, average IP traffic will reach 4 Tbps in 2021, and busy hour traffic will reach 22 Tbps.
- In 2021, the gigabyte equivalent of all movies ever made will cross Sweden's IP networks every 5 hours.

Internet Traffic

- In Sweden, Internet traffic will grow 2.0-fold from 2016 to 2021, a compound annual growth rate of 15%.
- In Sweden, busy hour Internet traffic will grow 3.0-fold from 2016 to 2021, a compound annual growth rate of 24%.
- In Sweden, Internet traffic will reach 1.0 Exabytes per month in 2021, up from 522 Petabytes per month in 2016.
- Sweden's Internet traffic will be 34 Petabytes per day in 2021, up from 20 Petabytes per day in 2016.
- Sweden's Internet traffic in 2021 will be equivalent to 3 billion DVDs per year, 261 million DVDs per month, or 357,806 DVDs per hour.
- In 2021, the gigabyte equivalent of all movies ever made will cross the Internet every 6 hours.

- Swedish Internet traffic in 2021 will be equivalent to (n/a)x the volume of the entire Swedish Internet in 2005.
- In Sweden, Internet traffic will reach 103 Gigabytes per capita in 2021, up from 53 Gigabytes per capita in 2016.
- In Sweden, average Internet traffic will increase 2.0-fold by 2021 and will reach 3 Tbps.
- In Sweden, busy hour Internet traffic will increase 3.0-fold by 2021 and will reach 19 Tbps.

Wired Wi-Fi and Mobile Growth

- Sweden's Fixed/Wi-Fi was 57% of total IP traffic in 2016, and will be 59% of total IP traffic in 2021.
- Sweden's Fixed/Wired was 34% of total IP traffic in 2016, and will be 30% of total IP traffic in 2021.
- Sweden's Mobile was 9% of total IP traffic in 2016, and will be 11% of total IP traffic in 2021.
- Sweden's Fixed/Wi-Fi was 64.0% of total Internet traffic in 2016, and will be 64.4% of total Internet traffic in 2021.
- Sweden's Fixed/Wired was 26% of total Internet traffic in 2016, and will be 23% of total Internet traffic in 2021.
- Sweden's Mobile was 10.2% of total Internet traffic in 2016, and will be 12.5% of total Internet traffic in 2021.
- In Sweden, mobile data traffic will grow 2-fold from 2016 to 2021, a compound annual growth rate of 20%.
- In Sweden, mobile data traffic will reach 130 Petabytes per month in 2021, up from 53 Petabytes per month in 2016.
- Swedish mobile data traffic will grow 1 times faster than Swedish fixed IP traffic from 2016 to 2021.
- Sweden's Mobile was 9% of total IP traffic in 2016, and will be 11% of total IP traffic in 2021.
- In Sweden, mobile data traffic in 2021 will be equivalent to (n/a)x the volume of the entire Swedish Internet in 2005.

IP Video

- In Sweden, IP video traffic will grow 2-fold from 2016 to 2021, a compound annual growth rate of 19%.
- In Sweden, IP video traffic will reach 910 Petabytes per month in 2021, up from 378 Petabytes per month in 2016.
- In Sweden, IP video will be 78% of all IP traffic in 2021, up from 63% in 2016.
- In Sweden, Ultra HD will be 21.9% of IP Video traffic in 2021, up from 1.7% in 2016 (99.9% CAGR).
- In Sweden, HD will be 61.9% of IP Video traffic in 2021, up from 49.1% in 2016 (24.9% CAGR).
- In Sweden, SD will be 16.2% of IP Video traffic in 2021, compared to 49.3% in 2016 (-4.5% CAGR).
- In Sweden, consumer IP video traffic will be 81% of consumer IP traffic in 2021, up from 68% in 2016.
- In Sweden, business IP video traffic will be 69% of business IP traffic in 2021, up from 44% in 2016.

Internet Video

- In Sweden, Internet video traffic will grow 3-fold from 2016 to 2021, a compound annual growth rate of 21%.
- In Sweden, Internet video traffic will reach 804 Petabytes per month in 2021, up from 312 Petabytes per month in 2016.

- In Sweden, total Internet video traffic (business and consumer, combined) will be 77% of all Internet traffic in 2021, up from 60% in 2016.
- In Sweden, Ultra HD will be 21.9% of Internet video traffic in 2021, up from 1.9% in 2016 (96.7% CAGR).
- In Sweden, HD will be 61.9% of Internet video traffic in 2021, up from 44.6% in 2016 (29.0% CAGR).
- In Sweden, SD will be 16.2% of Internet video traffic in 2021, compared to 53.5% in 2016 (-4.9% CAGR).
- In Sweden, consumer Internet video traffic will be 79% of consumer Internet traffic in 2021, up from 64% in 2016.
- In Sweden, business Internet video traffic will be 70% of business Internet traffic in 2021, up from 46% in 2016.
- In Sweden, Internet-Video-to-TV traffic will be 25% of fixed consumer Internet video traffic in 2021, up from 18% in 2016.
- In Sweden, Internet-Video-to-TV traffic will increase 3-fold between 2016 and 2021 (27.4% CAGR).
- In Sweden, 98% of all Internet video traffic will cross content delivery networks in 2021, up from 89% in 2016.
- In Sweden, 78.2% of all Internet video traffic will be long-form video (including live) in 2021, up from 62.1% in 2016.

IP VOD

- In Sweden, Ultra HD will be 25.6% of IP VOD traffic in 2021, up from 0.4% in 2016 (146.6% CAGR).
- In Sweden, HD will be 70.8% of IP VOD traffic in 2021, up from 79.3% in 2016 (7.0% CAGR).
- In Sweden, SD will be 3.6% of IP VOD traffic in 2021, compared to 20.2% in 2016 (-22.5% CAGR).

Gaming

- In Sweden, gaming traffic will grow 6-fold from 2016 to 2021, a compound annual growth rate of 44%.
- In Sweden, gaming traffic will reach 48 Petabytes per month in 2021, up from 8 Petabytes per month in 2016.
- In Sweden, gaming traffic will be 6% of consumer Internet traffic in 2021, up from 2% in 2016.

Devices

- In Sweden, there will be 94.3 million networked devices in 2021, up from 62.5 million in 2016.
- In Sweden, there will be 9.3 networked devices per capita in 2021, up from 6.3 per capita in 2016.
- In Sweden, 30% of all networked devices will be mobile-connected in 2021.
- In Sweden, M2M modules will account for 58% (54.8 million) of all networked devices in 2021, compared to 43% (26.8 million) in 2016, (15.4% CAGR).
- In Sweden, PCs will account for 7% (7.1 million) of all networked devices in 2021, compared to 14% (8.8 million) in 2016, (-4.3% CAGR).
- In Sweden, Tablets will account for 4% (4.0 million) of all networked devices in 2021, compared to 7% (4.6 million) in 2016, (-2.7% CAGR).
- In Sweden, Smartphones will account for 13% (12.1 million) of all networked devices in 2021, compared to 16% (10.3 million) in 2016, (3.3% CAGR).
- In Sweden, Connected TVs will account for 13% (11.9 million) of all networked devices in 2021, compared to 14% (8.8 million) in 2016, (6.2% CAGR).

- In Sweden, Non-Smartphones will account for 0.3% (282859) of all networked devices in 2021, compared to 2% (1.5 million) in 2016, (-28.3% CAGR).
- In Sweden, Other Portables will account for 4% (4.2 million) of all networked devices in 2021, compared to 3% (1.7 million) in 2016, (19.2% CAGR).
- In Sweden, 4K TVs will account for 56% (3.3 million) of all flat panel TVs in 2021, compared to 16.2% (545,321) in 2016, (43.4% CAGR).
- Sweden's IP traffic from non-PC devices was 44% of total IP traffic in 2016, and will be 63% of total IP traffic in 2021.
- In Sweden, PCs accounted for 56% of IP traffic in 2016, and will be 37% of IP traffic in 2021.
- In Sweden, TVs accounted for 16% of IP traffic in 2016, and will be 21% of IP traffic in 2021.
- In Sweden, Smartphones accounted for 16% of IP traffic in 2016, and will be 21% of IP traffic in 2021.
- In Sweden, Tablets accounted for 10% of IP traffic in 2016, and will be 14% of IP traffic in 2021.
- In Sweden, M2M modules accounted for 2.0% of IP traffic in 2016, and will be 6.8% of IP traffic in 2021.
- In Sweden, PCs accounted for 58% of consumer Internet traffic in 2016, and will be 38% of consumer Internet traffic in 2021.
- In Sweden, TVs accounted for 9% of consumer Internet traffic in 2016, and will be 18% of consumer Internet traffic in 2021.
- In Sweden, TVs accounted for 7% of total Internet traffic in 2016, and will be 15% of total Internet traffic in 2021.

Speed Evolution

- In Sweden, the average fixed broadband speed will grow 1.8-fold from 2016 to 2021, from 47.1 Mbps to 86.2 Mbps.
- In Sweden, 99% of fixed broadband connections will be faster than 5 Mbps in 2021, up from 89% today.
- In Sweden, 96% of fixed broadband connections will be faster than 10 Mbps in 2021, up from 75% today.
- In Sweden, 75.3% of fixed broadband connections will be faster than 25 Mbps in 2021, up from 49.4% today.
- In Sweden, 63.1% of fixed broadband connections will be faster than 50 Mbps in 2021, up from 37.7% today.
- In Sweden, the average Wi-Fi speeds from mobile devices will grow 1.6-fold from 2016 to 2021, from 29.9 Mbps to 49 Mbps.
- In Sweden, the average mobile connection speed will grow 2-fold from 2016 to 2021, reaching 35 Mbps in 2021.

Traffic per User and Household

- In Sweden, the average Internet user will generate 97.7 Gigabytes of Internet traffic per month in 2021, up 85% from 52.9 Gigabytes per month in 2016, a CAGR of 13%.
- In Sweden, the average Internet household will generate 199.8 Gigabytes of Internet traffic per month in 2021, up 83% from 109.1 Gigabytes per month in 2016, a CAGR of 13%.
- In Sweden, the average FTTx Internet household will generate 249.8 Gigabytes of Internet traffic per month in 2021, 93.3% more than other broadband households.
- In Sweden, the average FTTx Internet household generated 149.4 Gigabytes of Internet traffic per month in 2016, 95.7% more than other broadband households.

- In Sweden, there will be 789,406 Internet households (22.0% of all Internet households) generating more than 250 Gigabytes per month in 2021.
- In Sweden, there will be 466,467 households (13.0% of all Internet households) generating more than 500 Gigabytes per month in 2021.
- In Sweden, there will be 107,646 households (3.0% of all Internet households) generating more than a terabyte per month in 2021.
- In Sweden, the average mobile connection will generate 13,120 Megabytes of mobile data traffic per month in 2021, up from 6,107 Megabytes in 2016.

Traffic Topology and Traffic Patterns

- In Sweden, 85% of all Internet traffic will cross content delivery networks in 2021, up from 63% in 2016.
- In Sweden, peak Internet traffic will grow at a compound annual growth rate of 24% from 2016 to 2021, compared to 15% for average Internet traffic.