



Rest of Middle East and Africa - 2020 Forecast Highlights

IP Traffic

- In the rest of Middle East and Africa, IP traffic will grow 7-fold from 2015 to 2020, a compound annual growth rate of 47%.
- In the rest of Middle East and Africa, IP traffic will reach 8.9 Exabytes per month in 2020, up from 1.3 Exabytes per month in 2015.
- The rest of Middle East and Africa's IP networks will carry 293 Petabytes per day in 2020, up from 43 Petabytes per day in 2015.
- In the rest of Middle East and Africa, IP traffic will reach an annual run rate of 107.1 Exabytes in 2020, up from an annual run rate of 15.7 Exabytes in 2015.
- In the rest of Middle East and Africa, IP traffic will reach 6 Gigabytes per capita in 2020, up from 1 Gigabytes per capita in 2015.
- In the rest of Middle East and Africa, average IP traffic will reach 27 Tbps in 2020, and busy hour traffic will reach 123 Tbps.
- In 2020, the gigabyte equivalent of all movies ever made will cross The rest of Middle East and Africa's IP networks every 39 minutes.

Internet Traffic

- In the rest of Middle East and Africa, Internet traffic will grow 7.5-fold from 2015 to 2020, a compound annual growth rate of 50%.
- In the rest of Middle East and Africa, busy hour Internet traffic will grow 11.3-fold from 2015 to 2020, a compound annual growth rate of 63%.

- In the rest of Middle East and Africa, Internet traffic will reach 8.6 Exabytes per month in 2020, up from 1.1 Exabytes per month in 2015.
- The rest of Middle East and Africa's Internet traffic will be 282 Petabytes per day in 2020, up from 40 Petabytes per day in 2015.
- The rest of Middle East and Africa's Internet traffic in 2020 will be equivalent to 26 billion DVDs per year, 2 billion DVDs per month, or 3 million DVDs per hour.
- In 2020, the gigabyte equivalent of all movies ever made will cross the Internet every 41 minutes.
- the rest of Middle Eastern and African Internet traffic in 2020 will be equivalent to 617x the volume of the entire the rest of Middle Eastern and African Internet in 2005.
- In the rest of Middle East and Africa, Internet traffic will reach 6 Gigabytes per capita in 2020, up from 1 Gigabytes per capita in 2015.
- In the rest of Middle East and Africa, average Internet traffic will increase 7.5-fold by 2020 and will reach 26 Tbps.
- In the rest of Middle East and Africa, busy hour Internet traffic will increase 11.3-fold by 2020 and will reach 118 Tbps.

Wired Wi-Fi and Mobile Growth

- The rest of Middle East and Africa's Fixed/Wi-Fi was 54% of total IP traffic in 2015, and will be 48% of total IP traffic in 2020.
- The rest of Middle East and Africa's Fixed/Wired was 27% of total IP traffic in 2015, and will be 8% of total IP traffic in 2020.
- The rest of Middle East and Africa's Mobile was 18% of total IP traffic in 2015, and will be 44% of total IP traffic in 2020.
- The rest of Middle East and Africa's Fixed/Wi-Fi was 56.9% of total Internet traffic in 2015, and will be 49.1% of total Internet traffic in 2020.
- The rest of Middle East and Africa's Fixed/Wired was 22% of total Internet traffic in 2015, and will be 5% of total Internet traffic in 2020.
- The rest of Middle East and Africa's Mobile was 21.0% of total Internet traffic in 2015, and will be 45.5% of total Internet traffic in 2020.

IP Video

- In the rest of Middle East and Africa, IP video traffic will grow 9-fold from 2015 to 2020, a compound annual growth rate of 57%.
- In the rest of Middle East and Africa, IP video traffic will reach 7.0 Exabytes per month in 2020, up from 742 Petabytes per month in 2015.
- In the rest of Middle East and Africa, IP video will be 79% of all IP traffic in 2020, up from 57% in 2015.
- In the rest of Middle East and Africa, Ultra HD will be 2.8% of IP Video traffic in 2020, up from 0.1% in 2015 (194.5% CAGR).
- In the rest of Middle East and Africa, HD will be 34.6% of IP Video traffic in 2020, up from 15.4% in 2015 (84.3% CAGR).

- In the rest of Middle East and Africa, SD will be 62.6% of IP Video traffic in 2020, compared to 84.5% in 2015 (47.7% CAGR).
- In the rest of Middle East and Africa, consumer IP video traffic will be 81% of consumer IP traffic in 2020, up from 64% in 2015.
- In the rest of Middle East and Africa, business IP video traffic will be 67% of business IP traffic in 2020, up from 43% in 2015.

Internet Video

- In the rest of Middle East and Africa, Internet video traffic will grow 10-fold from 2015 to 2020, a compound annual growth rate of 59%.
- In the rest of Middle East and Africa, Internet video traffic will reach 6.8 Exabytes per month in 2020, up from 657 Petabytes per month in 2015.
- In the rest of Middle East and Africa, total Internet video traffic (business and consumer, combined) will be 79% of all Internet traffic in 2020, up from 57% in 2015.
- In the rest of Middle East and Africa, Ultra HD will be 2.9% of Internet video traffic in 2020, up from 0.1% in 2015 (194.3% CAGR).
- In the rest of Middle East and Africa, HD will be 35.6% of Internet video traffic in 2020, up from 16.7% in 2015 (85.6% CAGR).
- In the rest of Middle East and Africa, SD will be 61.5% of Internet video traffic in 2020, compared to 83.2% in 2015 (50.1% CAGR).
- In the rest of Middle East and Africa, consumer Internet video traffic will be 81% of consumer Internet traffic in 2020, up from 63% in 2015.
- In the rest of Middle East and Africa, business Internet video traffic will be 68% of business Internet traffic in 2020, up from 45% in 2015.
- In the rest of Middle East and Africa, Internet-Video-to-TV traffic will be 6% of fixed consumer Internet video traffic in 2020, up from 8% in 2015.
- In the rest of Middle East and Africa, Internet-Video-to-TV traffic will increase 7-fold between 2015 and 2020 (46.3% CAGR).
- In the rest of Middle East and Africa, 124 billion minutes (235,273 years) of video content will cross the Internet each month in 2020. That's 47,055 minutes of video streamed or downloaded every second.
- In the rest of Middle East and Africa, 42% of all Internet video traffic will cross content delivery networks in 2020, up from 25% in 2015.
- In the rest of Middle East and Africa, 36% of all Internet traffic will cross content delivery networks in 2020, up from 16% in 2015.

IP VOD

- In the rest of Middle East and Africa, Ultra HD will be 2.8% of IP VOD traffic in 2020, up from 0.0% in 2015 (202.5% CAGR).
- In the rest of Middle East and Africa, HD will be 18.4% of IP VOD traffic in 2020, up from 12.7% in 2015 (39.4% CAGR).
- In the rest of Middle East and Africa, SD will be 78.8% of IP VOD traffic in 2020, compared to 87.3% in 2015 (26.8% CAGR).

Gaming

- In the rest of Middle East and Africa, Internet gaming traffic will grow 8-fold from 2015 to 2020, a compound annual growth rate of 51%.
- In the rest of Middle East and Africa, Internet gaming traffic will reach 6.8 Exabytes per month in 2020, up from 657 Petabytes per month in 2015.
- In the rest of Middle East and Africa, Internet gaming traffic will be 2% of consumer Internet traffic in 2020, up from 2% in 2015.

Mobile

- In the rest of Middle East and Africa, mobile data traffic will grow 16-fold from 2015 to 2020, a compound annual growth rate of 75%.
- In the rest of Middle East and Africa, mobile data traffic will reach 3.9 Exabytes per month in 2020, up from 240 Petabytes per month in 2015.
- the rest of Middle Eastern and African mobile data traffic will grow 2 times faster than the rest of Middle Eastern and African fixed IP traffic from 2015 to 2020.
- The rest of Middle East and Africa's Mobile was 18% of total IP traffic in 2015, and will be 44% of total IP traffic in 2020.
- In the rest of Middle East and Africa, mobile data traffic in 2020 will be equivalent to 270x the volume of the entire the rest of Middle Eastern and African Internet in 2005.

Devices

- In the rest of Middle East and Africa, there will be 2.0 billion networked devices in 2020, up from 1.3 billion in 2015.
- In the rest of Middle East and Africa, there will be 1.3 networked devices per capita in 2020, up from 1.0 per capita in 2015.
- In the rest of Middle East and Africa, 80% of all networked devices will be mobile-connected in 2020.
- In the rest of Middle East and Africa, M2M modules will account for 20% (397.3 million) of all networked devices in 2020, compared to 11% (147.8 million) in 2015, (21.9% CAGR).
- In the rest of Middle East and Africa, PCs will account for 3% (58.0 million) of all networked devices in 2020, compared to 4% (52.7 million) in 2015, (1.9% CAGR).
- In the rest of Middle East and Africa, Tablets will account for 3% (61.6 million) of all networked devices in 2020, compared to 1% (13.4 million) in 2015, (35.7% CAGR).
- In the rest of Middle East and Africa, Smartphones will account for 36% (731.5 million) of all networked devices in 2020, compared to 17% (222.2 million) in 2015, (26.9% CAGR).
- In the rest of Middle East and Africa, Connected TVs will account for 3% (57.5 million) of all networked devices in 2020, compared to 2% (20.4 million) in 2015, (23% CAGR).
- In the rest of Middle East and Africa, Non-Smartphones will account for 34.6% (701.0 million) of all networked devices in 2020, compared to 65% (879.2 million) in 2015, (-4.4% CAGR).
- In the rest of Middle East and Africa, Other Portables will account for 1% (18.4 million) of all networked devices in 2020, compared to 1% (9.4 million) in 2015, (14.2% CAGR).

- In the rest of Middle East and Africa, 4K TVs will account for 39% (14.0 million) of all flat panel TVs in 2020, compared to 7.2% (553,493) in 2015, (90.7% CAGR).
- The rest of Middle East and Africa's IP traffic from non-PC devices was 36% of total IP traffic in 2015, and will be 83% of total IP traffic in 2020.
- In the rest of Middle East and Africa, PCs accounted for 64% of IP traffic in 2015, and will be 17% of IP traffic in 2020.
- In the rest of Middle East and Africa, TVs accounted for 5% of IP traffic in 2015, and will be 3% of IP traffic in 2020.
- In the rest of Middle East and Africa, Smartphones accounted for 25% of IP traffic in 2015, and will be 67% of IP traffic in 2020.
- In the rest of Middle East and Africa, Tablets accounted for 4% of IP traffic in 2015, and will be 10% of IP traffic in 2020.
- In the rest of Middle East and Africa, M2M modules accounted for 1.6% of IP traffic in 2015, and will be 1.9% of IP traffic in 2020.
- In the rest of Middle East and Africa, PCs accounted for 51% of consumer Internet traffic in 2015, and will be 10% of consumer Internet traffic in 2020.
- In the rest of Middle East and Africa, TVs accounted for 3% of consumer Internet traffic in 2015, and will be 2% of consumer Internet traffic in 2020.
- In the rest of Middle East and Africa, TVs accounted for 2% of total Internet traffic in 2015, and will be 1% of total Internet traffic in 2020.

Speed Evolution

- In the rest of Middle East and Africa, the average fixed broadband speed will grow 1.9-fold from 2015 to 2020, from 6.1 Mbps to 11.6 Mbps.
- In the rest of Middle East and Africa, 35% of fixed broadband connections will be faster than 5 Mbps in 2020, up from 30% today.
- In the rest of Middle East and Africa, 14% of fixed broadband connections will be faster than 10 Mbps in 2020, up from 13% today.
- In the rest of Middle East and Africa, 8.8% of fixed broadband connections will be faster than 25 Mbps in 2020, up from 6.7% today.
- In the rest of Middle East and Africa, 6.6% of fixed broadband connections will be faster than 50 Mbps in 2020, up from 3.5% today.
- In the rest of Middle East and Africa, the average Wi-Fi speeds from mobile devices will grow 1.6-fold from 2015 to 2020, from 3.6 Mbps to 6 Mbps.
- In the rest of Middle East and Africa, the average mobile connection speed will grow 8-fold from 2015 to 2020, reaching 5 Mbps in 2020.

Traffic per User and Household

- In the rest of Middle East and Africa, the average Internet user will generate 27.8 gigabytes of Internet traffic per month in 2020, up 432% from 5.2 gigabytes per month in 2015, a CAGR of 40%.
- In the rest of Middle East and Africa, the average Internet household will generate 110.1 gigabytes of Internet traffic per month in 2020, up 490% from 18.7 gigabytes per month in 2015, a CAGR of 43%.

- In the rest of Middle East and Africa, the average FTTx Internet household will generate 194.3 gigabytes of Internet traffic per month in 2020, 111.1% more than other broadband households.
- In the rest of Middle East and Africa, the average FTTx Internet household generated 46.6 gigabytes of Internet traffic per month in 2015, 140.0% more than other broadband households.
- In the rest of Middle East and Africa, there will be 6 million Internet households (17.0% of all Internet households) generating more than 250 gigabytes per month in 2020.
- In the rest of Middle East and Africa, there will be 1 million households (4.0% of all Internet households) generating more than 500 gigabytes per month in 2020.
- In the rest of Middle East and Africa, there will be 328,745 households (1.0% of all Internet households) generating more than a terabyte per month in 2020.
- In the rest of Middle East and Africa, the average mobile connection will generate 2,586 megabytes of mobile data traffic per month in 2020, up from 213 megabytes in 2015.