Elevating Nokia's POV on How the Pandemic Impacted the Internet

Leveraging a News Cycle for Thought Leadership



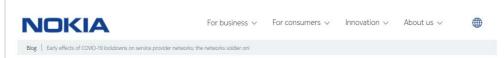




Setting the Stage

- We support Nokia's B2B software business, which includes a security and intelligence platform called Deepfield.
- When the Covid-19 lockdowns started to occur, we anticipated this would impact internet bandwidth.
- Nokia deployed Deepfield to analyze network performance (before lockdown/ after lockdown).





Early effects of COVID-19 lockdowns on service provider networks: the networks soldier on!

by Craig Labovitz 20 Mar 2020



Summary

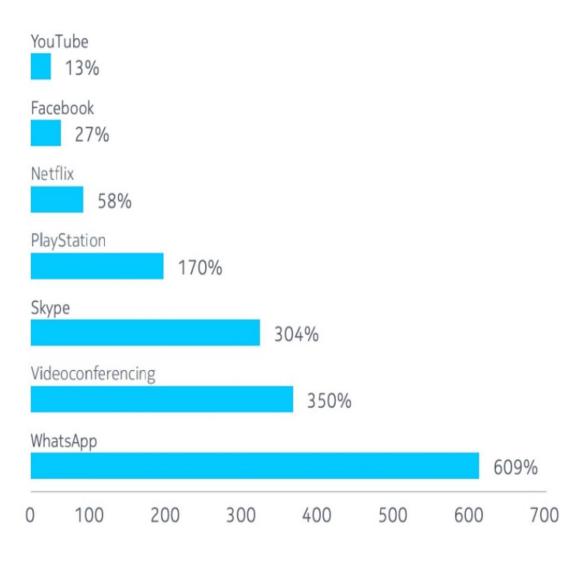
- · Unprecedented growth (in a very short time) in global internet traffic
 - Most networks see 30-45% growth over a year
 - We have been seeing 20-40% peak increase (usually in evenings) in impacted regions over the last four weeks (and in a few days)
 - · So far networks appear to be meeting demand, but they were designed to grow that much in a year, not in days
 - The edge and peering links of Content Delivery Networks (CDNs) seem to have enough headroom
 - Stress is mostly on the aggregation networks and service edge routers, where demand may be reaching capacity maximums

Nokia Deepfield Campaign Capitalizes on News Cycle

ESTABLISHING A CAMPAIGN "ANCHOR"

- We leveraged owned media, Nokia's blog, to initially establish the company's POV on the pandemic's impact on the internet.
 - This way, journalists could see sometimes with our helpful pointers — that Nokia was an early voice on the issue.
- We worked with the Deepfield CTO to mine what we thought would provide "hooks" for journalists.
 - Pulling data specific to Netflix and WhatsApp





Humanizing the Nokia Story Extended Media Reach

DRILL DOWN INTO THE NOKIA DATA

- No surprise, the pandemic caused an increase in applications, which in turn impacted internet performance.
- Taking this a step further so the average person would understand, we worked with Nokia to isolate individual applications and their impact on the internet.
- By humanizing the story, we believed this would land with journalists.
 - ▶ It did.

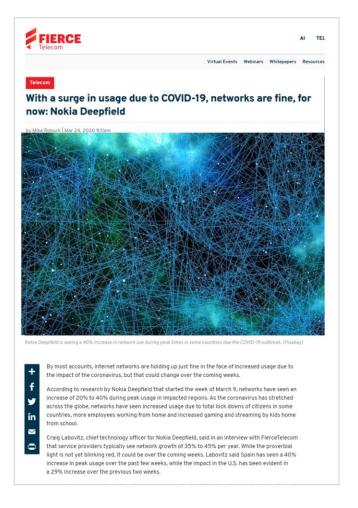


Shaping Pitches That Land with Journalists

THE TRADE BOOKS RESPONDED TO OUR FIRST WAVE OF PITCHES



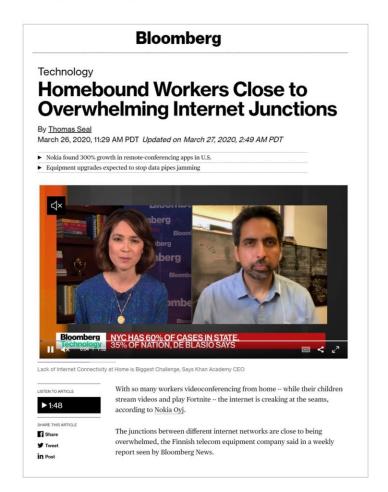


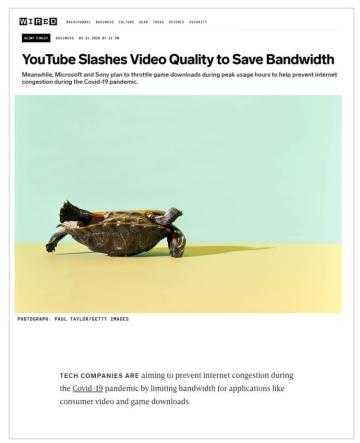




Shaping Pitches That Land with Journalists

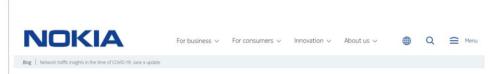
AS DID BUSINESS AND MAINSTREAM MEDIA INCLUDING BLOOMBERG AND WIRED (TWICE)











Network traffic insights in the time of COVID-19: June 4 update

by Craig Labovitz 9 Jun 2020



Executive summary

- Peak traffic "normalizes" at 25-30% above pre-pandemic levels
- Aggregate traffic volumes continue to be over 25% above pre-pandemic levels
- Video streaming rates back to normal (no speed/quality reduction) almost everywhere
- Distributed Denial of Service attacks on the rise; DDoS traffic increases 40-50% (February to May)

Intro

Societies across the world are preparing to reopen slowly. With the majority of people still working and learning from home, the effects of COVID-19 pandemic on global networks continue to be present.

In this blog – a follow-up to our April 9 blog - we take a more extended snapshot of the effects of COVID-19 pandemic on the internet with focus on the US networks. It's been ten weeks since March 19 lockdowns – when "shelter-in-place" orders were declared in the state of California and New York City, fourteen weeks since the first lockdown in Italy (February 21), and 18 weeks since the city of Wuhan, China was closed to incoming and outgoing traffic (January 23).

Sustaining the Nokia Deepfield Campaign

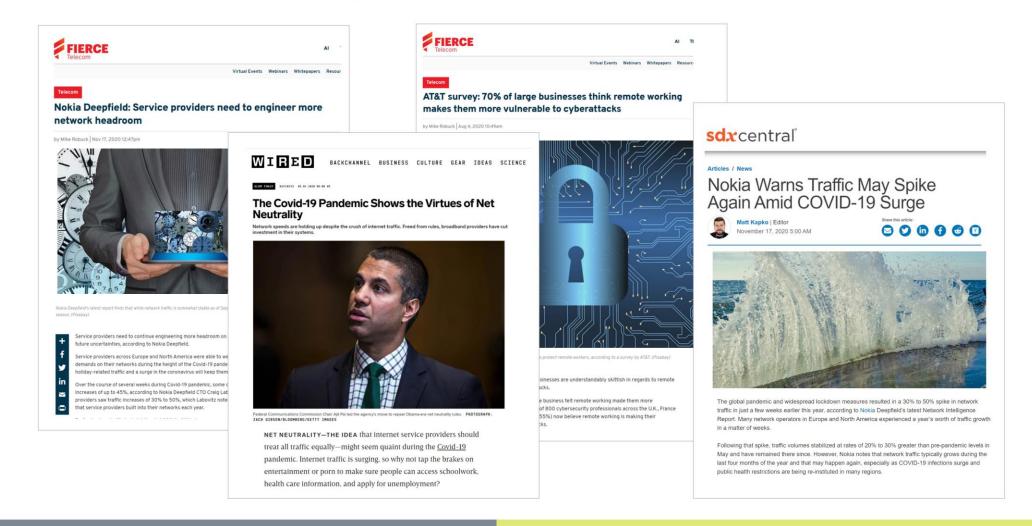
LOOKING BEYOND INITIAL PUSH

- We teamed with Nokia to continually replenish the narrative with fresh content.
 - Included publishing more blog posts.
- And continued pitching both trade and business journalists.



Sustaining the Nokia Deepfield Campaign

SAMPLE COVERAGE FROM CONTINUED MEDIA PUSH



THE WALL STREET JOURNAL.

BUSINESS | MEDIA & MARKETING

Forget the Streaming Wars—Pandemic-Stricken 2020 Lifted Netflix and Others

From Hulu to Disney+, largest streaming services are expected to end the year with 50% more U.S. subscribers



'The Crown' was the most watched Netflix show for the last two weeks of November, in a year when the service's content drew large audiences.

PHOTO: DES WILLIE/NETFLIX/ASSOCIATED PRESS

By Lillian Rizzo and Drew FitzGerald

Dec. 30, 2020 9:33 am ET

The past 12 months were billed as the year when a flood of new entrants would force streaming services to wage an all-out war for subscribers. Instead, incumbents and rookies alike feasted on a base of shut-in customers eager for more things to watch.

The largest streaming services are expected to finish 2020 with combined U.S. subscriber numbers more than 50% higher than a year ago, according to a Wall Street Journal analysis of data from market-research firms MoffettNathanson LLC and HarrisX.



Sustaining the Nokia Deepfield Campaign

BY ESTABLISHING A BEACHHEAD AT THE START OF THE NEWS CYCLE, JOURNALISTS CALLED US.

The best example of this is the Journal reaching out to us for Nokia Deepfield data and input.

The gap between Netflix usage on weekends and weekdays also shrank as homebound customers had more opportunities to consume programming on weekdays, said Craig Labovitz, chief technology officer of Nokia Deepfield, the telecom-equipment maker's network analysis unit.



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