

Net Neutrality & 5G Network Slicing

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We get to decide what we do online
without interference
from the companies we pay to get
online

ISP should
not pick winners & losers online

What is network slicing?

NETWORK PRESS RELEASE

T-Mobile Expands World's First Network Slicing Beta to Developers Nationwide

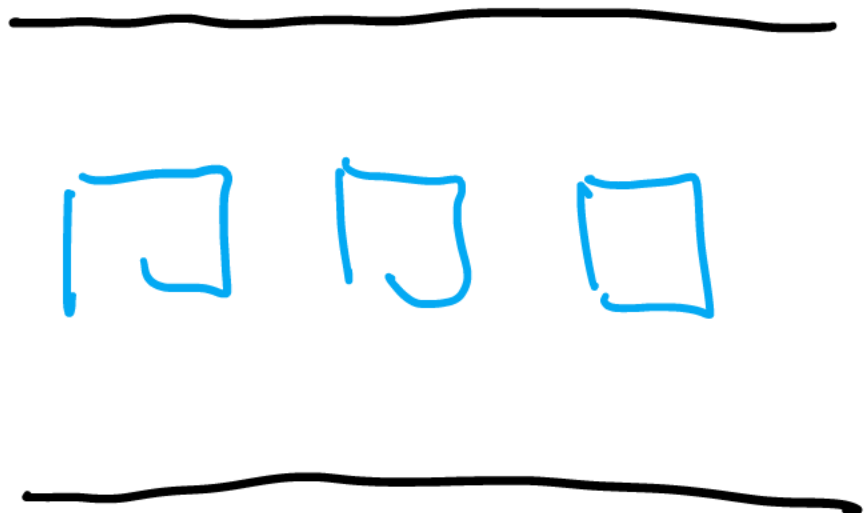
September 26, 2023

Video calling beta program now available to developers across the country, including Android developers on the Samsung Galaxy S23 series

How does it work?

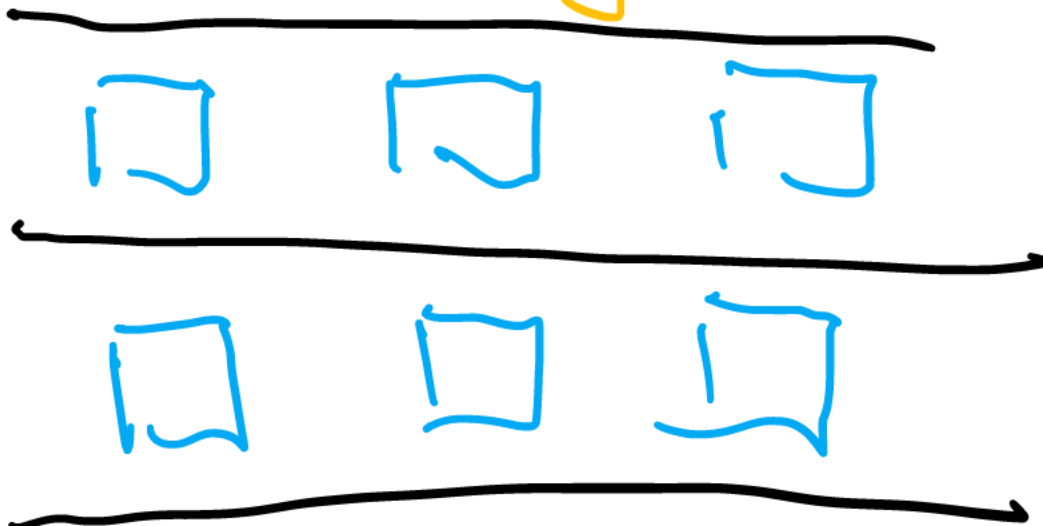


one big pipe
for everything

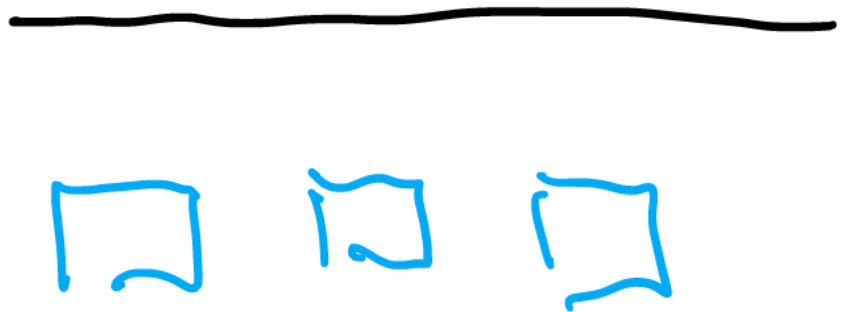


one big pipe
for everything

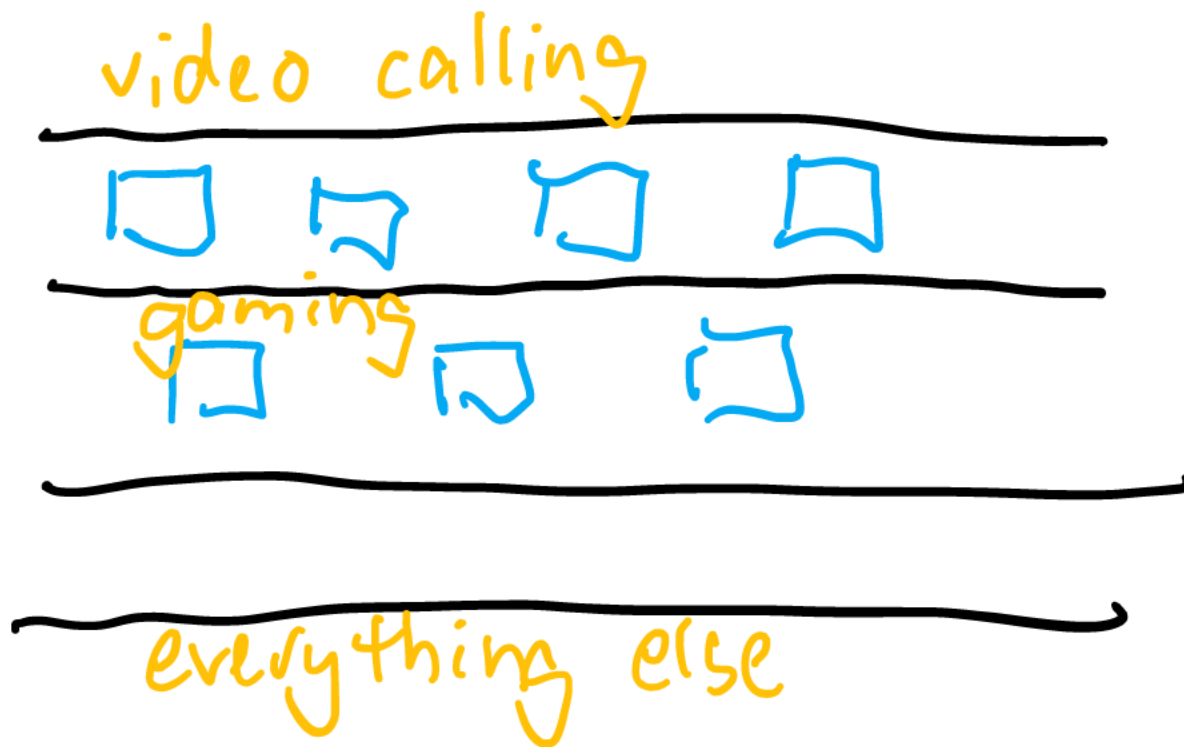
video calling



everything else



one big pipe
for everything



Some apps get special
treatment

ISP decides, not users

Why is this a problem?

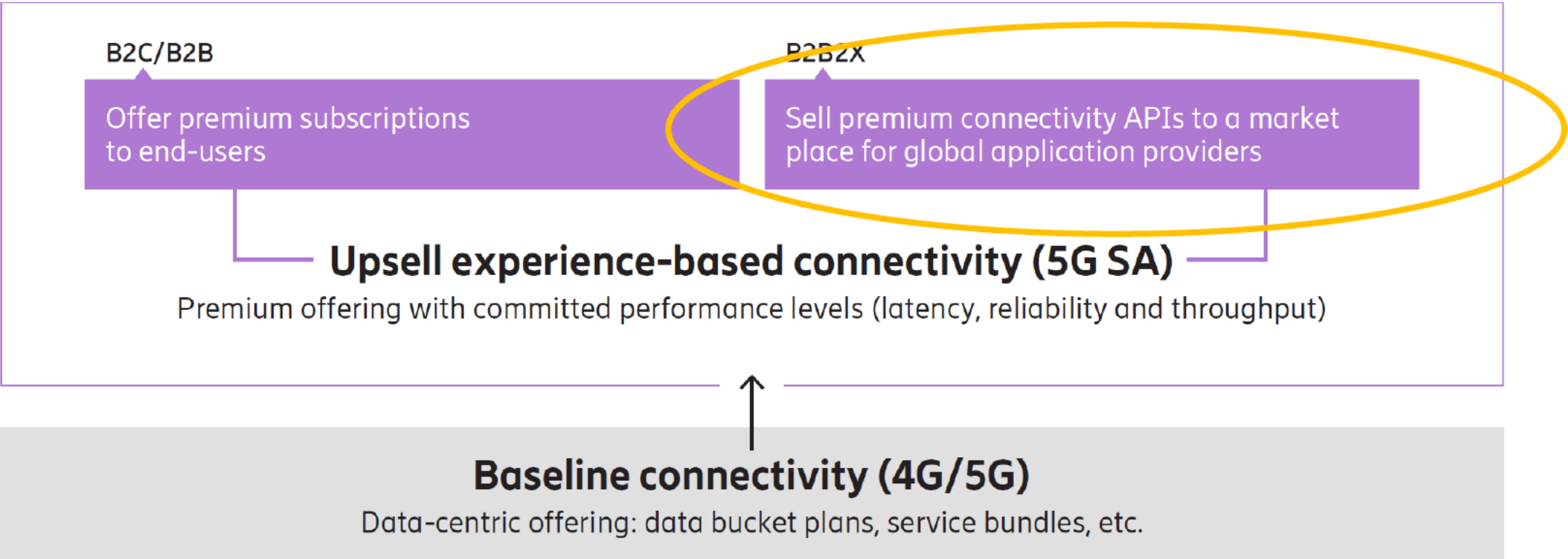
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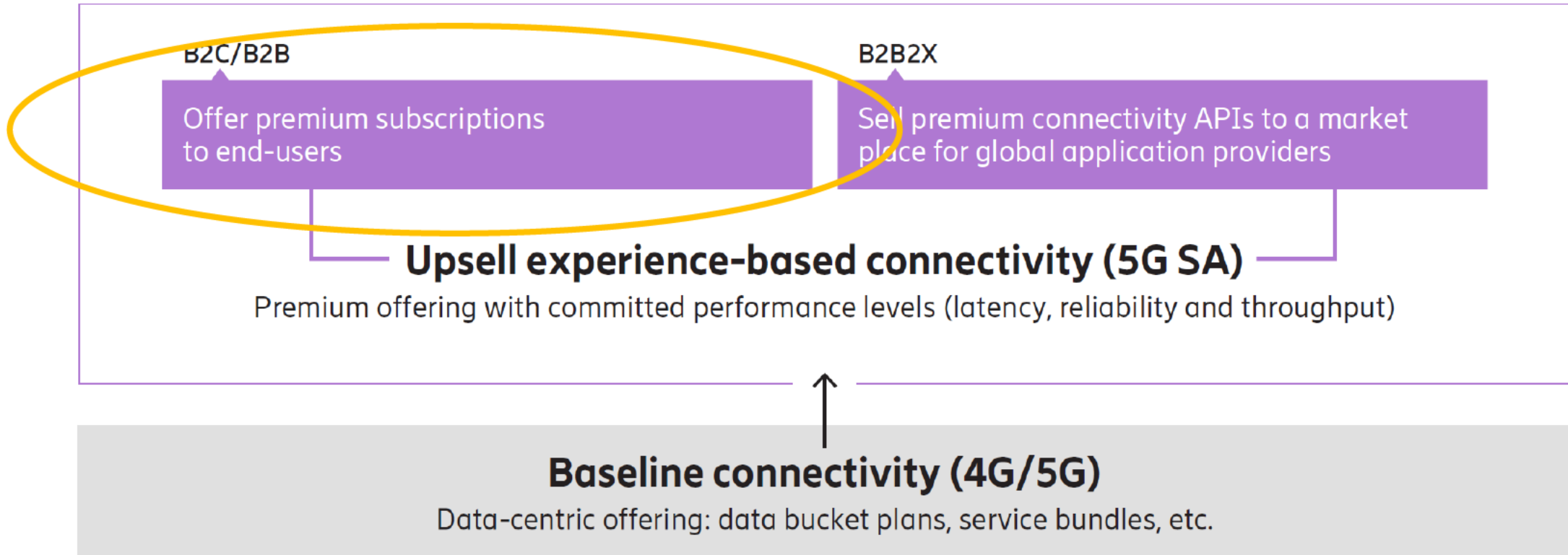
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Charge the app provider



Source: Ericsson, Boost service differentiation for 5G premium experiences, p. 5, <https://www.ericsson.com/4a9de8/assets/local/ran/doc/5g-premium.pdf>

Charge the internet user



No Throttling

Obama 2014

"No throttling"

"**No throttling.** Nor should ISPs be able to intentionally **slow down** some content or **speed up** others — through a process often called "**throttling**" — based on the type of service or your ISP's preferences."

"No throttling"

ISP discriminates

against apps or classes of
apps

subject to reasonable network management



:DROPOUT



:DROPOUT

Specialized Services

Specialized Services

**Not proposing
ban on
network slicing**

Enterprise service offerings

**Net neutrality-friendly
Offerings as part of BIAS**

**Put the power in
user hands**

**Non-BIAS data services
for consumer-facing apps
that cannot function on the open internet**

**Net neutrality-friendly
Quality of Service:
Characteristics**

- 1) **Application-agnostic:** available to all apps and classes of apps & no discrimination in the provision of the different types of service
- 2) **End user-controlled:** end user chooses whether, when, and for which app(s)
 - > **consistent with the no-throttling rule**
- 3) **End user-paid:** only BIAS subscriber is charged (if at all) for use of the different types of service
 - > **consistent with the no (third party) paid prioritization rule**
- 4) **Protecting the quality of the default BIAS service**

4) Protecting and improving the quality of the “best effort” Internet

- The introduction of the additional types of service does not significantly degrade the performance of the default BIAS service available at that time; and
- the capacity and performance of the default BIAS service continue to improve over time.