CERAGON

#4

Value Bytes

Handling 4G & 5G traffic bursts

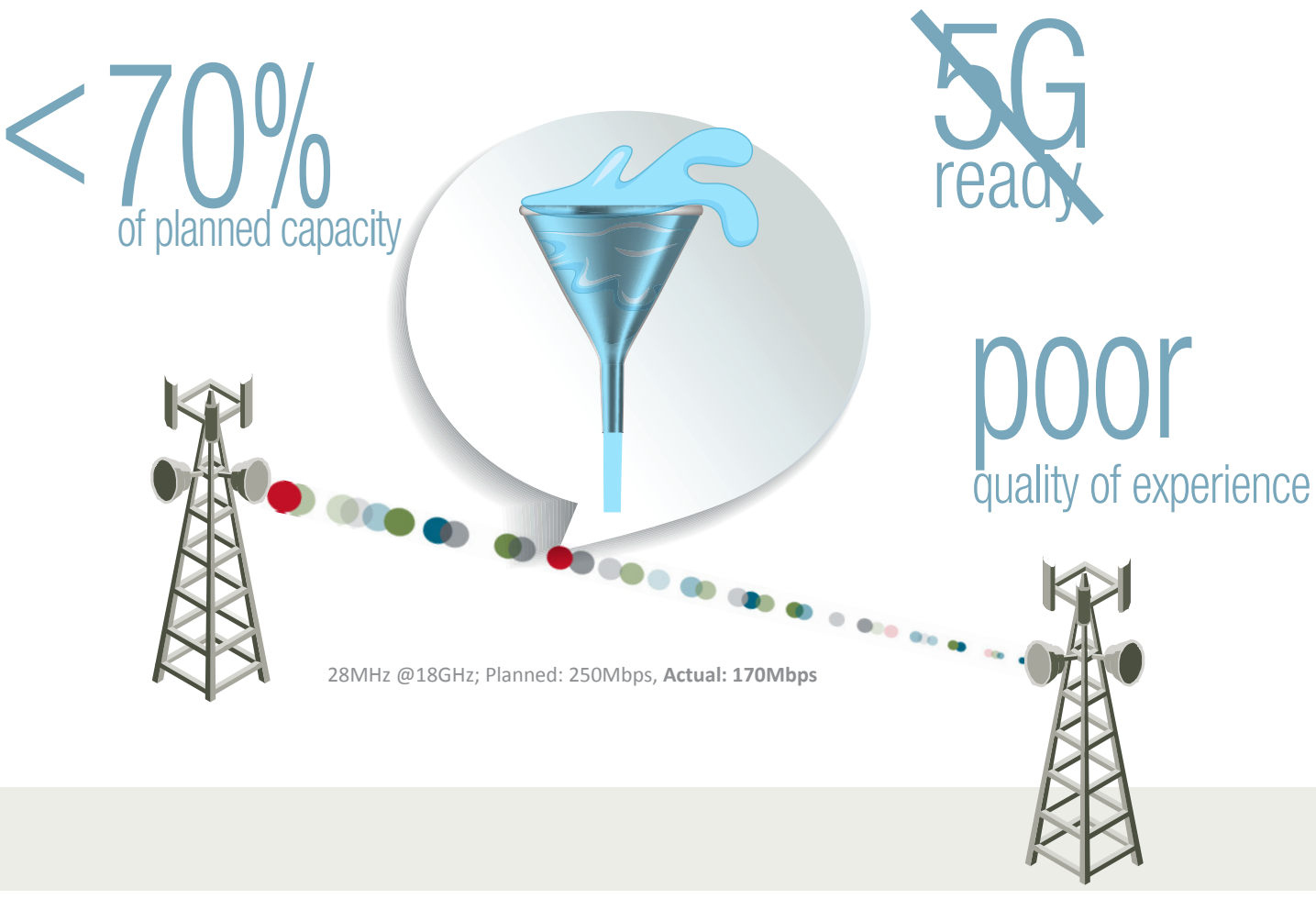
Only with IP-20 multicore technology

The challenge

Today's 4G LTE networks, tomorrow's 4.5G LTE-A and even 5G networks change traffic patterns drastically. Networks must be ready to deliver ultra high-definition video over mobile and nomadic devices, with immediate availability: no buffering, no pixelation. Unlike 3G network traffic, which offers limited capacity and requires constancy over time, 4G and 5G traffic patterns are far less stable. They tend to experience sudden capacity bursts, due to large flows of intensive, multimedia traffic.

If not handled properly, these bursts of traffic cause numerous TCP re-transmissions, which degrade your wireless link capacity by as much as 30% and reduce your network's ability to deliver quality of experience (QoE).

Moreover, wireless backhaul links underperform, reducing operational efficiency. To overcome this challenge, you must deploy additional radio carriers and acquire more spectrum -- which is expensive, and sometimes, scarce.

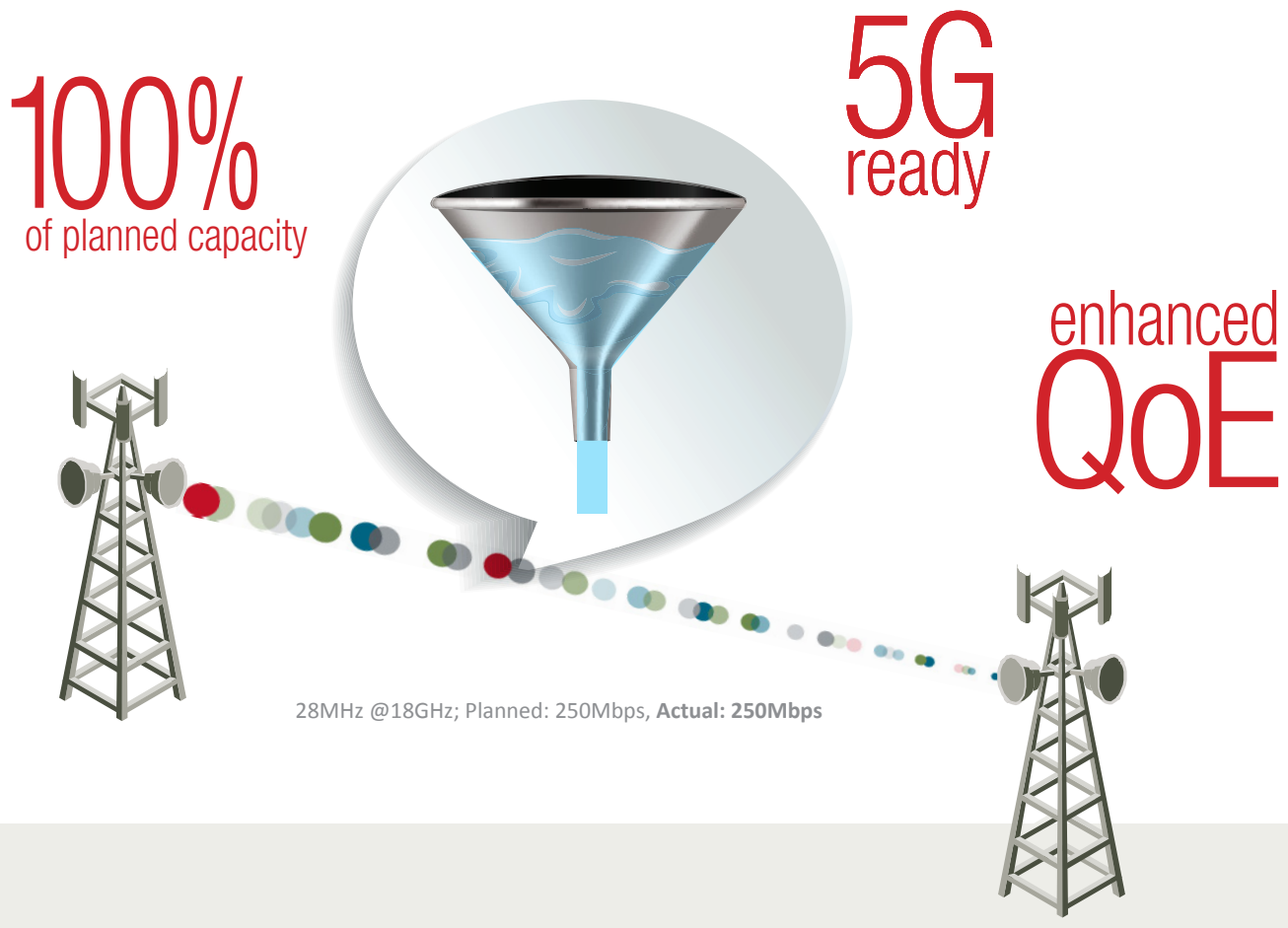


Actually, it's easy to handle traffic bursts, if your wireless backhaul equipment includes sufficient buffers that can handle large influx of data and regulate it. Commonly used buffers limit traffic bursts to only 20Mbit. This solution, however, is inadequate for 4G and 5G, which requires buffers that are at least 100-200 times larger.

The IP-20 platform: what you plan is what you get

Ceragon's IP-20 platform supports the long-term network evolution from 4G to 5G, providing ultra-deep TCP buffers from 2Gbit to 4Gbit – the largest in the industry – for the most demanding subscriber services (such as multimedia services).

Simple network design and implementation ensure that the capacity you plan for is the capacity you get, while optimizing wireless backhaul assets.



Why Ceragon?

Ceragon enables you to reach the 4G, 4.5G and future 5G service capacity you need, with unmatched QoE and improved operational efficiency.