LET’S GET SMARTER
Five pillars to unleash the full potential of Cloud + 5G + AI

1. CLOUD-FIRST PLATFORMS
2. DISTRIBUTED EDGE CLOUD
3. MASSIVELY SCALABLE IP SERVICE FABRIC WITH NETWORK SLICING
4. AUTOMATED OPERATIONS
5. CONNECTED SECURITY

Juniper’s massively scalable IP service fabric with network slicing

Swisscom selected Ericsson and Juniper Networks to reduce complexity and increase efficiency in their 5G network, from RAN to core.

Juniper increased network capacity by 5X to fuel future mobile services at Telefonica.

Massive capacity and on-demand scalability
without compromising carrier-grade reliability or security

Virtual NF
Physical NF
IP Service Fabric
Access
Aggregation
Edge/Core

Virtualizes, disaggregates
select network functions

Open, agile network architecture
- Highly scalable IP service fabric for massive bandwidths
- 400G+ rotation
- Deploy once and forget with sufficient capacity to scale on demand
- Backward compatibility
- Open mobile 4G/5G transport for NR, classic 4G, ORAN, FWA
- Brute-necessary programmable HW for green to blue protocols (Network OS and SW protocols)

On-demand economics
- Pay-as-you-go, flex licensing, centralized network slicing
- Physical-virtual parity allowing best-fit deployment
- Downsell thanks to efficient CPU for simplifying inventory, saving, and scaling
- Triton silicon — 3x more power efficiency, 15% less component cost

Secure, assured service experience
- Real-time streaming telemetry, active probing and AI/ML-based automation
- Integrated security without performance penalty
- Network slicing using segment routing and other methods
- Best-in-class latency and timing solutions (including network slicing) ensure stringent SLAs for new 5G services

Check out our other four solution pillars of Cloud + 5G + AI and learn how they enable service provider business transformation.

www.juniper.net/5G

Juniper Networks increased network capacity by 5X to fuel future mobile services at Telefonica.