



Network Slicing Done Right with Elastic



By 2025, the market for network slicing enabled 5G use cases is estimated at 45 Billion USD.

Today telcos are aggressively pursuing 5G network slicing, and rightly so. Network slicing holds the key to 5G monetization — operators can deliver curated user experience across verticals (IoT, connected vehicles, gaming, etc.), in a scalable, flexible, and agile way. With disaggregated and software defined networks, operators can fast-forward their network slicing journey, but only with a data-led approach. Well-trained ML algorithms and AI for intelligent automations will be key. After all, most network slicing use cases will require real or near real time network operations. Meeting those stringent requirements will depend on how well telcos are leveraging automations.

An observability strategy for network slicing

Network slicing needs in depth understanding of network complexities, core infrastructure capabilities, customer demand, geolocation preferences, ecosystem readiness, and a host of other disparate pieces of information. An observability led data strategy can enable telcos to seek insights that would otherwise be challenging to put in perspective. So, whether it is usage insights, billing and charging data, signaling KPIs, or other performance metrics from the IP network, radio, or RAN, Elasticsearch can empower telcos to make informed choices on their investments.



Identify use cases for quicker ROI



Optimize network performance for QoS guarantee



Embed DevSecOps into operational/business systems

Going ahead, these strategic steps can facilitate telcos in adopting a platform-approach to network slicing, where they build, replicate, and scale their offerings seamlessly.

Operational excellence with intelligent automation

Automations are key to operational efficiency; and well-trained ML algorithms and AI are precursors to data driven automations. But data silos make efficient ML and AI modeling hard to achieve.

Elastic addresses traditional silos within the network with a fundamentally unique data analysis approach. By collocating data across network layers in a single analytics platform, Elastic search enables operators to map service quality to customer experience. Elastic's built-in support for every major global cloud provider also allows telcos to easily collect and analyze cloud-related parameters. By ingesting all the data into a single pipeline, Elasticsearch implements modern ML algorithms and AI models for predictive and prescriptive analytics. So, telcos can automate resource management, network slice sizing, fine tuning of QoS parameters, and other configuration management tasks, associated with network slicing.



Data Analytics



Turnkey automations



Operational efficiencies

Tapping opportunities with technology partnerships

Network slicing brings a unique opportunity for telcos to position themselves as service creators and/or enablers. Some of the most compelling use cases for network slicing (e.g., gaming, connected car driver assistance, on-demand live video streaming, extended reality applications) leverage the intelligent edge. Telcos can work closely with cloud providers and other technology partners to accelerate their network slicing implementation to serve this growing number of use cases to untap a significant slice from the edge pie.



The global edge computing market could reach \$43 billion by 2027.

At Elastic, we foster innovation and focus on building capabilities to make our users successful. A growing community of experts in networks, AI/M, cloud, app development, and security, can help telcos build network slices the way they want and customers will love.

To learn how to unlock the telecom value potential with Elastic, visit elastic.co/industries/telecommunications.