

The top half of the image features a blurred night city street with warm yellow and orange bokeh lights from buildings and street lamps. A large, white, stylized 'K' shape is superimposed over the right side of this image. In the top left corner, the word 'NOKIA' is written in a white, sans-serif font.

NOKIA

Supercharge your 5G network with automated network slicing

Use case

Network slicing is one of 5G's headline features, offering Communication Service Providers (CSPs) the ability to create highly customized virtual communications networks for subscriber and enterprise use. Whether to achieve low latency, high throughput or any other criteria, automated creation and validation of slices is vital to avoid costs and to guarantee business agility.

Challenge

5G allows CSPs to offer valuable new services to a wider range of customers. With increased intelligence and built-in flexibility, CSP networks are becoming platforms for creating digital value and for diversifying the CSP business.

In particular, CSPs can win fresh business from new kinds of enterprise customers by developing business models and revenue streams based on network slicing. This can take the form of a vertical network slice to support the needs of a specific enterprise customer, such as industrial automation for an automotive manufacturer, or a horizontal slice that applies to many different business types, like an optimized unified communications and collaboration network.

CSPs can best prepare for these opportunities by building a network automation platform as well as the 5G core capabilities that make slicing possible, and then putting in place systems that create network slices based on Service Level Agreements (SLAs). They will also need to identify practical use cases for different customers and create the SLAs that work for the associated services.

Solution

Regardless of how far along a CSP is in its virtualization journey, Nokia has the core products to suit. CSPs may be using a traditional physical network function (PNF), have progressed to a Virtual Network Function (VNF) in an ETSI NFV MANO context, or have already adopted a Cloud-native Network Function (CNF) in a webscale cloud context. Nokia's core solutions can be deployed for any of these approaches with the same business logic software.

Nokia also provides powerful capabilities for the creation, control and management of network slices. Nokia's high-performance 5G core supports network slicing as defined by 3GPP. In addition, automation capabilities provided by Nokia products such as Network Services Platform (NSP) and Nokia Digital Operations Center ensure CSPs do not incur unnecessary operational costs.

Benefit

- **SLAs are assured** - complex SLA-compliant services can be constructed across multiple, interacting clouds, data centers, and network segments accurately and quickly.
- **Dramatically reduced cost** - automated solutions need a fraction of the operational staff required to deliver a network slice manually.
- **Business acceleration** - quick turnaround from order to delivery of network services based on slices gives an improved order-to-revenue time. This in turn offers a better customer experience, improving the CSP's brand value. It also allows a quicker response to market changes.



Result

Automated delivery of network slices based on webscale technologies ensures that one of the most promising of 5G functions is delivered quickly and at the lowest cost. Nokia has the automation solutions to ensure CSPs can offer their customers the rapid, secure access they need, maintaining customer satisfaction and confidence while cutting their own costs to achieve revenue goals.

Discover more about how automated network slicing can open up new revenue opportunities for CSPs. Visit the [Nokia Core Automation website](#) today.



About Nokia

At Nokia, we create technology that helps the world act together.

As a B2B technology innovation leader, we are pioneering networks that sense, think and act by leveraging our work across mobile, fixed and cloud networks. In addition, we create value with intellectual property and long-term research, led by the award-winning Nokia Bell Labs.

Service providers, enterprises and partners worldwide trust Nokia to deliver secure, reliable and sustainable networks today – and work with us to create the digital services and applications of the future.

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