



# Observe your packet core performance

## Introduction

Communications Service Providers (CSPs) can capture new revenue opportunities by delivering diverse and exciting services. This requires a high-performing and reliable packet core that can be deployed without limitations and evolved with confidence on any cloud and using any access technology (2G/3G/4G/5G).

For CSPs to meet their business objectives and ensure their investments deliver valuable returns, the packet core must be able to report key performance and control indicators (KPIs/KCIs), as well as transactional, subscriber and network data and detailed network function logs.

## Challenge

To be useful, packet core data must have the right level of granularity, frequency of measurement and formats.

A comprehensive view enables deep analysis to reveal insights into packet core performance and utilization. This gives a CSP a detailed understanding of its packet core's operational characteristics, helping it to deliver a high-quality user experience and make effective business and network decisions.

Packet core observability leads to  
effective operations and monetization

# Solution

Nokia offers products that provide the key components of a webscale-class evolved packet core (EPC) and 5G core (5GC) network.

The Cloud Mobile Gateway (CMG) provides 2G/3G/4G and 5G core network gateway-related functions to support ever increasing numbers of users, devices and services.

The Cloud Mobility Manager (CMM) delivers the scalability, flexibility, high-availability and performance to meet growing network signaling loads for consumer mobile and Internet of Things/Machine Type Communications (IoT/MTC) services.

Nokia Cloud Network Resource Director (CNRD) provides 5G service-based architecture network function registration and assigns devices to network slices.

## Benefit

Nokia 5G Cloud Packet Core (CPC) provides key observability benefits for CSPs:

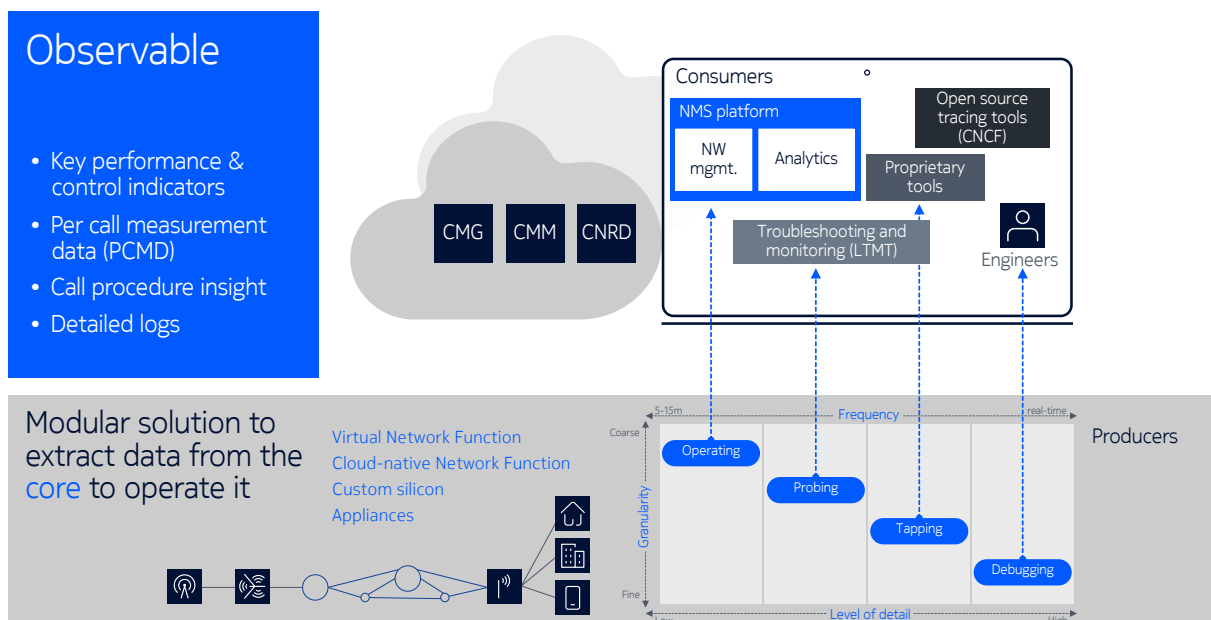
- Performance analysis - analysis of individual device sessions and behavior is enabled by packet core network function per call measurement data (PCMD) for detailed insights to help maintain service performance.
- Visibility at all levels - monitoring overall packet core network with per-interface and per-flow granularity enables CSPs to get ahead of issues.
- Openness - open cloud native computing foundation (CNCF) components can be used for easy logging, tracing and monitoring.

## Result

CSPs can use their packet core to optimize operations and perform detailed analytics to guide their business to profitability.

Discover more about how Nokia CPC allows CSPs to build a universal and adaptive core network.

Visit the [Nokia Cloud Packet Core website](#), read our [eBook](#) and [executive brief](#) for more information.



## 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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Nokia OYJ  
Karakaari 7  
02610 Espoo  
Finland  
Tel. +358 (0) 10 44 88 000

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