

SOLUTION OVERVIEW

Simplifying 5G Core deployments with validated solutions

Ericsson and Broadcom



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Simplifying 5G Core deployment with validated solutions from Ericsson and Broadcom

Rapidly advancing 5G technologies are reshaping how communications service providers (CSP) build networks and compete in the market. However, modernizing core network infrastructure to support 5G deployment presents significant challenges. Adopting modern 5G core solutions requires overcoming interoperability hurdles, managing diverse cloud-native network functions, and ensuring consistent automation and lifecycle readiness across multi-vendor platforms.

Ericsson and Broadcom help telcos build and expand cloud-native 5G core networks more efficiently and in less time.

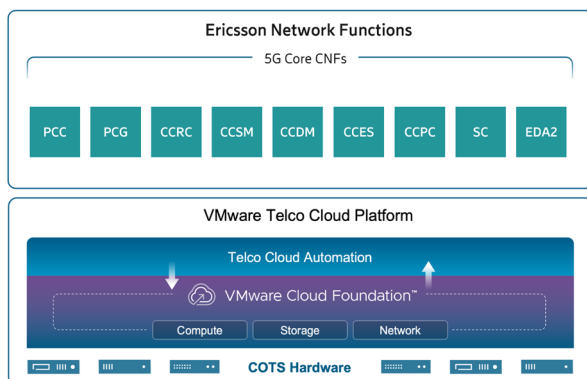
Partnership overview

Ericsson's 5G Core is a cloud-native platform that enables reliable connectivity and service management for a large variety of CSP use cases. It supports voice, video, and data services while ensuring quality through policy control and traffic management.

Broadcom's VMware Telco Cloud Platform, built on VMware Cloud Foundation (VCF), is a field-proven and industry-leading platform for CSPs. It is a horizontal platform that telcos and CSPs widely use to host, automate, and manage cloud-native functions (CNFs).

Ericsson and Broadcom have jointly validated Ericsson's 5G Core with VMware Telco Cloud Platform 5.0, combining engineering expertise across both organizations. VMware labs managed end-to-end deployment and automation integration, while Ericsson labs conducted solution-level testing under real network conditions. This validation effort on Ericsson's 5G Core CNFs with VMware Telco Cloud Platform 5.0 version includes the cloud-native network functions, cloud infrastructure and automation capabilities that CSPs need to build and scale their telecommunications network.

Figure 1: VMware Telco Cloud Platform with Ericsson Network Functions



Why this partnership matters

The joint validation between Ericsson and Broadcom empowers telcos to:

- Accelerate 5G rollouts by leveraging pre-tested configurations and automation workflows
- Reduce integration complexity through validated interoperability across the complete 5G Core stack
- Achieve consistent operations with proven lifecycle management and upgrade procedures
- Minimize deployment risk and total cost of ownership through production-ready reference configurations
- Operational readiness with validated performance, lifecycle resilience
- Seamless interoperability across CNFs with consistent automation and management
- Reliability at scale meeting the demanding standards of global service providers.

Key benefits

• Validated Interoperability for CNFs

This joint validation is a mission-focused collaboration with the goal that all components of the Ericsson 5G Core solution can be reliably deployed and operated on VMware Telco Cloud Platform.

• Simplify Network Management

Prebuilt lifecycle automation workflows help operators to rapidly instantiate, scale, and upgrade 5G Core components in response to evolving capacity demands, reducing the time and technical expertise required to perform these critical operational tasks.

• Increase Operational Efficiency

As the foundation of cloud-native 5G network this validation increases network efficiency to reduce both cost and energy consumption. Operators can significantly reduce operational expenses while improving infrastructure utilization.

• Our Long-Standing Partnership

Ericsson and Broadcom have worked together for more than five years on over 20 technical initiatives across core, IMS, and OSS/BSS domains. This partnership continues to drive ongoing investment in automation capabilities that simplify operations and ongoing architecture alignment designed to streamline partner deployments and reduce the operational burden on service providers.

Solution capabilities

To further support the Ericsson 5G Core solution's seamless integration with Broadcom's VMware Telco Cloud Platform a joint technical validation was conducted across both Ericsson and VMware environments. The validation activities emulated real-world service provider conditions, demonstrating the robustness of the solution under scale, failover, and lifecycle operations.

VMware and Ericsson validated solution:

• Onboarding readiness:

Both manual and automated workflows for CNF package import, resource allocation, and service chaining were validated for consistency and reliability.

• Infrastructure compatibility:

Testing across VMware core components (e.g. NSX, ESXi, vCenter) ensured smooth integration and operational alignment.

• Performance and resiliency:

CNFs were evaluated under scale-out and failover scenarios, validating system robustness in demanding environments.

• Operational automation:

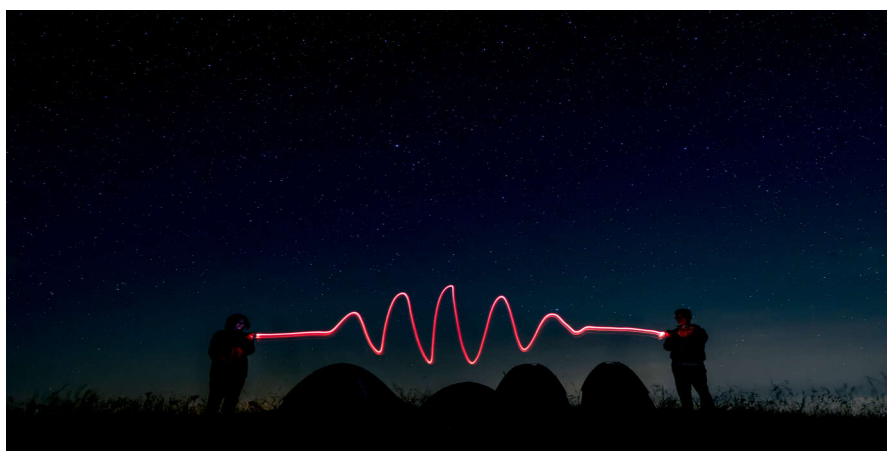
Leveraging VMware Telco Cloud, template-driven instantiation and full lifecycle management of CNFs were verified to simplify operations and reduce overhead.

For more details on joint collaboration between VMware and Ericsson, please visit [VMware Ready for Telco Cloud Program](#) site.

Real-World Impact for CSPs

Through this joint validation, Ericsson and VMware confirmed the 5G Core solution aligns with CSP requirements for reliability, interoperability, and lifecycle flexibility while reducing integration complexity and deployment risks.

Ericsson 5G Core is offered as a set of product components, each validated on VMware Telco Cloud Platform 5.0. These components provide the building blocks for 5G Core deployment and related assets such as reference configurations or deployment guides.



Ericsson 5G Core components	VMware Telco Cloud Platform 5.1 components
• PCC 1.35 Packet Core Controller • PCG 1.27 Packet Core Gateway • CCRC 1.17 Cloud Core Resource Controller • CCSM 1.14 Cloud Core Subscription Manager • CCDM 1.13 Cloud Core Data-Storage Manager • CCES 1.17 Cloud Core Exposure Server • CCPC 1.16 Cloud Core Policy Controller • SC 1.16 Signalling Controller • EDA2 2.20 Ericsson Dynamic Activation	• VMware vSphere 8.0U3 • VMware vCenter 8.0U3 • VMware NSX 4.2.1.3 • VMware vSAN 8.0U3 • Tanzu Kubernetes Grid (TKG) 2.5.2 • Telco Cloud Automation (TCA) 3.3

Get Started

The successful validation of Ericsson's 5G Core on VMware Telco Cloud Platform provides CSPs with a production-ready, jointly validated solution backed by proven interoperability and operational readiness.

This collaboration demonstrates the viability of modern 5G core architectures built on cloud-native technologies and horizontal infrastructure platforms.

Learn more about our long-standing partnership by contacting your Ericsson and Broadcom account teams today.