

Ericsson Service Orchestration and Assurance on Dell Telecom Infrastructure

Empowering Modern Infrastructure: How Dell Technologies, Ericsson, and Red Hat Drive Advanced 5G and Beyond Networks

Step-by-step evolution towards autonomous operations



Ericsson and Dell collaborate to offer CSPs a de-risked path to deploy and operate modern Service Orchestration and Assurance.

Hosted by Dell Telecom Infrastructure Blocks, the Ericsson Service Orchestration and Assurance solution equip Communication Service Providers (CSPs) with a multi-domain, multi-technology platform enabling service orchestration and assurance spanning access, transport and core domains.

- **Accelerated 5G Deployment:** With pre-integrated end to end solutions including Ericsson Service Orchestration and Assurance on Dell Infrastructure Blocks.
- **Enhanced Operational Efficiency:** Pre validated and tested solution with automation resources simplify network operations.
- **Future-Ready Flexibility:** Cloud-native, modular design supports scalable and adaptable network architectures.
- **Collaborative Support Model:** Ensures seamless vendor management, and faster issue resolution.

Accelerate Service Innovation and Advance Toward Autonomous Networks with Ericsson Service Orchestration and Assurance on Dell Infrastructure

Dell Technologies and Ericsson are redefining network modernization through a strategic partnership that empowers Communication Service Providers (CSPs) to accelerate 5G deployment and deliver solutions that address today's connectivity demands, while paving the way for tomorrow's opportunities.

By combining Ericsson's AI-driven OSS/BSS capabilities with Dell's pre-integrated, engineered infrastructure, this joint solution directly addresses the complexities of telecom's disaggregated networks and cloud-native deployments. This collaboration offers CSPs a de-risked path to network modernization, ensuring interoperability between the different layers, reducing time-to-market, and delivering a stable, automated foundation for future revenue generation.

Horizontal platform to host different workloads: Container-based architecture eliminates the rigid boundaries between network functions, creating a unified platform. This enables telecom operators to deploy, scale, and update services more efficiently, while reducing operational complexity and improving resource utilization across diverse workloads.

Accelerating Innovation: By providing a stable, flexible, and scalable cloud-native foundation, the joint solution empowers CSPs to develop and deploy a wide range of advanced 5G services.

Reducing Risk and Driving Cost Efficiency: co-engineered and validated with Red Hat and Ericsson - reducing risk and speeding time to value. Continuous integration validation reduces operational complexity and enables economies of scale.

Enabling Cloud-Native Operations: Horizontal networks apply cloud-native principles, delivering the agility and scalability that revolutionized enterprise IT to telecommunications networks.

This strategic transformation positions CSPs to respond quickly to market demands, deliver personalized services, and create new revenue opportunities in the 5G era. Ericsson Service Orchestration and Assurance on DTIB leverages a pre-integrated, factory-validated stack. This solution hosts Ericsson's intelligent orchestration software on Dell's co-engineered hardware and Red Hat OpenShift Container Platform. By removing infrastructure silos and automating the lifecycle management of the entire stack, the solution transforms a complex multi-vendor environment into a unified, turnkey platform. This allows operations teams to shift focus from infrastructure maintenance to service innovation and revenue capture.

Ericsson Service Orchestration and assurance and Dell Telecom Infrastructure Blocks for Red Hat: A streamlined Integration for faster deployment and agile operations

At the heart of our collaboration is the integration of Ericsson's industry-leading Service Orchestration and Assurance solution, integrated with Dell Telecom Infrastructure Blocks.

Agility and Automation at Scale

The solution dramatically reduces deployment timelines from months to weeks¹ through comprehensive blue-print driven orchestration and automation. Infrastructure-wide automation eliminates manual interventions, reducing human error and freeing technical teams to focus on innovation rather than routine tasks. Utilizes Red Hat OpenShift Operators (ACM, GitOps, Fault Manager) to provide a centralized view of the network, streamlining Day 2 operations and observability.

Seamless System Integration

Every component—from our best of breed telecom optimized Dell PowerEdge servers to Red Hat OpenShift Container Platform and Ericsson's Service Orchestration and Assurance is validated as a unified solution. Continuous end to end system verification, Life Cycle management and updates mitigate risk and ensure consistent performance.

Continuous Integration/Continuous Deployment (CI/CD)

The solution supports agile deployment of new use cases, ensuring the network remains current with the latest software verification from both Ericsson and Dell.

Future-Ready Flexibility

Built on cloud-native architecture, Red Hat Open Shift, the solution scales with emerging network needs. Modular design enables CSPs to adapt quickly to shifting market demands without major infrastructure overhauls.

How the Solution Works in Practice

Ericsson's Service Orchestration and Assurance solution runs on the Dell Telecom Infrastructure Blocks for Red Hat - a fully integrated horizontal telco cloud stack executed on Dell Power Edge telecom-optimized servers. The built-in automation capabilities enabled by Dell Telecom Automation Suit (DTIAS) in coordination with Ericsson End to End automation, simplify the deployment, operations, and life cycle management of the network. This cloud-native foundation enables CSPs to leverage pre-built blueprints specifically designed and engineered for Ericsson Service Orchestration and Assurance solution, enabling faster and more reliable deployment and operations.

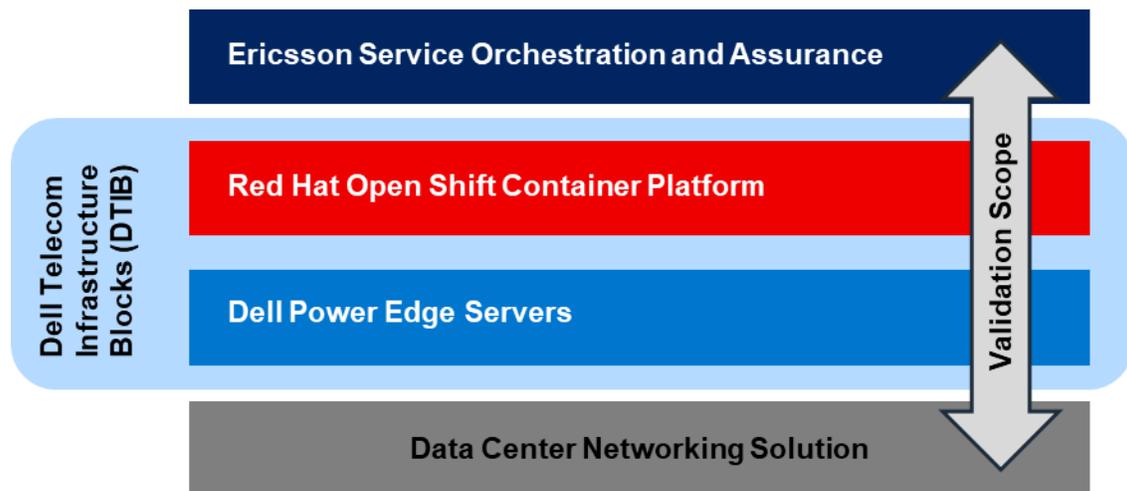


Figure 1: Ericsson Service Orchestration and Assurance on Dell Telecom Infrastructure Blocks for Red Hat

Dell Telecom Infrastructure Blocks provide an automated, validated, and continuously integrated foundation for deploying and managing disaggregated, cloud-native networks. It allows CSPs to obtain the benefits of an open ecosystem with the ease of working with a single end-to-end integrated solution.

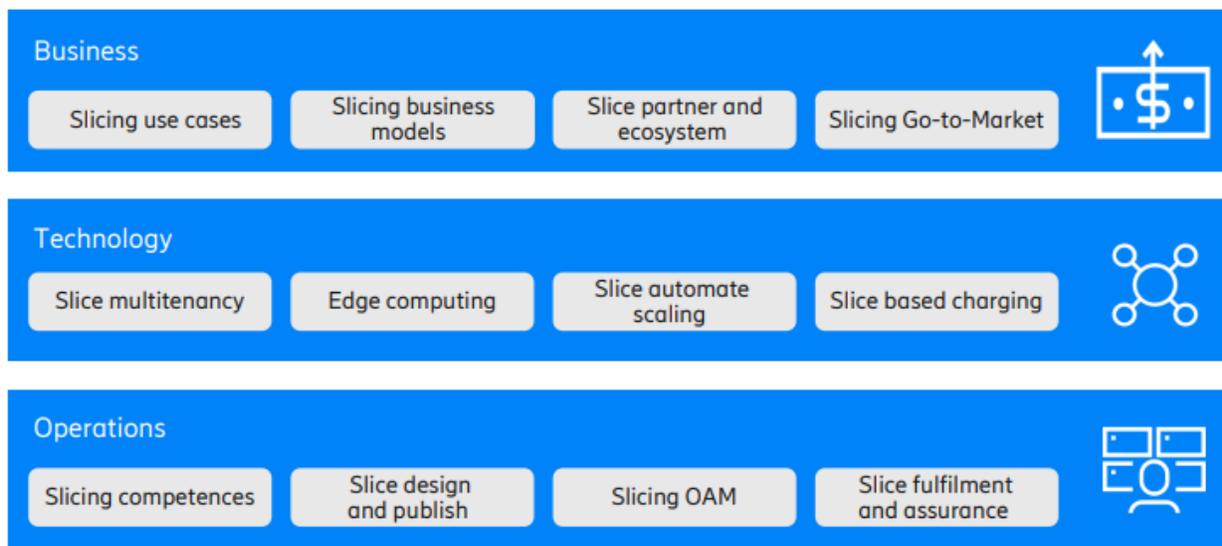
The Ericsson Service Orchestration and Assurance on Dell Telecom Infrastructure Blocks for Red Hat provides a scalable, automated network infrastructure for agile deployment and operations of 5G multi-domain-services at scale.

Dell Infrastructure Blocks are engineered systems that have been designed and validated with our cloud software partners and are integrated at Dell's factory. They include automation that streamlines the deployment and lifecycle management of the telco cloud stack. And they are backed with collaborative support from Ericsson, Dell Technologies.

Telecom Infrastructure Blocks for Red Hat are based on Red Hat OpenShift and Advanced Cluster Management for Kubernetes and include Dell Telecom Infrastructure Automation.

Overview of the Ericsson Service Orchestration and Assurance Solution

Multi-domain service orchestration and assurance open doors to providing advanced 5G services effectively, spanning across applications and network domains. With Ericsson Service Orchestration and Assurance, CSPs can now design new services with ease, accelerate service creation and lifecycle management, and close the loop with automation.



Source: Ericsson

Figure 2: Overcome complexities with E2E service automation

The Ericsson Service Orchestration and Assurance Solution, powered by Dell Infrastructure Blocks, offers a distinct set of advantages tailored to meet Communication Service Providers' (CSPs) needs:

It empowers CSPs to deploy and scale high-performance networks while optimizing Total Cost of Ownership (TCO), enabling an agile, purpose-built operational model.

This solution allows customers to launch innovative use cases, unlock new revenue streams with ease, and accelerate time-to-market without added complexity.

A joint Support Model for Peace of Mind:

Supporting a multi-vendor stack can be challenging for CSPs, particularly when troubleshooting issues across various technology layers. The Dell and Ericsson solution is backed by a collaborative support model, providing telecom operators with a single, trusted point of contact for assistance across the full integrated solution.

Dell and Ericsson's coordinated support ensures faster issue resolution, eliminating the friction that can occur in siloed, multi-vendor environments. This collaborative approach enables CSPs to maintain the stability and performance of their vital infrastructure, while focusing on delivering superior services to their subscribers.

Transformative Benefits for CSPs

The integrated solution delivers measurable business outcomes that extend far beyond technical performance metrics.

Accelerate the adoption of new technology. We help CSPs by streamlining design, testing, deployment and management of 5G telco cloud architectures. This means CSPs will be able to fast-track innovation and competitive differentiation. This speed-to-market advantage is crucial in competitive markets where early 5G service availability drives customer acquisition and retention.

Minimize risks with our comprehensive approach: not only do we test and validate the Ericsson Service Orchestration and Assurance solution on Dell Infrastructure Blocks for the Red Hat stack, but we also conduct continuous integration and lifecycle verification to ensure long-term compatibility and support.

The Dell Telecom Infrastructure Automation Suite's advanced automation capabilities, combined with Ericsson's end-to-end automation, deliver a fully automated, orchestrated, cloud stack. This powerful synergy enables CSPs to simplify operations, reduce complexity, and accelerate cloud deployments.

Enhanced Operational Efficiency

The Ericsson Integrated Core on Dell Infrastructure Blocks has undergone comprehensive end-to-end validation, covering aspects such as interface compatibility, end-to-end automation, and lifecycle management. This ensures streamlined operations and minimizes the time required for proof of concept, configuration, and network testing and verification. These efficiencies lead to lower operational costs and enhanced service quality.

Scalable solution

The solution minimizes downtime, reduces resource requirements, and supports efficient multivendor network expansions, enabling faster return on investment. CSPs can scale their infrastructure in response to demand without proportional increases in operational complexity.

Superior Customer Experiences

The combination of high-performance infrastructure, advanced automation, and unified support enables CSPs to deliver dynamic, responsive services. Network slicing, edge computing, and other advanced 5G use cases can be deployed quickly and reliably, creating new revenue opportunities and improving customer satisfaction.

Your Path Forward

Ericsson Service Orchestration and Assurance on Dell Infrastructure Blocks represents the future of telecommunications operations. By replacing manual complexity with automated, pre-integrated precision, we empower CSPs to stop managing infrastructure silos and start monetizing their networks.

We invite you to engage with our solution architects to schedule a technical workshop or a lab tour at the Open Telecom Ecosystem Lab. Let us demonstrate how this partnership can accelerate your digital transformation while safeguarding your operational stability.

Further reading:

[Dell Telecom Infrastructure Blocks](#)

[Ericsson Service Orchestration solutions](#)

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