

Certification on Dell Telecom Infrastructure Blocks Program

Summary

Accelerate the deployment of 5G workloads with confidence through certification on Dell Telecom Infrastructure Block solutions.

Speed up 5G deployments - Get to market faster.

Deliver collaborative innovation and differentiation - Enhance customer experience.

Bring confidence in how workloads perform - Reduced support and engineering cost.

Certification Program Overview

The Dell Technologies Telecom Certification Program is a specialized initiative designed for Network Equipment Providers (NEPs) and Independent Software Vendors (ISVs). Its primary goal is to ensure that software seamlessly integrates and performs optimally on Dell Technologies Telecom Solutions. Leveraging industry standards, the program seamlessly integrates and optionally performs workload functionality validation, addressing communication service provider expectations for solution interoperability. Moreover, it goes beyond software testing by ensuring full stack deployment readiness. This involves meticulous alignment between the latest Dell hardware and Container-as-a-Service (CaaS) configurations, all within an environment that closely simulates operator production labs. By proactively maintaining certification for the most up-to-date telecom solutions, Dell accelerates customer acceptance of new releases, fostering innovation and reliability in the telecom landscape.

Dell Technologies certification program unlocks telecom excellence with Dell Technologies Certification through:

- **Accelerating Solution Readiness:** Our program ensures that telecom partners network functions workloads seamlessly integrate with the latest telecom infrastructure. Leveraging the resources of the Open Telecom Ecosystem Lab (OTEL) and automated testing tools, we validate performance, interoperability, and deployment readiness. Solutions hit the ground running, saving time and effort.
- **Exploring New Revenue Avenues:** By demonstrating acceptance against customer requirements, telecom partners gain a competitive edge, expose solutions to both new and existing customers, and opening doors to revenue growth. Dell's certification becomes a trusted badge of quality.
- **Boosting Market Acceptance:** Certification fosters alignment between partners and Dell Technologies. Through joint efforts, we build awareness and grow consideration for future opportunities. Telecom partner solutions become part of a thriving ecosystem, gaining market traction and acceptance.

Certification on Telecom Infrastructure Blocks

Dell Technologies Certification on Dell Telecom Infrastructure blocks is a program for NEPs and ISVs to certify their 5G Core, OSS, BSS, vRAN, or Open RAN telecom software workloads on Dell Telecom Infrastructure Blocks. The Certification is executed with easy access to Dell Technologies production-grade OTEL using the latest PowerEdge hardware, silicon leveraging the latest test and measurement tools. The certification testing focuses improving overall stability and reliability of certified workloads.

A Dell Telecom Infrastructure Block is a foundational building block for a Telecom Multicloud Foundation based telco cloud that is designed to streamline the configuration and delivery of cloud infrastructure. It consists of validated Dell server hardware for targeted use cases along with software licenses for components of the Dell Telecom Infrastructure Automation Suite and our cloud platform partner's software. Each infrastructure block is co-engineered with our cloud platform partners, Red Hat and Wind River, to meet the requirements of a specific use case across a range of scale points reducing the time operators must spend planning and designing infrastructure to meet current and future workload requirements. It also simplifies procurement process by offering pre-packaged solutions direct from the Dell factory optimized to meet an operator's use case and scale requirements.

Dell Technologies provides factory integration to reduce the time, cost, and risk of infrastructure design and deployment. Dell was a pioneer in the development of build-to-order processes. Its world-class supply chain and configuration centers can perform many of the manual system integration tasks typically completed on site. By performing this work at the Dell factory, we can reduce the time and cost of infrastructure design, validation, and deployment. By validating this work in the factory, we can minimize the potential for configuration errors due to manual processes performed on site. To further simplify this process, Dell will leverage its own world-class professional services combined with that of its cloud software platform partners to deliver custom services that help our customers integrate Infrastructure Blocks into a Telecom Multicloud Foundation based cloud.

For telecom partners, certification on Dell Telecom Infrastructure Blocks helps reduce the risk of errors, failures, and vulnerabilities that could compromise the quality and reliability of CSP networks. Additionally, it de-risks the telecom partner technology deployment with workloads certified to work on purpose-built Infrastructure Blocks which are funded & maintained by Dell. This certification helps telecom partners by delivering faster time to revenue as Dell is taking responsibility to recertify workloads to ensure alignment with Telecom Infrastructure Blocks major releases and latest Dell PowerEdge servers for telecom.

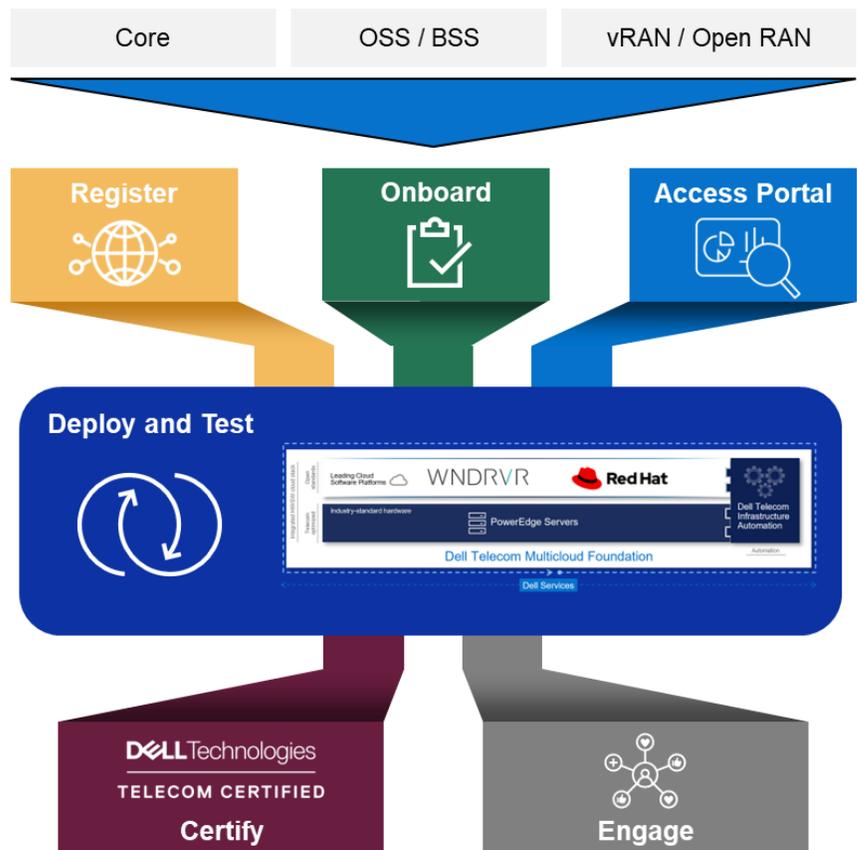


Figure 1: Dell Certification in Telecom Infrastructure Blocks Overview

Certification Test Lines and Test Execution

To execute certification, specific Telecom Infrastructure Blocks test lines are established in OTEL. This certification program leverages OTEL's hybrid connectivity model which allows telecom partners and CSP to securely extend their lab into OTEL from anywhere on the world. Participating in certification can be completed virtually and does not require the participant to travel to conduct the certification execution. Using OTEL gives NEPs and ISVs the ability to validate their software with access to latest Dell Technologies and partner ecosystem hardware platforms. OTEL supports multi-vendor system integration at scale, cloud operations modeling, multiple test-line configurations and user-defined validation at varying scope.

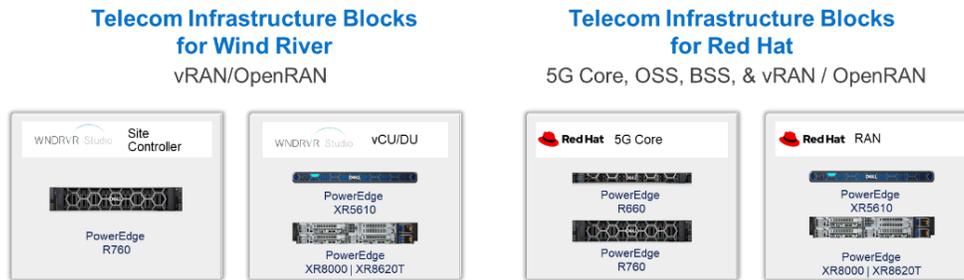


Figure 2: Certification Test Lines

Certification testing focuses on workload application integration on a Telecom Infrastructure Blocks cloud native solution based on 3GPP test cases. The testing centers on the specific workloads supplied by the telecom partner solution. Test scenarios cover 5G Core, OSS, BSS, and vRAN / Open RAN telecom workloads. OTEL has the capability to simulate any other interfaces needed to conduct certification with the partners under test. For example, if a telecom solution under certification consists of 5G Core function elements related subscriber management and billing and includes Authentication Server Function (AUSF), Subscription Management Function (SMF), and Unified Data Management (UDM), all other 5G Core network functions (e.g. user plane function, subscriber data and storage functions, signaling functions), are simulated to execute the certification testing.

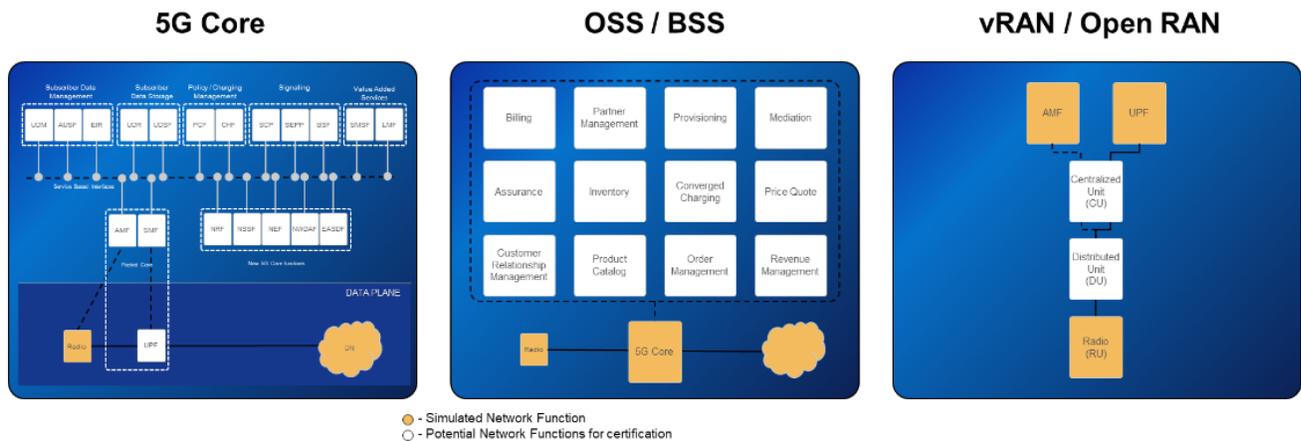


Figure 3: Certification Test Scenarios

Certification Completion

When a telecom partner has successfully completed certification, the partner is issued the Dell Technologies Telecom Certified badge which can be used in sales and marketing material to designate their successful completion of the certification program. Additionally, telecom partners can choose to continue to be engaged in OTEL and re-certify their solutions using the same certification process as new version of their software become available. Certification has been designed to be past and future proof with telemetry information that shows baseline of previous test results and compare the baseline with new software.

Start Your Journey

Dell has established a lightweight process for onboarding new partners. It includes the registration process, establish lab access agreement, assigning user credentials and setting up VPN Access, as well as working with the telecom partner on establishing the environment setup and tests to validate the workload under certification. To learn more about our Dell Certification on Telecom Infrastructure Blocks program, see the portfolio of NEPs and ISVs that have successfully completed certification, or register to start your journey to become Dell Technologies Telecom Certified, visit our [Certification on Telecom Infrastructure Blocks internet page](#).



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