

Dell Virtual Edge Platform

Energize your edge with the one platform that runs virtually everything

The future of mobility and edge computing has yet to be written. Use cases such as IoT-enabled smart factories and autonomous cars are just the beginning. By 2030, [analysts](#) predict that new communications services will generate \$1.5 trillion in new revenue for Internet and communications technology companies; much of that from services that haven't even been created yet, but which will leverage the power, speed and agility of edge computing in exciting ways.

Communications service providers (CSPs) have a unique opportunity to help businesses build the next generation of edge services. This will mean providing both the connectivity and technology that power those services, particularly at the network edge where new applications can be quickly delivered, deployed, and secured. Communications service providers can support the edge services of today and tomorrow with Virtual Edge Platform (VEP).

Optimizing the edge for agility

Edge services will have unique requirements for latency, security, capacity, and flexibility. Traditional, appliance-based edge solutions are costly to deploy and scale, complex to manage, and limit both agility and innovation. VEP technology replaces multiple appliances with a single, universal Customer Premise Equipment (uCPE) platform that can host multiple, virtualized services including SD-WAN, next-generation firewalls, virtualized network functions (VNFs), and much more. By shifting edge services from standalone appliances to a standards-based Intel server architecture, VEP enables business to quickly deploy, scale, and manage edge resources for optimal agility and performance.

[Independent research](#) shows that a Virtualized Edge Platform can reduce total cost-of-ownership by 39% over a three-year period. More importantly, VEP uCPE platform can be deployed in days rather than weeks or months, with no truck rolls or lengthy integration processes required. This allows enterprises to easily add, scale, orchestrate, and automate services at the edge using a cloud-friendly architecture that can support WAN functions, security functions, and more - all on a single platform.

The enterprise case for uCPE

By offering enterprise customers a managed uCPE solution, CSPs can help enterprises leverage edge technology in their business while reducing costs and improving performance. Research shows that enterprises have high expectations for their uCPE platform. They want a solution that supports open standards, runs natively in the cloud, provides broad integration with multivendor software solutions, and offers zero-touch deployment for maximum agility. VEP meets all these requirements and adds a wide ecosystem of pre-validated partner solutions that make it simple for enterprises to get started.

With standalone edge appliances, it can take as long as 18 months to modernize network services for a large enterprise. Adding new network services on a VEP can be done in days. While SD-WAN and security solutions are the most common use cases for uCPE platforms today, new technologies such as artificial intelligence (AI), machine learning, and IoT are also well suited for uCPE platforms. With Dell's proven VEP technology, CSPs can help their enterprise customers modernize in place, whatever the future holds.

Solution Highlights

Dell Virtual Edge Platform helps communications service providers meet the needs of enterprises large and small as they bring their cloud journey closer to their business.

With Dell Virtual Edge Platform, communications service providers have a powerful solutions that offers:

- A future-ready, cloud-friendly foundation for edge-based services built on a standards-based Intel architecture
- Validated software solutions from leading technology partners that accelerate edge deployments and drive business agility
- A consolidated, cloud-inspired approach to the edge that enables enterprises to reduce costs and complexity in their network
- A trusted solution backed by Dell Technologies' legendary support, services, and secure global supply chain

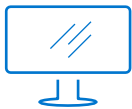
Virtual Edge Platform Series

Dell offers two purpose-built VEP series servers that can be deployed in a wide range of enterprise environments. The VEP4600 series is a high-performance platform that combines powerful processing with simple, remote management. The VEP1400 series features a small form factor suitable for remote offices and other environments where space is limited. Both the VEP1400 and VEP4600 feature enterprise-class security, active upgrades, support for a wide range of virtualized software solutions and Dell Technologies' legendary service.

The VEP1400 and VEP4600 series enable a single hardware platform to be used for multiple networking applications. As requirements change, customers can change or add more functions without a forklift upgrade to maximize the investment in the edge. And, of course, CSPs and their enterprise customers can count on Dell's lifecycle support, services and secure global supply chain -- because modernizing in place should never mean standing still.

Summary

Virtual Edge Platform (VEP) delivers a trusted solution for enterprise modernization at the edge. Available in both high-performance and small form-factor designs, VEP combines industry-leading performance and value with an Intel-based architecture that supports the cloud and a wide variety of partner solutions. For telecommunications operators, the VEP series represents the best managed edge solution for enterprises that need to modernize in place by moving to virtualized edge services.



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