DELLTechnologies

Federal

Tactical Edge as the Catalyst for the Next Generation of AI

The Edge is where the mission happens.

In the rapidly evolving landscape of technology, edge computing is redefining data processing. The tactical edge represents the forefront of this transformation, enabling real-time data generation and consumption far from centralized data centers. This shift changes how data is processed, and decisions are made, with industries and governments increasingly relying on instantaneous insights. The edge of operations is pivotal for the next generation of artificial intelligence (AI) to thrive.

While traditional data centers and cloud environments continue to play a vital role in large-scale data storage and processing, the increase in data generated at the edge necessitates localized computing power. This trend is evident in both federal and commercial sectors, where processing data at the point of origin leads to faster, more informed decisions.

In order to facilitate the development of these Edge AI capabilities Dell Technologies has developed an end-to-end AI enterprise solution integrating Dell's compute, storage, client device, software and services capabilities with NVIDIA's advanced AI infrastructure and software suite, all underpinned by a high-speed networking fabric.
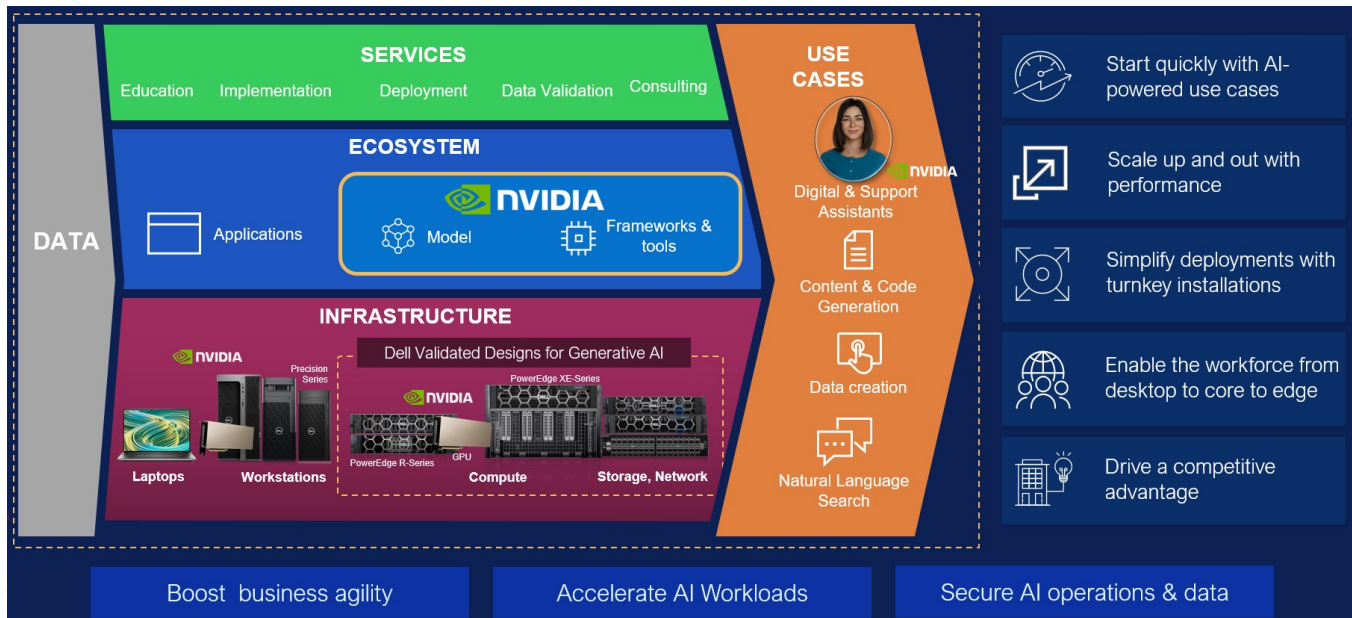
AI at the Edge Advantages

- Reduced Latency: Local data processing minimizes the time required for data transmission.
- Enhanced Security: Keeping data closer to its source reduces the risk of interception and breaches.
- Improved Operational Resilience: AI systems can function autonomously in environments where connectivity to central networks may be unreliable.
- Operational Efficiency: AI can handle the "three Vs" of data—volume, velocity, and variety—enabling real-time decision-making.
- Optimized Workloads: AI models deployed at the edge can process data specific to the operational environment.

Strategic Edge   Command Edge   Operational Edge   Tactical Edge

Tactical Edge: Catalyst for the Next Generation of AI

Dell AI Factory with NVIDIA
The AI innovation framework to accelerate business use cases at scale

Accelerate Your AI Journey

Dell AI Factory with NVIDIA is the industry's first end-to-end AI enterprise solution integrating Dell's compute, storage, client device, software and services capabilities with NVIDIA's advanced AI infrastructure and software suite, all underpinned by a high-speed networking fabric. Delivered as a fully integrated solution, Dell AI Factory with NVIDIA takes advantage of rack-level design, with rigorous testing and validation to deliver a seamless solution for transforming data into valuable insights and outcomes. This solution also leverages existing offerings in enterprise data security with accompanying Dell services offerings in security and privacy.

Key Benefits

Start Small and Grow
Identify your Edge use cases, validate them within the AI Factory and scale to meet the mission

Pay as you Go Flexibility
Dell APEX subscriptions, enabling enterprises to rapidly adopt AI solutions by bringing AI to enterprise data without extensive upfront investment.

Extensive Ecosystem
Dell has partnered with a wide array of industry leading partners to enhance the capabilities to develop the AI solutions that meets the mission needs.

Discover how Dell Technologies can modernize your infrastructure and advance your initiatives. Visit us at **Dell.com/Federal**, email us at **DellFederalSales@federal.dell.com** or call us at **855-860-9606** to learn more.

> **Dell Technologies is a trusted partner to U.S. government and Department of Defense agencies. Our focus is on delivering end-to-end solutions that leverage Dell cutting-edge infrastructure platforms, transformative technologies and our global partner ecosystem while keeping sustainability and security as our top priorities.**

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