Retail Banking: How Edge Networking Can Help Accelerate Innovation

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Agenda

- Acceleration of Digital Transformation

- Legacy Infrastructure Bottleneck

- Modern Environments are Required

- The Value of an Open Universal Edge Services Platform

- Enabling Banking Transformation

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Digital Transformation in Banking Industry

Transformation Maturity

18% cite mature digital transformation initiatives 68% are in process or just beginning

Goals of Transformation

62% Become more operationally efficient

47% Develop new and innovative products and services

41% Develop new data-centric products and services

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Digital Transformation: Branch of the Future

1. Visual & Proximity Loyalty Mgmt
2. Visual & Proximity Loyalty Mgmt
3. Visually Aware Self Service KIOSK
4. Visually Aware Service KIOSK
5. Quick Service Counter
6. Visual Chatbot screen
7. Personal Banking/Teller
8. Virtualized Service Terminal
9. Virtual Banking Expert
10. Customer Aware Signage Wall
11. Corporate Collaboration
12. Intelligent Operation room with Server
13. Visual Inventory Management, Security & Surveillance
14. Visual Inventory Management, Security & Surveillance
15. Drive through ATM/Kiosk

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Transformation is driving complexity

Complexity
83% cite IT environment is more or significantly more complex than 2 years ago

**Top reasons for complexity include:**

- 52% Increase in remote workers (call centers)

- 42% Changing cybersecurity landscape and new data security and privacy regulations

- 48% Higher data volumes and DX initiatives (new services)

Organizations require a platform that enables innovation

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Legacy Technology Hinders Innovation

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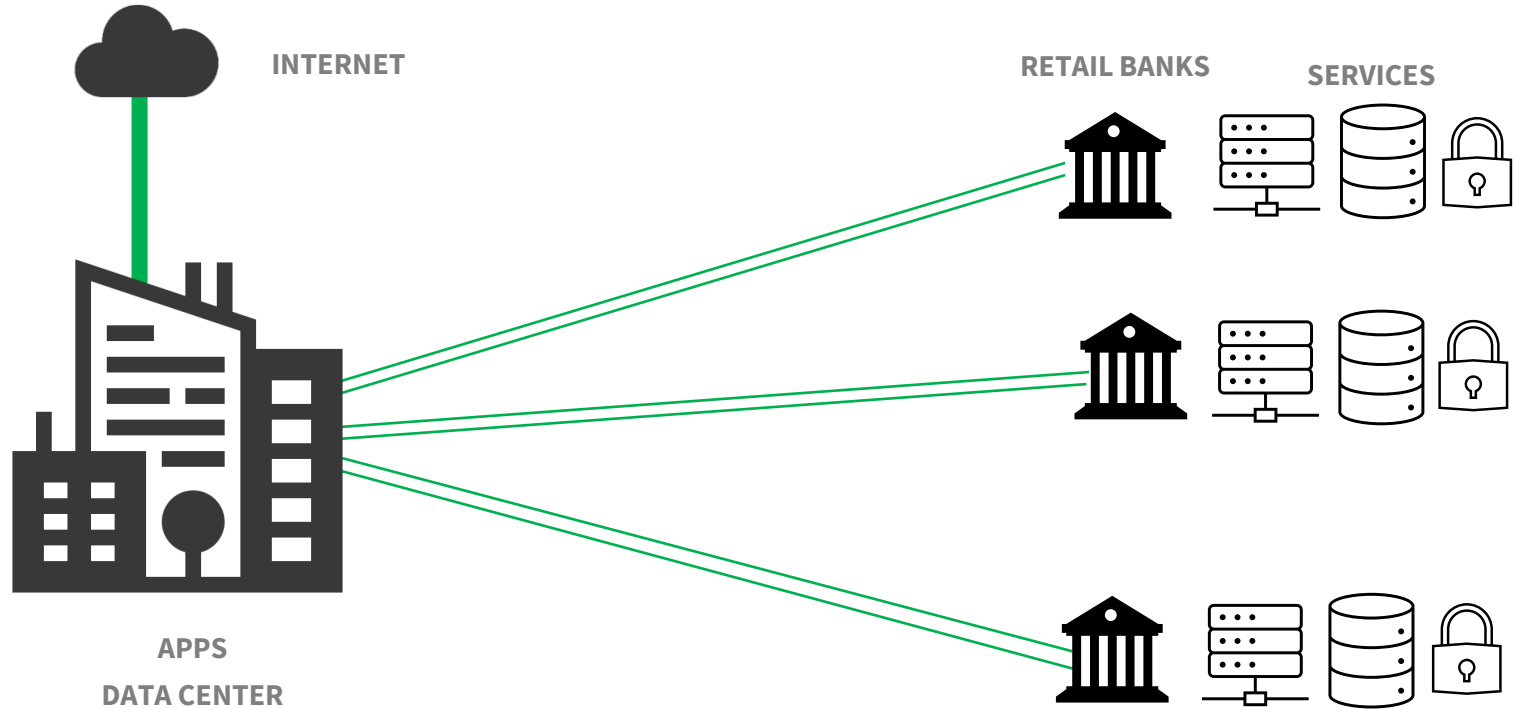
Modern Platforms Drive Innovation

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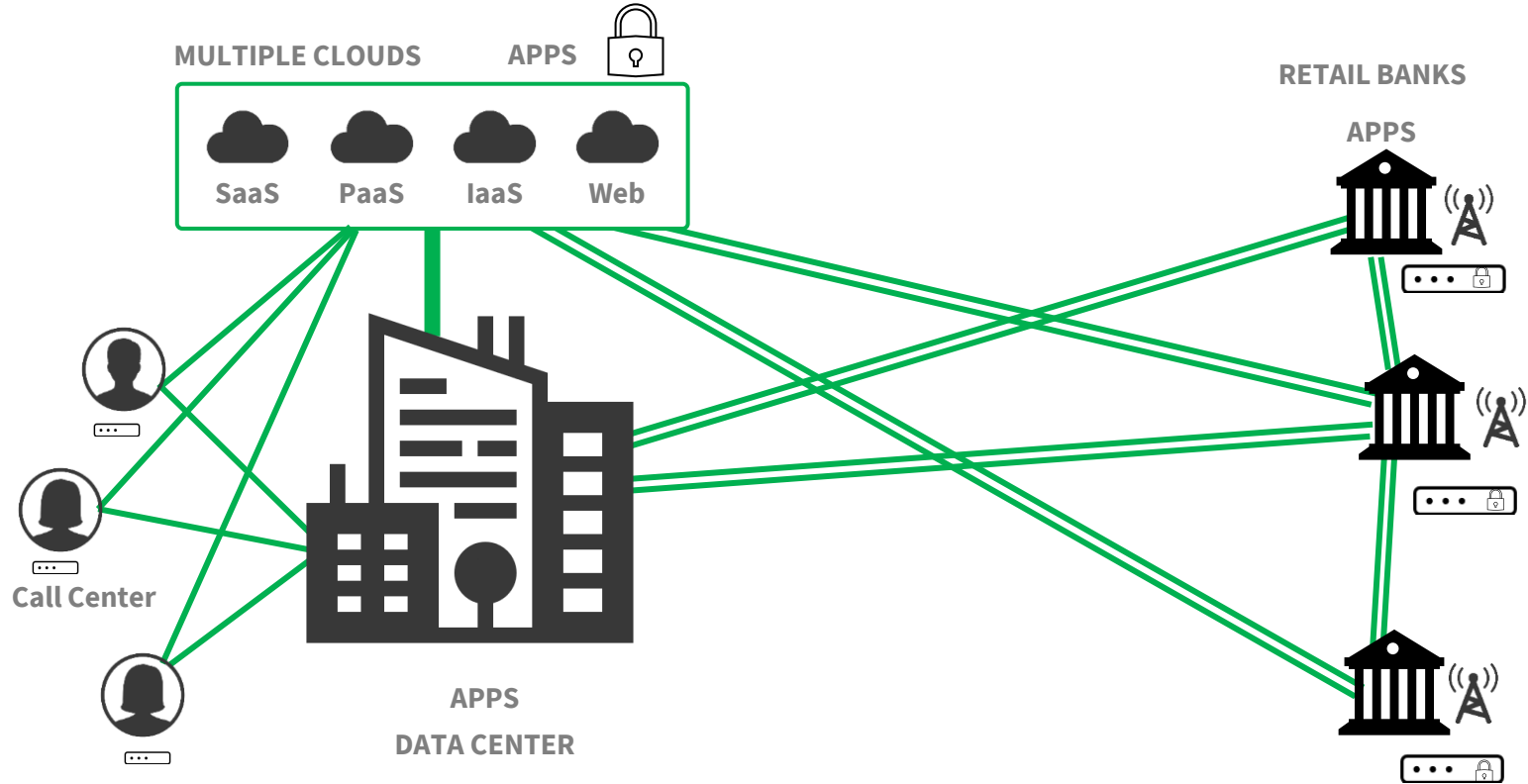
Open, universal edge services platform
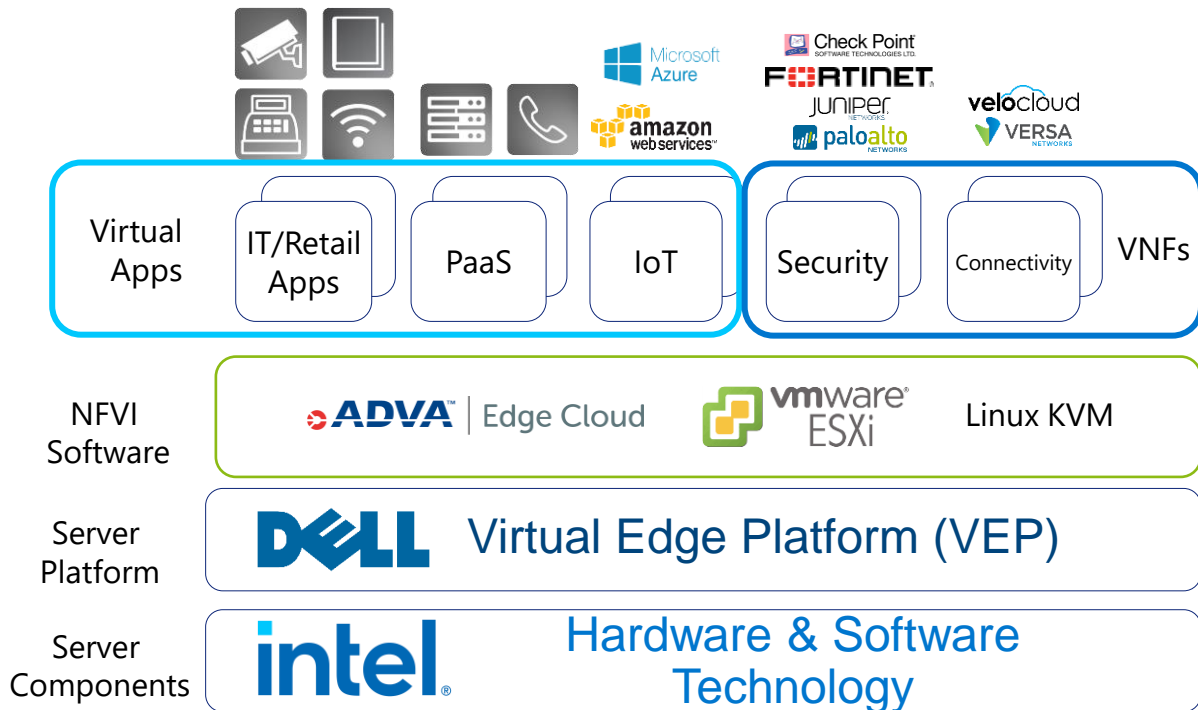
NFVI hardware
- Variety of hardware options
- Includes operator-chosen vendors

NFVI software
- Network OS convergence layer between VNFs and COTS platforms
- Common platform for edge cloud
- Common security and encryption
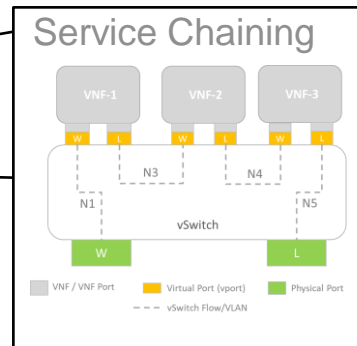- Common method to deploy and manage NFV services

Virtual Apps and Functions
- Multiple options per function
- Multiple functions
- Customer functions

Virtual Apps	IT/Retail Apps	PaaS	IoT		Security	Connectivity	VNFs

NFVI Software — ADVA Edge Cloud | vmware ESXi | Linux KVM

Server Platform — DELL Virtual Edge Platform (VEP)

Server Components — intel Hardware & Software Technology

Choice of platforms and choice of apps on the platform

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Dell Virtual Edge Platform

"...the cloud in a box"
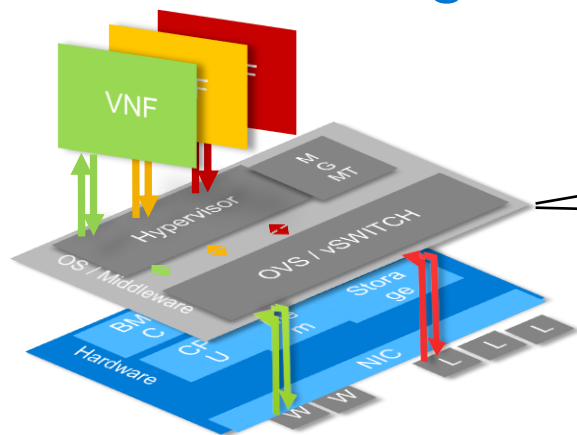
Dell Virtual Edge Platform Highlights

Hardware	Technology	Software	Integrations	Support
• Hardware consolidation through virtualization – multiple options • Common hardware infrastructure with common deployment. • Reduces truck rolls and streamlines operations.	• Intel® Quick Assist Technology (QAT) for encryption offloading and acceleration. • Data Plan Development Kit (DPDK) and Single Root-I/O Virtualization (SR-IOV) for performance enhancement • Trusted Platform Module 2.0 on the box providing hardware-based, security-related functions	• Intel Software Guard Extensions (SGX) on Roadmap • Open and Flexible VNF options - SD-WAN, Security, etc More details in VNF library	• BMC for hardware management, monitoring and BareMetal zero touch provisioning	• Global Dell EMC supply chain • ProSupport - Range of support models to meet the business and budget requirements • Dell Financial Services™ - One-stop financing for hardware, software, and services

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Dell VEP Advantages

Simplicity & Agility

Performance & Efficiency

Trust & Scale

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AI Chatbot and Audience Measurement

DATA CENTER

Cloud

Highly reliable, Higher cost

Reliable broadband, lower cost

Connectivity and Security

Configurable routing protocols

DPDK
DATA PLANE DEVELOPMENT KIT

intel
Quick Assist Technology

DELL
Virtual Edge Platform

Powered by
intel

intel
Xeon® D, Secure Guard Extension & Trusted Platform Module 2.0

AI Chatbot Kiosk

Audience Measurement (Digital Sign)

Orchestrate workloads based on network usage targets and application & inferencing latency

Latency

High

Low

Very Low

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Next steps

Visit the following web-sites:
- Dell EMC Virtual Edge Platforms here
- Intel Future of Banking here

Read the following helpful information:
- ESG White Paper: "Dell Technologies: The Foundation for a Flexible SASE Journey" here
- ESG white Paper: "Accelerating Advanced uCPE Adoption" here
- Solution Brief here

Reach out to your dedicated Dell Account Representative to start your implementation.

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Q&A

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