

# Enterprise Edge



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# Why Smart Edge, a Pivot Company



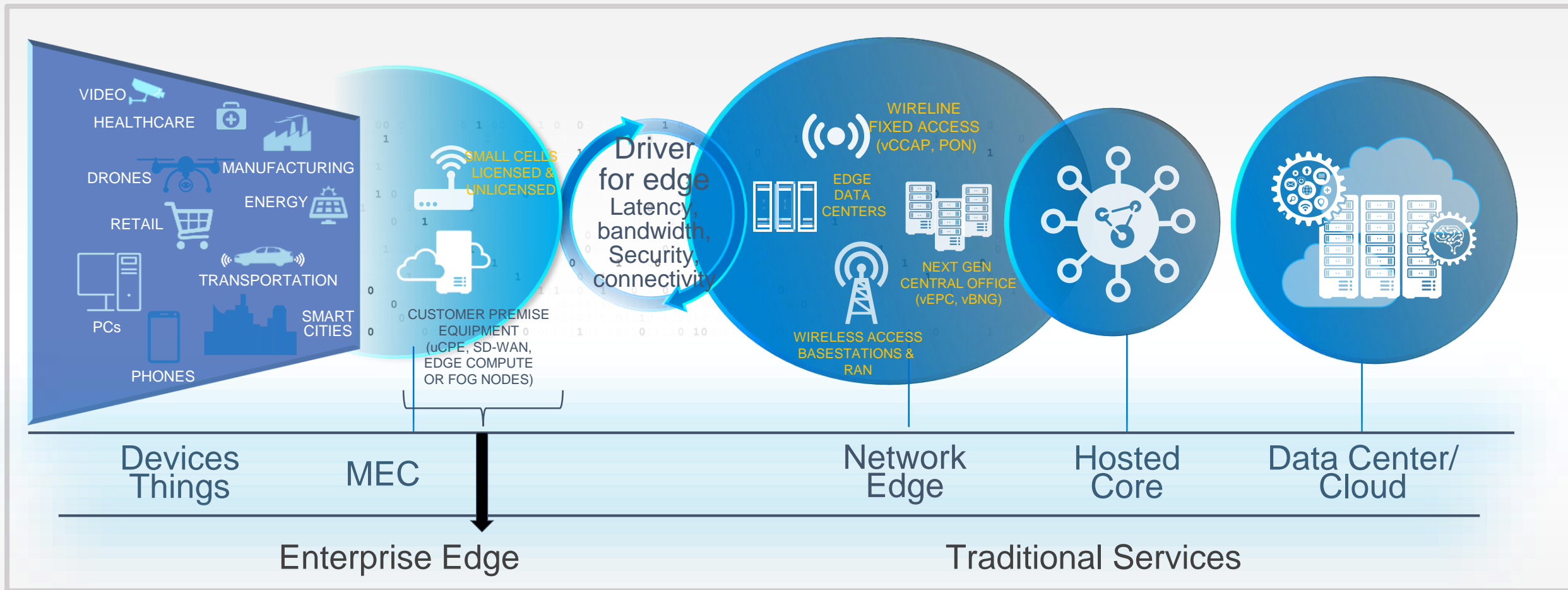
## 1 Use-Case Approach to MEC – Enterprise

- Edge platform targeted at commercial use cases and applications
- Industry Application Suites Aligned
- Simplify LTE for Enterprise
- Security is foundational

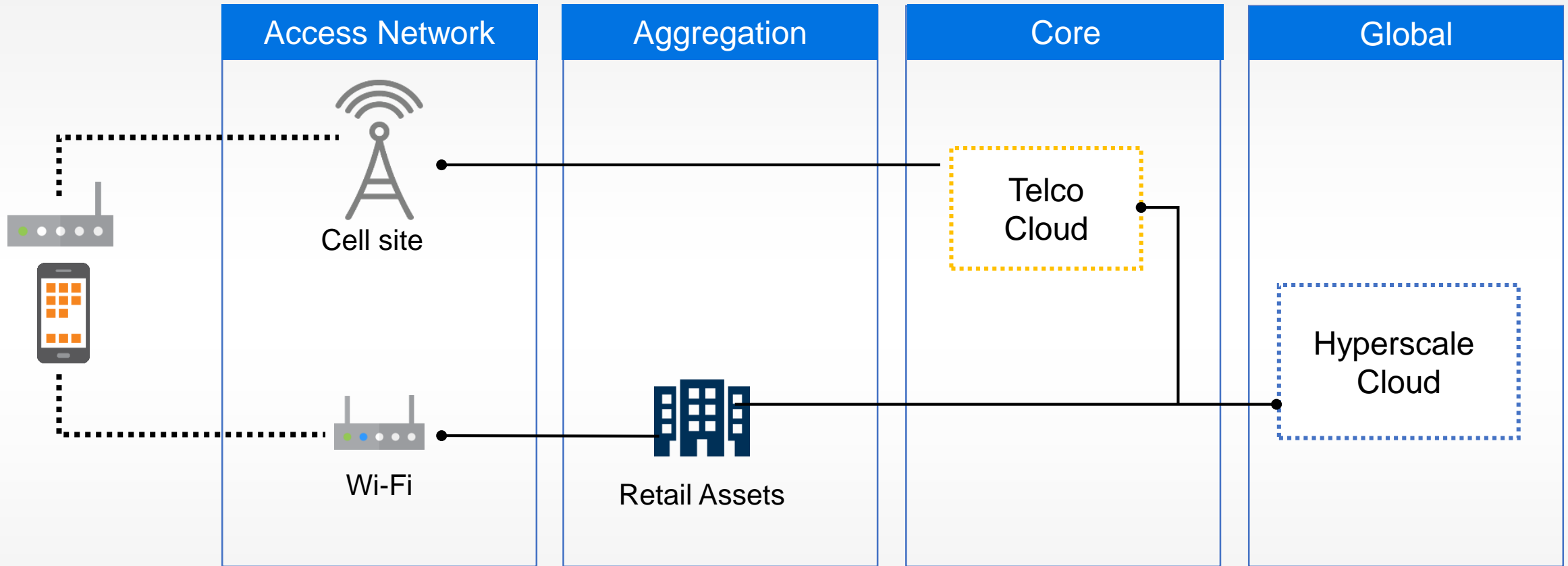
## 2 20+ Years of Expertise with Enterprise IT & SP

- Low touch deployments & support automation
- Edge Native aligns for use of Cloud Native applications and processes
- Support VMs, Containers and VNFs in a Single Platform

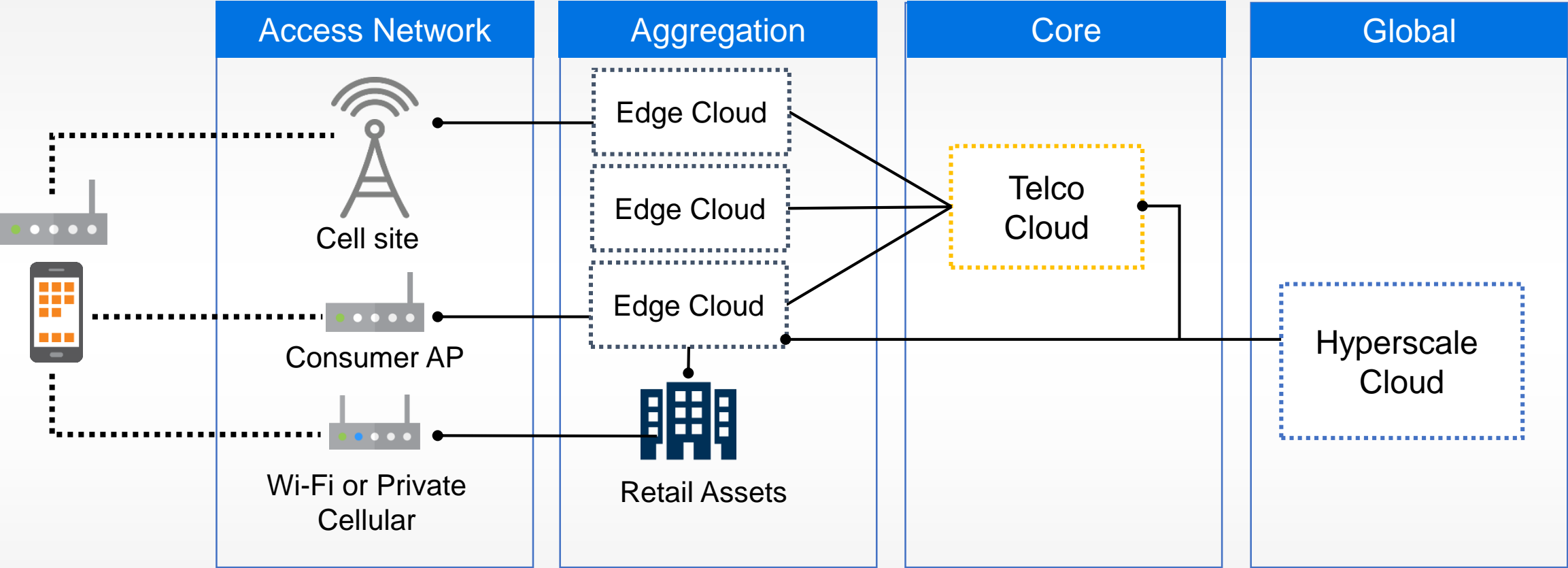
# The Different Edges



# Today's Architecture



# Edge Computing Architecture



# Industry Focused Experience

## Focus on core business processes:

### Retail

Point of Sale, Inventory,  
Digital Media



### Healthcare

Actionable Monitors,  
Point of Care, Patient Record



### Transportation

Inventory, Yard Management



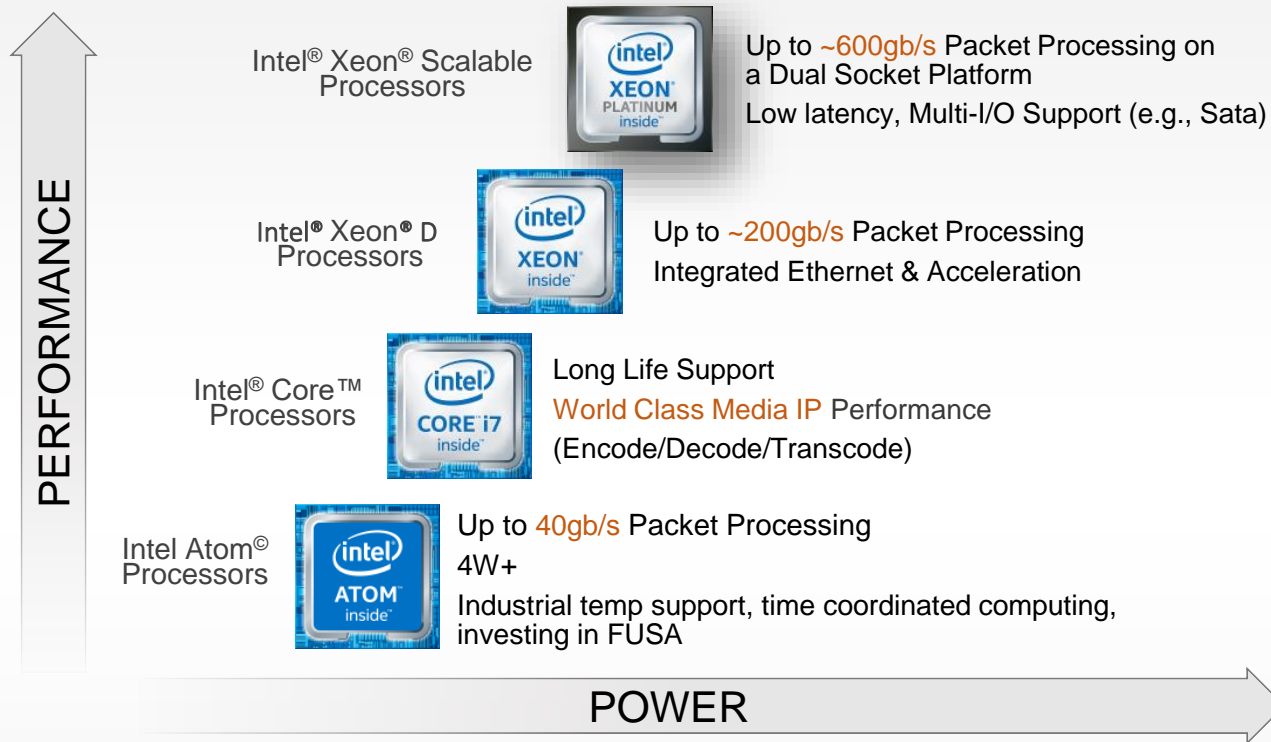
### Manufacturing/ Industrial

MOM, Robotics, SCADA



- Local traffic and Edge caching high value
- Connecting the Internet of Things (IOT)
- Analytics/AR/Deep Learning – value enhancers
- Carrier grade policy and security elements
- Open APIs and GUI drive scalable simplicity and agility
- Superb TCO – challenges are operational

# Hardware: Move, Store & Process the Data



### ACCELERATION SOLUTIONS

Intel® FPGA	ASSP	Intel® eASIC™ Silicon	VPU	Custom

### ADJACENT TECHNOLOGIES

Intel® Ethernet Controller	Intel® Silicon Photonics	Intel® OPTANE™ DC PERSISTENT MEMORY	Intel® OPTANE™ DC SOLID STATE DRIVE	Intel® QuickAssist Technology

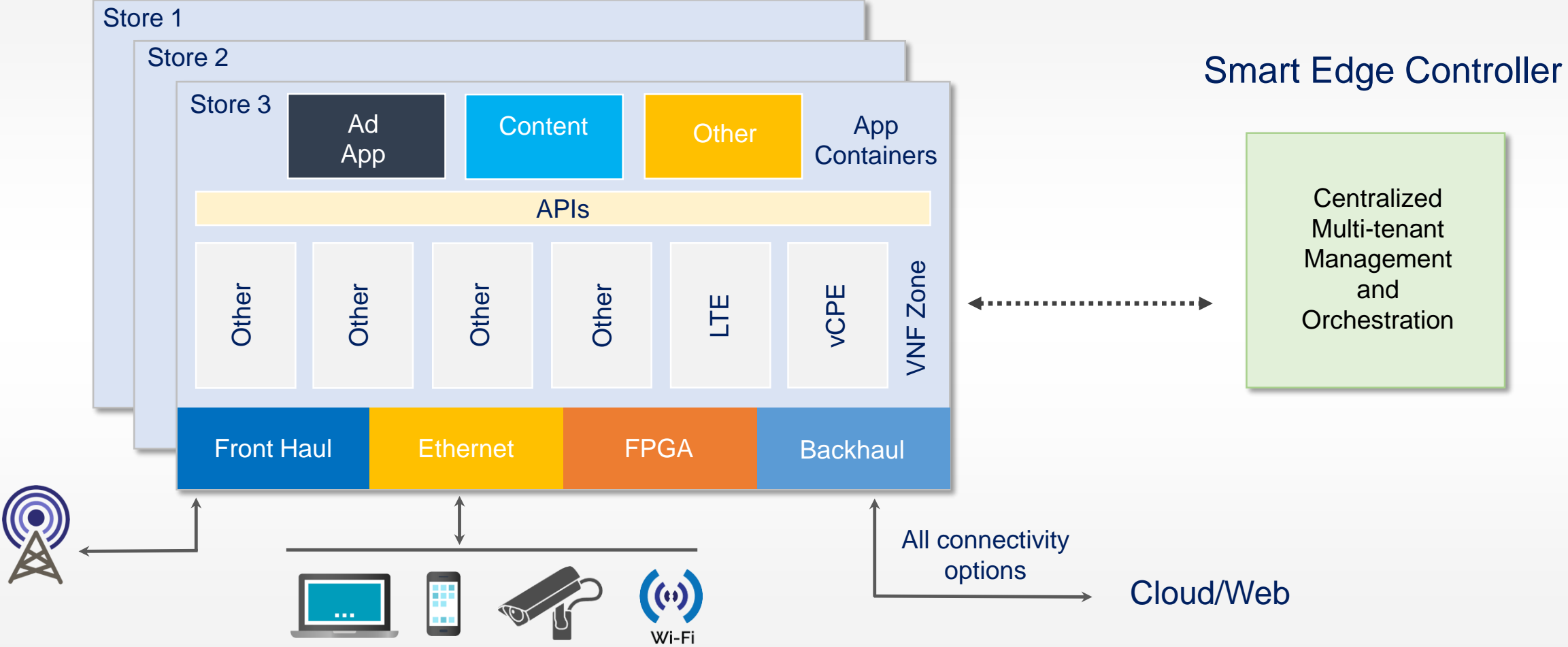
Use consistent, scalable & highly programmable architecture from edge to data center

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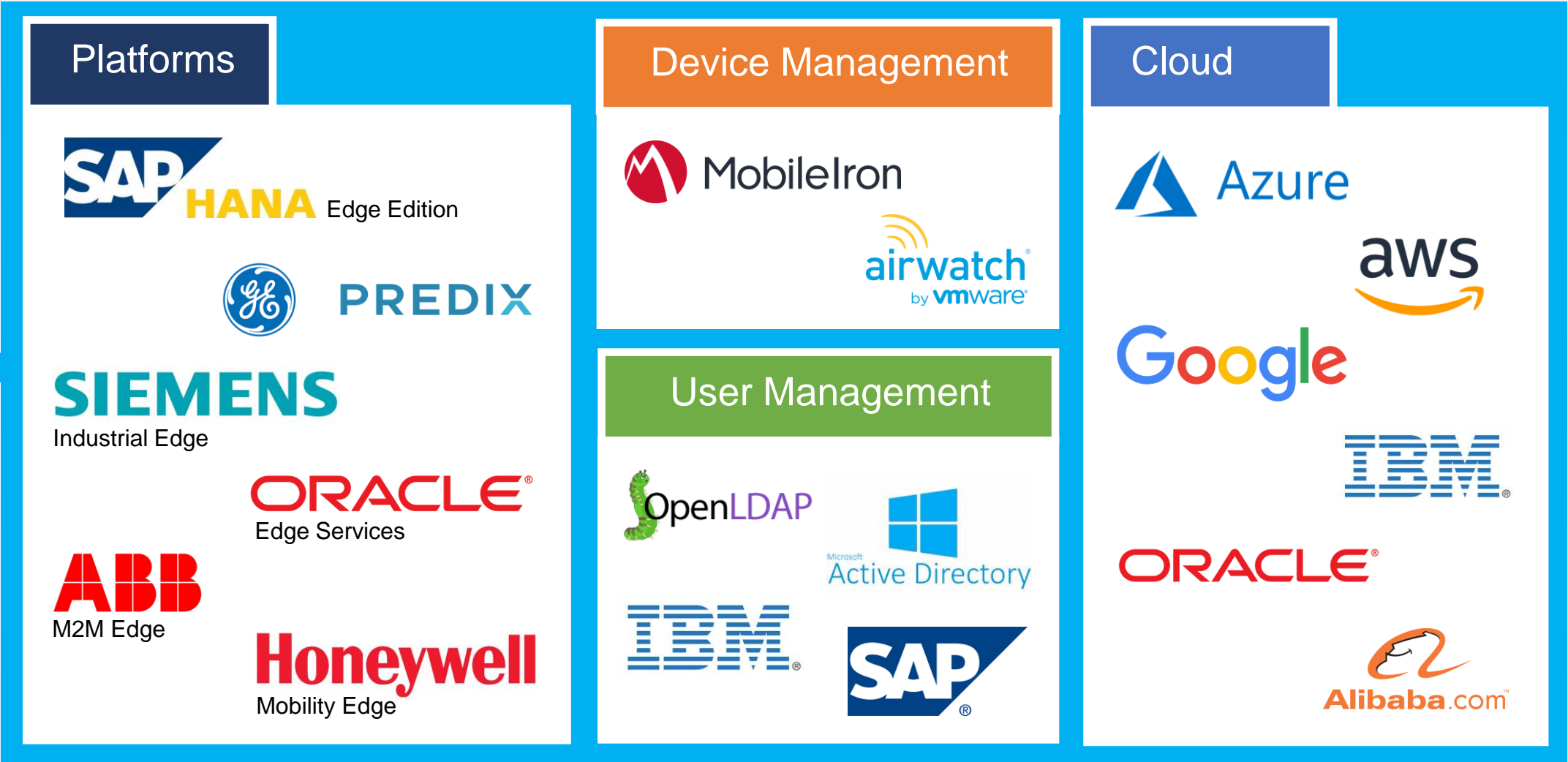


# Deployment Architecture

## Smart Edge MEC Edge Nodes



# Smart Edge Enterprise Alignment



# Smart Edge Use Case

## IoT



Gateway Consolidation

Computer Vision/  
Video Analytics

Autonomous Decision-  
Making

More Secure IoT  
Connection

## Time Sensitive Networks



Profinet/Modbus  
Networking

Video Distribution/ Video  
over IP

Industrial Ethernet  
IEEE TSN

## Software Defined Network Function/SD-X



Cache/CDN

SD-WAN

Service Chaining

NFV / VNF

## Interface / Integration



Presence and Location/Geo-location  
Application Performance Management  
(APM) solutions  
(App Dynamics, New Relic, Stackify, Splunk, etc.)

Mobile Device Management  
(Mobileiron, Airwatch, etc.)

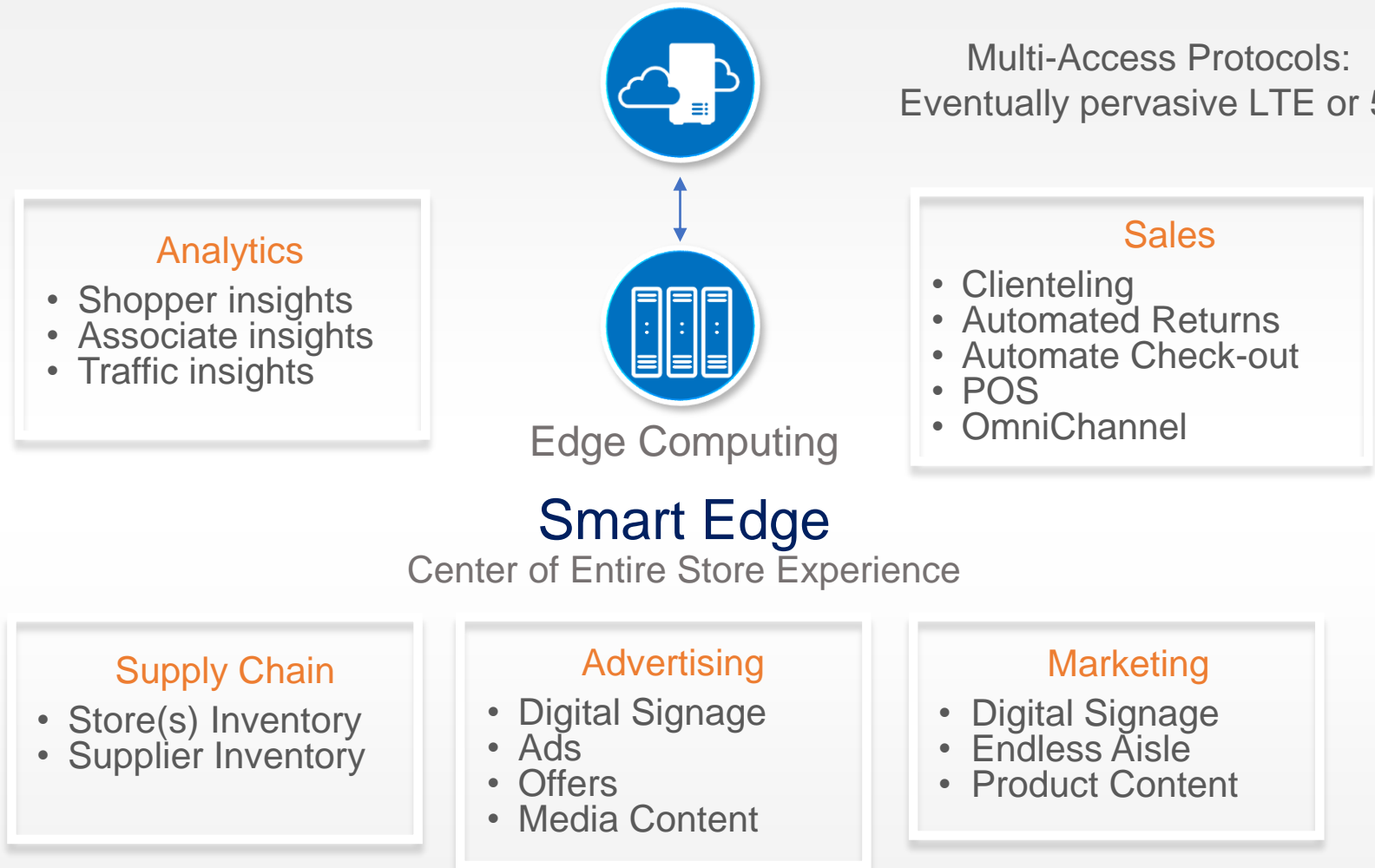
Network Function Orchestration  
(NETCONF, ONAP, etc.)

UE Signaling

# Edge Computing - Efficient Retail



For competitive and efficiency reasons, brick and mortar stores are investing in new technologies.



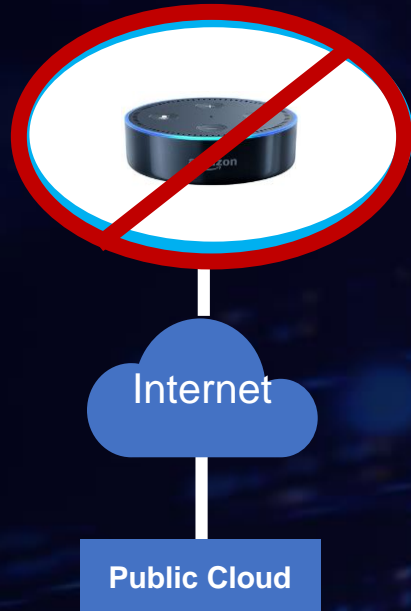
- Designed and foundational to the Platform
- Hard in the middle – protects against insider threats
- Protection framework assumes hostile environment
- Zero-trust architecture (even internal microservices)
- Provides unprecedented audit capability
- Best practice tools for visibility to threatening behaviors
- Telemetry, DPI, etc.
- Leverage Intel Security Tools in Platform

# Enablers for the Intelligent Edge's

## Residential Edge

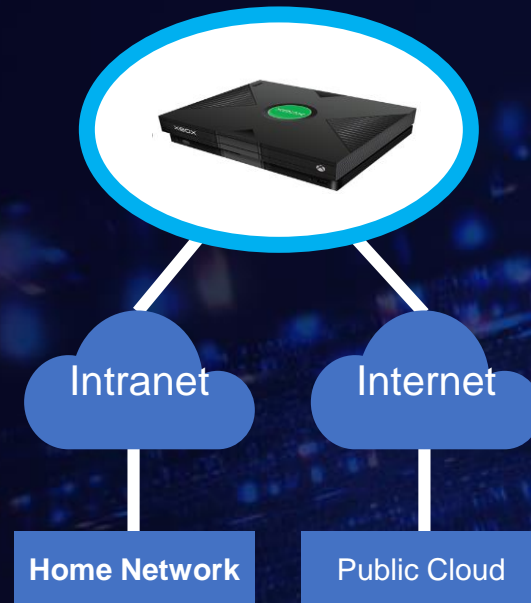
## Enterprise Edge

### Alexa



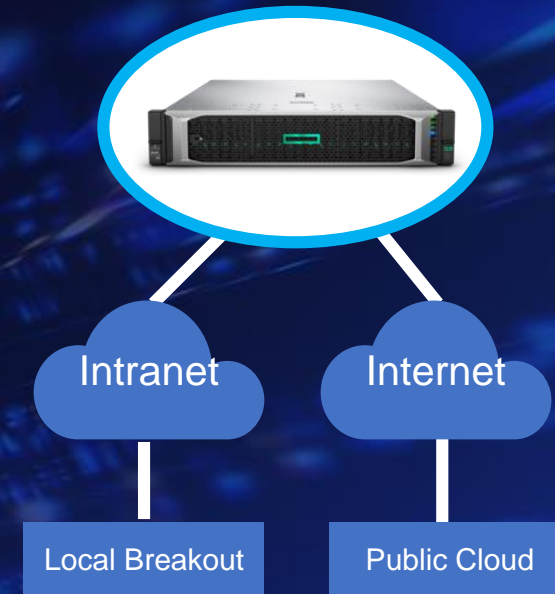
- Voice activated control
- Application Enablement
- Engineered for Home Automation
- Access to cloud services

### XBOX



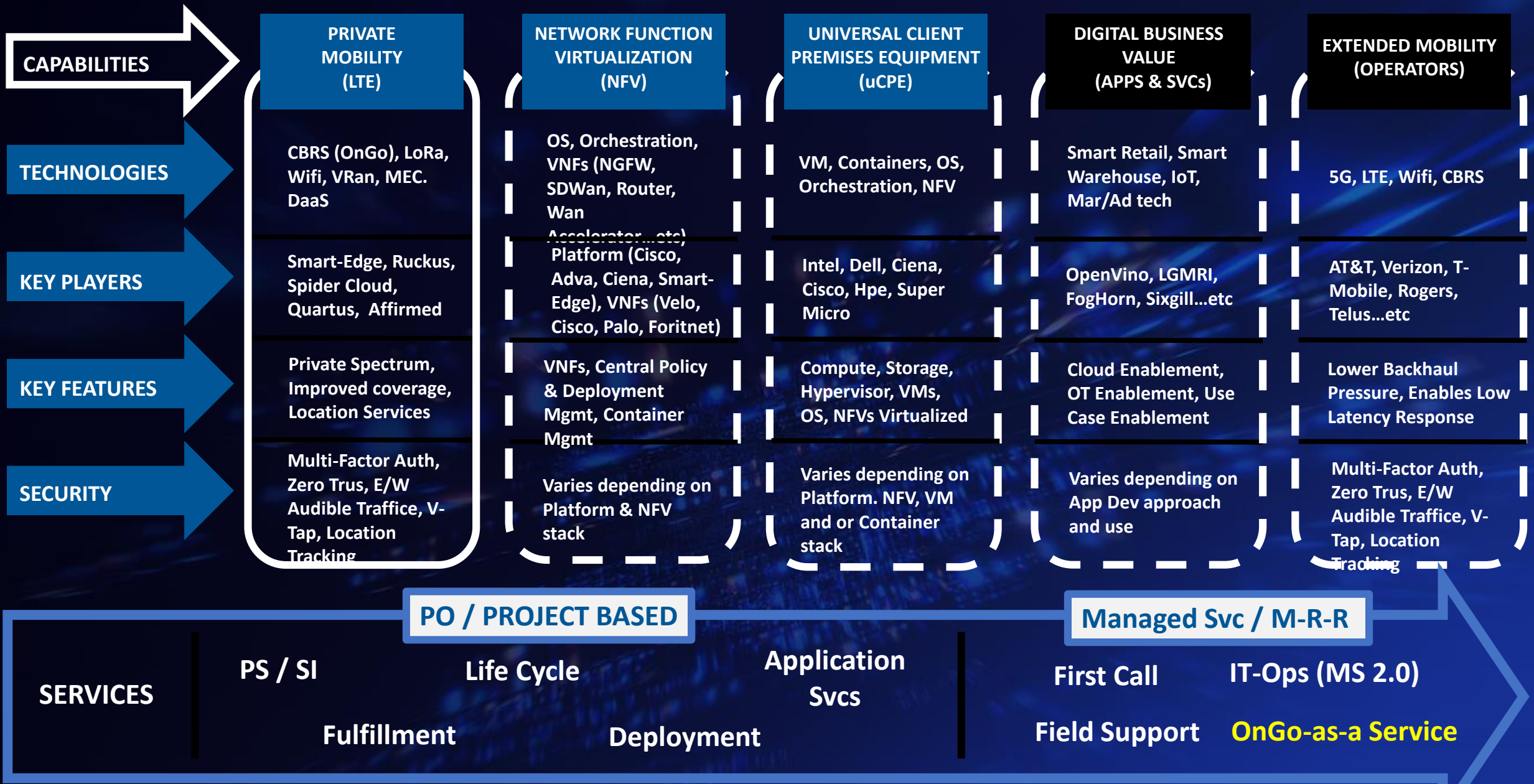
- Compute /Network / Storage for ultimate gaming experience,
- Local content with cloud connectivity

### Smart Edge



- Enabler to Compute / Network / Storage at the Enterprise Edge
- Multi access connectivity, local breakout with cloud connectivity
- Application Enablement

# PIVOT EDGE SERVICES > ENTERPRISE EDGE : NETWORK EDGE : CLOUD EDGE : FAR EDGE



PO / PROJECT BASED

Managed Svc / M-R-R

Fulfillment

Deployment

Field Support

OnGo-as-a Service