



Cisco Private 5G

A private 5G service that simplifies both 5G and IoT operations for enterprise digital transformation.

Cisco Knowledge Network

Private 5G – Delivered as a Service
Simple – Intuitive – Trusted

May 12, 2022

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Trending Private 5G priorities for executives

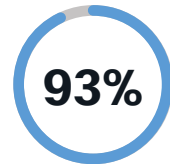
Private 5G expected to become the network standard of choice

Executives expecting that private 5G will become the standard network choice

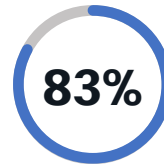


Budgets are opening up, fuelled by COVID

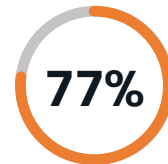
COVID-19 has made it easier to secure the budget needed for 5G deployment.



Germany



United States



UK



Japan

Key drivers are leading to near-term opportunities

Companies planning to deploy within the next six to 24 months to improve security, reliability and speed,

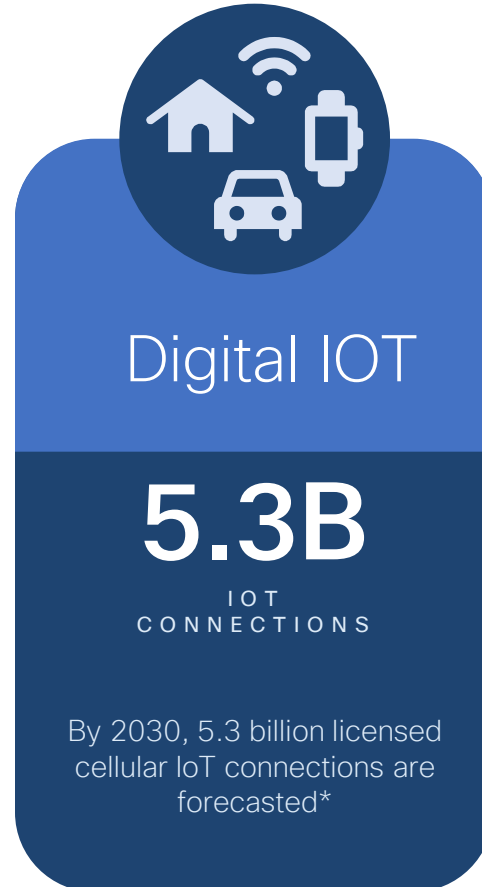


Market Opportunity

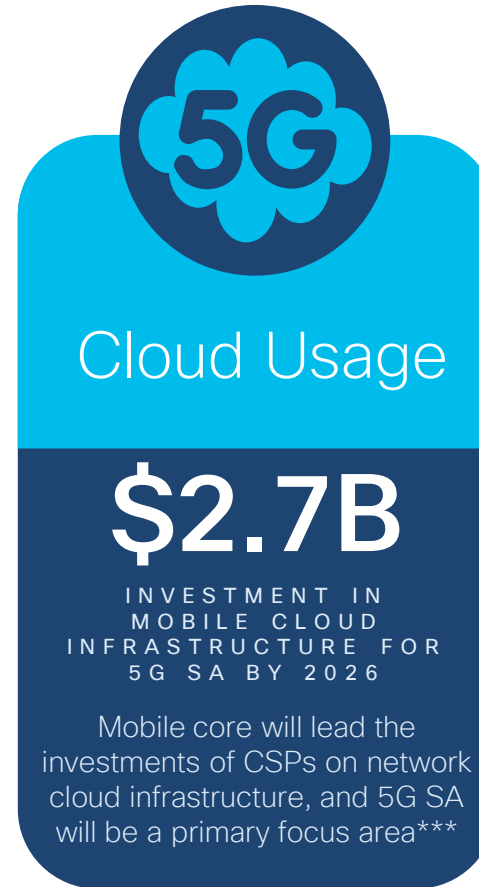
New and Growing B2B and Enterprise Opportunity



**ABI Research, Monetizing 5G Edge Networks: Different Approaches and Scenarios



*GSMA Intelligence, December 2021



***Analysys Mason Telecom Software and Services Worldwide Forecast 2021-2026



****Analysys Mason Telecom Software and Services Worldwide Forecast 2021-2026

Building on a strong foundation of cellular networking experience

#1 IP network share

#1 Mobile IoT share

1st US-wide 5G IoT and consumer deployment

For over 20 years Cisco has delivered leadership, expertise, and innovations in cellular mobile wireless infrastructure and services

1.5B Daily subscribers over Cisco Packet Core

World's first 5G network dedicated specifically to aviation (Gogo)



Implemented the world's first and largest nationwide 5G Stand-Alone Core

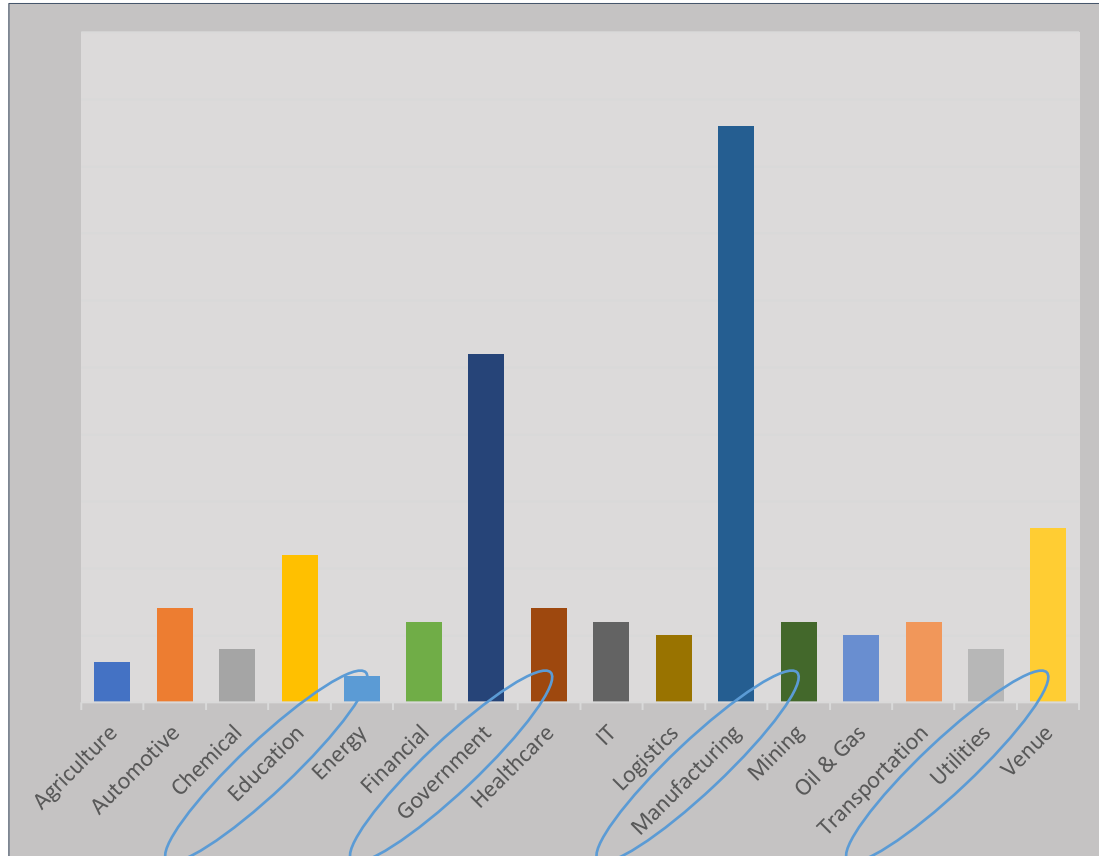
#1

More than 50 mobile operators and 30K+ Enterprises managing over 180M SIM-based end points using IoT Control Center



Initial Verticals for Cisco Private 5G

Vertical Industry Opportunities



Source: Cisco customer inquiries by vertical

Key Industries

Government

- Rapid asset, inventory, and shipping tracking
- Increase supply chain efficiency
- Improve worker safety
- Automated processes

Manufacturing

- Enhance operational efficiency (AGVs)
- Reduce costs
- Improve safety
- Innovate faster

Venues

- Enhance guest experience
- Grow revenues
- Improve guest safety
- Increase worker retention

Education

- Elevate educational impact
- Enhance safety and security
- Fuel innovative research
- Adjacent coverage for the underserved

Cisco Private 5G

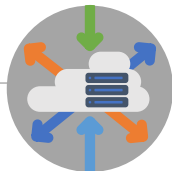
Full stack subscription for success



Management
Cloud managed



Identity & Policy
Intuitively integrated into existing enterprise systems



Packet Core
Industry leading 4G/5G converged packet core



Radios
Certified and validated Open RAN radios

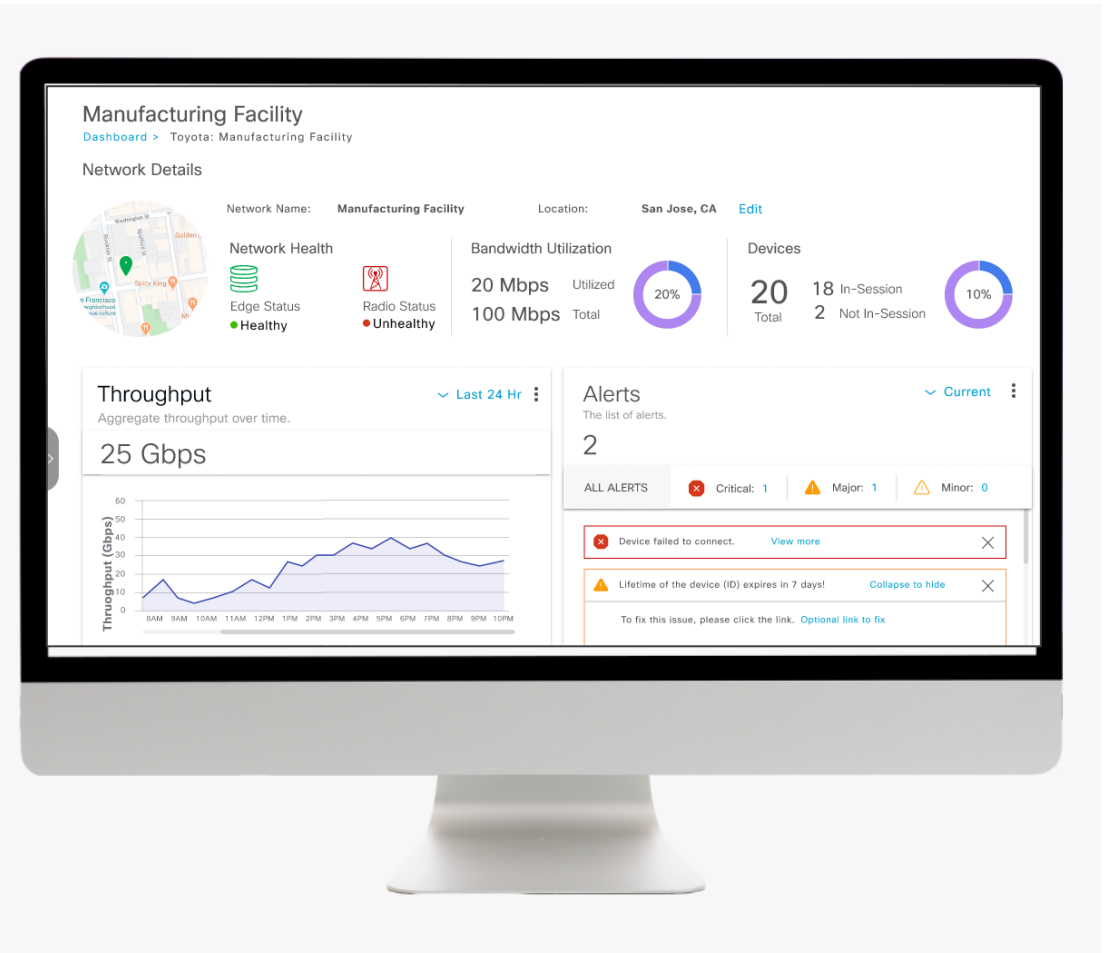
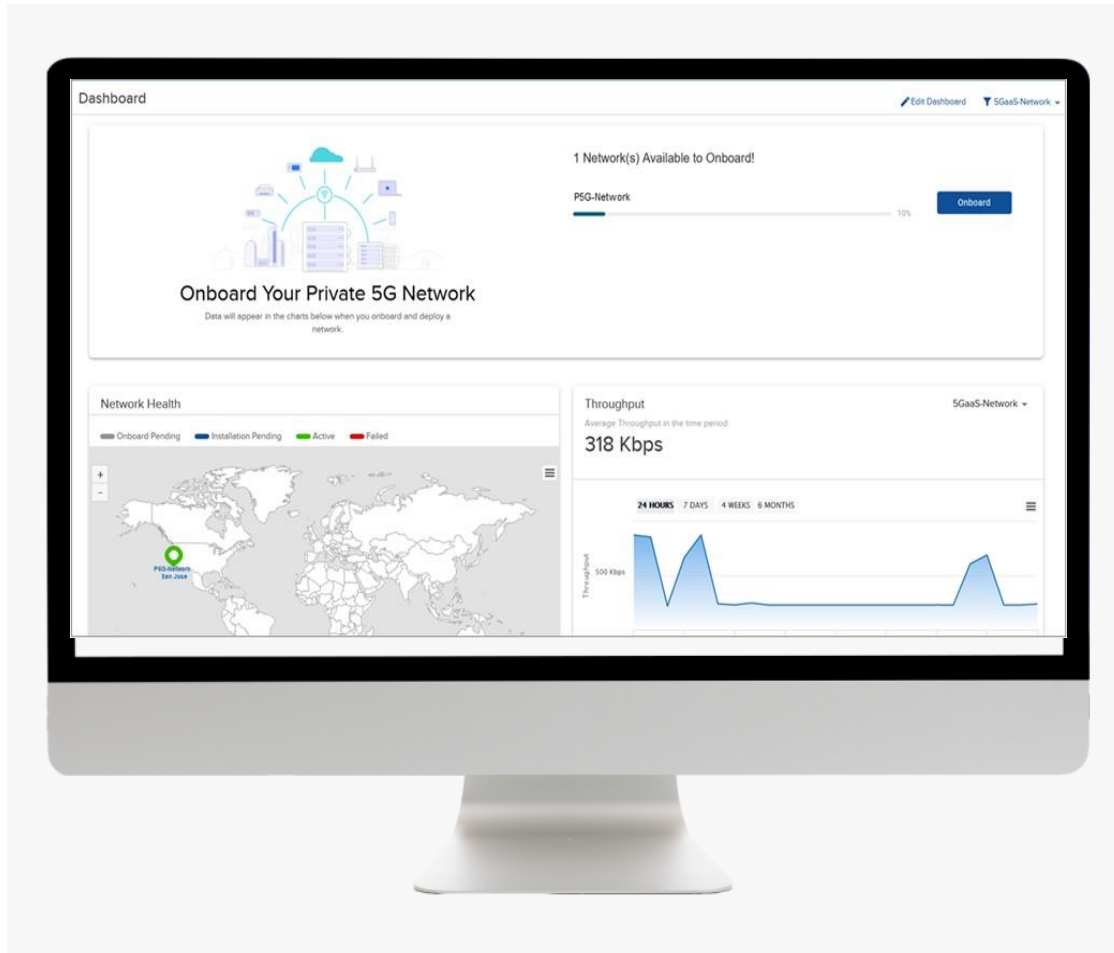


Simple

Intuitive

Trusted

Enterprise Dashboard



Cisco Private 5G Differentiators

Simple

- Private 5G integrates with enterprise access architecture
- Consistent operations and management

Intuitive

- Full-stack solution is pre-integrated and tested
- Operations and lifecycle management by Cisco and its partners

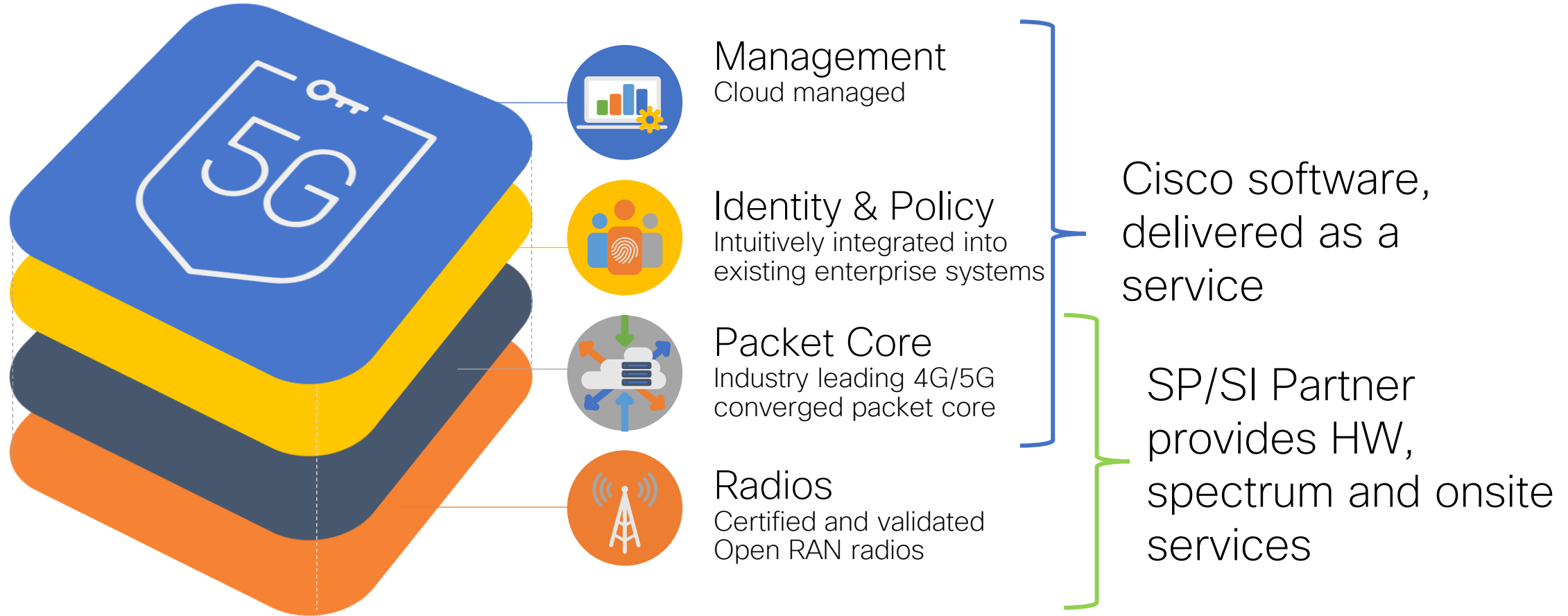
Trusted

- Cisco IoT Control Center manages millions of devices
- Carrier-grade 5G core right-sized for the enterprise
- Cisco Validated Designs

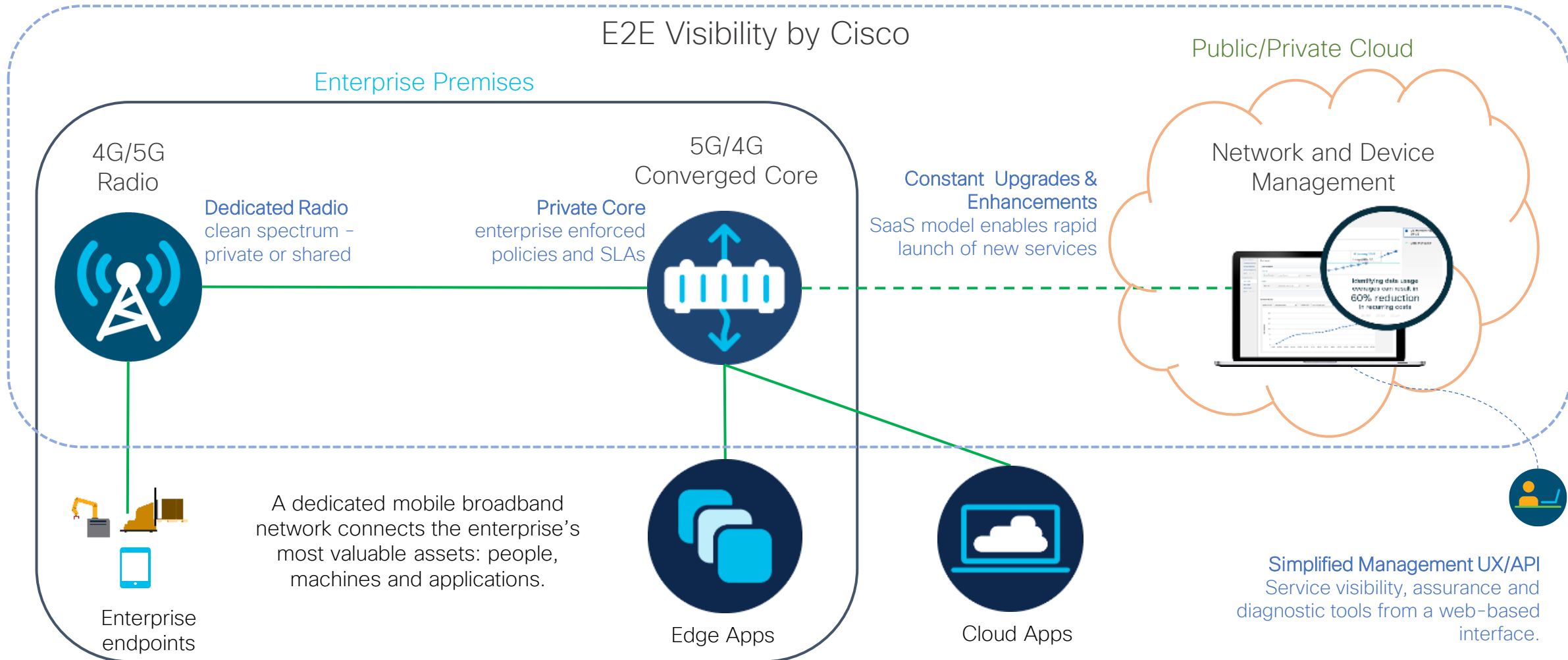
Private 5G Solution Overview

Cisco Private 5G - Partner-led

Full stack subscription is pre-integrated and validated by Cisco



Private 5G Architecture



Private 5G Demonstration

Demo Scenario



Demo Segments

1 Bring up the 5G Core



Name: Lars
Role: Network Installer
Earthcom Wireless

2 Onboard the Devices



Name: Carla
Role: Network Administrator
General Equipment Manufacturing.

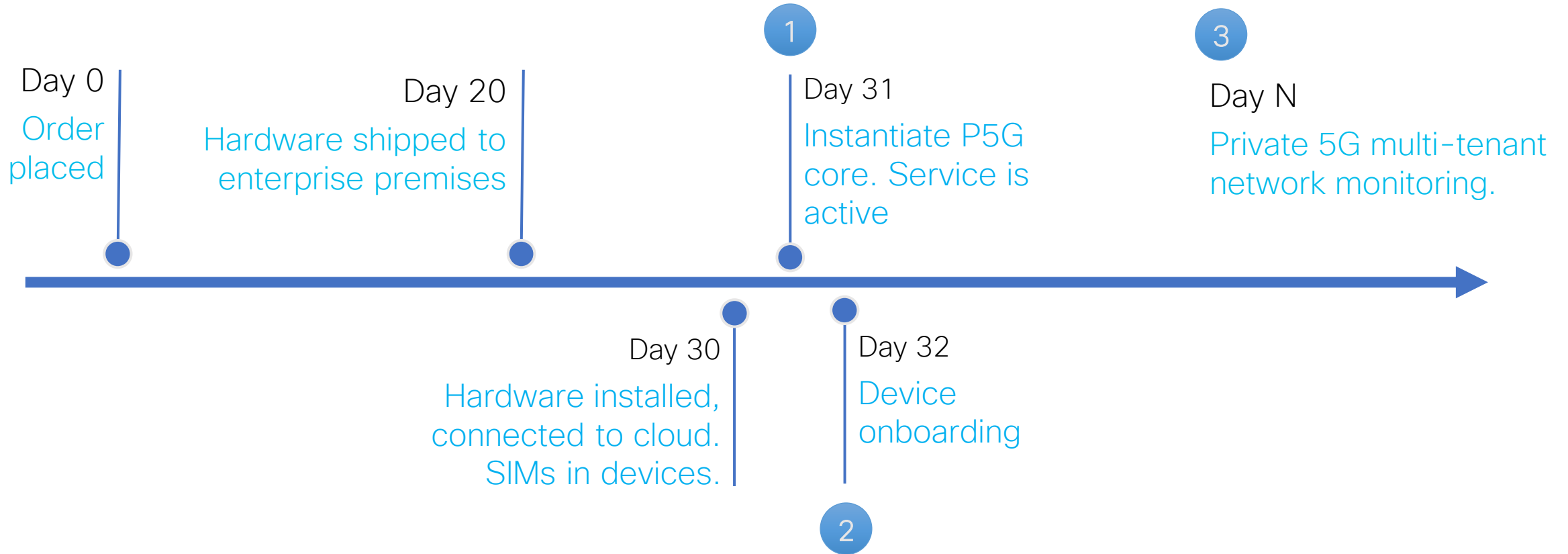
3 Monitor and Manage the Service



Name: Edward
Role: Customer Success Manager
Earthcom Wireless

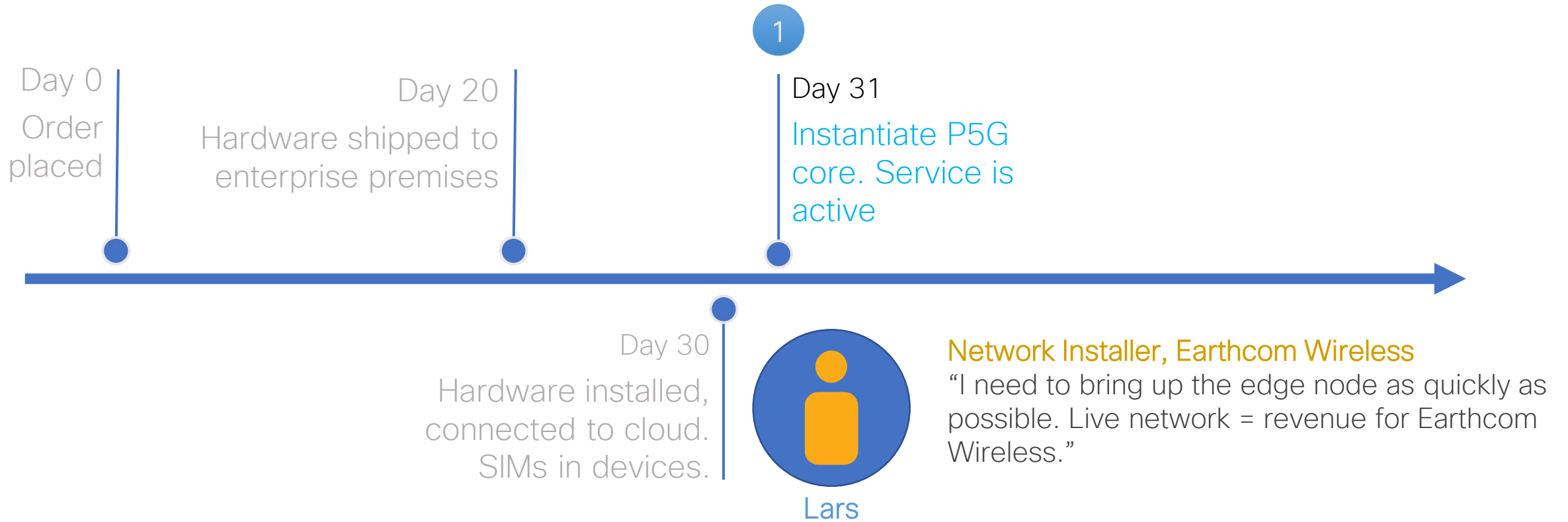
Typical Timeline

From Order to Active Service



Demo Segments

Typical Timeline From Order to Active Service



Demo Segments

Typical Timeline

From Order to Active Service



Carla

Network Administrator, General Equipment Manufacturing.

“I need 5G device activation and management to be ‘Wi-Fi simple.’”

SIM cards have already been ordered, auto provisioned, delivered and inserted into devices.

Day 32

Device onboarding

2

Demo Segments

Typical Timeline

From Order to Active Service



Edward

Customer Success Manager, Enterprise Business Group, Earthcom Wireless

“I need a holistic view of my all my customers’ services with the ability to see specific KPIs.”

Demo Segments

Private 5G Service Evolution

Service Description

Optimized Edge

- 2 servers-based high available edge to run converged core
- Next-gen ORAN deployment running RU/CU/DU

Scale & Performance

- 4G & 5G device support
- 5K sessions (4G + 5G combined)
- 15 Gbps throughput (4G + 5G combined)

Automation & Monitoring

- Automated software deployment and configuration from cloud after initial edge installation
- E2E monitoring of the service
- Continuous enhancements

UX & API

- Web-based onboarding and service management dashboard
- Multi-tenant views
- E2E network status in simplified traffic light view [R, Y, G]
- APIs for external consumption

Operations & Support

- 24x7x365 support
- Seamless software and firmware upgrade for edge appliance
- SIM cards supply, provisioning and configuration
- Partner and customer knowledge base

Enterprise Integration

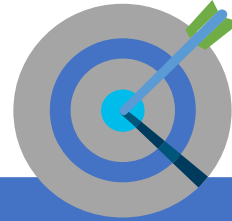
- Unified identity & policy through ISE integration in private 5G (Secondary authorization)
- Umbrella DNS security integration
- Leverage existing Catalyst portfolio

Service Evolution



Easy to Deploy & Operate

- Edge automation
- Enterprise onboarding
- Dashboard for N/W visibility (incl. multi-tenant view)



Secure & Scalable

- Unified policy and identity (ISE)
- Security integration with Umbrella DNS & SIG
- High availability
- APIs for monitoring & config
- Private network access security

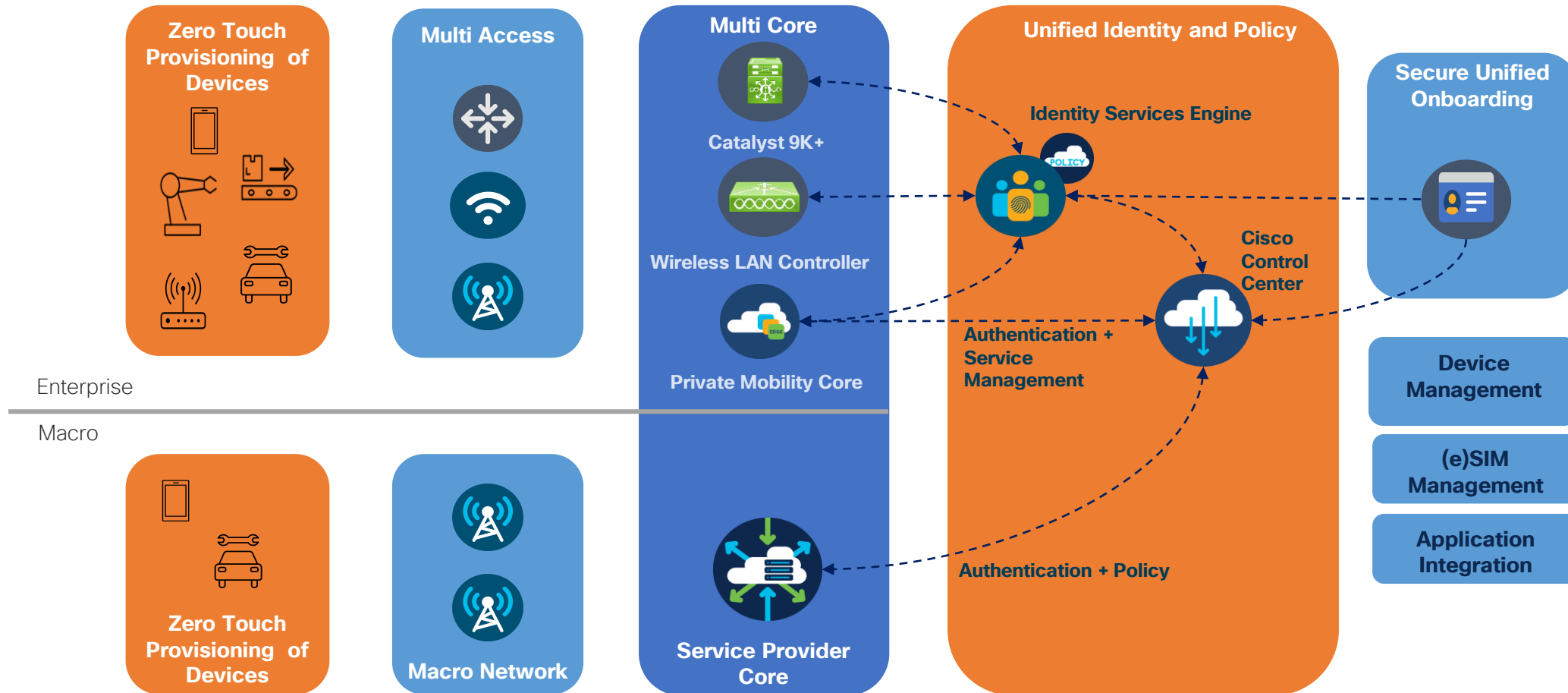


Private 5G 2.0

- Single-pane-of-management
 - DNA-C, Meraki, CC integration
- Wi-Fi offload
- Public/Private Roaming
- Unified telemetry platform
- FEDRAMP compliance

Industry leading Private 5G Solution with Enterprise Simplicity

Tighter Integration into Enterprise Services



Questions and Answers

