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#CiscoLive



The bridge to possible

# Private 5G As-A-Service Is Here: Get Ready!

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PSOGEN-1029



#CiscoLive

# Cisco Webex App

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- 1 Find this session in the Cisco Live Mobile App
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Webex spaces will be moderated by the speaker until June 17, 2022.



<https://ciscolive.ciscoevents.com/ciscolivebot/#PSOGEN-1029>



# Agenda

- Private 5G is here
- Cisco's Private 5G
- Use case examples
- Partners are here to deliver

# First, what is 5G?

Cellular Radio Technology 

1G



Analog  
Voice

2G



Digital  
Voice

3G




Voice  
and Data

4G



Broadband  
Data and Video

5G  


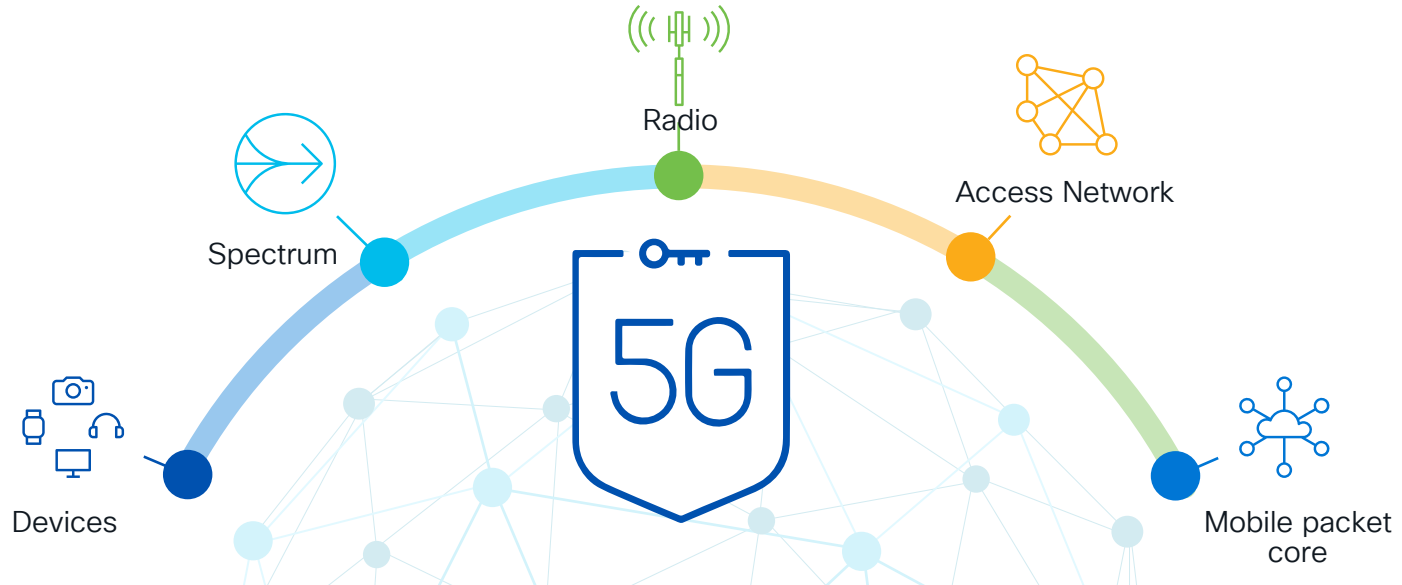
**High Bandwidth**

**Ultra-Reliable Low  
Latency connectivity**

**New Spectrum**

**Massive scale IoT  
Indoor coverage  
AR/VR**

# What is Private 5G?



A private cellular network that is built using **standardized 5G technology**, dedicated to carrying **traffic for a specific entity** (e.g., an enterprise) in **licensed radio spectrum**

# Why are Enterprises Considering Private 5G?



## Digitalization

Increase efficiencies,  
new working methods,  
automation and insights



## Extend Coverage

Up to 20,000sqft+ per AP



## New Business Models

Reduce/manage cost,  
simplification, aaS, etc



## Isolation from Public Networks

Clean spectrum  
with carrier or own



## Increased Security

SIM based  
authentication



## Ease of Management

Enterprise Managed  
or Partner Managed

Industrial IoT

Hospitality

Public Venues

Warehouses

Healthcare

# What are Private 5G key priorities for executives?

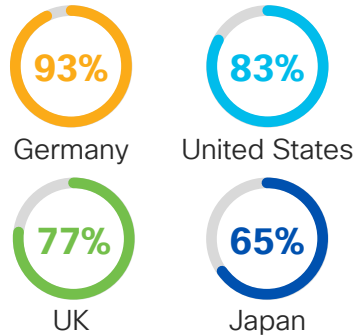
Private 5G expected to become the network standard of choice

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



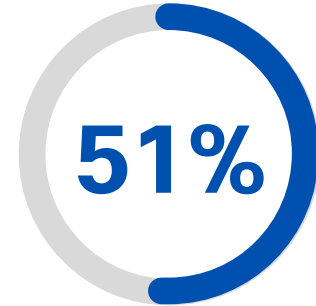
Budgets are opening up, fueled by COVID-19

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



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.

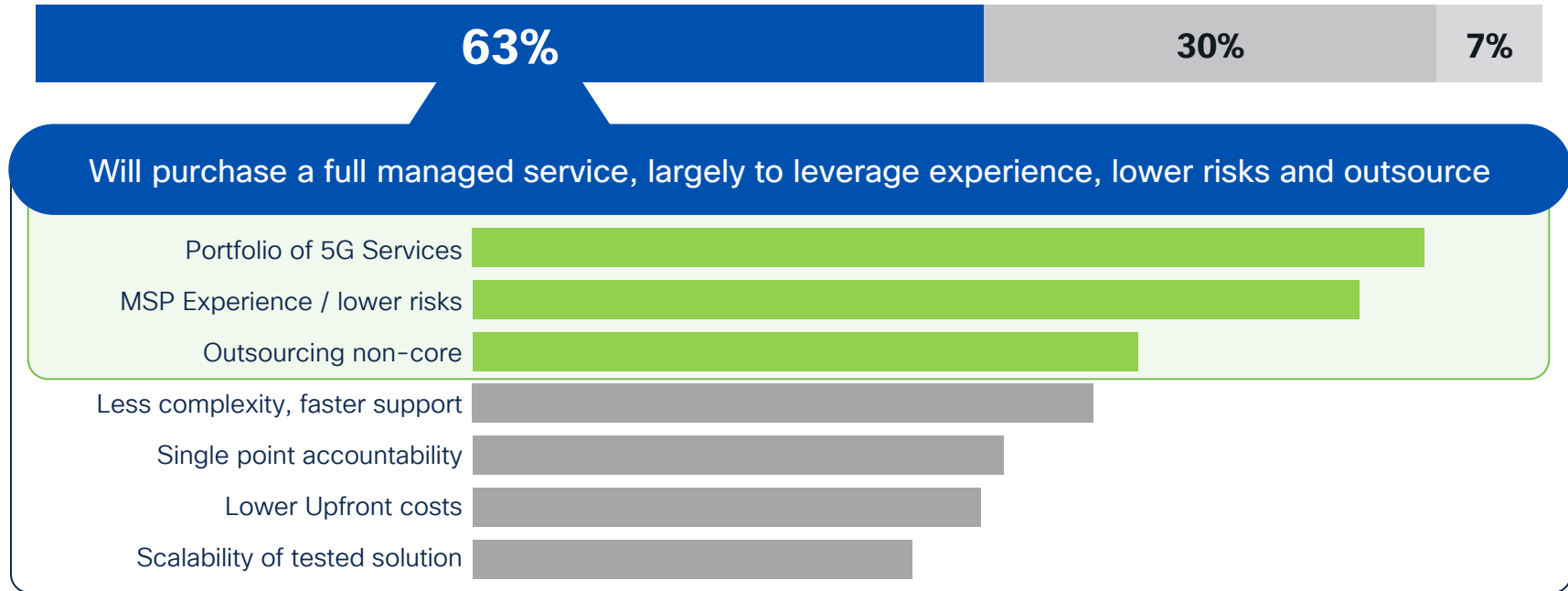




# Industry is shifting to an “as a Service” model

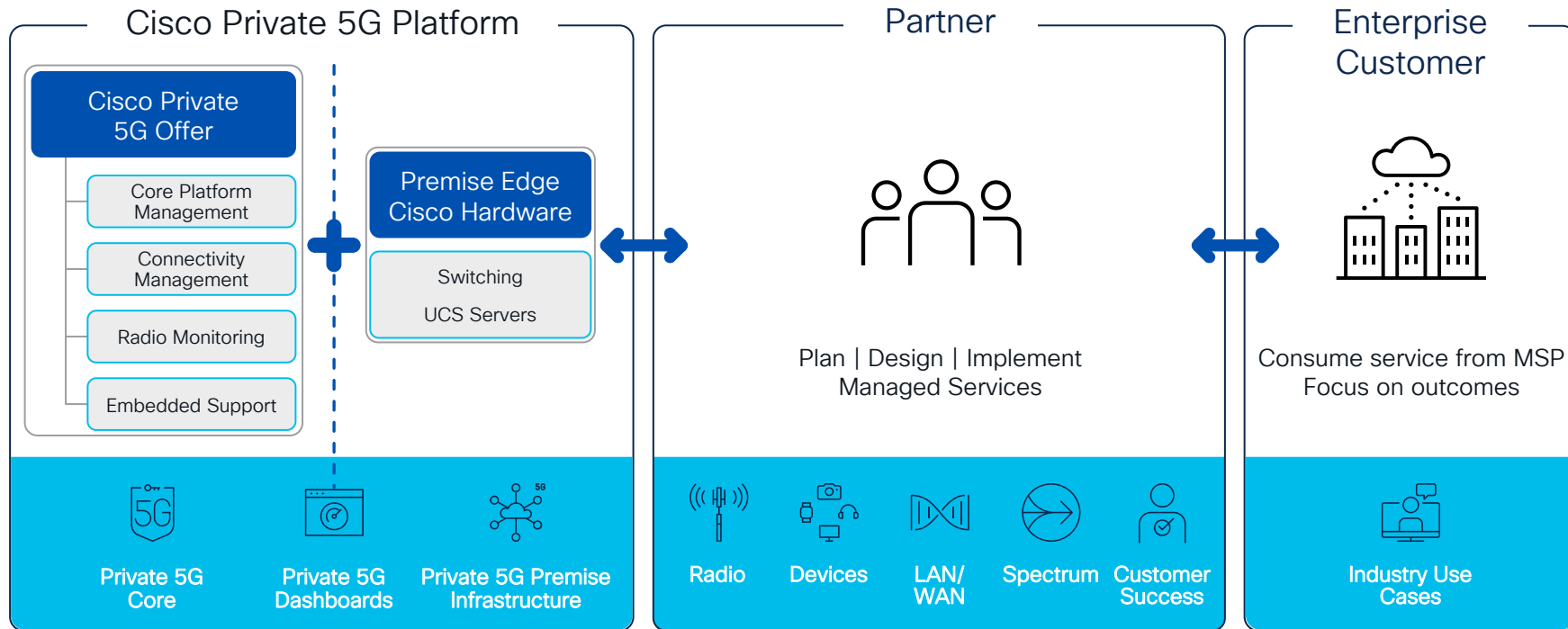
## Enterprises prefer to consume Private 5G as a (Managed) Service

How would end customers most likely purchase 5G value-added services?



# Cisco Private 5G “as a (Managed) Service”

## Private 5G-Enabled, E2E Solution by Partners



# Private 5G market expands the options to realize a Managed IOT market



<sup>1</sup>[Source](#)

<sup>2</sup>[Source](#)

# IoT is everywhere!!

It is the heart of the business

Manufacturing



Vehicles and fleets



Oil and Gas pipeline



Roads and intersections



Kiosks/Vending machines



Substation



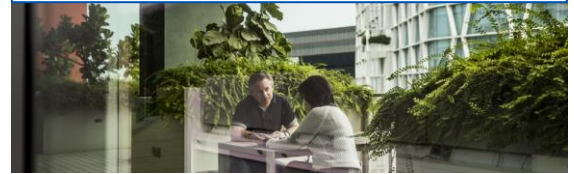
Warehouse/Distribution



Ports/Hubs



Venues/Hospitality



# Private 5G use case

## Manufacturing / Industrial IoT

### Manufacturing / Industrial IoT



### Current trends

#### New requirements in manufacturing

- New tools and processes
- AGVs/driverless vehicles
- AR / VR devices
- Address X-network connectivity

All the above need low latency, high bandwidth, seamless, secure wireless connectivity



### Value of a Managed Private 5G Networks

- Maintain control of wireless network SLAs and policy
- Provides clean spectrum
- Minimizes in-building network complexity
- Keeps data local for proprietary processes
- Delivers consistent QoS and user experience

# An example of Private 5G in manufacturing



## Flexible Next-Gen Manufacturing Line

### Use case:

- Ultra-reliable mobility in production
- Time-sensitive automation for PLC communication
- Automated Guided Vehicles (AGV), roaming driverless vehicles
- Robotics Process Automation and Emergency Control
- High speed SW downloads
- Surveillance and measurement
- AR/VR applications, Video
- Sensor networks



# Private 5G use case

## Distribution / Logistics / Warehouse

### Distribution / Logistics / Warehouse



### Current trends

Proliferation of new real-time IoT and other smart devices

- Digital transformation
- Security initiatives
- Operational Efficiencies
- AGVs/AMVs

All the above need low latency, high bandwidth, seamless and secure wireless connectivity



### Value of a Managed Private 5G Networks

- Safe and secure connectivity of new, smart IoT devices supporting distribution and logistics
- Broader reach and improved signal penetration
- Enable business outcomes e.g. supply chain modernization for high-value deployable smart assets
- Control over wireless network's SLAs, policy

# An example of Private 5G in a warehouses



## Warehouse

### Use case:

- Autonomous forklifts, AGVs, AMRs for inventory logistics
- Unmanned autonomous vehicles
- Distribution line/workflow automation
- Industrial tablets/barcode scanning devices
- Push to talk
- Location Tracking
- Video surveillance/safety

[Image Source](#)



# Learn more with these next steps



Visit us in our booth #3562



Engage with our partners



(Booth# C-35)



See a use case demo



(Booth# 1574)



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- How to supercharge your Next-Gen network with AIOps and Managed Services - BRKNWT-2208
- SD-WAN is going managed: is SASE next? - PSOGEN-1028
- Don't Panic!! The New Hybrid Workplace can be Operated and Managed - BRKOPS-2513
- The Fast and the Furious High Velocity Managed Services - PSOGEN-1015

The background features a collection of circles of various sizes and colors, including shades of blue, green, orange, and red, arranged in a pattern that suggests movement or data points. The circles are more densely packed on the right side of the image.

Private 5G as-a-Service  
is here!

GET READY!!!

# Technical Session Surveys

- Attendees who fill out a minimum of four session surveys and the overall event survey will get Cisco Live branded socks!
- Attendees will also earn 100 points in the Cisco Live Game for every survey completed.
- These points help you get on the leaderboard and increase your chances of winning daily and grand prizes.



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## Certify

### Cisco Certifications and Specialist Certifications

Award-winning certification program empowers students and IT Professionals to advance their technical careers

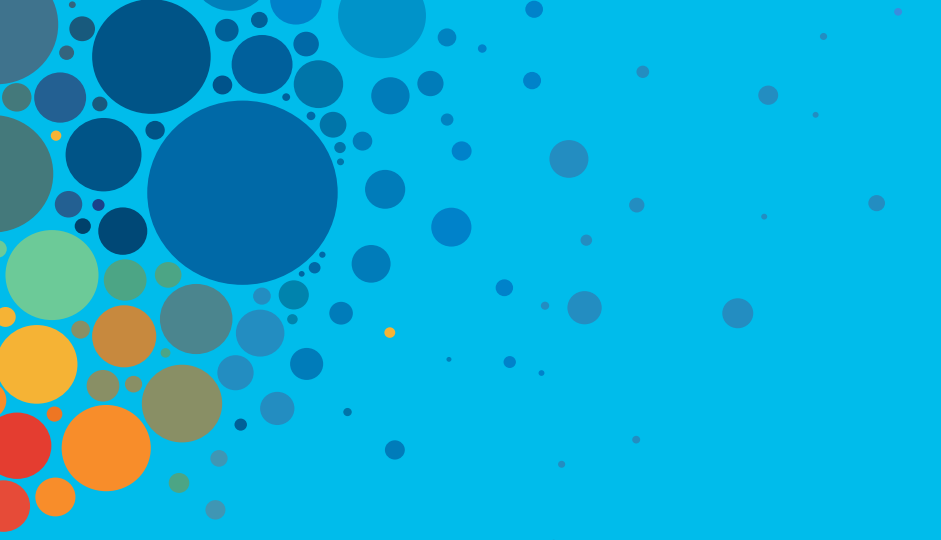
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# Thank you

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