



# Bridge to Possible - Use cases with 5G

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**SaaS, Big Data, ML/AI Use Cases**

**Cloud Networking & Security**

**5G and Wi-Fi6  
NG Access Infrastructure**

**Edge Computing and Networking**

# Cloud 5G IoT

Building  
Automation



Smart  
Transportation



Smart  
Manufacturing



Energy  
Management



Smart  
Supply Chain



Smart Healthcare



Smart Retail



Smart  
Cities



Connected  
Vehicle



Smart Meter



**CISCO** *Live!*

# Emerging Use Cases



# Blueprints: Key Use-cases per Industry



Simplicity



Security



Scalability

## Manufacturing



## Power Utilities



## Energy



## Transportation



## Smart Cities



### Industry Cisco Validated Designs (CVDs)

- Industrial Automation
- Plant Wide Connectivity
  - Factory Security
  - Factory Wireless

- Substation Automation
- Smart Metering
- Distribution Automation
- Utility WAN

- Industrial Automation
- Connected Pipeline

- Connected Rail
- Connected Mass Transit
- Connected Roadways

- Lighting, Parking, Environment, Safety and Security
- Connected Community Blueprint

### Industry & Remote & Mobile Assets IoT Blueprints



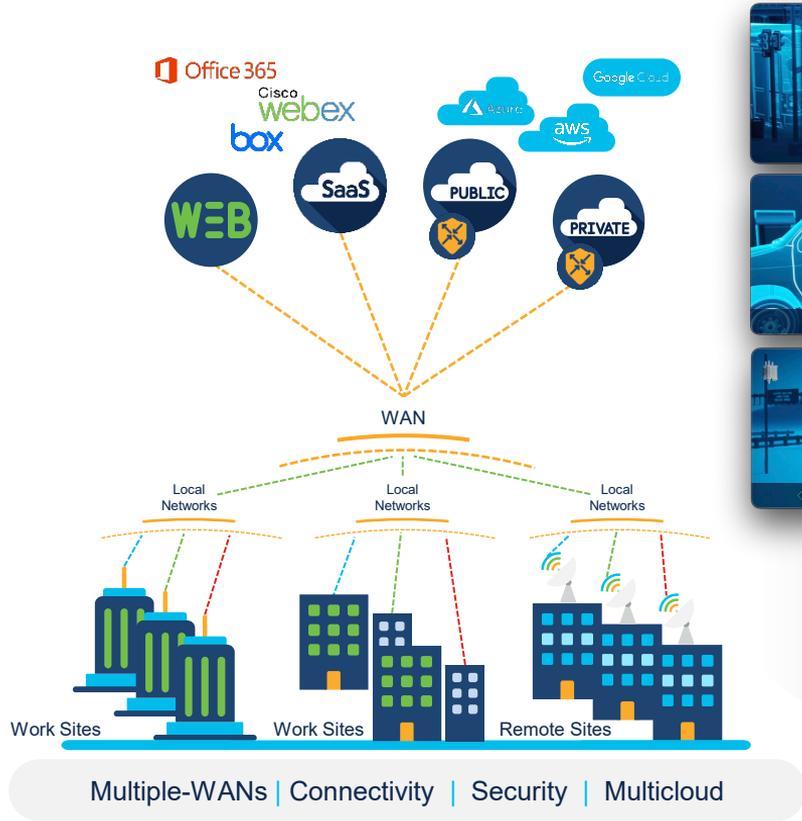
### Proven Integrations



# Catalyst Industrial Router



# Transformations in the new world of connectivity



Connect, Secure And Automate

# Cisco Umbrella (SASE)

- Visibility and enforcement at the DNS layer
- Block requests to malicious domains and IP addresses
- Predictive intelligence: Uncover current and emergent threats
- Protect all devices on your branch network against:
  - Malware
  - Phishing
  - Command and control (C2) callbacks
- Reputation-based URL filtering
- Static URL filtering



More Information

[Security Configuration Guide, Cisco IOS XE Release 17.x - Cisco Umbrella Integration \[Cisco SD-WAN\]](#)

# Use Case and Benefit



Airport



Warehouse



Distribution Center



Parking Lot

1

## 4G/5G Modem Attachment

4G/5G modem will attach to base station and obtain DHCP IP

2

## PnP Discovery

Cellular interface is configured with DHCP automatically.

PnP discovery kicks off over 4G

3

## PnP Cloud Connection

Resolve DNS host devicehelper.cisco.com.

Secure connection to PnP cloud is established and device presents SN#.

Obtain APIC-EM IP from Cloud.

4

## PnP Provision

Provision configuration and image securely.



**CISCO**  
Cisco  
vManage



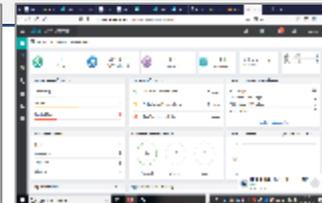
**CISCO**  
Cisco  
DNA Center



**CISCO**  
Cisco  
IoT OD



IoT OD



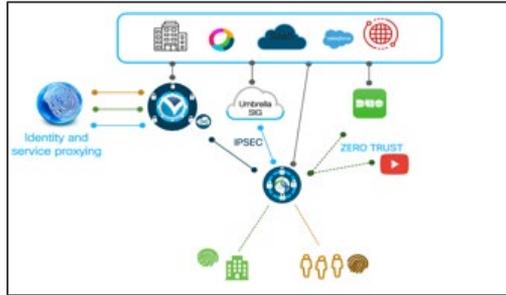
vManage



DNA Center

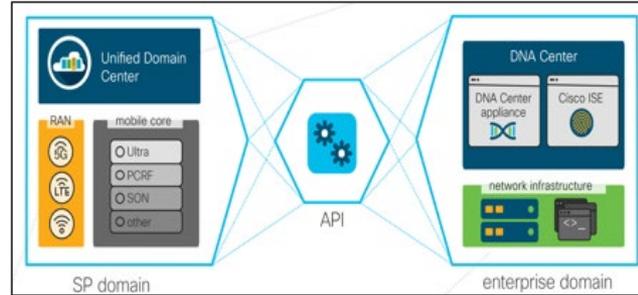
# Summary of Solution Offers with 5G

## Mobile SD-WAN



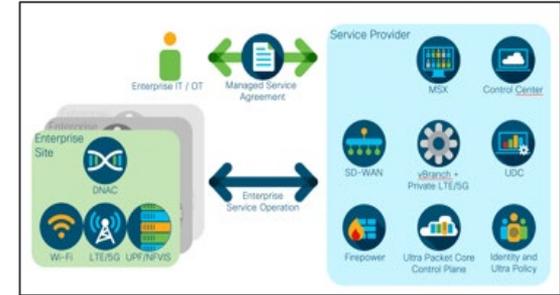
Consistent Policy Model

## Unified Domain Center



Correlated Policy Carrier to Enterprise

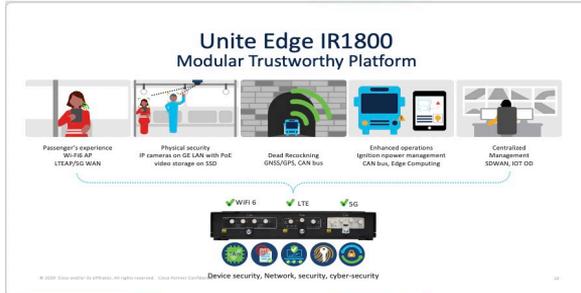
## Private LTE/ 5G



Managed Wireless Assets

## Industrial Routing

### Unite Edge IR1800 Modular Trustworthy Platform



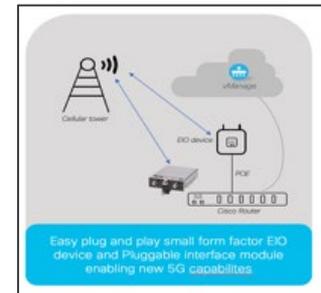
Connectivity and Beyond

## OpenRoaming



Single Sign-On

## 5G CPE



Fixed Wireless Access

謝謝

DZIĘKUJĘ CI

TAPADH LEIBH

KEA LEBOHA

NGIYABONGA

БАЯРЛАЛАА

MISAOTRA ANAO

TEŞEKKÜR EDERİM

WHAKAWHETAI KOE

KÖSZÖNÖM

DANKIE

TERIMA KASIH

DANKON

TANK

TAPADH LEAT

SALAMAT

СПАСИБО

GRAZIE

MATUR NUWUN

ХВАЛА ВАМ

MULȚUMESC

РАКМЕТ СИЗГЕ

고맙습니다

GRAZIE شكرا

HVALA

FAAFETAI

ESKERRIK ASKO

HVALA

GO RAIBH MAITH AGAT

БЛАГОДАРЯ

GRACIAS

THANKYOU

TEŞEKKÜR EDERİM

ТИ БЛАГОДАРАМ

DANKJE

ΕΥΧΑΡΙΣΤΩ

GRATIAS TIBI

ІКЪРҮН

OBRIGADO

TAK DANKE

AČIŮ

SALAMAT

MAHALO IĀ 'ŌE

TAKK SKALDU HA

MERCI

РАНМАТ

MERCI

GRAZZI

PAKKA PĒR

ありがとうございました

ДЗЯКУН

DI OU MÈSI

ĎAKUJEM

HATUR NUHUN

PAХМАТ САГА

SIPAS JI WERE

TERIMA KASIH

CẢM ƠN BẠN

UA TSAUG RAU KOJ

WAZVIITA

ТИ БЛАГОДАРАМ

СИПОС

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