



TURN IT UP

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The bridge to possible

Zero touch remote workforce solutions

Enabling employees to work from home
using Cisco SD-WAN

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BRKENS-2005

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Agenda

- Overview
- Demo
 - Onboarding in SD-WAN
 - Umbrella Integration
 - Cloud onRamp Integration
- Sneak Peak - What's to come
- Use Cases
- Summary

Overview



Challenges of Remote Workforce

Personas



Employee

- Seamless onboarding with step by step instructions
- Seamless availability of network resources
- Flexible Security solutions

IT Admins

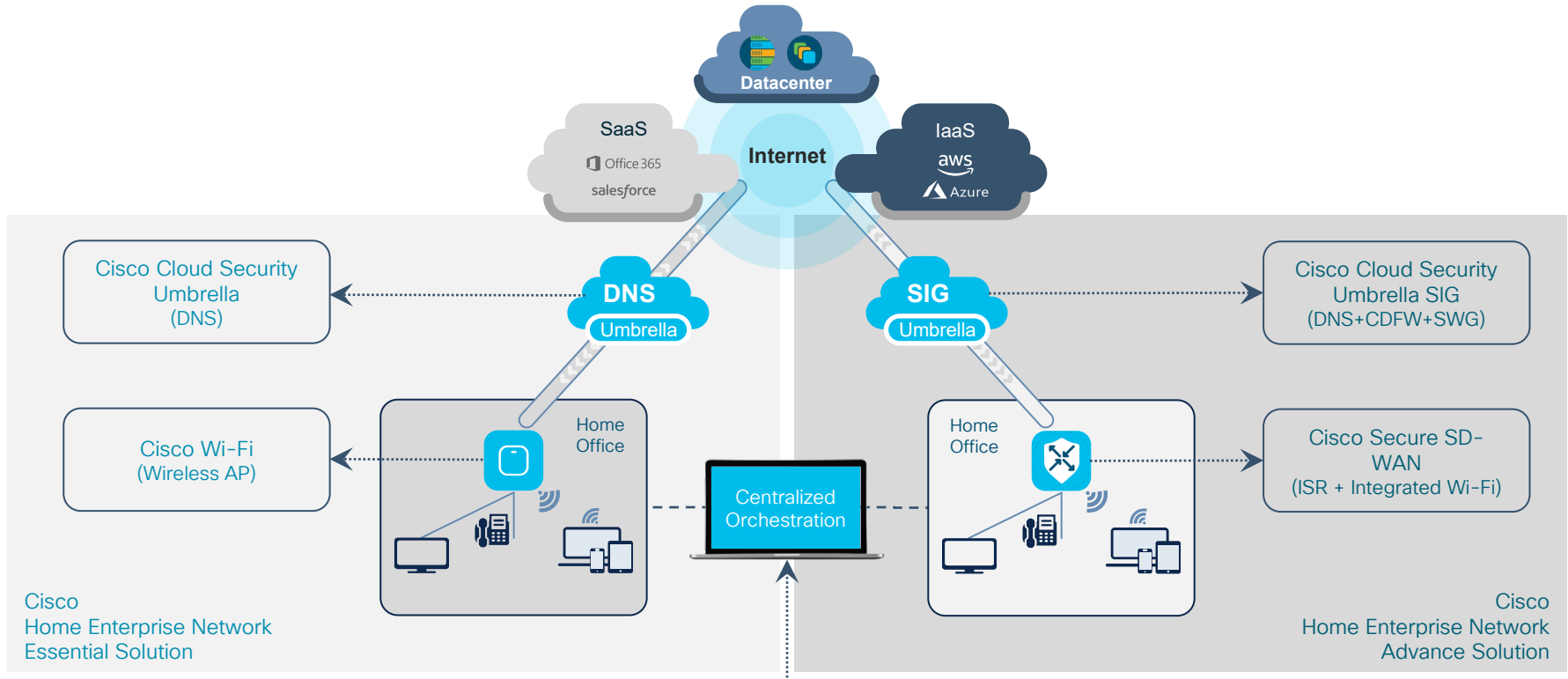
- Centralized orchestration of remote networks at scale
- Consistent Corporate/Home policies
- Visibility and manageability

Specialists/micro-offices

- Highly available connectivity
- Enhanced application experiences
- Comprehensive security including threat prevention

Solution Overview

Cisco SD-WAN



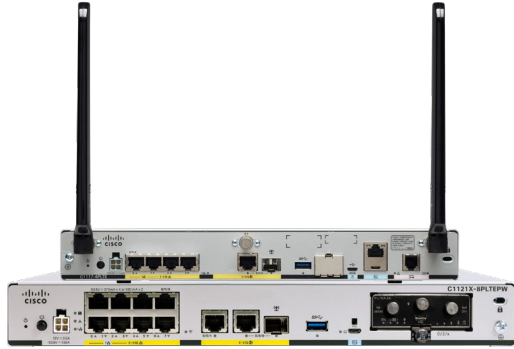
Cisco
Home Enterprise Network
Essential Solution

Cisco
Home Enterprise Network
Advance Solution

Cisco centralized management, monitoring, and troubleshooting

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Connectivity Options with ISR1000



- Zero Touch Provisioning (Plug-n-Play)
- Multi-cloud (SASE, IaaS, SaaS)
- Next-gen LTE (CAT18/6/4)
- Integrated
- Pluggable

Integrated Wi-Fi:
802.11ac

DSL option
(EMEAR/Canada)

Investment
protection
and Future-
proof (5G
Ready)

Extended
temperature
support for
extreme
environment

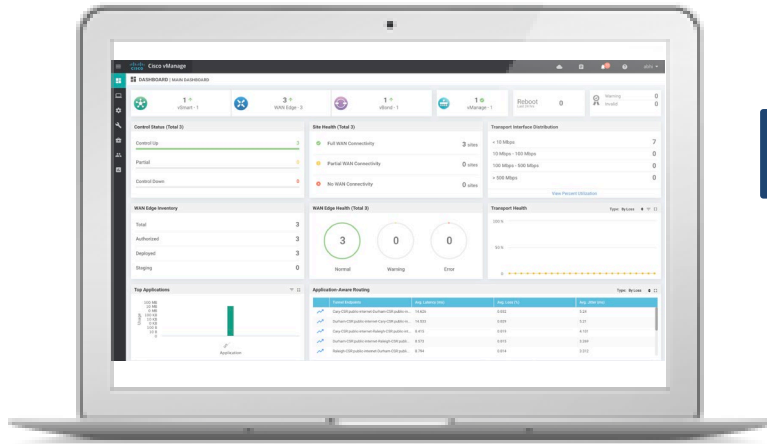


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Zero Touch Provisioning



Centralized Provisioning and Monitoring



vManage



Corporate

Guest

Wireless WAN

Carrier
Aggregation

Auto SIM
Failover

SIM OIR

SD-WAN ready

Category 18 Pluggable LTE Module



1.2Gbps/150Mbps

300Mbps/50Mbps

Active/Standby

Category 6 Pluggable LTE Module



Dying Gasp

Cisco Remote Workforce Routing Solution

Benefits

ISR 1000 Series Platform



Zero-trust fabric and end-to-end enterprise segmentation



High availability network access via LTE (5G ready) backhaul



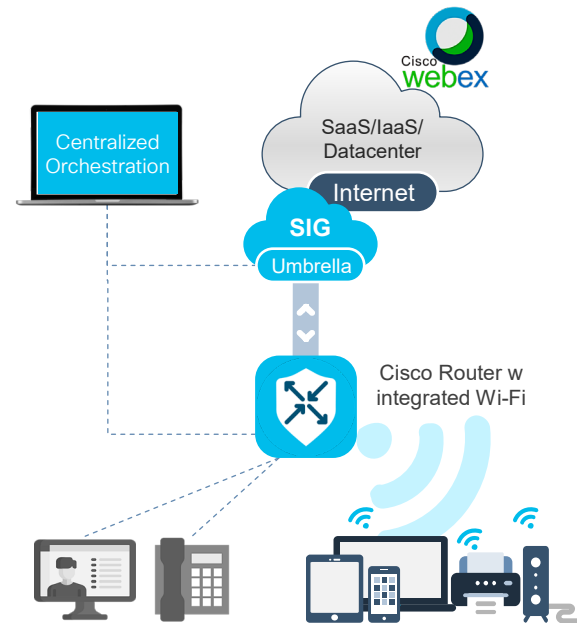
Centralized provisioning and management, at scale



Enhanced application experience via WAN optimization and Cloud OnRamp



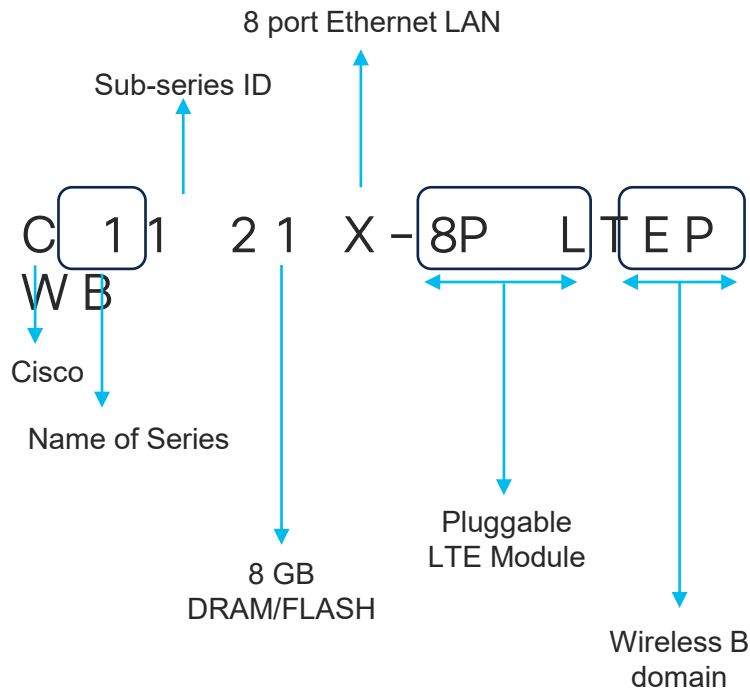
Advanced cloud security and threat protection



How to read a router PID – C1121X-8PLTEPWB

Supported Wireless Domains for C1121 *	
E	Europe
B	North America
Z	Australia/Brazil New Zealand
O	Japan

Supported Wireless Domains for C1121X *	
E	Europe
B	North America
Z	Australia/Brazil New Zealand
A	Canada

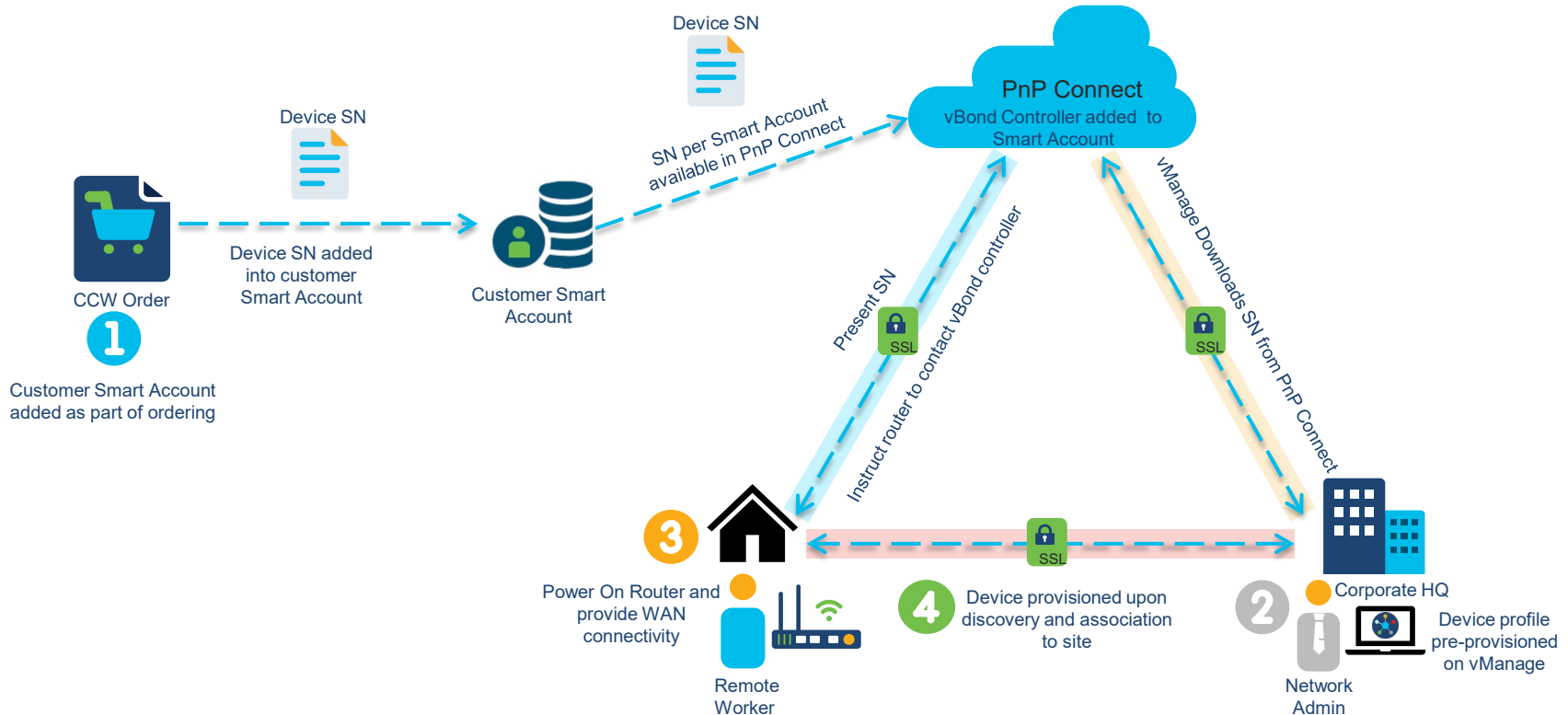


DSL PIDs	
C1126	DSL Annex B&J
C1127	DSL Annex A&M
C1128	G.SHDSL

Series Variants	
C112x	CPU 1.2 GHz
C1161	CPU 1.6 GHz

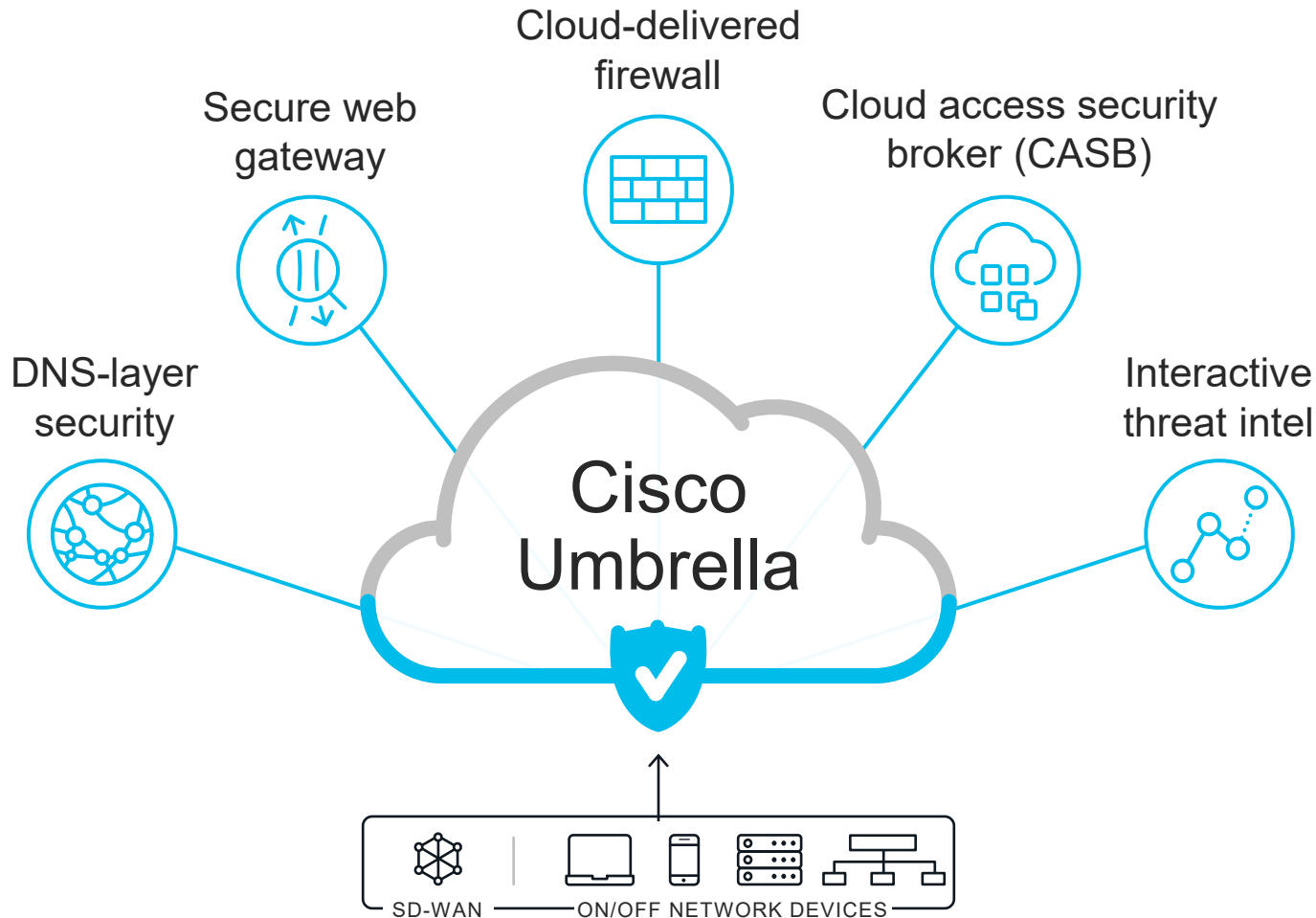
*For full list of country support for wireless domains, check backup slides

Day-0 Deployment using PnP Connect



Demo 1 – SD-WAN





Demo 2 – Umbrella SIG Integration

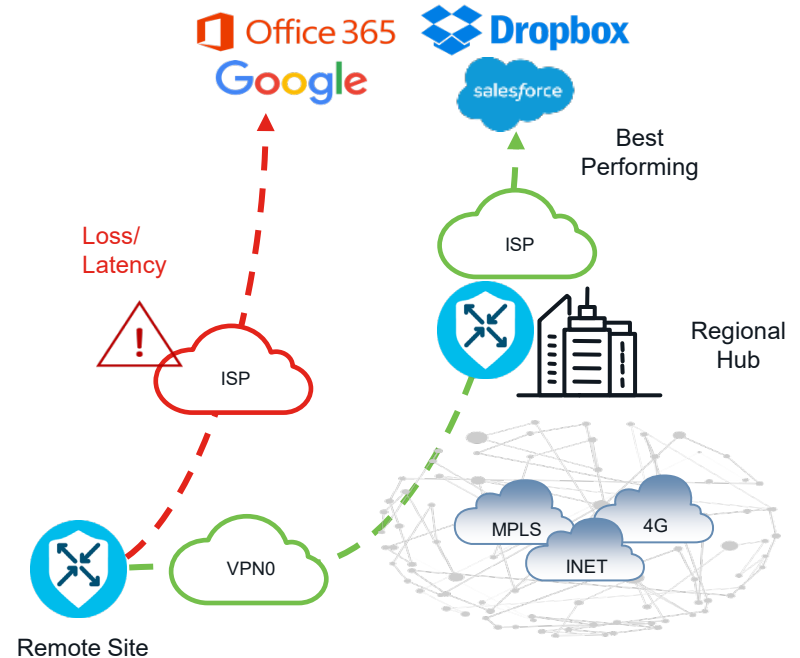


Single DIA Use Case

One of the recommended designs, for SaaS deployments

Cloud onRamp for SaaS continuously monitors the edge to SaaS performance on both DIA path and the backhaul path

Cloud onRamp for SaaS picks the best performing path based on the performance metrics (loss & delay)



Demo 3 – Cloud onRamp Integration



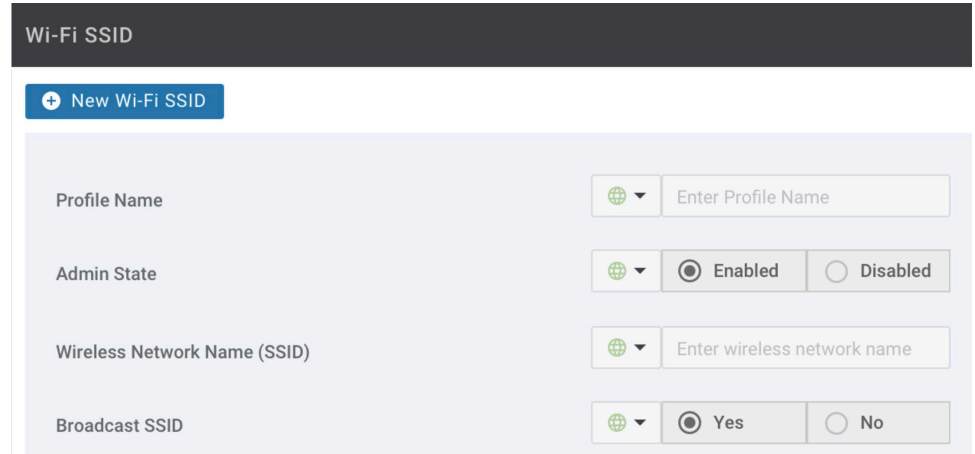
Sneak Peak – What's to come

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
vManage WiFi Management


- Configure WiFi for Mobility Express from vManage Dashboard
- Select WiFi feature template and configure SSIDs, radios, channels
- No need for external WLC for WiFi configuration





Wi-Fi SSID

+ New Wi-Fi SSID

Profile Name  Enter Profile Name

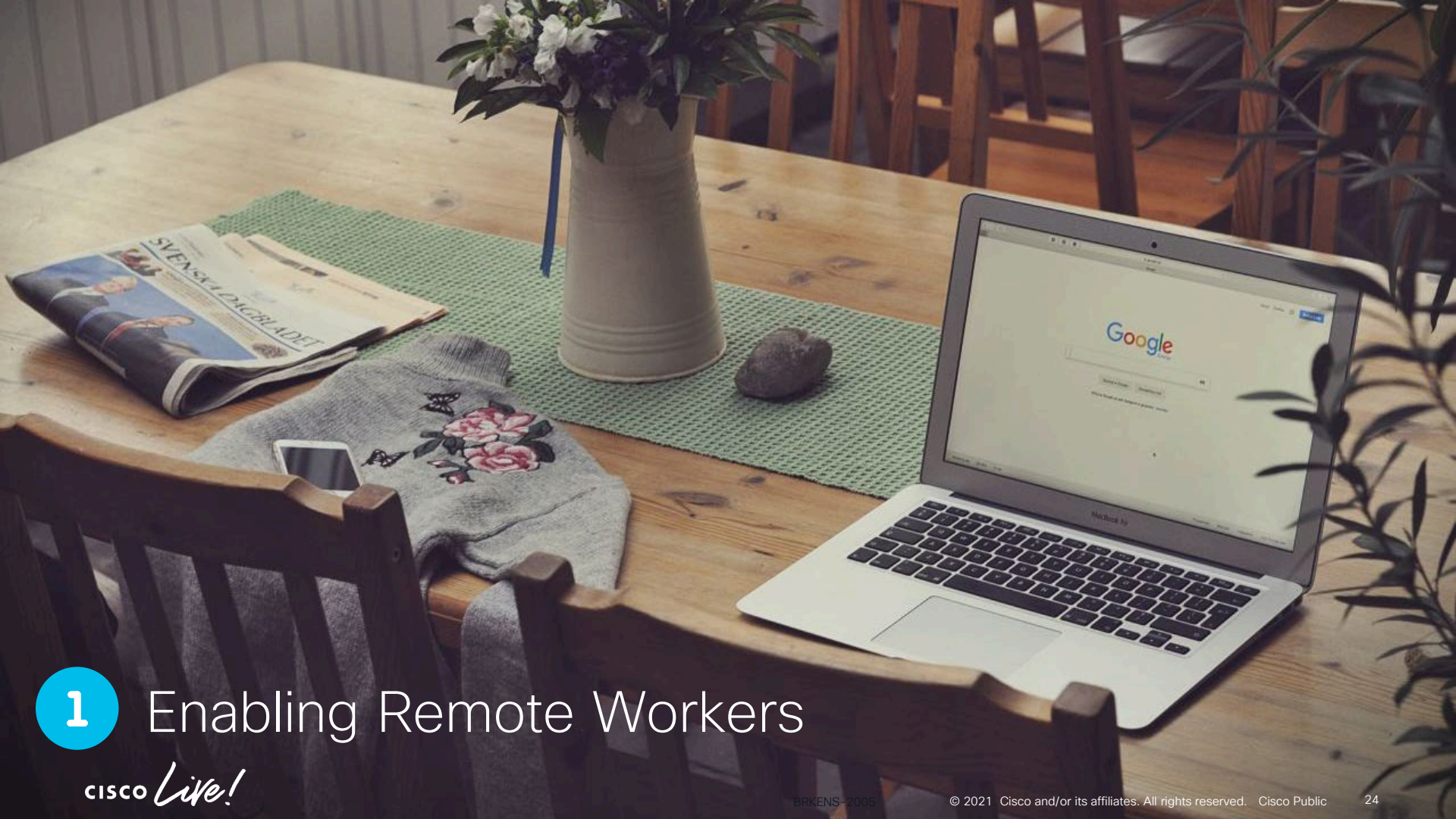
Admin State  ☒ Enabled ☐ Disabled

Wireless Network Name (SSID)  Enter wireless network name

Broadcast SSID  ☒ Yes ☐ No

Use Cases





1

Enabling Remote Workers

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Use Case: Segmentation



Control flow of traffic among end users: Stop all traffic in one part from reaching another, or limit the flow of traffic by type, source, destination

1

Improve Operational Performance

Reduced network congestion, improving WAN optimization and performance

2

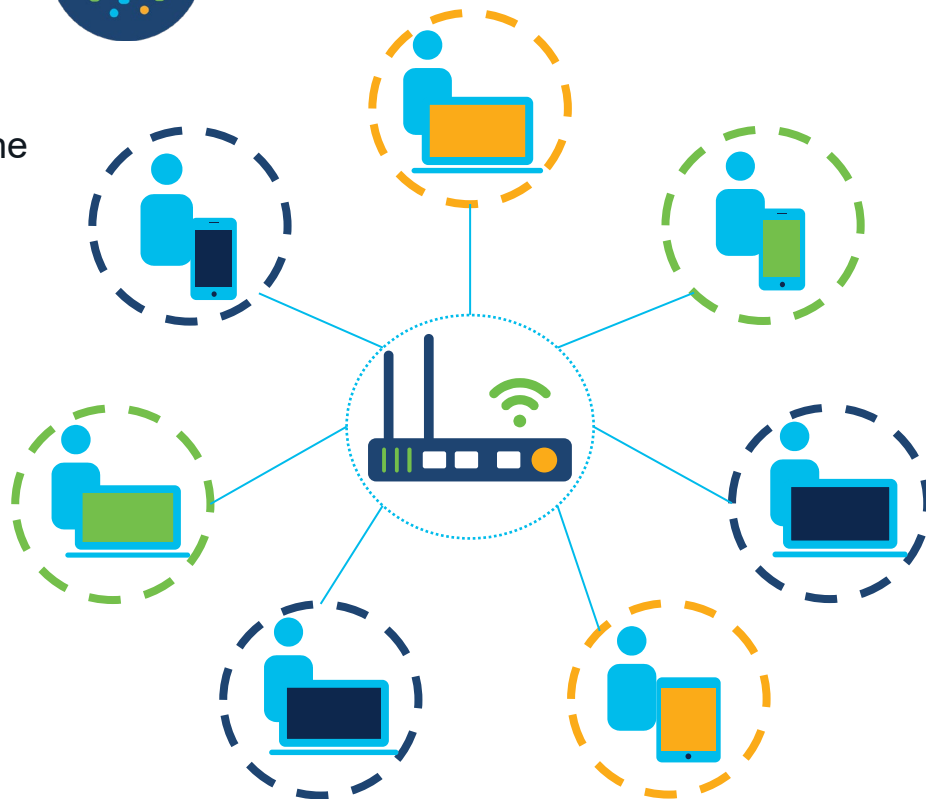
Limit cyberattack damage

Improve cybersecurity by limiting how far an attack can spread

3

Protect Vulnerable Devices

Stop harmful traffic from reaching devices that are unable to protect themselves from attack.





2 Supporting Temporary Healthcare

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Use Case: Temporary Health Care

Provide backhaul connectivity to healthcare facilities located outside Hospital buildings with router embedded security

1

High Availability

Allow dependable connectivity by utilizing LTE to wirelessly connect to data centers

2

Data Protection

Have enhanced accessibility to patient files while protecting it using security features on-box

3

Increase Footprint

Gain a broader reach of patients in regions otherwise inaccessible .





3 Facilitating Secure Transactions

Use Case: Financial Services

Policy based routing for secure access to confidential as well as non-sensitive data while protecting from man-in-the-middle attacks

1

Enhanced Application Experience

Enable tracking of performance indicators with centralized network analysis

2

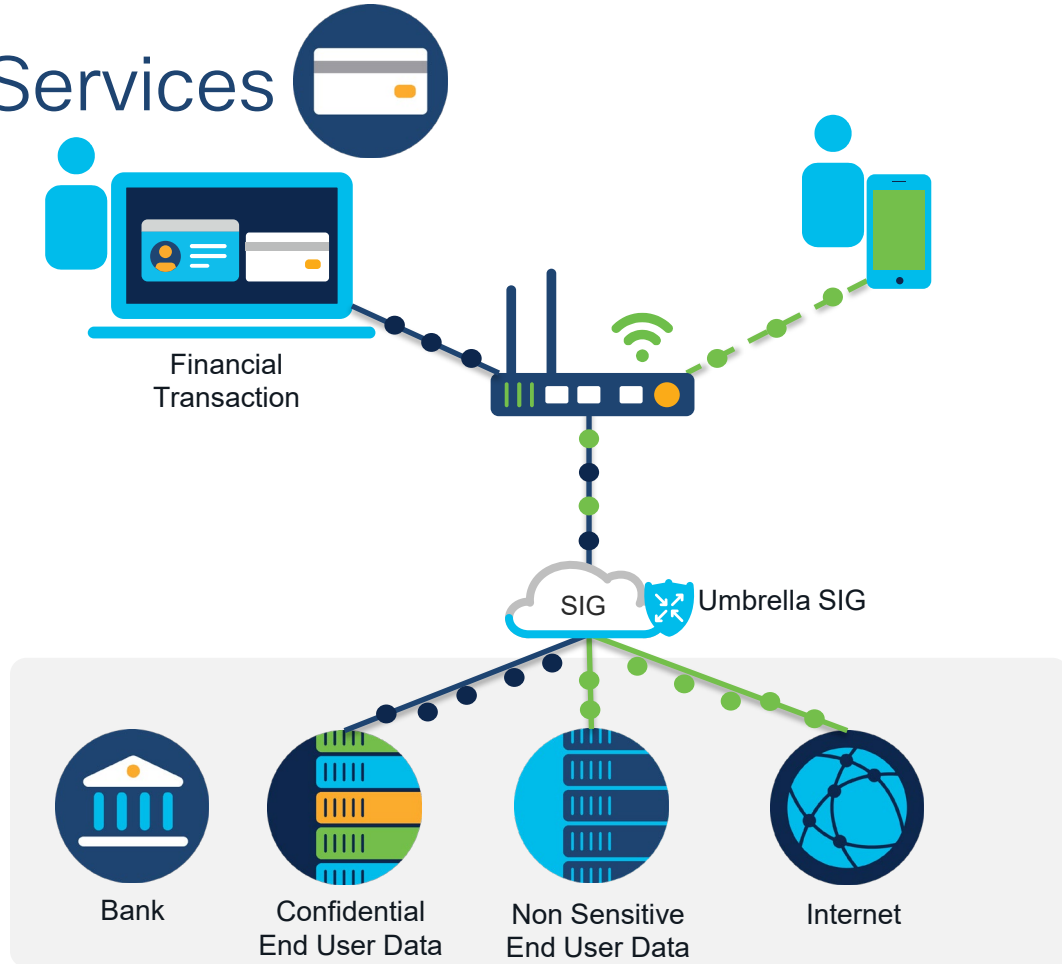
Security

Provide secure access to confidential data, using Umbrella cloud security and threat prevention

3

Connectivity

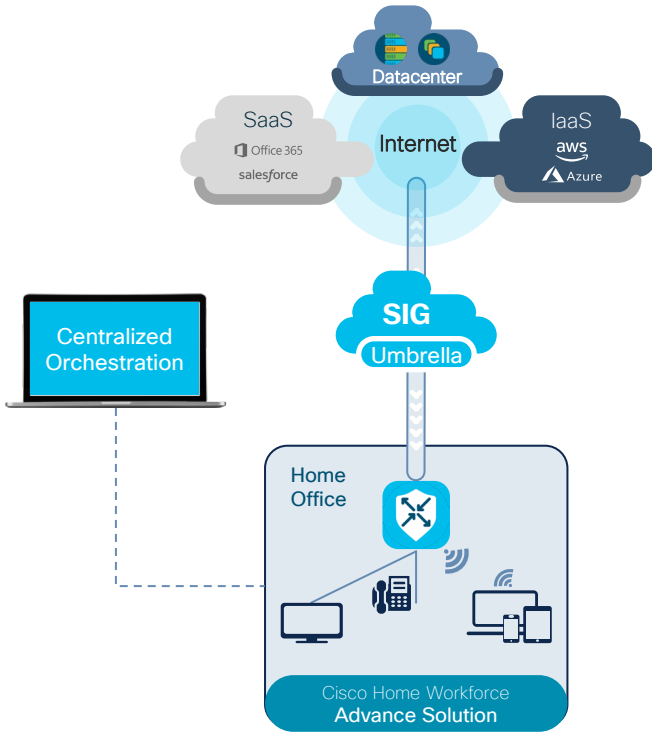
Experience reliable connectivity across network for daily operations



Summary



Summary



- **End – End Enterprise Security & Segmentation**

- Zero Trust Fabric & VPN Segmentation.
- Advance Threat Protection (IPS, URL Filtering, AMP)

- **Cloud Onramp & Security**

- Cloud Onramp with Advance DIA
- Cloud security with Umbrella

- **Enhanced Application Optimization & Experience**

- Application SLA and WAN Path Optimization with FEC, Packet duplication
- IP Multicast capabilities for time sensitive data

- **Fast Set Up and Simplified Management**

- ZERO touch provisioning (No Staging)
- Centralized Proactive Monitoring and Troubleshooting

- **High Availability & Investment Protection**

- 5G ready for backhaul
- Integrated Wi-Fi



The bridge to possible

Thank you

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