

# WiFi 7浪潮來襲，超前佈署，教學更多元

尤勒行 Ray Yu

技術顧問 Technical Consultant



# 最偉大的作品



# RUCKUS R770

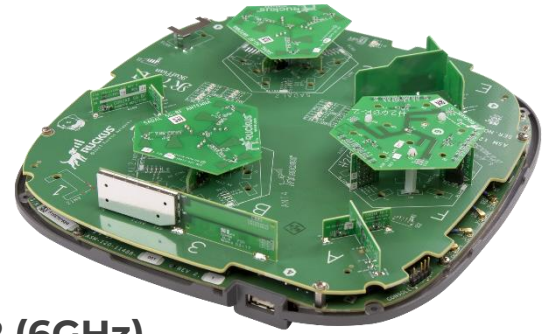
高密度乘載能力三頻 Wi-Fi 7 室內型無線  
基地台搭載10Gbps上行網路介面



2023年10月10日 全球發佈

## 核心技術

- **三頻運作 (2+5+6): 2x2 (2.4GHz) + 4x4 (5GHz) + 2x2 (6GHz)**
  - 三頻皆支援 Wi-Fi 7
  - 理論最大資料傳輸能力: **12.218 Gbps**
- **雙頻運作 (2+5): 2x2 (2.4GHz) + 4x4 (5GHz)**
  - 雙頻皆支援 Wi-Fi 7
  - 理論最大資料傳輸能力: **6.454 Gbps**
- **6GHz 頻段:** LPI, SP and AFC; GPS 室內定位, 802.11mc
- **RUCKUS 優勢:** Tx BeamFlex 在所有的頻段都支援; PD-MRC; Smart Mesh
- **乙太網路埠:** 1x 100M/1G/2.5G/5G/10Gbps PoE-In 埠 及 1x 10M/100M/1Gbps 埠
- **供電支援:** PoE-in (802.3bt) 或 48V 外接 DC 電源供應器
- **IoT:** 內建 IoT Radio: BLE 或 Zigbee; 具備 USB 2.0 提供外接IoT擴充支援
- **資安保護:** TPM 2.0; Secure Boot; DPSK3; FIPS 140-3
- **運作環境:** 運作溫度 -10 – 50 C
- **控制管理:** RUCKUS SmartZone 7.0; RUCKUS One; RUCKUS Unleashed



# RUCKUS Wi-Fi 6/6E/7 AP Portfolio



## Indoor



**R850**  
**Wi-Fi 6: 8x8 (5G) 4800Mbps + 4x4 (2G) 1148Mbps**  
**IoT: BLE & Zigbee selectable Ethernet: 5GE**



**R750**  
**Wi-Fi 6: 4x4 (5G) 2400Mbps + 4x4 (2G) 1148Mbps**  
**IoT: BLE & Zigbee selectable Ethernet: 2.5GE**



**R650**  
**Wi-Fi 6: 4x4 (5G) 2400Mbps + 2x2 (2G) 574Mbps**  
**IoT: BLE & Zigbee concurrent Ethernet: 2.5GE**



**R550**  
**Wi-Fi 6: 2x2 (5G) 1200Mbps + 2x2 (2G) 574Mbps**  
**IoT: BLE & Zigbee selectable Ethernet: 1GE**



**R350**  
**Wi-Fi 6: 2x2 (5G) 1200Mbps + 2x2 (2G) 574Mbps**  
**IoT: No onboard IoT Ethernet: 1GE**

## Indoor Wall Plate



**H550**  
**Wi-Fi 6: 2x2 (5G) 1200Mbps + 2x2 (2G) 574Mbps**  
**IoT: BLE & Zigbee concurrent Ethernet: 1GE**



**H350**  
**Wi-Fi 6: 2x2 (5G) 1200Mbps + 2x2 (2G) 574Mbps**  
**IoT: BLE & Zigbee selectable Ethernet: 1GE**

## Outdoor



**T750 & T750se**  
**Wi-Fi 6: 4x4 (5G) 2400Mbps + 4x4 (2G) 1148Mbps**  
**IoT: BLE & Zigbee selectable Ethernet: 2.5GE**



**T350 & T350se**  
**Wi-Fi 6: 2x2 (5G) 1200Mbps + 2x2 (2G) 574Mbps**  
**IoT: BLE & Zigbee selectable Ethernet: 1GE**  
 (No onboard IoT for T350se)



**R760** **WiFi 6E**

**Wi-Fi 6E: 4x4 (6GHz) 4800Mbps + 4x4 (5GHz) 2400Mbps + 4x4 (2GHz) 1148Mbps**  
**IoT: BLE & Zigbee selectable Ethernet: 10GE**  
 LPI and SP modes\* supported



**R770** **WiFi 7**

**Wi-Fi 7: 2x2 (6GHz) 5765Mbps + 4x4 (5GHz) 5765Mbps + 2x2 (2GHz) 689Mbps**  
**IoT: BLE & Zigbee selectable Ethernet: 10GE**  
 LPI and SP modes\* supported  
 GA: Q4, 2023

# Wi-Fi Alliance 計畫 – Only RUCKUS



Wi-Fi Alliance® introduces Wi-Fi CERTIFIED 7™

Companies including **Broadcom**, **CommScope RUCKUS Networks**, **Intel**, **MaxLinear**, **MediaTek**, and **Qualcomm** form the test bed for certification and are among the first Wi-Fi CERTIFIED 7 devices.

throughput, deterministic latency, and greater reliability for critical traffic. New use cases – including multi-user AR/VR/XR, immersive 3-D training, electronic gaming, hybrid work, industrial




IoT, and automotive – will advance as a result of the latest Wi-Fi generation. Wi-Fi CERTIFIED 7 represents the culmination of extensive collaboration and innovation within Wi-Fi Alliance®, facilitating worldwide product interoperability and a robust, sophisticated device ecosystem.

<https://www.wi-fi.org/news-events/newsroom/wi-fi-alliance-introduces-wi-fi-certified-7>

## CERTIFIED

# 如何準備 WiFi 7

- 重新的 Site Survey
  - Shortest range => 2 dB diff between 5GHz and 6GHz
- POE Switch夠力嗎? Multigigabit and 802.3bt class 8

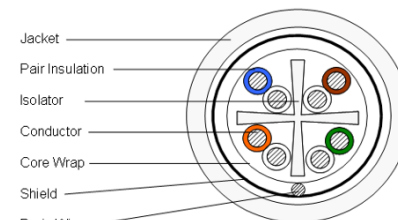
	ICX 7650-48ZP Premium Multigig	ICX 8200-Series	ICX 7150-48ZP Mid-Range Multigig
			
2.5/5/10 GbE	✓ 24 ports	✓ 4 x 1/10/25 GbE	
2.5 GbE		✓ 8 / 16 / 24 Ports	✓ 16 ports
90W PoE	✓ 24 ports	✓ 4 / 16 / 24 Ports	✓ 16 ports

SYSTIMAX GigaSPEED X10D

Cat 6A F/UTP

- 線材支援嗎?

Environment	SYSTIMAX Product Number
PVC	1291B
LSZH	3291B



SYSTIMAX 1291B F/UTP



真的需要Wi-Fi 7 嗎 ??? 還是Wi-Fi 6 即可 ???

# 傳統教室



# 智慧教室





# RUCKUS X ViewSonic 打造未來智慧教室



# 恐龍、孔明就在你眼前



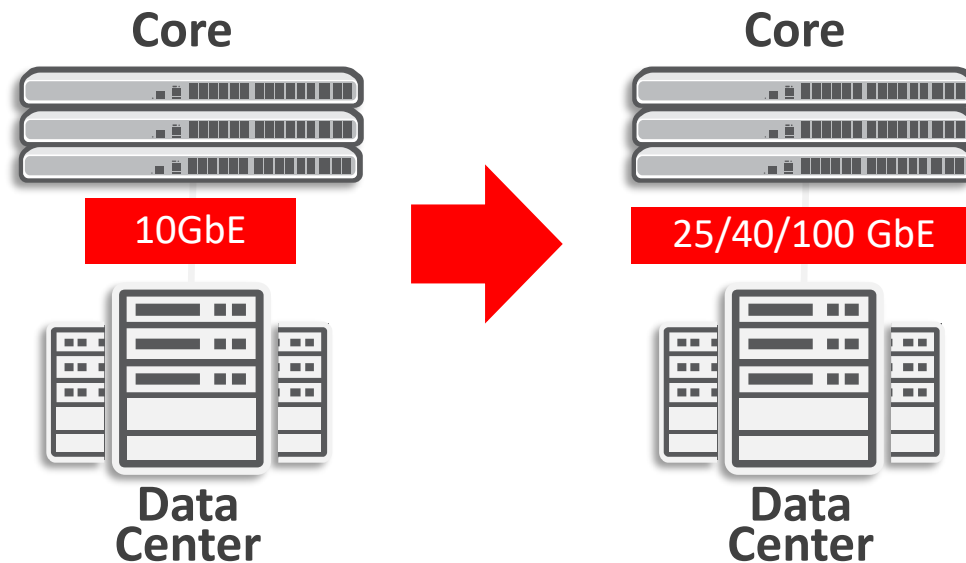
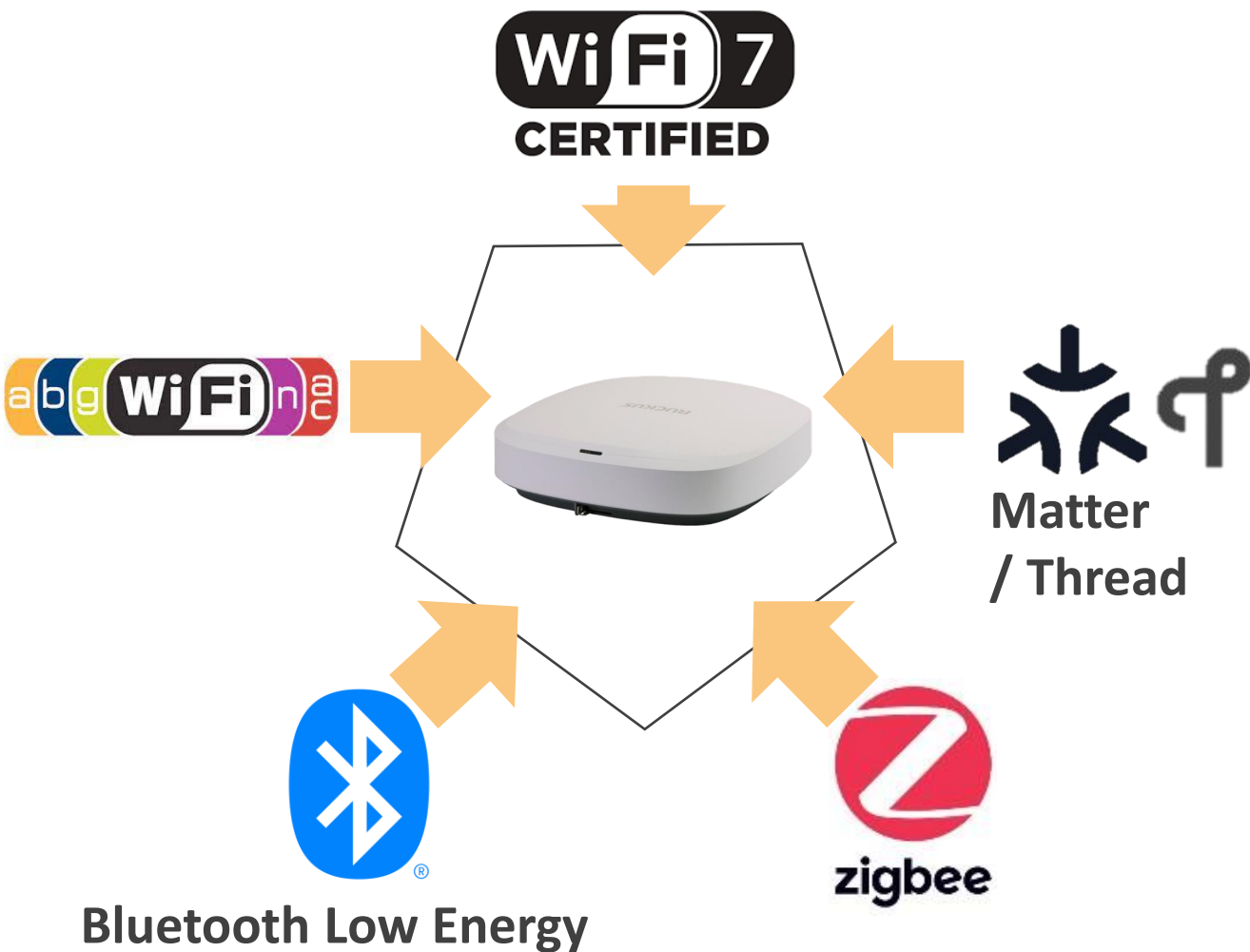
# 萬物AI時代即將來臨



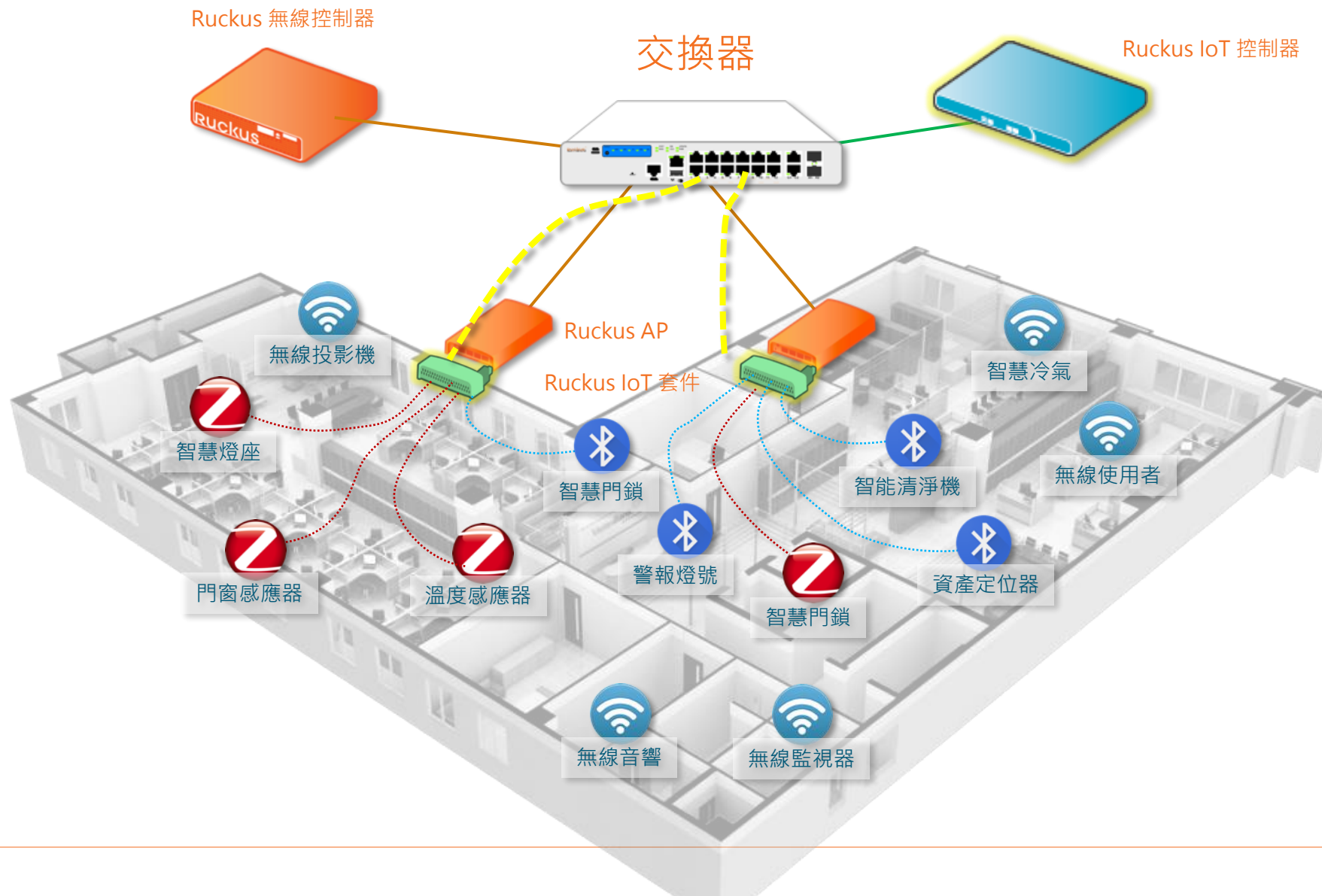
# 萬物AI時代來臨 會改變什麼

## 終端的連接

## Server 端的運算



# RUCKUS AP 是 IoT GW，讓您應用千變萬化



# RUCKUS IoT Solution 架構



## Device



## Gateway

### Access Point



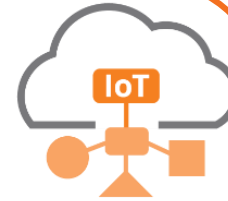
RUCKUS IoT Gateway AP's  
Multiple IoT Radios (*up to 3*)

- Onboard IoT radio
- IoT USB dongle

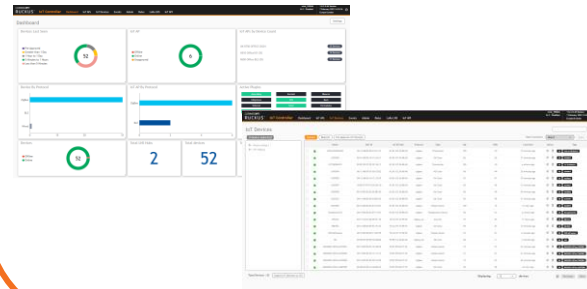


## Control/Manage

### IoT Controller



- Central Management Platform
- Device Onboarding
- Single point of management
- Secure IoT Network & API Control



## Applications

### IoT Insights



Service and Solutions Platform

Aggregate data from:

- IoT controller
- Third party platform

Build solutions and scenarios



# RUCKUS IoT整合 Sensor



## Building Management & Control

- Lights
- Locks
- Thermostat
- Wall light switch
- Switched outlets (smart plug)
- Blinds/Shades
- Cameras
- CO<sub>2</sub> sensor
- Motion
- Door Contact
- Water Leak

**telkonet**  
ENERGY MANAGEMENT



**AXIS**  
COMMUNICATIONS  
**I/CONFIGURE**  
VIDEO / VMS



**SmartThings**  
HOME AUTOMATION



**ASSA ABLOY**  
CONNECTED ENTRY



**dormakaba**  
CONNECTED ENTRY



STANDARD BLE / ZIGBEE



## Safety and Security

- Locks
- Cameras
- Panic Button / Staff Safety
- Siren Alarm

**TraknProtect**  
PANIC BUTTON



**AVSYSTEM**  
**kontakt.io**  
LOCATION SERVICES



## Location Based Services

- Staff Safety / Panic Button
- Location Based Services
- BLE Beacons
- Asset Tracking

**REACT**  
mobile  
PANIC BUTTON



**somfy**  
MOTORISED WINDOW COVERING



**SALTO**  
CONNECTED ENTRY



# IoT Solution Config

Configuration Management

## New RuckusRule

? IF	i THEN	✓ DO																					
<p>Device</p> <p>RKSUK01 : AB-Office-DOOR01</p> <p>Type</p> <p>contact</p> <p>Condition</p> <p>=</p> <p>Value</p> <p>open</p> <p>LOCK</p>		<p>Device.</p> <table border="1"><tr><td>ID</td><td>Device</td><td>command</td><td>eye</td><td>trash</td></tr></table> <p>SMS.</p> <table border="1"><tr><td>ID</td><td>To</td><td>eye</td><td>trash</td></tr></table> <p>e-Mail.</p> <table border="1"><tr><td>ID</td><td>To</td><td>eye</td><td>trash</td></tr></table> <p>REST.</p> <table border="1"><tr><td>ID</td><td>url</td><td>eye</td><td>trash</td></tr></table> <p>MQTT.</p> <table border="1"><tr><td>ID</td><td>Topic</td><td>eye</td><td>trash</td></tr></table> <p>UPLOAD</p>	ID	Device	command	eye	trash	ID	To	eye	trash	ID	To	eye	trash	ID	url	eye	trash	ID	Topic	eye	trash
ID	Device	command	eye	trash																			
ID	To	eye	trash																				
ID	To	eye	trash																				
ID	url	eye	trash																				
ID	Topic	eye	trash																				



## Access Control

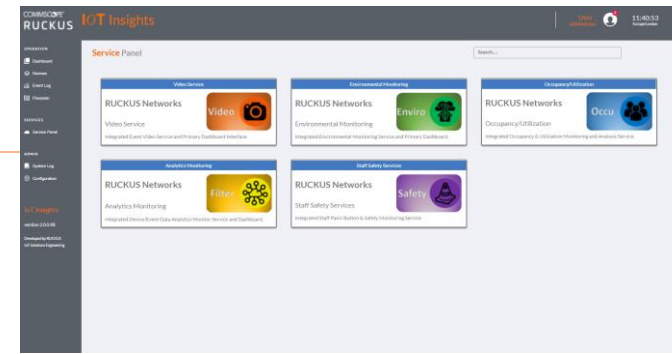
Connected Unit & general area doorways  
 Rules based alerting and actions  
 Enable app-based access

## Occupancy Monitoring

Room, Floor Based Location Selection  
 Utilization/Occupancy Analysis  
 Time/Day/Date Reporting and Graphing

## Video Event Playback






Location/Sensor Based Video Mapping  
 Recall Video for ANY IoT Event  
 Instant Event Video Playback and Export



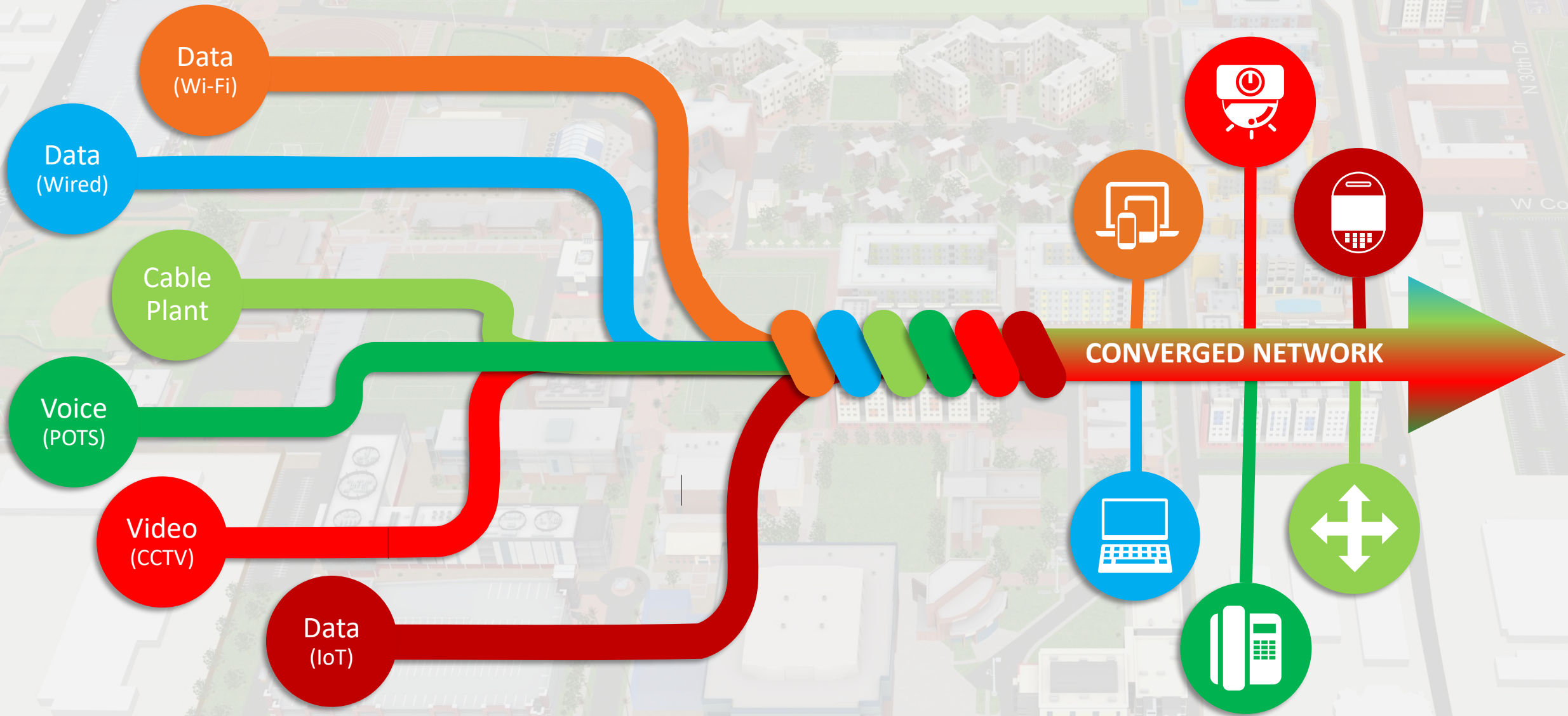
ID	Device	Type	Time	Camera
1085439	LoRa-Desk01	occupancy	07/02/2022, 17:05:57	F44-Office
1085438	RKSUK01-Office-PIR01	motion	07/02/2022, 17:05:56	F44-Office
1085436	PIR02	motion	07/02/2022, 17:05:50	F44-Lab
1085435	zwavepir01	motion	07/02/2022, 17:05:48	F44-Office
1085432	RKSUK01-Office-PIR01	motion	07/02/2022, 17:05:40	F44-Office
1085431	DOOR04	contact	07/02/2022, 17:05:39	F44-Office
1085430	zwavepir01	motion	07/02/2022, 17:05:17	F44-Office
1085429	PIR02	motion	07/02/2022, 17:05:17	F44-Lab
1085428	RKSUK01-BLE-Door01	contact	07/02/2022, 17:05:16	F44-Office
1085424	CICTHERMO01	motion	07/02/2022, 17:05:15	Hall_Cam
1085423	PIR02	motion	07/02/2022, 17:05:15	F44-Lab
1085421	CICTHERMO01	motion	07/02/2022, 17:05:01	Hall_Cam
1085419	PIRTEST02	motion	07/02/2022, 17:04:50	F44-Office
1085418	zwavepir01	motion	07/02/2022, 17:04:47	F44-Office
1085416	PIR02	motion	07/02/2022, 17:04:30	F44-Lab
1085415	PIR02	motion	07/02/2022, 17:04:28	F44-Lab
1085414	RKSUK01-Office-PIR01	motion	07/02/2022, 17:04:25	F44-Office
1085413	RKSUK01-BLE-Door01	contact	07/02/2022, 17:04:16	F44-Office
1085409	CICTHERMO01	motion	07/02/2022, 17:04:14	Hall_Cam
1085407	zwavepir01	motion	07/02/2022, 17:04:14	F44-Office

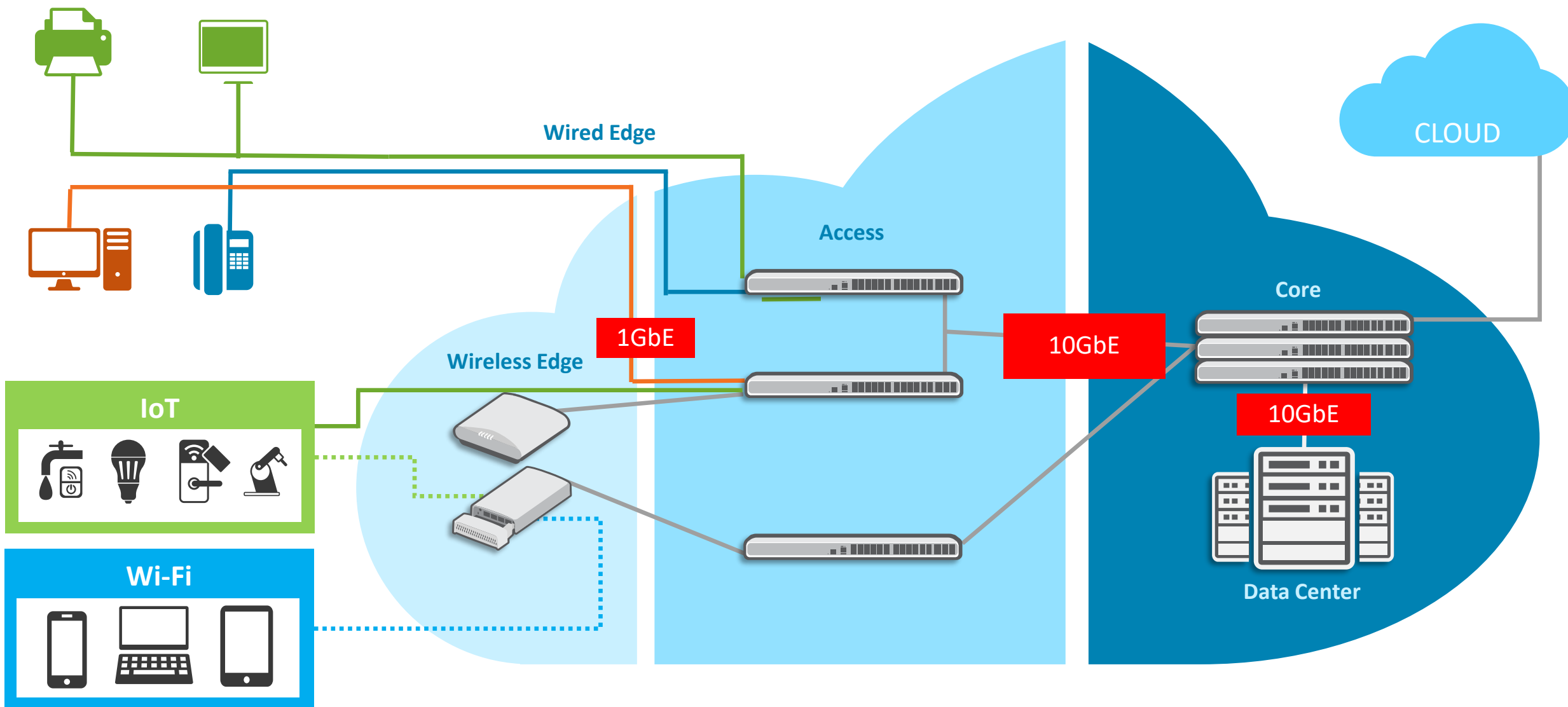
Location: RKSUK01 : Office	
Event ID: 1085439	Event Time: 07/02/2022, 17:05:57
Camera: F44-Office	Preview: 5 Seconds
Device: LoRa-Desk01	Type: occupancy
value: occupied	
Comment: Office LoRa-Desk01 Event from Insights 2.0 Service	

Solution	Description	Protocols	Icon	License	Verticals
Analytics	Configurable Visualization of ALL IOT Event Data over Date & Type	ALL		Free	SMB, EDU, K12, MDU, HED, MWL, RET, HSP
Environment	Visualize Environmental Data over time and view data based on the Selected Device	ALL		Free	SMB, EDU, K12, MDU, HED, MWL, RET, HSP
API Documentation	Full Documentation and Examples for the Insights API and Interface for Recovery of Data	N/A		Free	SMB, EDU, K12, MDU, HED, MWL, RET, HSP
Staff Safety	Dashboard and Notification Rules for Panic/Help Buttons with Sound/Bullying and Glass break detection.			IOT-SOPM-SRKS-MSP	EDU, K12, MDU, HED, HSP
Occupancy	Visualize and Analyse Occupancy in Buildings over time and Identify Locations and Peak times of usage			IOT-SOPM-SRKS-MSP	SMB, EDU, K12, HED, MWL, RET
Video	Recall IOT Events easily with a single click and view the video of the event within the dashboard or Solution	ALL		IOT-SOPM-SRKS-MSP	SMB, EDU, K12, MDU, HED, MWL, RET, HSP
Door Safety	Identify Open Doors and fire Risks easily with Notifications floorplans and Video event recall			IOT-SOPM-SRKS-MSP	EDU, K12, MDU, HED
Building Manager	Filter and recall ESG data based on the Location and Compare data easily with syntonised Time view	ALL		IOT-SOPM-SRKS-MSP	SMB, EDU, K12, MDU, HED, MWL, RET, HSP
Location Services	Track monitor and Visualize on Maps and floorplans the location of Users/Devices/Assets in a single dashboard			IOT-SOPM-SRKS-MSP	SMB, EDU, K12, MDU, HED, MWL, RET, HSP
Warehouse Manager	Manage your Warehouse assets and Goods & manifests then Visualize them on the Location Services Solution			IOT-SOPM-SRKS-MSP	MWL
Student Safety	Dashboards and Notifications for Students Vaping or Being Bullied, Integrated with Floorplans and Video recall			IOT-SOPM-SRKS-MSP	EDU, K12, HED
Medical Assistance	Dashboard all Medical Assistance events for your assisted living with panic & help button Support			IOT-SOPM-SRKS-MSP	MDU
Battery Manager	Report and Review IOT devices and identify ones that need Batteries changing and Scheduled maintenance	ALL		IOT-SOPM-SRKS-MSP	SMB, EDU, K12, MDU, HED, MWL, RET, HSP

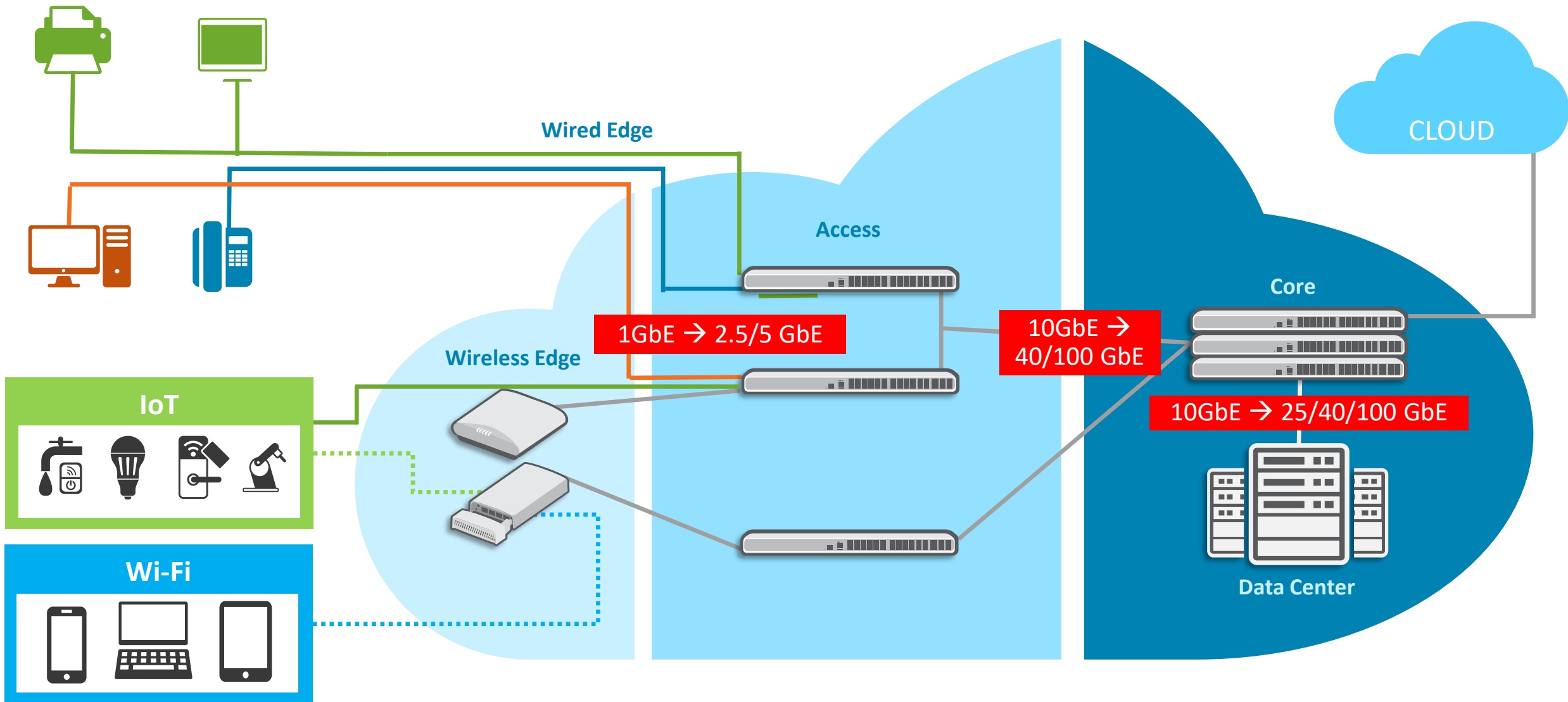
# RUCKUS讓您所有設備只要一條



# 現有網路環境



# 下世代網路環境



# Ruckus ICX Switch Portfolio (Simplified)

Aggregation/Core

Access

## ICX 7850

Premium Aggregation-Core



## ICX 7550

Access-Aggregation



NEW

## ICX 8200

Entry-Level+ Access



## ICX 7150 Z-Series

Multigigabit Entry-Level Access



## ICX 7150

Entry-Level Access



# 全新世代規格交換器

## Advanced Functionality

- Uplink Port 25GE SFP28
- VXLAN

## Next Generation SPEC









- More MGig Port
- POE : 802.3bt , 90W
- **MADE IN TAIWAN**

## High Value Features Included

- Stacking 12 x
- 3 Years TAC Support





# ICX 8200 Phase 1: Gigabit Access




Part Number, Description	Port Configuration	
<b>ICX8200-24</b> 24 Port	24x 10/100/1000 4x 1/10/25GbE SFP28	
<b>ICX8200-48</b> 48 Port	48x 10/100/1000 4x 1/10/25GbE SFP28	
<b>ICX8200-24P</b> 24 Port PoE	24x 10/100/1000 802.3at Class 4 PoE, 370W budget 4x 1/10/25GbE SFP28	
<b>ICX8200-48P</b> 48 Port PoE	48x 10/100/1000 802.3at Class 4 PoE, 370W budget 4x 1/10/25GbE SFP28	
<b>ICX8200-48PF</b> 48 Port PoE Double Budget	48x 10/100/1000 802.3at Class 4 PoE, 740W budget 4x 1/10/25GbE SFP28	
<b>ICX8200-48PF2-E</b> 48 Port PoE Dual FRU PSU & Fan (with 1 PSU & Fan)	48x 10/100/1000 802.3at Class 4 PoE, 740W budget 4x 1/10/25GbE SFP28	
<b>ICX8200-48PF2-E2</b> 48 Port PoE Dual FRU PSU & Fan (with 2 PSU & Fan)	48x 10/100/1000 802.3at Class 4 PoE, 1440W budget 4x 1/10/25GbE SFP28	
<b>ICX8200-C08PF</b> 8 Port Compact PoE 10GE Uplink	8x 10/100/1000 802.3at Class 4 PoE, 124W budget 2x 1/10GbE SFP+	



# ICX 8200 Phase 2: MultiGigabit Access

Part Number, Description	Port Config	
<b>ICX8200-24ZP</b> 24 Port Multigigabit Ethernet PoE	24x 100/1000/2.5 802.3bt Class 8 PoE, 740W budget 4x 1/10/25GbE SFP28	
<b>ICX8200-48ZP2-E</b> 48 Port Multigigabit PoE Dual FRU PSU & Fan (with 1 PSU & Fan)	32x 10/100/1000 802.3at Class 4, 16x 100/1000/2.5 802.3bt Class 8 PoE, 740W budget 4x 1/10/25G SFP28	
<b>ICX8200-48ZP2-E2</b> 48 Port Multigigabit PoE Dual FRU PSU & Fan (with 2 PSU & Fan)	32x 10/100/1000 802.3at Class 4, 16x 100/1000/2.5 802.3bt Class 8 PoE, 1480W budget 4x 1/10/25G SFP28	
<b>ICX8200-C08ZP</b> 8 Port Compact Multigigabit PoE	4x 100/1000/2.5 802.3bt Class 8, 4x 1/2.5/5/10 802.3bt Class 8 PoE, 240W budget 2x 1/10/25GbE SFP28	

# ICX 8200 Phase 2: Fiber Access

Part Number, Description	Port Config	
<b>ICX8200-24F</b> 24 Port 1GE Fiber	24x 1G SFP 4x 1/10/25GbE SFP28	
<b>ICX8200-48F</b> 48 Port 1GE Fiber	48x 1G SFP 4x 1/10/25GbE SFP28	
<b>ICX8200-24FX</b> 24 Port 10GE Fiber	16x 1/10G SFP+ 8x 1/10/25GbE SFP28	

# 承上啟下的7550 系列

## Non-POE



Connectivity for computers, printers, etc.  
Small DC ToR

- Standard 1G connectivity
- Campus wiring closet
- ToR 1G switch
- Resilient design
- Uplink options 40G / 10G

## Classic POE



Connectivity for non-wifi6 APs other PoE devices

- Traditional POE Ethernet
- Campus wiring closet
- Large PoE budget
- Uplink options 40G / 10G

## Mid-Range Multi-Gigabit



Connectivity for wifi6 APs larger PoE devices

- 2.5/5G multi-gigabit Ethernet
- High power PoE
- Large PoE budget
- Uplink options 40G / 10G / 100G

## Fiber Aggregation/ToR







1/10G Fiber Aggregation/Core

- Small Campus Core
- Campus aggregation
- 24 x 10G version
- Uplink options 40G / 10G / 100G

Mix and match any combination in a unified stack

# 資料中心的核心/匯集 - 7850 Family



	ICX 7850-32Q	ICX 7850-48FS	ICX 7850-48F	ICX 7850-48C
				
<b>Positioning</b>	High Density 40/100GbE Premier Core	1/10GbE Aggregation MACsec 256, LRM Optics	1/10/25GbE Aggregation	1/10 GbE Copper TOR
<b>Use Case(s)</b>	Large Core Data Center Spine	Secure Aggregation Legacy Fiber OM1/OM2	Medium Core, Agg Data Center Leaf	Data Center Leaf 10Gbps Copper Agg Workstation Interconnect
<b>Audience/ Target Market</b>	Enterprise Traditional Ruckus Verticals* Small/Medium datacenter	Enterprise Traditional Ruckus Verticals* Federal, MSO/CSP	Enterprise Traditional Ruckus Verticals* Small/Medium datacenter TOR	Enterprise Traditional Ruckus Verticals* Small/Medium datacenter TOR



**32-port QSFP28**  
 - 40GE or 100G native  
 - Breakout 4x 10G or 4x 25G

# RUCKUS All in One Managed

SmartZone Network Controller



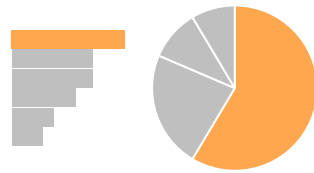
*One network element: A SmartZone network controller*

# All in One Managed



## 新一代SmartZone - 單一系統管理有線與無線網路設備

SmartZone



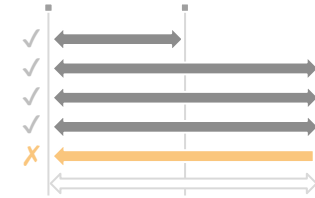
### 創新儀表板

快速存取網路狀態，聚焦重點跟解析問題



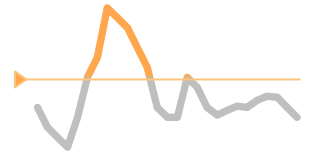
### 地圖整合

可以快速看到大樓及樓層的基地台狀態及所在位置



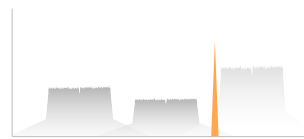
### 連線故障分析

找出連線流程中遇到的問題及中斷癥結



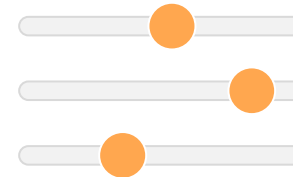
### 基地台健康

標誌基地台，可以簡單地找到效能相對不佳的基地台



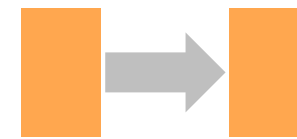
### 頻譜分析

使用基地台作為訊號干擾問題分析及問題排除



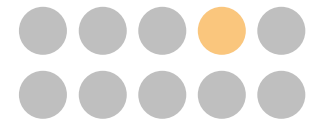
### 應用程式控管

針對應用程式下達禁止、限制或重新配置應用程式優先級別來控制使用量



### 有線無線功能設定

透過SZ無論有線無線設備皆可統一控管及配置



### 連線裝置追蹤

無論有線無線使用者，只要連線SZ皆可將連線軌跡呈現

# 控制器支援多世代AP



## Supported zones

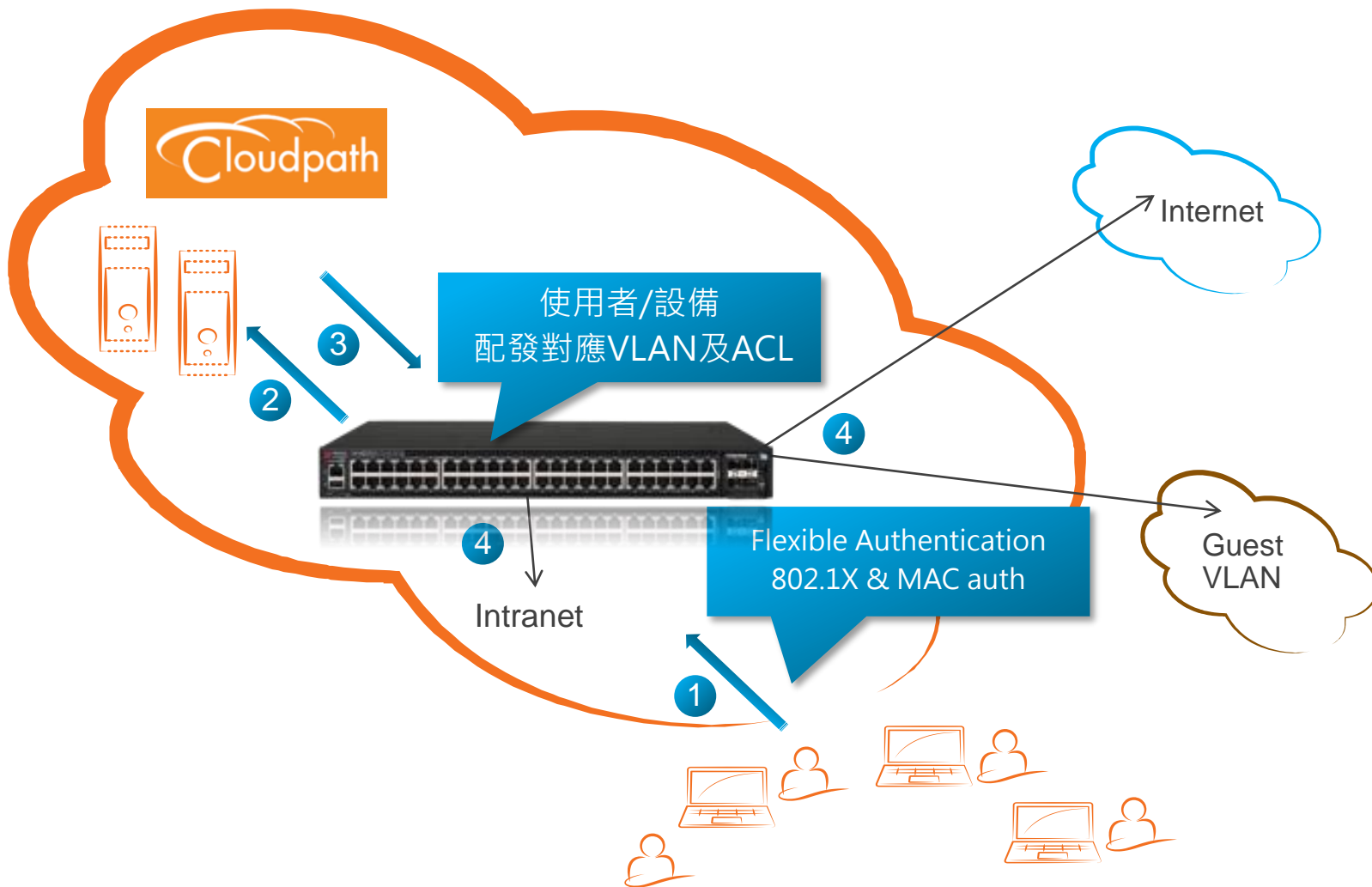
### AP zones

SZ	3.1.2/3.2.1	3.4.2 (GD)	3.5.x (ST)	3.6.0/3.6.1 (LT)	3.6.2 (GD)	5.0 (ST)	5.1.x (ST)	5.2.0/5.2.1 (LT)	5.2.2 (GD)	6.0 (ST)	6.1 (LT)	6.1.1 (LT)	6.1.2 (GD)**
3.4.2 (GD)	Y	Y											
3.5.x (ST)		Y	Y										
3.6.2 (GD)		Y	Y	Y	Y								
5.0 (ST)				Y	N*	Y							
5.1.x (ST)					Y	Y	Y						
5.2.0/5.2.1 (LT)					Y		Y	Y					
5.2.2 (GD)					Y		Y	Y	Y				
6.0 (ST)								Y	Y	Y			
6.1 (LT)					N			Y	Y	Y	Y		
6.1.1 (LT)					Y				Y	Y	Y	Y	
6.1.2 (GD)**					Y				Y	Y	Y	Y	Y

\*5.0 release occurred before 3.6.2, therefore, upgrade from 3.6.2 not supported and R5.0 can not support 3.6.2 image zone

\*\* future release number and is subject to change

# CloudPath 提供集中認證及安全政策管理



## 支援功能:

- 802.1X 認證
- MAC 認證
- Web 網頁認證
- 提供多重認證機制 (802.1X, MAC auth)
- 隔離未通過認證設備
- CoA (Change of Authorization)



# 一個 SSID 完成所有事情

## Day 1

### BYOD Devices



- Employees
- Students/faculty
- Contractors

### Guest Devices



- Partners
- Customers
- Any visitor

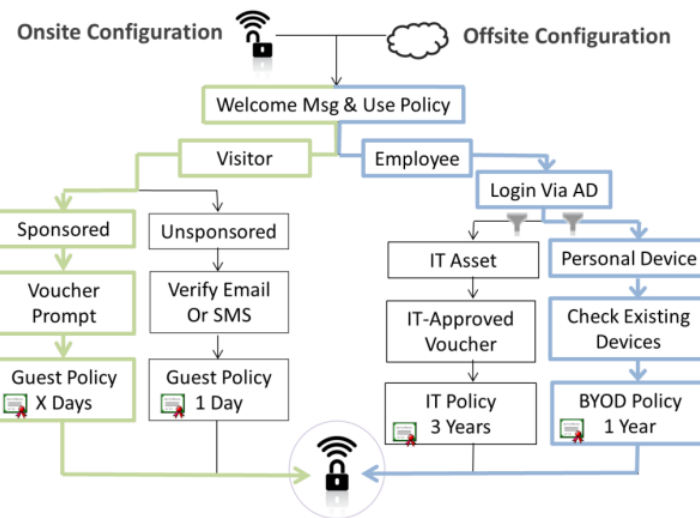
### IT-owned Devices



- IT-owned laptops, mobile, and IoT
- Scanners
- Printers



Self-Service Onboarding Portal for All Users and All Devices



## Day 2+



### Effortless Connectivity

- Automatically connects
- No splash page
- Fully authenticated
- Role-based policies
- Encrypted session

# 彈性佈建與Per-User授權

Cloud

On  
Premises  
(VM)

Subscription

Subscription

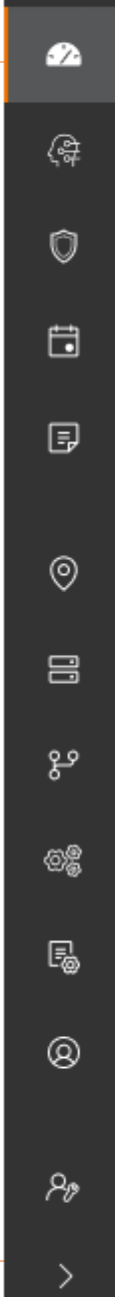
Perpetual

	Cloudpath Enrollment System	Cisco ISE	Aruba ClearPass
Secure network access for BYOD, guests, and IT-owned devices	✓	✓	✓
Vendor agnostic	✓	✓	✓
Choice of <b>on-premises</b> or <b>cloud-based</b> deployment	✓	—	—
Easiest to deploy and manage	✓	—	—
Superior cost-effectiveness—with all-in-one <b>user-based licensing</b>	✓	—	—

What is RUCKUS One?

**AI-Driven**  
**Converged**  
**Network Assurance**  
and  
**Business Intelligence**  
Platform





Add... Entire organization Last 24 hours [Download] [Lightbulb]

### Alarms

387

- AP configuration update failed AP configuration AP-8321701 Today, 15:43
- AP configuration update failed AP configuration AP-8321701 Today, 15:43
- AP configuration update failed AP configuration AP-8321701 Today, 15:43
- AP configuration update failed AP configuration AP-8321701 Today, 15:43

### Incidents

Poor experience for 22 of 234 networks

- 7 Incident P1 219 clients impacted
- 21 Incident P2 292189 clients impacted
- 24 Incident P3 292189 clients impacted
- 2 Incident P4 292189 clients impacted

Connection 5  
Performance 3  
Infrastructure 3

### Client Experience

Top 5 Venues/ Services with poor experience

	Score	Connection Success	Time to Connect	Client Throughput	Online APs
Venue A	4/5	67%	42% Under 5 ms	53% Above 10 Mbps	50%
Venue B	3/5	72%	67% Under 5 ms	93% Above 5 Mbps	72%
Venue C	3/5	90%	90% Under 4 ms	93% Above 8 Mbps	90%
Venue D	5/5	90%	90% Under 5 ms	93% Above 10 Mbps	90%
Venue E	5/5	90%	72% Under 2 ms	67% Above 10 Mbps	90%

## Policies and Security

### Venues

800

### Devices

Wi-Fi 6210  
Switch 9

## Edge IoT

### Clients

Wireless 621  
Wired 184  
IoT 302



Smartboard

Live Video

Surveillance Camera

Set Top Box

Access Points

Chromebook

VR Headset

Tablet & Smartphone

3-D Printer

VoIP Phone

Wi-Fi Printer

萬物聯網時代來臨  
你準備好了嗎



**PURPOSE-DRIVEN**  
ENTERPRISE NETWORKS