COMMSCOPE®

Ruckus Cloud 網路管理平台線上研討會 Ruckus Cloud & Analytics

網路數位轉型迎接後疫情時代挑戰

Ruckus 技術顧問 Kevin Su

COVID-19挑戰與機會

COVID-19 challenges and opportunities across infrastructure towers

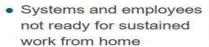


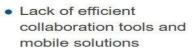












- Drop in efficiency due to location-dependent workforce
- Work-from-home
- Virtual pod-based service delivery model

model of the future

- Cloud-based collaboration tools
- VDI and workplace-asa-service



- Traditional datacenters unable to cater to fluctuating demands
- Existing cloud initiatives not aligned to business
- Enabling multi-cloud interoperability
- ERP transformation
- Legacy mainframe transformation
- Industry cloud
- Sovereign cloud



- VPN crashes and network outages
- Manual network controls

- Software-defined networking
- 5G
- Network-as-a-service

D

Service delivery model is not an infrastructure tower, but cuts across the IT estate and must be transformed in parallel with other infrastructure-focused initiatives. Key transformation opportunities include moving to a virtual pod-based model and leverage of gig economy workforce



Current

challenges

IDC分析資料



05 8月 2021

IDC:台灣公有雲服務市場受益於疫情帶動企業加速數位轉型,整體市場規模從2020的8.71億美元增長至2025的20.85億美元,年複合成長率19.1%

台灣公有雲服務市場2020規模和2021預測

(單位: 百萬美元)



Source: IDC 2021

為什麼採用雲端管理Wi-Fi

簡單管理& 支援多點服務

- ✓ 雲端擴展規模 無須花費額外的成本和精力即可擁有額外的控制器容量
- ✔ 簡單管理,大幅節省配置、設定、故障排除時間
- ✓ 未來雲端服務的擴充 (e.g., wired/wireless, security, in-building LTE, location services)



- ✓ 僅有控制 & 管理在遠端
- ✓ 資料落地 (local bridge, not tunnel)
- ✓ 基於角色的管理Role-based administration
- ✓ 可靠的雲端架構
- ✔ 訂閱終止後仍可正常運作
- ✓ 減少因為維護或升級導致的停機時間





Ruckus Cloud Wi-Fi



Cloud-managed Wi-Fi for simplified management of your <u>multi-site</u> WLAN

內容:

- 管理授權 (AP & ICX)
- 報表 & 分析
- · 原生行動APP
- 功能及安全性更新
- 24x7 全時段技術支援

Supports a Wide Range of indoor/outdoor 802.11ac and 802.11ax APs

















選擇Ruckus的原因



只有Ruckus雲端管理解決方 案能夠同時提供上述優勢

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出色的Wi-Fi效能

別人不行的地方,我們特別出眾...

- High device density
- High loss
- High interference

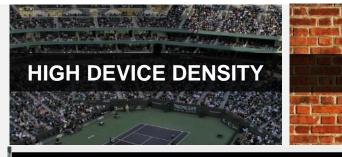
秘密武器: 專利的 BeamFlex+, ChannelFly

- Dynamic antenna adaptation to maximize signal gain and application flow and minimize radio interference and noise
- ChannelFly intelligently selects the optimal 2.4/5GHz channel based on channel capacity prediction models
- In addition, capacity-based admission control ensures all clients receive required QoS

POWERING CUTTING-EDGE INSTRUCTIONAL MODELS

Not surprisingly, the building that houses the nursing program was the first one scheduled for the new Ruckus APs. "Originally we had four APs in the simulation lab and performance was still poor. Now we have just two Ruckus APs in the lab and we've had zero complaints about connectivity, download speeds, or stability," says Villarreal. "They love the new Ruckus network."







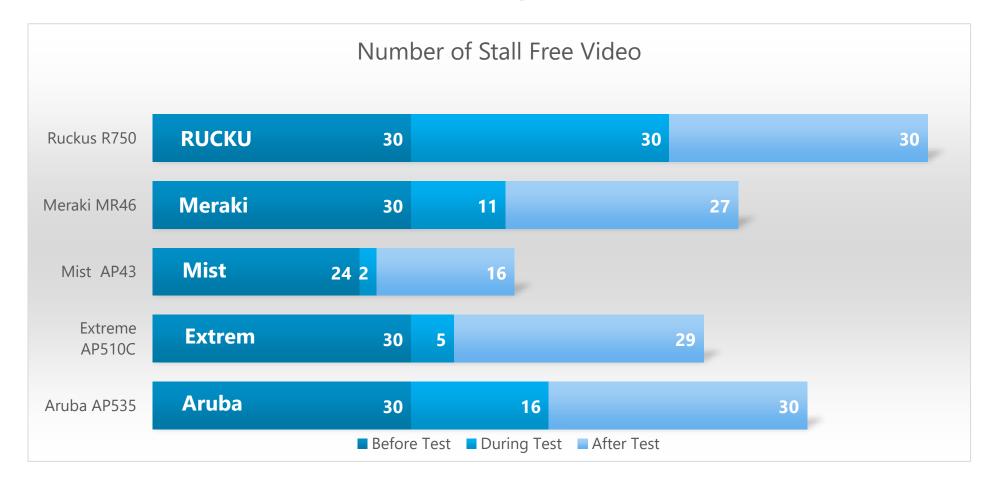




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第三方驗證:優異、不中斷的視訊傳輸

Number of non-stalled videos before, during, and after the test



Why does this matter?

Quality of Experience is obviously distressed by stalled video receivers deeming the Wi-Fi solution inadequate

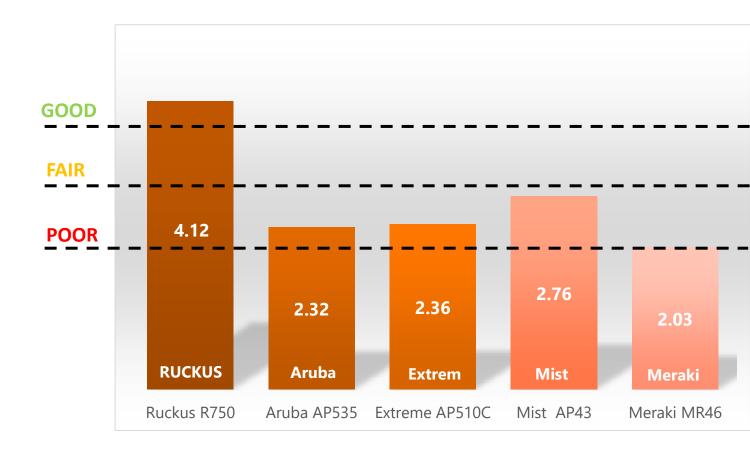
Source: Packet 6

第三方語音應用驗證:Mean Opinion Score (MOS)

MOS is about Quality of Experience

- RUCKUS R750 Best MOS at 4.12
- No competitor gets close, not even to 3.0
- MOS scale is 1 to 5 but, in practice, the highest score a PSTN-grade call can receive is ~4.5

MOS	Quality	Impairment
5	Excellent	Imperceptible
4	Good	Perceptible but not annoying
3	Fair	Slightly annoying
2	Poor	Annoying
1	Bad	Very annoying



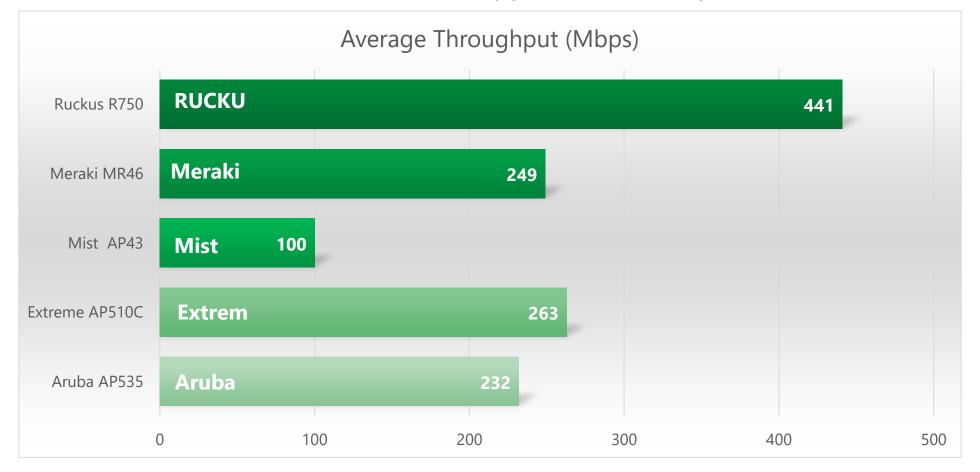
Why does this matter?

Poor QoS handling can starve time sensitive applications such as VoIP and adversely affect the Quality of Experience.

Source: Packet 6

第三方效能驗證:優異的傳輸率

Real-world environment of mixed clients, applications and protocols



Why this matters

Application traffic should not suffer starvation – Properly categorizing and servicing applications' traffic embodies exceptional Quality of Experience

Source: Packet 6

以更低的成本獲得更好的效能

Ruckus vs. Other Deployment Cost Comparison

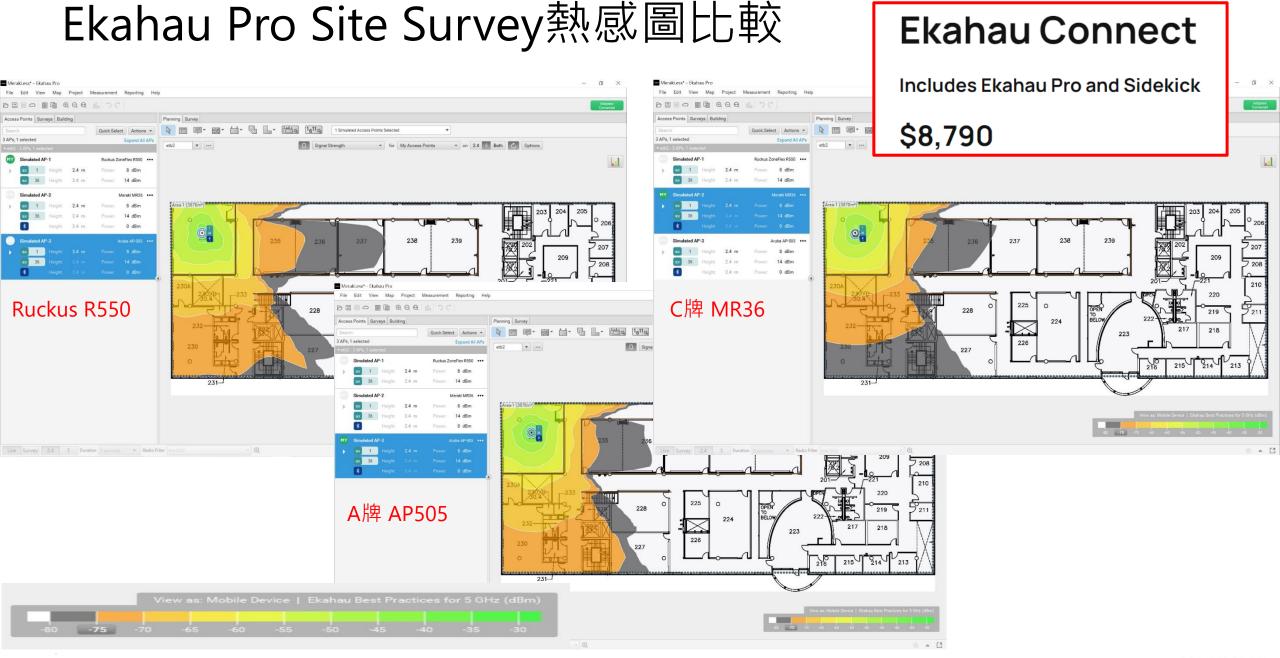


Assumptions

- Ruckus able to handle 60 clients per AP; Other vendor able to handle up to 30 clients per AP
- MSRP for subscription and AP costs
- Scenario for comparison:
 - 500 concurrent users
 - 20% user growth YoY
 - 1.5 clients/user
 - 4 year refresh cycle
 - 30% new installation
- Includes costs of cabling, installation, switching, and power

Source: Ruckus Cloud TCO model

■ Ruckus ■ Other



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提供客戶投資保障

Competitive solutions limit your freedom of choice

- Locks you into a fixed architecture—APs become "bricks" once your subscription ends
- Works with only a subset of expensive and/or low performing APs

當有需要改變時,提供相當的彈性

- Ruckus APs work with different management architectures: onpremises, cloud, controller-less
- Migrate from one Ruckus architecture to another* (unlike competitive solutions)

當訂閱服務終止時仍有多種選擇

- Ruckus Unleashed
- Virtual SmartZone-managed
- SmartZone appliance-managed
- Base software



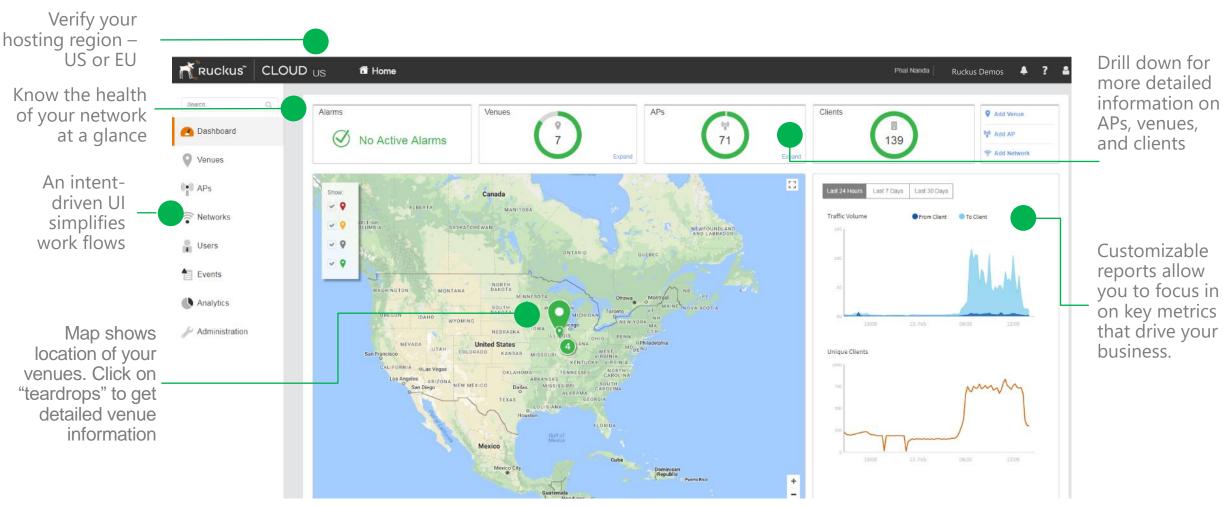
Supports a wide range of Indoor/Outdoor 802.11ac & 802.11ax APs



For full list of currently-supported access points, go to: www.ruckuswireless.com/cloud-devices

^{*}Assumes AP model is supported by this option. Not all APs are supported by all management options

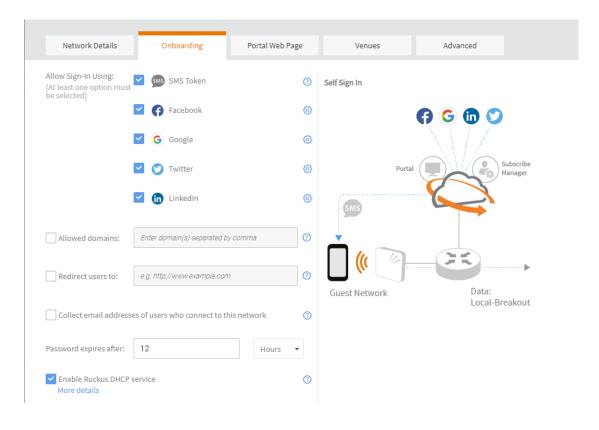
直覺簡單管理介面



information on

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多樣性的訪客存取功能



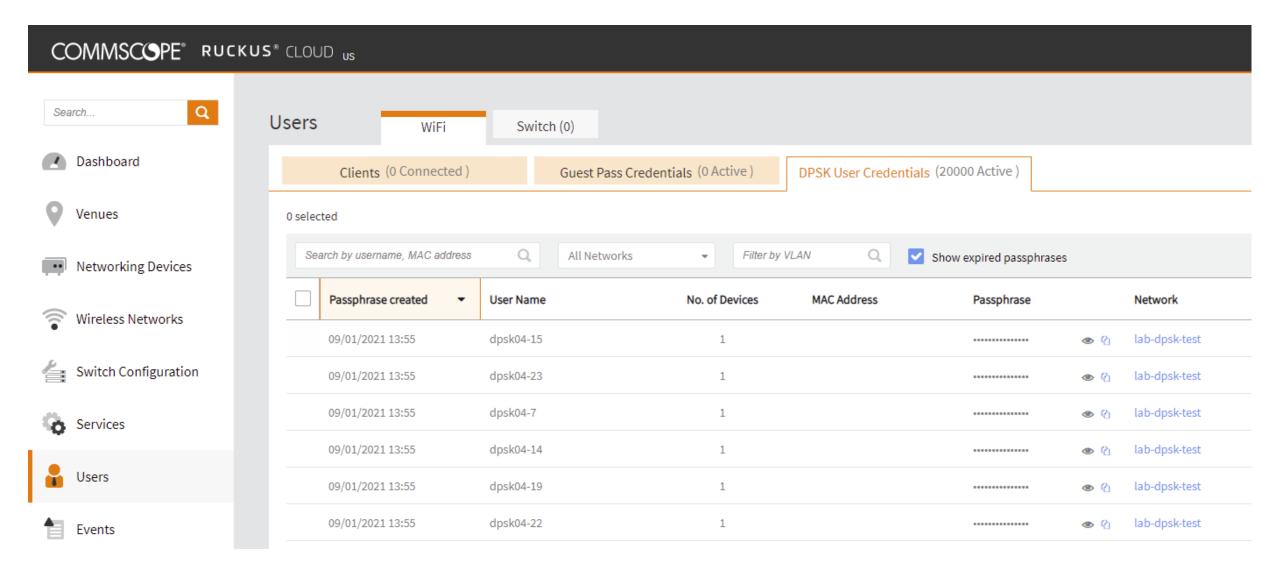
Enable Guest Access Without Losing Control or Compliance

- 4 Social Logins (Google, Facebook, LinkedIn, Twitter)
- SMS based authentication at no extra charge
- Create Guest Portal once and deploy across multiple sites

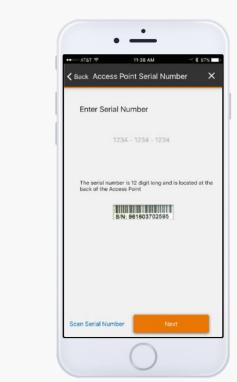
Usage Examples:

- Events / guests
- Vendors, contractors

內建DPSK資料庫高達20K筆

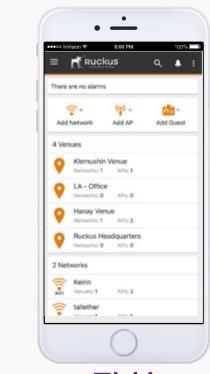


功能齊全的行動App讓IT不再束縛於辦公桌前



配置

Easily add APs by scanning the barcode on the back



監控

Monitor connections, status, and network performance

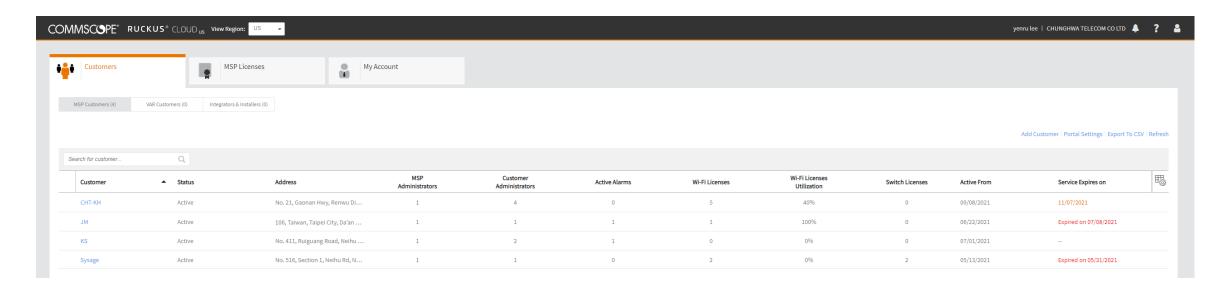


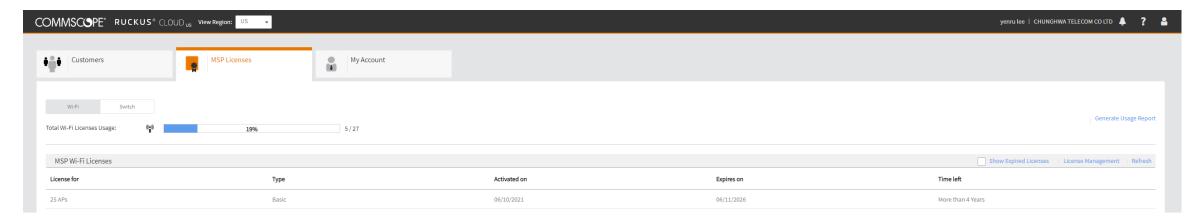
管理

Create and configure new network, update captive portal, reboot APs, reset passwords, schedule network availability



Cloud MSP







企業客戶面臨的挑戰

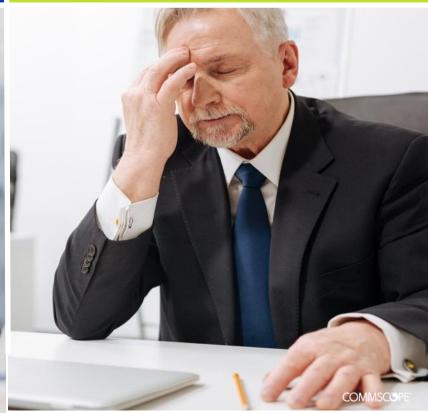


缺乏整體網路的可視性

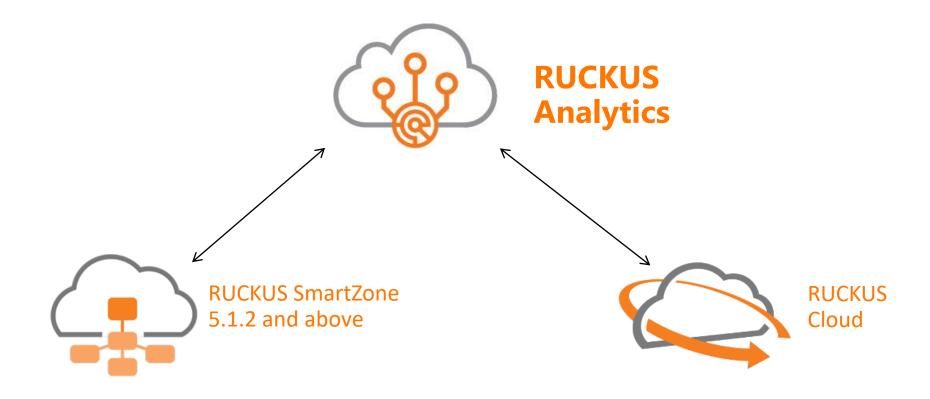
IT常被瑣碎的網路申告弄 得焦頭爛額 無法分類該優先處理的事件導致用戶體驗下降







落地或雲端控制器皆適用的雲端服務



RUCKUS Analytics能為您做甚麼

協助IT團隊 分類優先處 理事件 監控網路健康 狀態 加速網路和終 端故障排除速度

> 網路自我檢測 服務,可事先 找出發掘的問 題

儲存長達12月 的歷史資料, 提供企業建立 決策所需的報 表

RUCKUS Analytics 功能特色



Network Health Monitoring

Switch Function:

- VLAN mismatch Insight
- High Switch Memory Utilization Insight
- PoE InSight



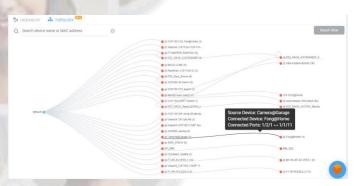
Incident Analytics



Reporting, Dashboards and Data Explorer

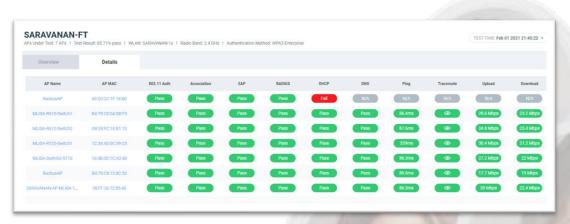


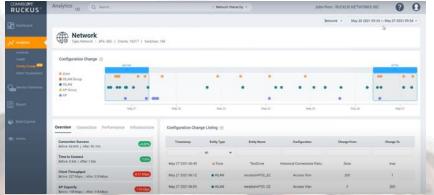
Client Troubleshooting



Network Topology

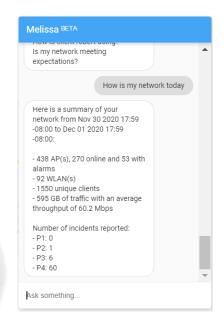
RUCKUS Analytics功能特色-續





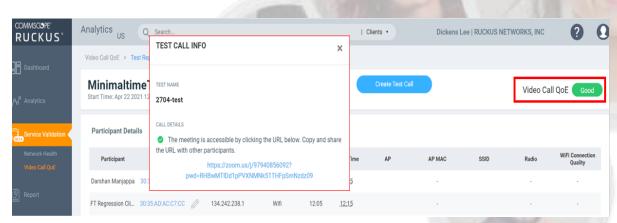
Service Validation

Configuration Change Analysis

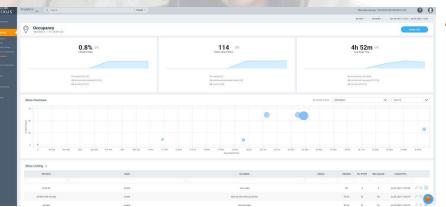


Melissa Virtual

Assistant

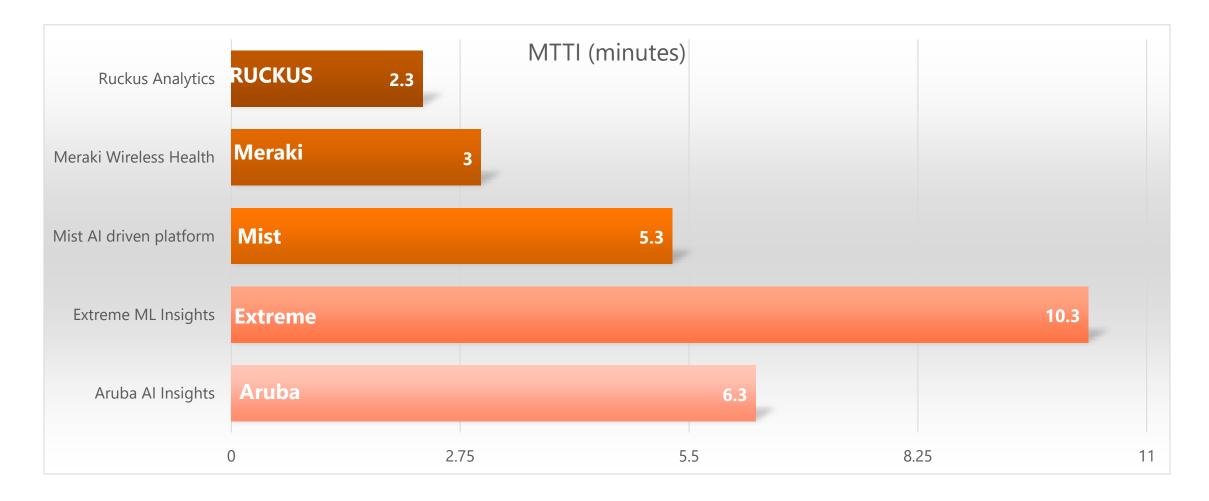


Zoom Video Call QoE



Occupancy Analytics

Analytics-driven Mean Time to Identify (MTTI)



IT teams aim for low MTTI through dashboard workflow efficiency and accuracy of the data displayed.

輕鬆開始30天免費試用

RUCKUS Cloud

步驟1:請打開瀏覽器輸入以下網址進入鉅立資訊

[免費試用活動頁面]

https://www.jlead.com.tw/zh/ruckus/ruckus-cloud-trial.html

步驟 2:看完說明,點選 立即申請

步驟 3:填妥連絡資料後送出申請

鉅立資訊收到申請後,會在5至7個工作天和符合資格的申請者聯絡並進行後續試用計劃的說明

·試用活動獎勵



- · 試用者免費試用 30天後, 只要完成以下兩點
 - (1) 填寫試用問卷
 - (2) 提供300 500字的產品試用心得 (照片加文字) 供行銷使用

試用期間所使用的 RUCKUS 無線網路基地台,即免費贈送無需歸還!!

*鉅立資訊保留隨時修改、終止變更本活動之權利。修改後之活動內容將於活動網頁更新,

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