

# **Ruijie BYOD Solution Portfolio Overview**

Ruijie Networks Co., Ltd.

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# 1 Solution Overview

The widespread and rapid adoption of intelligent terminals, 3G and WiFi networks has enabled employees to work anywhere and anytime. The high mobility it offers has given birth to a new office model - BYOD (Bring Your Own Device). According to the report published by Info-Tech Research Group, 35% of the workforce is expected to use personal devices for work-related tasks by 2013, which means that more than one-third of the workforce will use a broad range of mobile devices at work. Another research project from Gartner also shows that 62% of CIOs from global enterprises are considering deploying or have already deployed BYOD program in the workplace.

However, many of the benefits of BYOD, such as having the choice of any device to access the network anywhere at any time, are somewhat antithetical to traditional IT requirements for security and support. Adopting BYOD comes with a set of challenges, such as how to ensure network security, how to achieve a balance between security requirements and usability for employees, how to manage guest accounts and how to ensure the stability of the wireless network. Above all, one of the largest challenges is how to make it simple for users to access and use corporate resources.

Although adopting BYOD comes with a set of challenges, the trend is here to stay. To accommodate the growing BYOD trend, companies should re-examine and update their security architecture so as to cope with the new end-user demand. It is crucial to offer an open, flexible and efficient work environment and meet the management requirements for enterprise information security.

Through analyzing the business influence of BYOD trend and exploring the challenges for the enterprises and employees, Ruijie BYOD Wireless Solution offers a comprehensive structure to address these challenges, allowing the end users to select any device for work while providing unified management for business managers using a simple and effective method, thereby achieving a win-win situation for the enterprises, staff and IT managers.

## 2 Solution Architecture

Ruijie offers a comprehensive solution to address an extensive array of BYOD requirements and challenges such as wireless coverage, access control and unified management. The architecture design of the solution is as follows:

1. Wireless coverage:
  - X-Sense and i-Share wireless coverage solution
  - 802.11n and 802.11ac Gigabit WiFi
  - Simultaneously manage up to 100 wireless access points (APs)
2. Access control:
  - Seamless wireless access control
  - Role-based network access control
  - Self-service guest account management
3. Unified management:
  - Visualization management of wireless device and remote fault location
  - Unified management of wired, wireless and Virtual Private Network (VPN) users
  - Multiple identities mapping system

## 3 Solution Implementation

The BYOD solution implementation as shown in the figure below demonstrates the implementation in 3 scenarios: open-plan office, closed-plan office/conference room and data center, where the first two provide wireless network for employees and the latter is for network administrator to maintain and manage the network.



Figure 1: BYOD Solution Implementation Diagram

## 4 Key Advantages of the BYOD Solution

Ruijie Networks offers an end-to-end BYOD wireless solution which does not only provide users with wireless network experience that is beyond the traditional wired network, but also seamless authentication and easy-to-manage network application experience.

### 4.1 Wireless Network Experience beyond Wired Network

- The performance of wireless network is comparable to that of a wired network, fully supporting a wide variety of business needs
- The full coverage of wireless network allows access anywhere at any time. The wireless network even covers wired network's dead zones
- Customized access control provides security protection comparable to the wired network
- The easy-to-use and secure network is more user-friendly than the wired network

Ruijie wireless network solution has the capability to completely replace the wired network and deploying only the wireless network can conserve a large amount of cabling and implementation costs, while substantially improve the working environment.



Figure 2: Deployment of wireless network conserves a large amount of cabling and improves the working environment

## 4.2 Wireless Network of Seamless Authentication

- Simplified Seamless Authentication design allows users to access to the internet automatically after initial authentication
- Robust security allows administrators to access the network securely

Significant time saving on user authentication using Ruijie's Seamless Authentication Technology:

Around 50000 minutes of working time can be saved annually for an enterprise with 500 employees if each of the terminals needs to be configured twice a year and access to the network 3 times per day.

Wireless Security Solution	Time For Initial Authentication	Authentication Time For Re-login	Average Number of Configurations Per Year	Time Consumed Per User Annually	Number of Users	Total Time Consumed Per Year	Security Level
Ruijie Seamless Authentication	0.1min	0	2	0.2 min	500	100min	★★★
Web Portal	0.2min	0.1min	1000	100 min	500	50000min	★★★
Link Layer Authentication ( WEP、WPA )	0.1min	0	2	0.2 min	500	100min	★

Table 1: Comparison of Different Wireless Authentication

## 4.3 Simple Wireless Network Management

Unified management of users substantially saves time of managing multiple systems, while enhancing system security and usability.

Visualization management of devices allows simple network management and reduction of workload so as to enhance management efficiency.

## 5 Key Technologies

- **I-Share Technology**

For the deployment of BYOD, full wireless signal coverage is a basic requirement because users need to access the internet anywhere at the workplace using mobile devices. Therefore, the wireless signal must be able to cover every corner so as to support the BYOD deployment.

- **X-Sense Smart Antenna**

The strength of antenna plays an even more important role in BYOD deployment. Commonly used mobile devices are generally weaker in wireless reception performance than traditional laptops. WiFi signal has to be strong enough to cover such devices.

- **Seamless Authentication Technology**

Seamless Authentication Technology specifically refers to the automatic authentication of end users to access the wireless network securely without the tedious process of entering account password and verification.

- **Guest account management technology using QR code**

Guest account management technology using Quick Response code (QR code) refers to the authentication of guest account by authorized staff without the need of setting up an account and other management operations by the network administrator. Through binding of the guest and staff accounts, the browsing history of the guests can be retained for future reference.

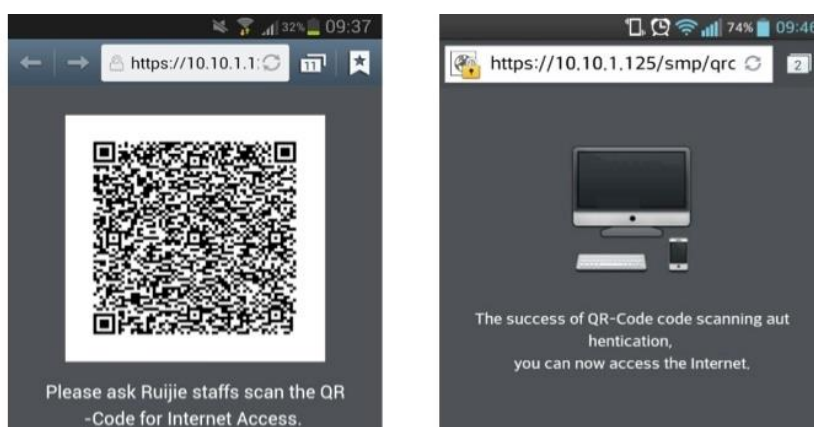


Figure 3: Guest Account Management Technology Using QR Code



## 6 Key Products

### 6.1 Access Point

#### Ruijie RG-AP530-I AP



The Ruijie RG-AP530-I AP is a flagship wireless access point (AP) designed for next-generation Gigabit network based on the latest 802.11ac WiFi standards. The Access Point, married with the industry-leading X-Sense Smart Antenna, supports data rates of up to 1300Mbps per radio and 1750Mbps per AP for unprecedented wireless experience. The feature-rich Ruijie RG-AP530-I AP offers comprehensive security policies, radio frequency (RF) control, mobile access, Quality of Service (QoS), and seamless roaming, and is fully compatible with Ruijie RG-WS Wireless Controllers Series to implement wireless data forwarding and access control with full security.

#### Ruijie RG-AP330-I AP



The Ruijie RG-AP330-I AP is another highlight in the X-Sense Smart Antenna AP Series. The AP adopts dual-band, dual-radio design and works well in both 802.11a/n and 802.11b/g/n modes, delivering data rates of up to 450 Mbps per radio and 900 Mbps per AP. The Ruijie RG-AP330-I AP with 24 built-in array antennas dynamically selects up to 16.77 million different antenna combinations and effectively solves the weakness of coverage dead zones of traditional antennas. Regardless of the location of smart device, the X-Sense Smart Antenna customizes and aligns the best signal path to achieve full coverage.

## Ruijie RG-AP320-I AP



The Ruijie RG-AP320-I AP, just like other members in the X-Sense Smart Antenna AP Series, is a wireless access point designed for high-speed wireless LAN. The Access Point delivers data rates of up to 600 Mbps, offering optimal network experience for a wide array of smart devices. The lightweight and aesthetically pleasing Access Point allows wall-mountable installation for easy deployment and maintenance. The Ruijie X-Sense Smart Antenna AP Series is an ideal match for large-sized campus, office, hotel, and settings alike.

## Ruijie i-Share Wireless Solution AP



The Ruijie RG-AP220-E(M)-V2 AP (i-Share Solution AP) is exclusively designed for Ruijie's highly acclaimed i-Share Wireless Solution. The Ruijie i-Share Solution is simple to install and only involves three components – i-Share Solution AP, Low Loss Antenna Cable and Ultra Slim Antenna. Each i-Share Solution AP offers 8 RP-SMA ports, which can extend the Ultra Slim Antenna to the furthest room 15m away with the Low Loss Cable. The Ruijie i-Share Solution AP delivers full coverage for 8 rooms (dual-band, single-stream mode) or 4 rooms (dual-band, dual-stream mode) and guarantees users in each room enjoys the best network performance.

## 6.2 Wireless Controller

### Ruijie RG-WS5302 Wireless Controller



The Ruijie RG-WS5302 Wireless Controller is designed to support the next-generation high-speed wireless network. The Wireless Controller can be deployed at either Layer 2 or Layer 3 network to communicate with AP without any network changes and provides 2 10/100/1000Base-T Ethernet ports and 2 GE SPF combo ports to offer advanced hardware support for high-speed data transmission. The Ruijie RG-WS5302 Wireless Controller can manage up to 32 wireless APs by default and a maximum capacity of 128 wireless APs with license

upgrade.



### **Ruijie RG-WS5708 Wireless Controller**

The Ruijie RG-WS5708 Wireless Controller is designed to support the next-generation high-speed wireless network. The Wireless Controller can be deployed at either Layer 2 or Layer 3 network to communicate with AP without any network changes and provides 8 10/100/1000Base-T Ethernet ports, 8 GE SPF combo ports and 2 10G SPF+ combo ports. The Ruijie RG-WS5708 Wireless Controller can manage up to 128 wireless APs by default and a maximum capacity of 1024 wireless APs with license upgrade.

## **6.3 PoE Switches**

### **Ruijie RG-S2900G-E/P Switch Series**



The Ruijie RG-S2900-E/P Switch Series is a line of stackable, multilayer switches designed to power large campus networks and intranet environments. The Series provides up to 24/48 10/100/100BASE-T ports for downlink and 4 non-combat SFP ports for uplink or stacking. The Ruijie RG-S2900-E/P Switches fully support basic routing functions, comprehensive security policies, and intelligent traffic management features to provide high availability, scalability and security for Gigabit network access.

## **6.4 Application Control Engine**

### **Ruijie RG-ACE Application Control Engine Series**



The Ruijie RG-ACE Application Control Engine is an integrated security gateway architected for Internet border management and protection. The Ruijie ACE integrates advanced software and hardware structures such as Deep Packet Inspection (DPI) engine and behavior analysis management engine, enabling users to monitor and manage network flow with ease. The Ruijie ACE offers an extensive library of detailed flow

reports and 5-year Free Signature Subscription to maximize the return on investment.

## 6.5 Network Management Software

### Ruijie RG-SNC Smart Network Commander



The Ruijie RG-SNC Smart Network Commander (SNC) is a network management system especially designed for network configuration and performance management. The Ruijie SNC adopts web-based user interface (UI) and non-agent mode to avoid tedious and repetitive workload, save time and simplify operation and maintenance. Administrators can benefit from customized task plans that help to manage the network, monitor network status in real-time, backup configuration and respond to network fault instantly. The Ruijie SNC also supports visual topology of the network infrastructure, allowing administrators to gain a deeper insight of the whole network in case of anomaly.

## 7 Case Study

### 7.1 BYOD Wireless Solution Case Study——Ruijie Networks

Ruijie Networks Co., Ltd. is the pioneering provider of end-to-end network solutions in China. One of the worldwide branches is based in the Haidian District northwest of Beijing city. The 4000m<sup>2</sup> office spreads across three floors with more than 400 staff members.



Figure 4: Ruijie Office Tower

### 7.2 Challenge

Ruijie Networks has retained a great emphasis on informationization construction since its founding. Ruijie has built an extensive library of IT systems for daily business operations ranging from Email to Office Automation (OA); from Customer Relationship Management (CRM) to Enterprise Resources Planning (ERP). All the systems have greatly enhanced the operational excellence and maximized cost savings.

Since 2009, Ruijie has observed an emergent trend of Bring Your Own Device (BYOD) in the workplace. More and more employees bring their personally owned mobile devices such as laptops, smartphones and tablet PCs to the office. BYOD has

already become a very common practice in the Ruijie office, according to its analysis in 2011. To solve the challenges with BYOD, Ruijie Networks has put continuous efforts on improving the wireless network in the workplace and has achieved satisfactory results in 2013.

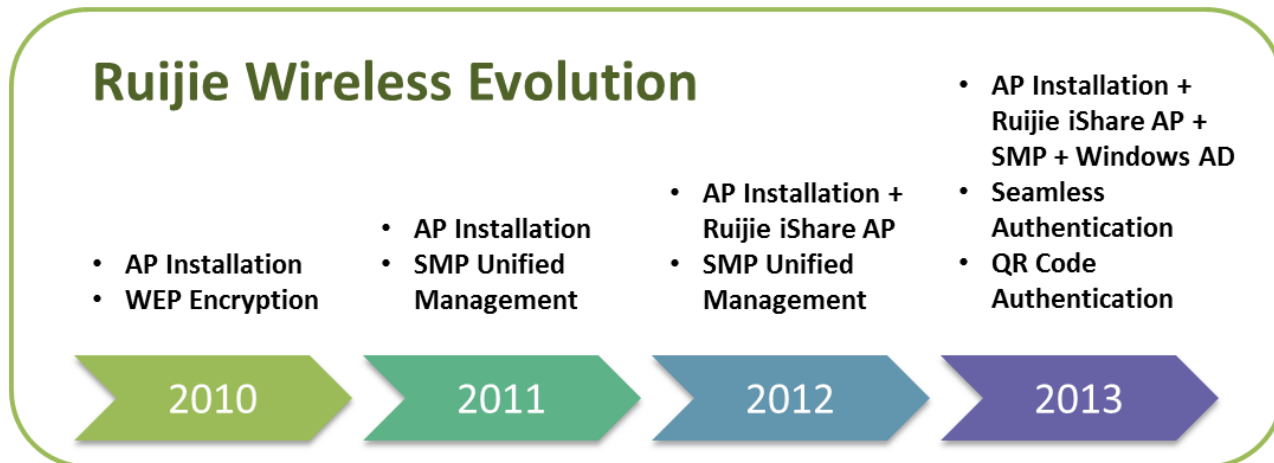


Figure 5: Ruijie Wireless Infrastructure Timeline

Ruijie Networks has started building wireless infrastructure in the workplace since 2010. The enterprise employed installation of multiple thin access points in the open-plan and closed-plan office areas, and also the meeting room section. However, the wireless solution required further improvements in terms of signal coverage and security management. WiFi performance degradation occurred due to the presence of interior obstacles such as structural columns and brick walls. And there were even some dead zones with no wireless signal available. In order to deal with the security issues, the Wireless Application Protocol (WAP) was implemented. Despite of the setup of three individual sets of SSID and password - Management, Staff and Guest – for the respective group of people, unauthorized access using Management SSID and password was commonly found among employees.

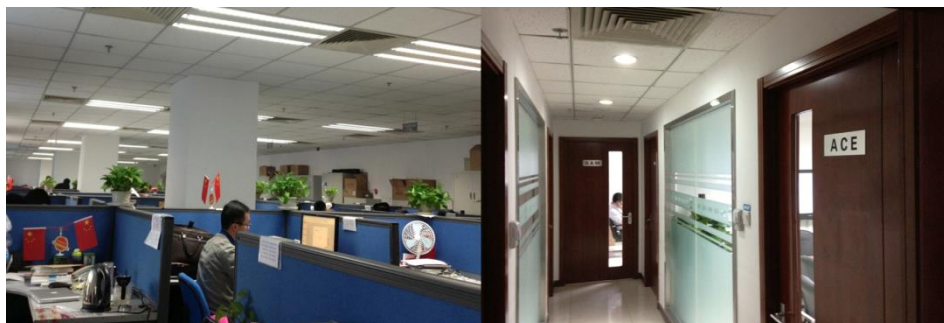


Figure 4: Structural columns (left) and brick walls (right) are main challenges for wireless deployment

Ruijie deployed user-specific wireless management in 2011. It effectively enhanced network security as every user had a set of personal username and password. On the other hand, the whole login process required a considerable amount of time to complete. Users had to search the respective SSID, wait for the login page to load, and enter their login credentials. It highly undermined the operational efficiency and staff productivity. The user-specific authentication also brought heavy workload for IT administrators. Since the wireless accounts could not be centrally monitored using the existing WindowsAD management system, extra resources were allocated for the wireless accounts and the Virtual Private Network (VPN). Former employees getting access to the wireless network with their old login credentials was another security loophole to be fixed.

Ruijie has set up an Experience Center aiming to provide the best user experience for the clients. Growing amount of daily visitors has come with a higher demand in wireless network. It has no doubts increased the workload of IT administrators in terms of wireless account management.

To solve the challenges with BYOD, Ruijie has aimed to achieve the following:

1. Zero dead zone: Ensure full coverage even at the most hard-to-reach areas. Guarantee sufficient bandwidth for smooth business operation.
2. Unified management: Centrally manage wireless and VPN accounts using the existing WindowsAD system. IT administrators can easily manage all accounts (including guest accounts) using one unified system.
3. Role-based access rights granting: Management staff can have full network access; Department heads can set restrictions depending on their respective needs to avoid unauthorized access by employees; Guests can be granted access to the Internet.
4. Easy wireless access: Simplify authentication procedure for the best user experience.
5. Easy wireless management: The office spreads across three floors - 6th, 11th, 12th floor. It is crucial to allow IT administrators to have ease in management and maintenance within the respective floor.



## 7.3 Solution

The above problems are commonly found across businesses with wireless deployment. By in-depth client research and technical analysis, Ruijie has designed and deployed a series of advanced wireless solutions in 2012.

### 7.3.1 Wireless Coverage

The topology display at Ruijie Beijing branch is shown below:

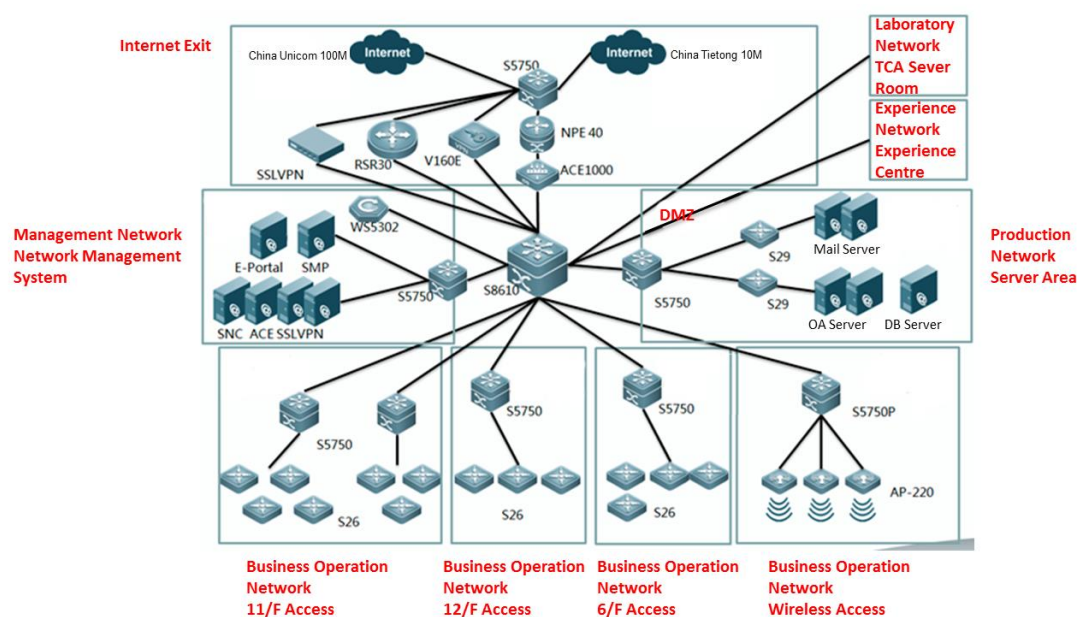


Figure 6: Network Infrastructure in Ruijie Office

Wireless solutions in different areas:

1. Open-plan office area: Installation of AP with the Ruijie's innovative X-Sense Smart Antenna. The AP dynamically selects up to 16 million different antenna combinations and intelligently 'searches' for end users. WiFi signal can hence 'bypass' flexibly the any obstacles such as structural columns to reach the mobile terminals. The AP can also adjust power supply based on the distance from the end user, saving energy and minimizing interference.
2. Closed-plan office and meeting room areas: Deployment of Ruijie's patent iShare Wireless Technology to solve the signal degradation problem. Each AP connects six antennas which can be installed right inside the room by cable connection. Wireless



coverage is highly enhanced. Ruijie iShare deployment is easy and cost-efficient, involving only a 5-mm drilled hole for installation.

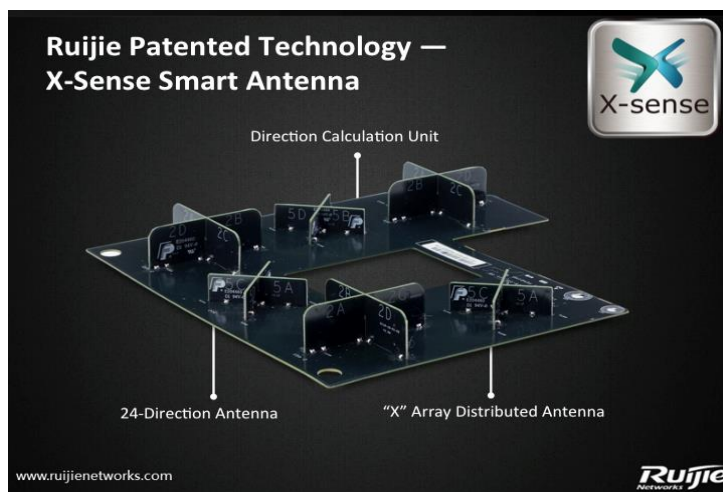


Figure 7: Ruijie's Patent X-Sense Smart Antenna

### 7.3.2 Wireless Access

Ruijie Networks has further improved the solutions to achieve unified user management and seamless authentication.

1. **Unified User Management System:** A single portal capable of identifying different users. All wired, wireless and VPN users are centrally managed using the RG-SMP platform. RG-SMP further maps with the existing WindowsAD and realizes true unification. WindowsAD is the master controller of all user account management. All changes are simultaneously updated to the web account. Every user is only required to have one set of username and password.
2. **Self-service Guest Management:** QR Code Authentication is deployed to cater for the increasing WiFi demand from visiting guests. Guests can scan a QR code posted in the public area and are automatically granted login ID and password for WiFi access. IT administrators can easily adjust the validation period of the QR code and password. This measure effectively lessens the burden on guest network management.
3. **Advanced Guest Management:** Ruijie Networks has further upgraded the QR code authentication measure. Authorized staff who has logged in the company network can grant guest access rights. This binds the guest's network activity logs to the

staff's account together, offering an easy record for management. Guest first connects to the wireless network and a QR code page will be shown (left image in Figure 6). The guest can ask any authorized staff to scan the QR code and access rights are granted right away (right).

4. User Authorization: User-specific restrictions are available. Management staff has free network access. Guests can only access to the Internet.

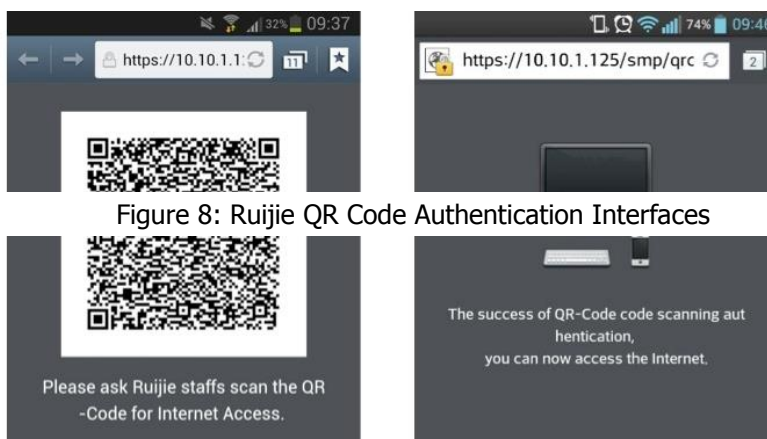


Figure 8: Ruijie QR Code Authentication Interfaces

### 7.3.3 Wireless Management

To cope with the difficulties in managing all the APs across three floors, Ruijie has designed its very own network management system - Smart Network Commander (SNC) - and relevant wireless devices. IT administrators can monitor all the AP status on the network using one single portal. Automatic alerts are available when failure occurs. Over 80% breakdowns can be solved using the remote system.

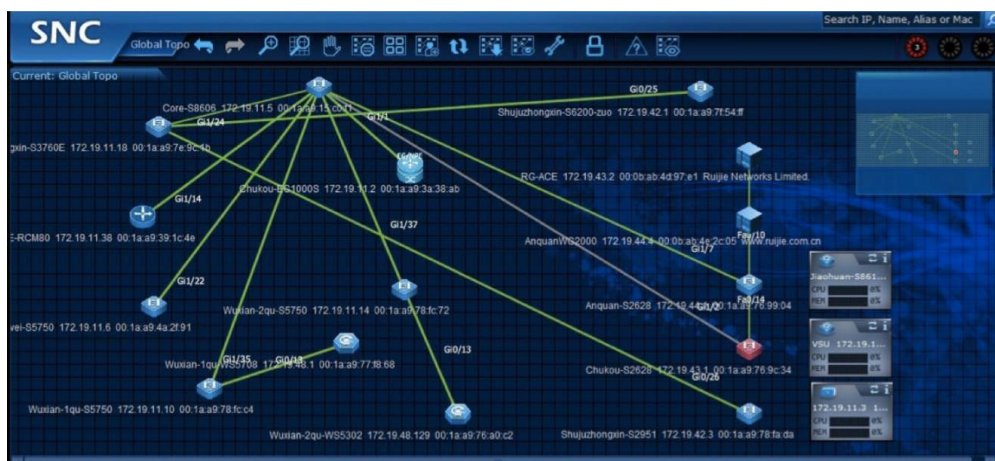


Figure 9: Ruijie SNC Topology Display



Figure 10: Ruijie SNC Alarm Statics Display

## 7.4 Performance

Through the wireless network transformation in 2012, Ruijie Networks has now achieved full wireless coverage in the office with zero dead zone. Transmission speed satisfactorily fulfills the 802.11n standard of 300Mbps which totally supports smooth business operation. Ruijie has observed an increasing trend of employees switching to wireless network and currently more than 80 employees are constant WiFi users at the Beijing branch office.

Wireless access has greatly simplified using the Seamless Authentication. Wireless demand has been increasing steadily and more employees are going BYOD.

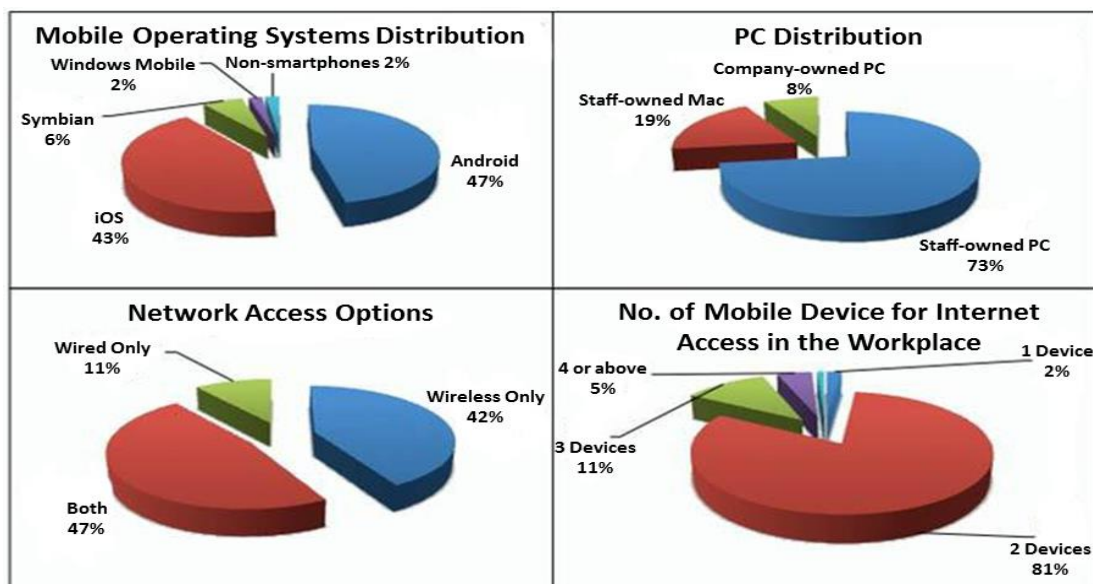


Figure 11: BYOD Situation in Ruijie Office

The following is the BYOD situation at Ruijie after the solution deployment:

Ruijie has succeeded in building an end-to-end wireless solution to embody the growing trend of BYOD. The solution provides full wireless coverage, seamless authentication, and easy management and maintenance which all have greatly enhanced the staff productivity. The solution has saved 50000 minutes of working time for the Beijing branch employees. The workload for IT administrators has also been greatly lessened. Users have found the wireless interface easy to use and highly secure. All these are features of a mature wireless network. Ruijie Networks CIO Shen Jian's comments below truly visualize the values of BYOD solution.

"Ruijie BYOD Wireless Solution is easy to implement with outstanding performance! The best of all is that it offers our staff excellent user experience. They can't work without WiFi anymore!"

--- SHEN Jian, CIO, Ruijie Networks

## 8 Ordering Information

### Access Point

Model	Description
RG-AP530-I	Indoor wireless access point, Dual-radio, Dual-band, with X-sense smart antenna, supports concurrent 802.11a/n and 802.11ac, 3x3 MIMO, Fat/Fit mode, Dual GE uplink copper ports, supports PoE+ and local power supply. (PoE+ and local power adapters need to be purchased separately)
RG-AP330-I	Indoor wireless access point, dual-radio, dual-band, X-sense smart antenna, supports concurrent 802.11a/n and 802.11b/g/n connections, 3x3 MIMO, fat/fit modes, WAPI, GE uplink copper port, supports PoE and local power supply (PoE and local power adapters need to be purchased separately)
RG-AP320-I	Indoor wireless access point, Dual-radio, Dual-band, with X-Sense smart antenna, supports concurrent 802.11a/n and 802.11b/g/n, 2x2 MIMO, Fat/Fit mode, GE uplink copper port, supports PoE and local power supply. (PoE and local power adapters need to be purchased separately)
RG-AP220-E(M)-V2	2nd-Gen i-Share Solution Access Point, built-in power & signal splitter divider, support upto 8 i-Share Antenna connection, Dual-channel Dual-band, 802.11a/n and 802.11b/g/n, Fat/Fit Mode. (Antenna, Antenna Extension Cable and AC adaptor sold separately)

### Wireless Controller

Model	Description
RG-WS5302	GE wireless controller, 2 10/100/1000Mbps adaptive copper combo ports, 2 GE SFP combo ports; supporting 32 APs by default and a maximum of 128 APs by license upgrade
RG-WS5708	10 GE wireless controller, 8 GE SFP ports, 8 10/100/1000Mbps adaptive copper combo ports, 2 10GE SFP+ combo ports; supporting 128 APs by default and a maximum of 1024 APs by license upgrade

### PoE Switches

Model	Description
RG-S2928G-E	RG-S2928G-E Ethernet Switch, 24-Port 10/100/1000BASE-T and 4 GE SFP Ports (Non-Combo), AC
RG-S2952G-E	RG-S2952G-E Ethernet Switch, 48-Port 10/100/1000BASE-T and 4 GE SFP Ports (Non-Combo), AC
RG-S2928G-12P	RG-S2928G-12P Ethernet Switch, 24-Port 10/100/1000Base-T(PoE+), 4 GE SFP Ports (Non-Combo), supporting 12 Ports for PoE or 6 ports for PoE+
RG-S2928G-24P	RG-S2928G-24P Ethernet Switch, 24-Port 10/100/1000Base-T(PoE+), 4 GE SFP Ports (Non-Combo), supporting 24 Ports for PoE or 12 ports for PoE+

### Application Control Engine

Model	Description
RG-ACE2000D	Application Control Engine, 6Gbps Throughput, 4M sessions, 4-Port 10/100/1000Base-T (include 1-Port 10/100/1000Base-T Management Port and 1-Port 10/100/1000Base-T HA Port), 4 GE SFP Ports, 4*PS/2 interfaces, 1+1 Redundant Power Supply, 2 Extension Slot, 120G SSD, built-in with Hardware Bypass (Copper Port), 2RMU. Free bundled with 5-Year application signature subscription service
RG-ACE3000D	Application Control Engine, 10Gbps Throughput, 6M sessions, 4-Port 10/100/1000Base-T (include 1-Port 10/100/1000Base-T Management Port and 1-Port 10/100/1000Base-T HA Port), 4 GE SFP Ports, 4*PS/2 interfaces, 1+1 Redundant Power Supply, 2 Extension Slot, 120G SSD, built-in with Hardware Bypass (Copper Port), 2RMU. Free bundled with 5-Year application signature subscription service
RG-ACE5000	Application Control Engine, 20Gbps Throughput, 10M sessions, 4-Port 10/100/1000Base-T (include 1-Port 10/100/1000Base-T Management Port and 1-Port 10/100/1000Base-T HA Port), 4 GE SFP Ports, 2*10GE SFP+ ports, 4*PS/2 interfaces, 1+1 Redundant Power Supply, 1 Extension Slot, support 2 -Port 10G extension module, built-in with Hardware Bypass (Copper Port), 3RMU. Free bundled with 5-Year application signature subscription service

### BYOD & NAC System Software

Model	Description
RG-SMP 2.X professional edition	RG-SMP 2.X professional edition, support Radius identity authentication, including BYOD and NAC features.  Software requirement for SMP: <ul style="list-style-type: none"> <li>• Windows Server 2003 or above</li> <li>• SQL Server 2000 or above</li> </ul>
License for RG-SMP 2.X professional edition	Concurrent User License for RG-SMP 2.X professional edition, includes permission for 50 concurrent users.

### Network Management Software

Model	Description
RG-SNC-Pro-Base-EN	Basic Component of Smart Network Commander.
RG-SNC-Pro-Topo-EN	Topology Management Component of Smart Network Commander.
RG-SNC-Pro-WLAN-EN	WLAN Component of Smart Network Commander.



## 9 More Information

For more information about the Ruijie BYOD Solution Portfolio, please visit <http://www.ruijienetworks.com> or contact our local Ruijie sales representative.

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