



Success Story

Opulent Indian Hotel Foresees Future Growth with Zyxel Solution



Hospitality



Footprint Hotels
& Resorts -
Sawai Villas
Madhopur



India



Wire &
Wireless
Solution

Overview

Challenges

- Improved network coverage and bandwidth for staff and guests, especially during peak hours
- Admin network must be separate from guest network for added security
- Solution should be easy to manage and user-friendly

Results

- Entire complex has been seamlessly connected with secure, stable, and high-speed WiFi
- Centralized interface enables easy deployment and management of access points, switches, and VLANs
- Solution is scalable and can be upgraded for future growth

Solutions

- Zyxel Wired and Wireless Solution

"As a multi-level entertainment space catering to high volumes of customers with dramatic peaks and troughs, [our hotel] required a network that could meet specific needs and support business growth. We are really satisfied with the solution. With its advanced technology, we can upgrade the system whenever we want. I'm sure our staff will benefit from this, and it will help us in growing our business to the next level. We plan to do more business with Zyxel."

Mr. Rajan Updahay
Owner, Footprint Hotels & Resorts

Background

Footprint Hotels & Resorts is an Indian hotel chain that's known for their perfect blend of luxury, efficiency, and attentiveness. With a highly motivated and well-trained staff, the hospitality group delivers warm, personalized service. It's this service that has redefined the luxury paradigm for hotels in cities such as Sikkim, Jaipur, and Darjeeling. When travelers expect excellence, they don't need to look further than the Footprint brand.



Challenges

Sawai Villas Madhopur's existing network setup was having a number of difficulties: lackluster coverage, porous security, and insufficient bandwidth. For example, its network would constantly buckle under the pressure of round-the-clock staff communications, reservation calls and messages, as well as the usage of high-bandwidth

streaming services. And since the staff and guest networks weren't separated, it made an already chaotic network environment even more unstable. The hotel needed a solution—and fast—to ensure that guests got the lofty service they expected

Solutions and Benefits

Footprint Hotels made an urgent call to Blaze Technologies, a trusted Zyxel partner. After assessing the network infrastructure and considering the stated needs of Sawai Villas Madhopur, the IT specialists at Blaze came up with a comprehensive wired and wireless solution.

The backbones of the network infrastructure are Zyxel's **GS1920 Series and MGS3520-28F 24-port gigabit switches**. Both switches allow for easy management and deliver reliable high-speed performance. The hotel's IP cameras can also be connected and centrally managed through the network.

Zyxel's intuitive Nebula technology was implemented to achieve powerful centralized management. First, the IT team deployed twelve Nebula-compatible **NWA1123ACv2 802.11ac Dual-Radio Ceiling Mount PoE Access Points**. These hybrid APs can operate in standalone mode or be centrally managed via the **Nebula Cloud Center**. The

management system can be accessed remotely, meaning that a third-party support team like Blaze Technologies can spot and resolve network problems before staff and guests have time to notice. The Nebula's browser-based portal gives administrators real-time information on connected devices and the ability to manage the network and its clients.

Additionally, the **Zyxel in-wall access points** were installed in the guest rooms, while the **WAC6553D-E Dual Radio External Access Points** were used for outdoor spaces, providing seamless interior and exterior signal coverage. Guests and staff now have access to a truly state-of-the-art WiFi experience.

With the ingenuity of the Zyxel wired and wireless solution, there's no time wasted connecting wires or troubleshooting; employees at Footprint Sawai Villas Madhopur can focus on delivering the best customer service possible.

Products Used

GS1920-24/24HP • 24-Port Gigabit Smart Managed Switch



- Easy-to-manage, rich L2 features with user-friendly, browser-based management GUI
- Supports PoE+ standard to offer 30 W per port and a high PoE power budget of 375 W
- Smart fan design ensures silent operation in both desktop and rack-mounted environments
- Supports ZON Utility and Smart Connect to simplify network management and maintenance

MGS3520-28F • 24-port Gigabit L2 Switch



- 24 GbE SFP open slot + 4 Combo Gigabit ports
- 56 Gbps non-blocking switching fabric; 41.67 Mbps forwarding rate
- 16K MAC address table; 12 KB jumbo frame; 4K multicast forwarding table
- Front access; external alarm block (4 inputs, 1 output)
- IPTV, L2 multicast, IGMP snooping, and MVR for convergence
- Enhanced network protection with IP source guard, DHCP snooping, ARP inspection, CPU protection
- High redundancy and resilient architecture with RSTP and port trunking
- Remote configuration & management via IEEE 802.3ah (OAM)
- Tiered service provisioning: the build-in rate limiting feature to control both ingress and egress data rates

UAG2100 • Unified Access Gateway



SP350E
Service Gateway
Printer

- IEEE 802.11 a/b/g/n dual-radio (2.4 and 5 GHz) design
- Supports 100 concurrent logins by default and up to 200 via license upgrade
- Integrated account generator, web-based authentication portal, and billing system
- Supports external RADIUS servers
- Per account bandwidth management
- Built-in WLAN controller
- Facilitates compliance with data-retention regulations
- SP350E Service Gateway Printer enables one-click account and billing generation

NWA1123-ACv2 • 802.11ac Dual-Radio Ceiling Mount PoE Access Point



- NebulaFlex™ gives you the flexibility to switch between standalone and license-free Nebula cloud management
- Nebula cloud management allows easy deployment, real-time configurations, and access to all your access points at anytime
- 802.11ac 2x2 support for combined data rates of up to 1.2 Gbps
- Compact ceiling-mount design with optimized RF performance
- Robust build quality including solid-state capacitors to ensure long life and operational reliability

WAC6553D-E • 802.11ac Dual Radio External Antenna 3x3 Outdoor Access Point



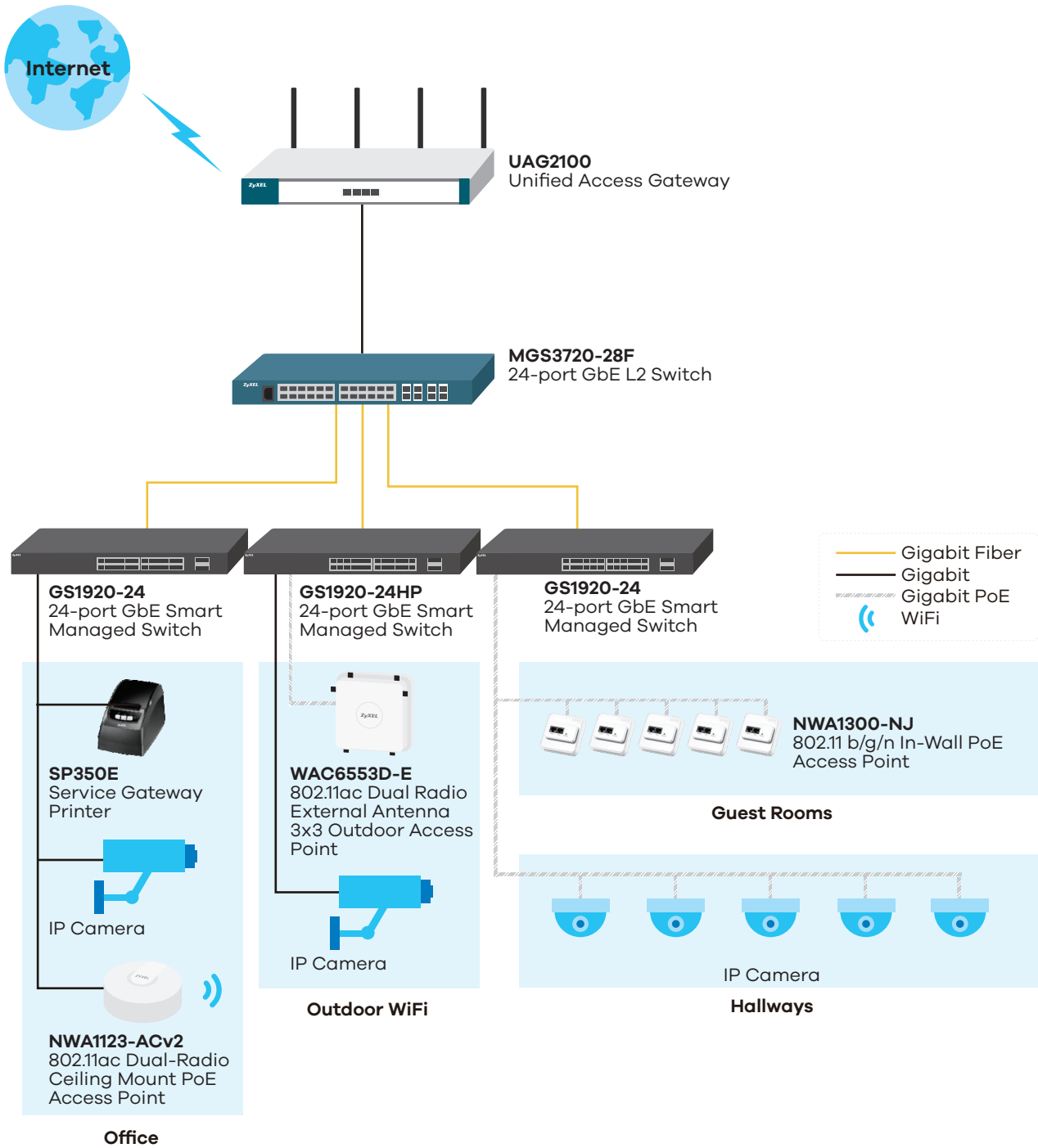
- Dual-band 2.4GHz and 5GHz 802.11ac Wave 1 Wireless Access Point
- Designed with IP66-rated weather protection—ideal for harsh outdoor environments
- Advanced IEEE 802.11ac delivers up to 1.75 Gbps combined data rates
- Industry-leading receive sensitivity as low as -102 dBm
- APFlex™ and DCS streamline deployment
- ZyXel One Network is supported

NWA1300-NJ • 802.11 b/g/n In-Wall PoE Access Point



- IEEE 802.11 b/g/n
- Strong standard-based wireless security
- Configurable low TX power provides suitable coverage and prevents wireless interference
- IEEE 802.3af PoE supports easy installation for administrators
- Web management and command line interface
- RJ-11 phone line pass-through

Diagram



About Zyxel Communications

Focused on innovation and customer-centricity, Zyxel Communications has been connecting people to the Internet for nearly 30 years. Our ability to adapt and innovate with networking technology places us at the forefront of creating connectivity for telcos and service providers, business and home users. Zyxel is building the networks of tomorrow, unlocking potential, and meeting the needs of the modern workplace — powering people at work, life, and play. Zyxel, Your Networking Ally.

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