

Miraj Group: Radisson Nathdwara

Infrastructure for a new mixed-use commercial property

CUSTOMER

Miraj Group: Radisson Nathdwara

COUNTRY

India

Miraj Group is one of India's brightest commercial stars, with a diversified and growing portfolio of more than 20 businesses in all kinds of industries: printing and packaging, pipes and pipe fittings, film production, engineering and many others. Since their founding in 1987, Miraj Group has entered and succeeded in many different fields, but the launch of their real estate line of business in 2010 has seen particularly strong growth in a market eager for more retail, entertainment and hospitality options.

A new project in the city of Nathdwara in India's western state of Rajasthan called for a mixed-use commercial space composed of a six-story shopping mall topped by seven stories of hospitality space—banquet facilities, party spaces and 105 hotel rooms: the Radisson Nathdwara. As a greenfield project, all options were on the table for ensuring top-quality wired and wireless connectivity throughout the facilities. As a longtime partner of CommScope and their RUCKUS Wi-Fi solutions portfolio,



Miraj Group awarded CommScope the responsibility for creating a complete networking solution.

The Miraj Group's network requirements were diverse and demanding, including 1 Gbps wired connectivity with 10 Gbps fiber backbone, support for cutting-edge applications like IPTV, IP security monitoring, complete Wi-Fi coverage for guests and employees, analog and IP telephony and more. Only CommScope was able to deliver a complete solution that connected every user and service, using a combination of three distinct physical networks for guests, security and administration.

Requirements

- **Guest network** composed of wired and wireless connectivity both indoors and outdoors, VLAN-driven IPTV capabilities and in-room IP telephony
- **Security network** featuring IP surveillance of all indoor and outdoor spaces, access controls, digital signage and building management system
- **Administrative network** including PCI-compliant hotel application systems and independent WAN internet access

Solutions

- High-capacity RUCKUS T310, R610 and H510 Wi-Fi APs and SmartZone SZ100 switches

- Category 6 cabling system, including CommScope's low smoke zero halogen (LSZH) cables, compliant to IEC 60332-3-22 for flammability test, IEC 60754-2 for acid gas test and IEC 61034-2 for smoke density
- CommScope's 12-core Multimode-OM3 armored, gel-free fiber-optic cable and associated apparatus

Benefits

- Joint passive and active teams' survey demonstrated 12 to 15 percent overall BoQ optimization—lowering TCO for Miraj
- Streamlined management of LAN and WLAN networks from a single RUCKUS SmartZone dashboard
- Advanced CommScope LAN copper cabling delivered 90-watt PoE capabilities to remote devices and provided scalability for IPTV and other future applications
- Gel-free, rodent-resistant cabling was easier to splice and install, met indoor fire codes and provided long-term performance and reliability
- IEC-compliant LSZH Category 6 cables enhanced hotel safety and provided Miraj with extra peace of mind
- Quick delivery of complete infrastructure solution helped Miraj meet construction timelines

"Miraj has worked with CommScope and the RUCKUS Wi-Fi portfolio in the past, but this mixed-use deployment was a new kind of challenge. CommScope quickly delivered a complete infrastructure solution that met our requirements, our schedule, our budget and our fire codes. With their help, the Radisson Nathdwara can offer a state-of-the-art connectivity experience for our guests."

Devendra Singh

**Head IT
Miraj Group**

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