



Multi Dwelling Unit (MDU) Guest Access

Industry-Leading Solution for Guest Internet Access

Nomadix is the leading provider of Edge Gateways for the MDU market. This leadership provides properties of all sizes with multi-use implementations, including:

- Wired and wireless High-Speed Internet Access (HSIA)
- Wi-Fi™ HotSpots for public areas
- Multi-revenue opportunities, including sale of advertising for public HotSpots, fee-based visitor access for conferences or meetings, roaming fees, and guest applications like video on demand and gaming

Nomadix offers solutions that address the critical security, management, and billing issues associated with MDU user access.

Benefits of the Nomadix Solution for MDU Network Access

- *Multi-use* – High-speed connectivity for residents, visitors, and on-site areas like pools and Club houses.
- *Multi-revenue* – Multiple revenue streams from increased occupancy, advertising revenues, fee-based HotSpots, and resident applications, contribute to rapid return on investment
- *Plug and play* – Nomadix simplifies the end user connection experience better than other solutions, which dramatically reduces support costs and improve customer satisfaction
- *Secure access* – Nomadix offers superior security for both residents, and visitors accessing wireless public access networks
- *Superior network security* – Nomadix offers robust network security features to protect against malicious attacks and hackers
- *Increased Resident Satisfaction* – Provide the internet access residents desire and control network hogs so all devices have access



Why Choose Nomadix?

Nomadix is the leading provider of Edge Gateways for the MDU industry, with more than 50,000 units shipped worldwide, the majority of which are installed in hospitality applications. The Nomadix solution offers superior stability and scalability by maintaining growing a patent and patent-pending portfolio of intellectual property in over 15 unique areas of functionality designed to support public access networks worldwide.

Key features provided by the Nomadix solution include:

- *User Security* – Nomadix offers industry-standard VPN support for PPTP, IPsec, and adds its patented iNAT™ technology that allows multiple simultaneous VPN tunnels to provide all users with high levels of security.
- *Network Security* – To protect against Denial of Service (DoS) attacks, Nomadix features Session Rate Limiting (SRL), MAC filtering, and ICMP packet blocking from non-authenticated users. Additionally, Nomadix supports Tracking Logs for Lawful Intercept initiatives.
- *Support for Disparate Wireless Clients* – Nomadix's patented Dynamic Address Translation (DAT) technology makes sure all users can get connected, regardless of system or browser configuration.
- *User Authentication* – Nomadix simultaneously supports multi-mode authentication, including browser-based, 802.1x, Smart Clients, and features WISPr-compliant RADIUS support for billing flexibility. A walled garden feature presents select web pages to users before authentication, allowing sites to present information on how to connect, as well as event calendars and promotional messages
- *Billing Management* – Seamless integration with RADIUS server allow user identification and billing using MAC addresses, username/password, or port. For public visitor access, billing can be done using credit cards, scratch cards, or by time, volume, or bandwidth.



- *Management and Administration* – Nomadix Edge Gateways running NSE feature remote web-based management using standard and secure CLI (Telnet, serial, and SSH) interfaces and extensive SNMP support. RADIUS-driven auto-configuration simplifies initial gateway deployment and allows centralized management of all NSE-enabled devices at the property or across multiple properties.
- *Home Page Redirection* – Redirects the user’s browser to the property’s sign-up page, with the ability to redirect both pre- and post-authentication. This gives the site many opportunities to leverage marketing and promotional messaging or offer advertising from local businesses.
- *Policy-Based Traffic Shaping* – Allows bandwidth usage to be controlled by minute, hour, day, or week on a per-device basis. Also allowing prioritization of user’s access to bandwidth and the ability to group devices to share a single bandwidth cap.

Generating revenue from resident and visitor access, roaming charges, advertising, and other services contribute to rapid return on investment for the public access network. Because the Nomadix solution easily supports visitors, guests, and roaming users; flexible billing and service options; and is designed to scale for future network-based applications; properties can set up a variety of ways to charge for high-speed Internet access and network-enabled resident applications.

Nomadix also helps reduce the cost of running the public access network by providing a superior plug and play experience, which can significantly reduce connectivity issues. Clearly, reducing or eliminating the number of support calls that occur, even by a small percentage, can greatly improve the profitability prospects for the hotel’s Wi-Fi network. Nomadix offers the most effective plug and play experience available for public access networks – not only reducing support needs, but also providing users with a much better connectivity experience.

Managing the bandwidth for a site is another way Nomadix helps enhance resident satisfaction by helping to manage the demand against the supply of bandwidth. Not every site has the ability to provision gigs of throughput for each user and controls are needed to support this.



Nomadix Solutions for MDU resident Access

Nomadix Gateway	Description
AG 5900 (8,000 users) AG 2500 (500 users)	<p>Nomadix Gateways provide functionality for:</p> <ul style="list-style-type: none"> Customer Acquisition Service Provisioning Multi-mode Authentication & Access Control Advanced Security Billing Plan Enablement Global Roaming Easy Onboarding
Nomadix Service Engine (NSE)	Enables:
NSE Core Software (on all Gateways) NSE High-Availability Module NSE Load Balancing Module NSE Routed Subscriber Module	<ul style="list-style-type: none"> Plug And Play via patented Dynamic Address Translation (DAT) Home page redirect for information or promotional uses Multiple VPN tunnels for per-user security Supports layer 3 WLAN, MESH and other routed networks Allows data packets to be classified and marked so they can be acted upon Web-based and auto-configuration for ease of deployment and support Policy-based traffic shaping for granular control of bandwidth usage Link Aggregation and Failover across multiple ISP connection Hardware failover Clustering providing a design capacity up to 2 million subscribers being served