

## HotSpot Solutions for Service Providers

### *Manageable, Intelligent HotSpots for Multiple Revenue Streams*

Nomadix gives service providers full-featured HotSpot solutions for any size venue using a range of manageable, intelligent HotSpot Gateways running the Nomadix Service Engine (NSE). Nomadix HotSpots allow service providers and venue owners to generate multiple revenue streams, and offer significant advantages to competitive solutions:

- Easy for customers to connect with seamless plug and play regardless of customer's device network or browser settings
- Ability to capture recurring revenue from roaming and by providing advertising on HotSpot sign-up page
- Powerful remote management to lower overall cost structure of deploying multiple HotSpot locations
- Scalable platform that can be used to deliver additional future services

Nomadix HotSpot solutions address the critical security, management, and billing issues associated with offering public Internet access in venues large and small, in addition to providing a means to generate additional revenue streams.

### **Benefits of Nomadix HotSpots**

- *Plug and play* – Nomadix simplifies the end user connection experience better than other solutions, which dramatically reduces support costs and improves customer satisfaction
- *Multi-revenue streams* – Multiple revenue streams from HotSpot service revenue, location-aware services such as advertising, and roaming provide multiple opportunities for recurring revenue
- *Easy remote management* – Remote web-based management and Nomadix' unique auto-configuration technology bring deployment and management costs to the lowest in the industry
- *Superior network and user security* – Nomadix offers robust network security features to protect against malicious attacks and hackers, and supports the use of multiple VPN tunnels for user security

### **Why Choose Nomadix?**

Nomadix has been developing public access solutions longer than any other company in the market, with more market acceptance than any other manufacturer. The Nomadix solution allows service providers and HotSpot venue owners to offer a user-friendly service using the widest variety of billing options and generate revenues from a variety of vehicles, with reduced provisioning and technical support costs.

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Key features provided by the Nomadix solution include:

- *Support for Disparate Wireless Clients* – Nomadix' Dynamic Address Translation (DAT) technology makes sure all users can get connected, regardless of system or browser configuration.
- *User Security* – Nomadix offers industry-standard VPN support for PPTP, IPsec, and adds its patented iNAT technology that allows multiple 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.
- *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, giving information on how to connect as well as providing a vehicle for advertising and promotion.
- *Billing Management* – Seamless integration with existing systems and integrated RADIUS client allow user identification and billing using MAC addresses, username/password, or port billing using credit cards, scratch cards, or monthly subscriptions; and the ability to bill by time, volume, or bandwidth.
- *Management and Administration* – Nomadix Access Gateways and other NSE-enabled devices feature remote web-based management using standard CLI (Telnet and serial) interfaces and extensive SNMP support. RADIUS-driven auto-configuration simplifies initial deployment and allows centralized management of all NSE-enabled devices for providers supporting multiple Nomadix HotSpots.
- *Home Page Redirection* – Redirects the HotSpot user's browser to the venue's sign-up page, with the ability to redirect both pre- and post-authentication. This gives the venue significant opportunities to leverage marketing and promotional opportunities with local businesses or other advertisers.
- *Policy-Based Traffic Shaping* – Allows bandwidth usage to be controlled by minute, hour, day, or week on a per-device basis.

Generating revenue from HotSpot service fees, roaming users, and HotSpot homepage advertising gives both service providers and venue owners the ability to realize multiple streams of ongoing revenue. In addition, flexible billing options give venue owners a variety of ways to charge for HotSpot service.

Nomadix also helps reduce the cost of supporting Wi-Fi HotSpots by providing a superior plug and play experience, which can significantly reduce connectivity issues. Clearly, reducing or eliminating the number of support calls, even by a small percentage, can greatly improve HotSpot profitability. 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.

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### Nomadix Solutions for HotSpots

<i>Nomadix Gateway</i>	<i>Description</i>
AG 5xxx (2,000 users) AG 3xxx (200 users) AG 2xxx (50 users)	Nomadix Gateways provide functionality for: <ul style="list-style-type: none"> <li>• Customer Acquisition</li> <li>• Service Provisioning</li> <li>• Multi-mode Authentication &amp; Access Control</li> <li>• Advanced Security</li> <li>• Billing Plan Enablement</li> <li>• Global Roaming</li> </ul>
<i>Nomadix Service Engine (NSE)</i>	<i>Enables:</i>
NSE Core Software (on all Gateways) NSE High-Availability Module NSE Routed Subscriber Module	<ul style="list-style-type: none"> <li>• Plug And Play via patented Dynamic Address Translation (DAT)</li> <li>• Home page redirect for information or promotional uses</li> <li>• Multiple VPN tunnels for per-user security</li> <li>• Supports layer 3 WLAN, MESH and other routed networks</li> <li>• Allows data packets to be classified and marked so they can be acted upon</li> <li>• Web-based and auto-configuration for ease of deployment and support</li> <li>• Policy-based traffic shaping for granular control of bandwidth usage</li> <li>• Up to 16 virtual access points from a single Nomadix Gateway</li> <li>• SMTP Redirect Service to allow Email from remote locations</li> </ul>
<i>Nomadix Support Services (NSS)</i>	<i>Enables:</i>
Premium - NSS	Tiered levels of manufacturer support to allow service provider customers to meet their support needs, such as customer service level agreements (SLAs) <ul style="list-style-type: none"> <li>• Premium–NSS for 24x7x365 phone and email support and next business day in-flight exchange</li> </ul>