AG 5000 Metro

NSE
NOMADIX SERVICE ENGINE

A HIGH PERFORMANCE SOLUTION FOR METROPOLITAN PUBLIC ACCESS NETWORKS

AT-A-GLANCE

- Powered by the Nomadix Service Engine™ (NSE) Core Software and pre-bundled with essential modules optimized for large deployments
- High performance networking device for Metro deployments
- Transport agnostic, capable of supporting either wired or Wi-Fi™ networks, including Mesh and WiMAX technologies
- Supports up to 4,000 simultaneous users

CUSTOMER ACQUISITION

- Patented Dynamic Address Translation™ (DAT) technology offers transparent network connectivity by resolving IP configuration and browser proxy issues
- Enables HotZone owners and operators to offer a user-friendly service while reducing provisioning and technical support costs

SERVICE PROVISIONING

- Patented Home Page Redirection intercepts the user's browser settings and directs them to a Web site for secure sign-up or log-in
- Pre/Post Authentication, Terms of Agreement and Goodbye redirection capabilities provide maximum branding flexibility and enable liability compliance for both providers and HotZone owners

ACCESS CONTROL

- Allows access to a pre-determined "Walled Garden" area of the Internet prior to authentication while providing an additional layer of security in the network by blocking access to the Internet until the user has been authenticated
- Gain incremental revenue from e-commerce sites, applications or content providers before the user purchases access

MULTIMODE AUTHENTICATION

- Supports secure, browser-based authentication over SSL while simultaneously supporting IEEE 802.1x and Smart Clients
- Providers can support the widest range of authentication, wholesale and roaming options
- Supports Nomadix Interconnect Services™ (NIS) Roaming Service

BILLING ENABLEMENT

- Supports a wide variety of billing models using credit cards, scratch cards or monthly subscriptions; bill by time, volume or bandwidth
- Public Access Service Operators (PASOs) and HotZone Owners can generate revenue at every touchpoint with the user–before, during, and after the connectivity purchase as well as support roaming users
- Supports variety of Access/Bandwidth resell models

ADVANCED SECURITY

- Patent-pending iNAT™ functionality offers unmatched VPN support
- Session Rate Limiting (SRL) and MAC filtering capabilities significantly reduce the risk of Denial of Service (DoS) attacks protecting the network

MANAGEMENT

- Includes IPSec client for secure remote management and built-in Web Management Interface and CLI where various levels of administration can be set along with extensive SNMP support
- Remotely manage a large number of devices using standards-based tools, keeping the cost of deployment and maintenance down

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PRODUCT OVERVIEW

INCLUDED MODULES

Credit Card Module

- Credit Card Interface

Wholesale Roaming Module

- NAI Routing

High-Availability Module

- Fail-Over

For more information on the NSE*CORE* and available Modules, visit www.nomadix.com.

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SPECIFICATIONS

PUBLIC ACCESS:
Dynamic Address Translation™ (DAT)
Home Page Redirection (Pre and Post Authentication / Goodbye)
iNAT™ (for seamless VPN connectivity)
SMTP Redirection
Full Authorization, Authentication and Accounting Support
RADIUS Client / Proxy
Bandwidth Management
Information and Control Console
Global Roaming Support

MEDIA ACCESS CONTROL:
CSMA/CA

PORTS:
10/100Base-T Ethernet, RJ-45 (UTP): Network
2-10/Base-T Ethernet, RJ-45 (UTP): Subscriber
DB9 serial: Management Port

NETWORKING:
IEEE 802.3 / 3u
IEEE 802.1d
DHCP Server
DHCP Relay
RADIUS Client (MD-5, PAP, CHAP, MS-CHAPv1, v2)

SECURITY:
iNAT™
MAC Address Filtering and Session Rate Limiting

AUTHENTICATION:
Internal Database
Universal Access Method (UAM) using SSL Smart Client Support (Boingo Wireless, iPASS, GoRemote)
IEEE 802.1x (MD-5 / TLS / TTLS / PEAP)

MANAGEMENT:
Multi-Level Administration Controls
Integrated VPN Client (IPSec) for secure connection to a NOC
Access Control Lists
SNMPv2c
Secure XML API
Auto Configuration and Upgrades
Syslog/AAA Log

POWER:
90 to 264 VAC
47/63 Hz

ENVIRONMENT:
Operating temperature: 5-40 degrees C
Operating humidity: 20-90% RH
Storage temperature: 0-70 degrees C
Storage humidity: 5-95% RH

REGULATORY:
FCC Class B, Part 15
CE Mark
CENELEC EN 55022: 1998 Class B
CENELEC EN 60950
UL Std 1950
CSA22.2 No 950

PHYSICAL:
1U, standard 19 inch rack
10.00 (L) x 10.00 (D) x 1.73 (H) inches
254 (L) x 254 (D) x 44 (H) mm
Weight: 4.5 lbs
Weight: 2.04 Kg

LEDS:
Power Indicator
10/100 ACT/LINK for each Ethernet port

PERFORMANCE:
User Support: Up to 4,000 concurrent users
Throughput: 97Mbit/s*

NOMADIX INTERCONNECT SERVICES

Nomadix Interconnect Services™ (NIS) create a large, managed roaming footprint for Public Access Service Operators (PASOs) and venues to connect with nomadic subscribers, regardless of their location. NIS also offers applications and content delivery such as partner branded services, VOIP and advertising. To learn more visit **www.nomadix.com**.

** As defined by RFC 1242, Section 3.17*

Nomadix Service Engine, Dynamic Address Translation and iNAT are trademarks or registered trademarks of Nomadix, Inc. Other names and brands may be claimed as the property of others.

NOMADIX™

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