NOMADIX®

HIGH-PERFORMANCE, SCALABLE ACCESS GATEWAY OFFERS HIGH USER COUNT AND GREAT THROUGHPUT SPEED

NOMADIX AG 5900 ACCESS GATEWAY

The AG 5900 is a next generation, high-performance Internet access gateway that enables the creation of a public Internet access network. Designed with scalability in mind to accommodate medium to large sized venues — from hotels to airports to stadiums and convention centers — the AG 5900 features the flexibility to support from 500 up to 8,000 simultaneous devices, and up to tens of thousands of devices when using our clustering feature. With a throughput of 1.5 gigabits per second, the AG 5900 can meet growing bandwidth demands while keeping Internet traffic flowing.

THE ONLY MOVING PART IS THE FAN

The AG 5900 hardware platform is built upon Intel's high-performance processors with built-in flash memory. Each system component in the AG 5900 was selected for its durability and lasting performance to ensure optimum uptime and deliver top speed regardless of user load. The AG 5900 is designed for intensive usage, supports multiple configurable wide area network (WAN) ports and multiple local area network (LAN) ports.

WHEN THE GOING GETS TOUGH, IT KEEPS GOING

Unlike systems built on repurposed general-market computer platforms, the AG 5900 has been designed specifically to give reliable performance at every level of load up to its stated maximum. Based on the Wind River VxWorks real-time, multitasking operating system, the AG 5900 is architected to use less processing power and therefore runs faster. Its performance and throughput do not degrade when more features are enabled or the load is increased. Combined with the proven Nomadix Service Engine™ (NSE) core software, the AG 5900 is an ultra high-performance appliance with unparalleled reliability that can perform under a wide variety of network demands.

BANDWIDTH CONSERVATION AND MANAGEMENT

Venue operators are very comfortable with the idea of conserving utilities such as water, electricity and gas. The technology built into the AG 5900 allows them to apply that same conservation mindset to their Internet service provider (ISP) connections. This means that operators can extend the useful life of their existing level of connectivity and slow the pace of investments in bandwidth upgrades. But, since conservation itself is never enough, the AG 5900 also offers tools to manage bandwidth actively, efficiently and fairly. Bandwidth can be managed by class of user, by group, subscriber or device, or by a combination of all four. And the weighted fair queuing (WFQ) feature ensures that customers who pay more for better service actually receive better service, even when network capacity is under pressure.

ACCOMMODATES EVOLVING USAGE PATTERNS

In the early 2000s, guests carried one device. Now, they carry three or more. How many will they carry next year? With the AG 5900, it doesn't matter. The platform is scalable from 500 up to 8,000 simultaneous devices — or up to tens of thousands of devices when using our clustering feature — and can be upgraded remotely with no truck roll required. No change of hardware or software design is required to upgrade to the desired device count.

ADVANCED SECURITY FOR NETWORK PROTECTION

The AG 5900 offers advanced security for network protection with Internet Control Message Protocol (ICMP) packet blocking. Enhanced by utilizing Session Rate Limiting (SRL) to manage Denial of Service (DOS) attacks, the AG 5900 includes URL filtering, centralized RADIUS authentication and iNAT technology that allows multiple Virtural Private Network (VPN) tunnels to provide users with a seamless connection at higher levels of security. Additionally, the AG 5900 provides the ability to centrally monitor responsible usage and set policies to securely manage user access.

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MODEL	AG 5900 SPECIFICATIONS		
User True Plug and Play	Dynamic Address Translation (DAT)	Dynamic Transparent Proxy	
Service Provisioning	Home Page Redirect HTTP - Redirect HTTPS - Redirect Portal Page Redirect Session Termination Redirect Information and Control Console	Pop-Up (Explicit) Logout Button International Language Support External Web Server Mode Internal Web Server Mode	Secure XML API over SSL Login Page Failover
Billing Plan Enablement	RADIUS Client RADIUS (AAA) Proxy Port-Based Policies	Port Mapping Local Database Property Management System (PMS)	Credit Card Interface Bill Mirroring
Access Control and Authentication	Authorization, Authentication and Accounting (AAA) Walled Garden Group Accounts	Tri Mode Authentication Universal Access Method over SSL IEEE 802.1x Smart Client Support (Boingo, iPass)	MAC Authentication Remember-Me Login
Advanced Security	iNAT IPsec Support PPTP Support	Session Rate Limiting (SRL) User Agent Filtering Mac Address Filtering URL Filtering	ICMP Blocking Proxy ARP for Device-to-Device Communication
Policy Based Traffic Shaping	New Bandwidth Management Features Class Based Queuing Fair Weighted Queuing	QoS Tagging Group Bandwidth Management	
IP Address Management	IEEE 802.3/3ul/3ab IEEE 802.1d DHCP Server	DHCP Relay Multiple Subnet Support IP Upsell	DHCP Client PPPoE Client
Intelligent Roaming	Realm Based Routing	Zone Migration	
Branding	Parameter Passing Enabling Branding		
Network Management	Web Management Interface (WMI) Command Line Interface (CLI) Integrated VPN Client for Management RADIUS-Driven Configuration	Multi-Level Admin Support Centralized Radius Authentication SMTP Redirection Access Control	Bridge Mode SNMPv2c Syslog/AAA Log TR069
Media Access Control	CSMA/CA		
Ports	10/100/1000 Base-T Ethernet, RJ-45 (UTP): WAN 5 – 10/100/1000 Base-T Ethernet, RJ-45 (UTP): LAN	Front-Access RJ-45 Port for Serial System Console DB9 Serial Port: Property Management Interface	
Power	100 to 240 VAC	50/60 Hertz	220 Watts
Environment	Operating Temperature: 0 to 40 C Operating Humidity: 5% to 90% RH	Storage: -20 to 70 C Storage Humidity: 5% to 95% RH (non condensing)	
Regulatory	FCC Class A UL, UL (US and Canada) CE EN 55022: 2010 Class A, EN 61000-3-2:2006/A1:2009/A2:2009, EN 61000-3-3:2008	EN55024:2010 (IEC 61000-4-2:2008, IEC 61000-4-3:2006/A1:2007/A2:2010, IEC 6100-4-4:2004/A1:2010, IEC 6100-4-5:2006, IEC 61000-4-6:2008, IEC 61000-4-8:2009, IEC 6100-4-11:2004), Australian Standard AZ/NZS CISPR 22:2009 Class A	CB Scheme RoHS
Physical	1U Rack Mountable 431 mm Wide x 305 mm Deep x 44.4 mm High	17"x 12" x 1.75" Weight: 10.2 lbs.	Weight: 7 kg
LEDs	Power Indicator Status Indicator Memory Indicator	10/100/1000 ACT/LINK for Each Ethernet Port	
Performance	8,000 Concurrent Users and/or Devices	Throughput: Up to 1,425 Mbps as Defined by RFC1242, Section 3.17	

As defined by RFC1242, 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.