



HIGH-PERFORMANCE, SCALABLE ACCESS AND BANDWIDTH MANAGEMENT GATEWAY

NOMADIX AG 5900 ACCESS GATEWAY

The AG 5900, Nomadix's high-performance bandwidth management gateway, just got better. With the new AG 5900, Nomadix offers support for copper and fiber WAN/LAN ports to support medium- to large-sized venues that require scalable visitor-based networks — from hotels and convention centers to stadiums and airports. With a throughput of 3G, 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. Unlike systems built on repurposed general-market computer platforms, the AG 5900 has been designed specifically to give reliable performance at every level of loads up to its stated maximum. 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 ultrahigh-performance appliance with unparalleled reliability that can perform under a wide variety of network demands.



FLEXIBLE AND SCALABLE CONNECTIVITY

The AG 5900 is available standard with six copper GigE interfaces and can be configured with a two-port SFP+ 10G fiber module either factory-installed or as a field-upgradeable SKU. The AG 5900's six copper GigE ports are configurable as either WAN or LAN ports. While the two-port SFP+ 10G fiber module can be configured for either WAN or LAN ports, the AG 5900 will be offered with two types of 10G SFP+ transceivers, Single Mode Fiber (SMF) and Multi-Mode Fiber (MMF), to connect to different types of physical networks simply by installing the appropriate transceivers. The fiber module is not hot swappable and requires that the AG 5900 be powered down to install or de-install. Alternately, the transceivers are able to be installed or de-installed without powering down the unit.

BANDWIDTH CONSERVATION AND MANAGEMENT

The quality of high-speed internet continues to rank as one of the most important factors for guests when they are choosing to stay at a hotel. With its access gateways, Nomadix continues to make enhancements in areas that will improve the bottom-line for hoteliers and visitor-based network providers. Bandwidth management is one of the biggest drivers of value in the hospitality arena and other venues where high-speed internet access is deployed. When bandwidth conservation is employed, operators can extend the useful life of their existing level of connectivity and slow the pace of investments in bandwidth upgrades. Nomadix understands this and is devoted to incorporating features in its access gateways to manage bandwidth actively, efficiently and fairly. Bandwidth can be managed by class of user, group, subscriber or device — or by a combination of all four. This allows operators to be less reliant on static bandwidth caps, while utilizing more of the network even when there are only a few guests.

SUPPORT FOR EVOLVING THROUGHPUT

Visitor-based networks around the world are becoming progressively overloaded by bandwidth-hungry, internet-based applications. There is a strong need for greater throughput as well as new methods of transmitting data at faster speeds. With the AG 5900, it doesn't matter. The platform supports up to 3G throughput and is scalable from 500 to 8,000 simultaneous devices — or up to tens of thousands of devices when using the clustering feature.

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 virtual 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.

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 | Bandwidth Management Features Class-Based Queuing Fair Weighted Queuing | QoS Tagging Group Bandwidth Management Per Device Capping | | | | | | | |
| IP Address Management | IEEE 802.3/3u/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 | Multilevel 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): 6 Ports Configurable as Either WAN or 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 lb | Weight: 7 kg | | | | | | |
| LEDs | Power Indicator Status Indicator Memory Indicator | 10/100/1000 ACT/LINK for Each Ethernet Port | | | | | | | |
| Performance | Test Type | RFC2544 | | | | HTTP 8000 Users | | | |
| | Interfaces | Multi-WAN Copper | | 10G Fiber | | Multi-WAN Copper | | 10G Fiber | |
| | Fast Forwarding | Disabled | Enabled | Disabled | Enabled | Disabled | Enabled | Disabled | Enabled |
| | "Up to" Max Value (Mbps) | 2442 | 2961 | 2442 | 5118 | 1530 | 2780 | 1530 | 3235 |