



## 1.4.1 Release README August 2005

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### Known Issues with this Release and Notes

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*New for this release:*

- Microsoft's 802.11i supplicant is incompatible with NSE's implementation of 802.11i
- Broadcast packets are not properly bridged across to the wireless client on a Virtual AP with VAP bridge mode enabled.

*From previous releases:*

- In rare situations, the NSE may fail to send LCP Echo-Requests to the PPPoE server, even though configured to do so. When this occurs, a physical reboot is required.
- NetMeeting video and audio may not work when the NSE is configured to use PPPoE.
- While in Bridge Mode, the NSE does not respond to or send LCP Echo-Requests. This will cause the PPPoE session to terminate.
- Subscribers using the L2TP tunneling feature on the NSE may generate some error syslog. This is purely cosmetic. Functionality is still intact.
- The AG-2000w has a DHCP client. As a default action it is configured to obtain a DHCP IP address from a DHCP server. This may cause it to take up to 5 minutes to boot up for the first time.
- Proxy users with exception listings cannot get access after going to a Non-proxy site with port=80.
- The "locale" option in Subscriber Login User Interface Settings is not supported in this release.
- Under CLI Port Location -> Add Subnets, the function does not check against the actual DHCP pools.
- Some subscriber messages (e.g. 'Bill by Hotel Room') are not relevant for this product.
- The SNMP MIB for the AG2000w series is based on the complete SNMP MIB for Nomadix' Network Service Engine Software. Therefore, some attributes may not be relevant for this product.

- Please note that the ISP Creation Page has been removed from the WMI and current.txt. The standard Portal Page redirect is to be used instead.
- The Subnet attribute in a RADIUS profile is not checked against the actual DHCP settings. Please make sure that the subnet VSA matches the configured DHCP pools.
- The new Pop-Up Logout button will also display the logout option for pre-paid Credit Card users.
- The ICC does not display the buttons, and the banners do not have a link on Windows Pocket PC.
- The ICC does not display buttons following a blank button entry.
- Changing the bandwidth in the ICC is not reflected in the Current Table.
- When IP Upsell is used in conjunction with the ICC, the bandwidth is always displayed as 1500:1500 regardless of the actual setting.
- WMI interface does not allow the setting of Double Quotes.
- The original Private IP address will be the IP address shown in subscribers' profiles even if they have changed to a public address.
- HotTelephone.com will not work with mis-configured subscribers.
- XML Add User command without entering a Password will insert '00' for that field.
- Using Mac OS X to telnet into the Nomadix gateway is not recommended.
- Importing Archive Configuration does not reboot the Nomadix gateway (except when using SNMP).
- "Remember Me" feature does not support Netscape running on Linux.
- The IP Upsell feature does not support Mac OS 8.5. For Linux system and Mac OS X, you need to reboot the system or release and renew the lease to get the new IP address.
- Some of the files on the Nomadix gateway flash directory may not reflect the actual modification and creation time and date. The incorrect time and date does not affect any Nomadix gateway function.
- Windows 95B does not support the Nomadix gateway's IP Upsell feature.
- The subscriber experience for the error message "Too many subscribers are already logged in. Please try again later." may differ dependent on the AAA settings of the device (on/off).
- The RADIUS Subnet VSA will appear in the RADIUS accounting packets even when the feature is disabled.
- Importing a location.txt with Subnets already setup will allow Port Location subnets that do not exist in the Nomadix gateway.

- Framed IP is 0.0.0.0 in the Accounting Start Message for Funk Odyssey Clients because the Odyssey Client sets the subscriber IP address to 0.0.0.0. Some RADIUS servers may not display 0.0.0.0 IP address.
- Upgrading from a firmware version that does not contain the Nomadix Multi-Subnet feature requires valid DHCP server settings. If not, the default DHCP server settings may need to be entered and dhcppools.txt and pools.txt will have to be deleted. After that the Nomadix gateway will need to be rebooted.
- Addresses can be added to the iNAT pool even if you do not have a valid license key. However, since the feature will not work without a license key, please make sure to obtain the right key prior to configuring this feature.
- SIM-based credit card (new Authorize.Net) and traditional credit card support functionality (ChainFusion, DataCenter) can be enabled simultaneously. However, they will not work at the same time.
- Importing archive.txt will not change the settings of the DHCP server and the RADIUS profiles.
- Network administrators are advised not to change plans from Normal to XoverY on-the-fly if they have users that have subscribed to the plans as this may lead to corruption of subscriber database since plans that no longer exist are referred by already existing users.
- Clicking ADD on the access control page enters an address of 0.0.0.0 to the access control list which could lock out all access to the system.
- The number of concurrent L2TP connections is limited to 30 concurrent L2TP tunnels.
- The settings for Secure XML are the same as the SSL settings under IWS configuration.
- For RADIUS auto-configuration, please make sure the current.txt is of the same version as the current firmware. There are known issues with using an older version of current.txt file.
- When the NSE is setup behind the D-Link NAT router, the RADIUS Accounting Request packets from the NSE are dropped by the RADIUS server if the NAS IP is enabled. The D-Link NAT router that was tested was Model: DI-604, Hardware: v.E2, Firmware: v.3.36, Release Date: Feb. 2004
- DHCP lease table states that all leases are available when they are not.
- There are known problems with packet delivery from the AG-2000w to the subscribers when the wireless data rate is set to 1 Mbps. This may result in subscribers getting incomplete login screens, or incomplete web pages if the pages are large in size. This problem does not occur at higher data rates.
- Subscribers using Funk Odyssey Client 2.x using static WEP cannot obtain network access after authentication.

- Cannot send or receive audio and video through NetMeeting when subscriber is static port mapped.
- Factory Resetting of the AG-2000w will enable the DHCP client after reboot. Statically configured IP, DNS and Gateway addresses will be lost on reboot during the factory reset process.
- Upgrading from 1.3 to 1.4 Release generates warning syslogs regarding missing tags and bad items. This does not affect functionality.

## **Resolution of Post 1.4 Release Issues:**

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- AG-2000w is able to boot up properly when Auto-Channel is selected in an environment near Symbol access points.
- PPPoE sends unsolicited PPP Terminate Request.
- Able to enter a lengthy Terms of Agreement through Internet Explorer.
- Subscribers can access web-based email such as Hotmail or Yahoo! Mail.

## **Implementation Recommendations**

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### ***New for this Release:***

#### **IEEE 802.11i**

- Enabling Mixed Mode simultaneously support WPA-TKIP and WPA2-AES
- Pre-authentication is not supported.

#### **Virtual Access Point**

- It is not recommended to configure more than one VAP to have the exact same SSID and Authentication Method.
- VAP Bridge Mode is not recommended on GRE and PPPoE networks.
- WAN VLAN is not recommended on GRE and PPPoE networks.

### ***From previous releases:***

#### **Access Control**

- When enabling Access Control it is recommended that you enter 172.30.0.0 to 172.30.255.255 IP range or 172.30.30.173 to the IP Access Control so as not to lock yourself out of the default management interface available on 172.30.30.172.
- It is not recommended to block all interfaces.

#### **DHCP**

- For DHCP Relay—if the DHCP Server issues IP addresses that are on the same subnet as the Nomadix gateway, you must use the Nomadix gateway network IP as the DHCP agent IP.
- For DHCP Server—if you set up the DHCP Server on the Nomadix gateway that issues the IP address that is on the same subnet as the Nomadix gateway, you must have the DHCP server IP equal to the network side of the Nomadix gateway.
- Some DHCP servers may not support DHCP relay functions. For example, the Allied Telesis AR-320 Router does not support DHCP relay traffic from the Nomadix gateway, whereas the tested Cisco routers do.

- Existing IP Upsell settings may not work when upgrading the device to this release from releases before 1.4.

## **DNS**

- Please note that DNS redirect ports have changed from ports 28 and 29 to ports 1028 and 1029 respectively.

## **Dynamic DNS**

- “Force Update” feature should be used with care, as dyndns.org may classify multiple updates, which do not change any information, as abusive. According to dyndns.org, abusive accounts will be locked out. Please refer to dyndns.org for details.

## **Firmware Upgrade**

- Please refer to the Firmware Upgrade Procedure document available from Nomadix Technical Support if you want to proceed with a firmware upgrade.

## **History Log**

- We do not Log FTP sessions in the history.

## **ICC**

- It is not recommended to define a billing plan with ‘0’ as the bandwidth setting since the ICC will translate this to ‘unlimited’. The term ‘unlimited’ may cause some misunderstanding with certain customers since the Nomadix gateway may traffic shape the bandwidth to the maximum WAN speed.

## **IEEE 802.1x**

- IEEE 802.1x with WEP uses Key Index 2, 3 or 4.

## **IPSec**

- It is not recommended to create a security policy with 0.0.0.0 for local and remote subnets.

## **Management Interface**

- If the IP Upsell feature is enabled and the subscriber chooses a different IP address, the database will only track the IP address that is used for the initial login.
- System administrator username and password to the Nomadix gateway is limited to 11 characters.
- We recommend using the latest version of Internet Explorer when using the Web Management Interface.
- The default for Administrator Concurrency is off. If administrators want to turn it on, they can go to the Web Management Interface at System/Login.
- When Administrators logout from the Web Management Interface by clicking the Logout button, they must close all open browsers on their machine to complete the logout process. If they still have another open session of the browser, other people cannot login to the Nomadix gateway with different IP addresses. This issue only occurs when admin concurrency is enabled.
- Concurrency from the same IP address: The Nomadix gateway does not support concurrency between multiple sessions in the WMI and with Telnet for managers/operators coming from the same IP address. This implies that if multiple users sitting behind a NAT device are trying to access the Nomadix gateway they will all be able to access the Nomadix gateway simultaneously, since the source IP address is always that of the NAT device. Also, if a manager logs in to the Nomadix

gateway via the WMI they can also login again via Telnet without having to logout from the WMI, and vice versa. The same is true for the operator.

- Multiple manager sessions on FTP are permitted.
- Both Administrators and Operators can ping from the Web Management Interface or Command Line Interface.
- History and System Uptime information are available from the Command Line Interface and the Web Management Interface, as well as SNMP.
- System administrators must enable “Passthrough” for using the portal page.

### **NetMeeting Support for Mis-configured Subscribers**

- For mis-configured subscribers using NetMeeting, the meeting host needs to be on the network side of the Nomadix gateway.

### **PPPoE**

- Configure PPPoE server to use PAP or CHAP for authentication
- When using iNAT address pools, static routes must be configured on the PPPoE server to route iNAT IP addresses to the NSE device.
- MTU configuration is not available. Instead the TCP MSS value is configurable.
- When using PPPoE Client, there is no such thing as a correctly configured subscriber, because the network interface IP address is a PPP endpoint and therefore is not on a subnet.
- The GRE tunneling feature is not supported when using PPPoE Client.
- Configure a tertiary DNS.

### **Proxy Support**

- Please note that this release supports up to 1024 proxy sessions simultaneously.
- The transparent proxy feature supports HTTP and HTTPS traffic and the proxy ports have to be the same.

### **PPTP**

- We recommend that subscribers have the “Use default gateway on the remote network” option checked on their PPTP client software setup.

### **RADIUS**

- For RADIUS subscriber setup, if there is no expiration time on the account, we recommend that system administrators set up a session time out on the user’s profile.
- You must turn on either NAS IP or NAS Identifier (or both) when setting up RADIUS.
- For RADIUS Proxy, it is recommended to only set the Nomadix gateway as the primary Authentication and Accounting server in the NAS. There is no need to set a secondary server.
- It is not recommended to set the retransmission time on the NAS to be less than the retransmission time on the Nomadix gateway.
- The local authorization and accounting RADIUS client ports, the authorization and accounting RADIUS proxy ports and the local RADIUS proxy port cannot use the same port.

### **SMTP**

- When SMTP redirection for correctly configured subscribers is enabled, all traffic going to port 25 will be redirected.

### **SSL Support**

- It is recommended to use a non True Server Name for the SSL Common Name.

- SSL support has been extended to XML commands. Please note that SSL should be enabled if you wish to post XML commands over SSL.

### Subscriber Configuration

- AOL users (with TCP/IP LAN setting) must first purchase Internet access using another browser (for example, Internet Explorer or Netscape) before they can use AOL.
- MacOS X has known issues on the network connectivity. Please check Apple.com for detail information.
- Subscribers must turn off the HTTP Mail Anti Virus on Gatelock X200 to allow Internet access.
- To allow MSN Explorer subscribers to access MSN Passport for authentication before purchasing Internet access through the Nomadix gateway, administrators must put login.pav0.hotmail.com and login.msna.passport.com in the DNS Passthrough list.
- If you allow first time Netscape 7.0 users to create their local profile with Netscape before they have purchased the service, you can add “activation.netscape.com” and “ureg.netscape.com” to the DNS Passthrough in the Web Management Interface.

### VLAN Switch and Access Concentrator Port-Location Mapping

- Port-Location settings must not contain spaces, “=,” “&,” or “?” symbols, otherwise subscribers cannot access the External Web Server.

### VPN Support

- This release supports only Tunnel Mode.

### VoIP Device

- When using VoIP products on the network that does not allow subscriber to subscriber communication, you must add the VoIP product as a “device” through the Web Management Interface (WMI) and enable ‘Proxy ARP’.

### XML

- If the Portal XML POST URL is a secure site, SSL must be enabled.

## Contact Information

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