



Nomadix Service Engine (NSE) - X.5 Release README October 2007

Bug Fixes Issues with this Release

- XML User_Payment Command was not working properly when the User_Add command included Bandwidth Parameters.
- With Usernames disabled Random characters were populating the username field for Credit Card Subscribers. The NSE no longer automatically populates the username field when usernames are disabled.
- The DHCP relay on the NSE would send all DHCP requests to the NSE's Gateway if it did not have the ARP entry for the DHCP Server that is on the same network segment. The NSE now will try to ARP for the DHCP Server that it relays to if it is on the same subnet so that it can be directly connected.
- The new user button was available to subscribers on Ports with a Port Based policy that only supported Radius Login's. The NSE no longer makes the new user button available to ports that have policies that disallow all billing but Radius.
- Radius Termination Action had stopped working in the last release. Nomadix has now fixed the Radius client so that it will respond to the Radius Termination Action properly according to the specification for the Termination Action attribute.
- Time changes to the Command Line Interface would time out the session and not force the re-login on the interface. CLI Settings are now taken but will not close out the session when the Time has been changed.
- For One-Way PMS there was no verification that the Subscriber that was being billed was the subscriber in the room which was receiving the PMS charge. The User_Payment command now will allow for the verification of the MAC address being on the Port that is going to receive the PMS charge. This change does not require this check to be done on the User_Payment command so current installations will not be adversely effected.
- Static Port Mappings were not accessible if the NSE dynamically changed it's address. Now Static Port Mappings are no longer attached to the NSE's IP address but configured separately and are available even when the NSE changes it's IP address.
- The possibility of being locked out of the administration of the NSE even from the Admin IP can happen with access control if there isn't an IP on the same subnet as the admin IP. The NSE now comes with a default IP address in the access control list of 172.30.30.173 that would allow access to the admin IP if all other access is locked out.

- NaN has been seen in Subscribers information on the NSE. This release should keep the NaN from appearing and causing any more issues on the NSE.
- An issue was found in Failover that Radius users might be required to login again when the Secondary gateway becomes Primary. The NSE now will continue the Radius session when the Secondary comes up as the Primary when using failover.
- The ability to add static routes to the NSE has been problematic for some time and host routes were not appearing in the Routing table when added. Now Host routes are seen when being added to the routing table instead of just subnet routes.
- DAT sessions and Subscriber Tracking information for proxy users was not giving the proper information. The NSE now displays the correct destination information for the proxy users in both instances the DAT and Subscriber Tracking.
- An issue with output to the serial not appearing when the NSE is set to DHCP Client was identified. Now there is the ability to always get into the serial interface no matter how the NSE is configured.

Known Issues with this Release

- Currently PPPoE is not supported on the AG 5500 Platform for this x.5 release.
- SSL can be enabled from the AAA page when no SSL Certificates are present in the flash of the NSE. This causes problems for users that are trying to access the NSE's IWS pages.
- ICC does not support changing billing plans if subscribers purchased access with Post-Paid PMS.
- 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. The issue is when the NSE does not receive an address, be it from DHCP or PPPoE, the only way to access it from the subscriber-side is if the subscriber system is on the same subnet as the admin IP.
- L2TP has some reconnection issues. If the L2TP portion goes down and the PPP tunnel is not gracefully removed, the re-launch of the tunnel won't happen until the PPP session has been cleared.
- There were a number of pagefaults identified that were all in the HTTPD task. A number of them have been fixed but all of the ones that were identified could still appear now and then.
- The SNMP MIB contains SNMP objects for all major NSE features running on the Access Gateway. If your current license does not contain a particular feature, you will not be able to GET or SET the object for the feature.
- Some settings in the Access Gateway take longer to update. For example, **systemCurrentDateAndTime** and **reboot**. You may experience a "No Response" error message when you set the object. To avoid this problem, we recommend you set the timeout to 3 seconds in the SNMP client software.

Examples:

For HP OpenView, go to **Options** then **Customize Device Access** and set the **Timeout** to 3000 milliseconds.

For CastleRock, right-click on the device and go to **Properties** then **Attributes**, and set the **Poll Timeout** to 3 seconds.

- You cannot configure Auto-Configuration using SNMP.
- You cannot Delete All DAT Sessions using SNMP.
- You cannot configure PMS interface settings using SNMP.
- The Administrative interface that displays the DAT sessions for the Nomadix NSE shows both Active and Inactive sessions at the same time. While the DAT session cleanup routine is working, there will still be inactive sessions on a unit that are displayed in the management interface.
- Subscribers with an IP address on the same subnet as a Remote IPSec subnet do not get redirected to the splash and login page correctly.

Implementation Recommendations

Configuration File Format Conversion

- In the release of x.4.2, the format of the configurations files has been changed. These files will automatically be converted to the new format during the upgrade process. If RADIUS Auto-Configuration is utilized, a manual conversion of the files on the FTP server will be required. All configurations should be backed up before upgrading to x.4.2 firmware.

Upgrade Mode

- The Upgrade Mode has been implemented in x.4.2 for the wired gateways to assist in performing a save upgrade.

Pass-through Addresses (AG 2100 Only)

- Increase to support up to 100 addresses (white list) at the gateway level. Black list address remains 53.

NSE ID parameter added

- The complete NSE ID is now passed as a parameter during the initial redirection of the subscriber. If the implementation of your Portal Page or EWS pages utilizes the NSE ID parameter, an update to the pages may be needed.

RADIUS Idle configuration

- When configuring an idle timeout for a Subscriber the RADIUS profile needs to have a positive integer greater than zero or the attribute will be ignored by the NSE. If the desired outcome is to have some users with an idle timeout and some without an idle timeout, then the best way to do this is to set the global idle timeout on the NSE to zero and setup an idle timeout in all User profiles that need a specific timeout.

DNS Configurable Ports

- When configuring the DNS redirection and Proxy DNS ports it is not advised to use the following ports because they are utilized internally by the NSE:
1111, 1112, 1645, 1812, 1646, 1813, 1701, 2111, 3111, 4500,

Subscriber Side Administration

- Subscriber-side administration is not supported in Upgrade mode.
- SNMP administration is only supported from the network-side of the NSE.

Logout IP

- When configuring the Logout IP Address to something other than the default of 1.1.1.1, please make sure that there are no other configurations in the NSE that are set with the same IP address.

QoS

- When using QoS in External Mode WAN VLAN needs to be enabled on the Configuration -> Location page, and 2-way VLAN needs to be configured on the Configuration -> Port Location page.
- Internal means the NSE will add the 802.1p tag based on the traffic descriptors present and configured.
- External means the NSE will forward all 802.1p tags it receives on either interface to the other interface.

IPSec Client with Fail Over

- Use caution with configuring the NSE's IPSec client when using the Failover feature. Some VPN servers do not allow multiple peers to have the same remote subnet. In such cases, configure only IPSec Security Policies that uses the NSE network interface IP address when configuring the IPSec settings on the NSE.
- If the new internal IPSec IP address is used, use caution of when a failover occurs. When the secondary becomes the primary, the secondary will use the primary's internal IPSec IP address.
- For an unforeseen reason the primary NSE fails, the IPSec VPN server may not be aware of the disassociation. When this occurs, the VPN server must terminate the IPSec connection with the failed peer. This can be done manually (if possible) through the VPN server's management interface or configuring the maximum lifetime to a small number. Not terminating the primary IPSec session may prevent the secondary NSE from establishing all the IPSec Security Associations.

Accessory Box Contents

Note that the contents of the Accessory Box that ships with AG 3100 and AG 5500's has changed. The following is the updated list of contents. This supersedes the information in the User Guide.

- **AG 3100**
 - 1 - Nomadix Service Engine Accessory CD
 - 1 - Non-Euro Power Cable
 - 1 - Euro Power Cable
 - 1 - 6' Serial Null Modem Cable
 - 2 - Rack Mount Brackets (Green)
 - 1 - Bumper and Screw Kit
- **AG 5500**
 - 1 - Nomadix Service Engine Accessory CD
 - 1 - Non-Euro Power Cable
 - 1 - Euro Power Cable
 - 1 - 6' Serial Null Modem Cable
 - 2 - Rack Mount Brackets (Green)
 - 1 - Bumper and Screw Kit

- **AG 5500 Metro Bundle**
 - 1 - Nomadix Service Engine Accessory CD
 - 1 - Non-Euro Power Cable
 - 1 - Euro Power Cable
 - 1 - 6' Serial Null Modem Cable
 - 2 - Rack Mount Brackets (Green)
 - 1 - Bumper and Screw Kit

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