



Nomadix Service Engine (NSE) - 2008.2.016 Marketing Flash August 2008

New Features Available with this Release

The Lawful Intercept (LI) feature captures information via the Subscriber Tracking Log, which is configured on the Logging page. Provisions of this feature are:

- i. Notification: subscriber tracking notifications are sent when certain events occur such as when subscribers are added to or deleted from the internal authorization database, are added to or deleted from the Current Table and at beginning and end of Network (TCP or UDP) sessions opened for the reported subscriber.
- ii. Subscriber Tracking Log: Additional configuration options have been added to the Subscriber Tracking Log to support this feature. The Syslog Message captures thirteen data fields and displays them in a CSV comma-delimited format.

LI requires use of an external time server via NTP. The NSE's NTP function has been enhanced so that the time for LI tracking is now continuously updated by NTP queries at a specified interval. These NTP updates are specific to LI only - they do not affect the overall system time, which is still based upon the initial NTP query performed at boot time.

At this time LI Session support is limited to mis-configured subscribers. Additional support for correctly-configured subscribers is planned for a future release.

Enhancements with this Release

- **Device-to-Device Communication Extension**: This extension only supports communication between subscriber-side entities that are configured on the NSE as Devices. "Ordinary" subscribers cannot utilize this feature. The 'Proxy ARP for Device' option must be configured on each device involved. When one device sends traffic to another, this traffic is now sent directly to the target device internally through the NSE. In previous releases, the Proxy ARP function would send this traffic out the network side to be bounced back from a network side router – this will no longer be required.

This extension also supports communication between devices that are on different VLAN's, different subnets, or both (devices already on the same VLAN and subnet do not usually require the NSE to communicate). When VLAN's are being used, any device that resides on a given VLAN must have the correct VLAN specified in the 802.1Q Device Port field within the subscriber (device) profile. There are no protocol limitations as long as devices are properly configured.

- **PMS Refunds**: The NSE will now be able to post a negative total amount to PMS in order to enable refund transactions. The XML command will now no longer return an error when a

negative value is entered for the total, and the total will be posted to PMS. The extension works for both one-way and two-way PMS configurations

- **XML Subscriber Logout Upon Port Migration:** The option to require a re-login upon subscriber migration to a different port already exists for RADIUS users (enabled via the “Re-login after migration” option on the Port-Location configuration page). With this release, this capability has been extended to XML users as well.

When the Re-login after migration option is enabled, an authenticated XML subscriber that migrates to another port will produce the following behavior:

- i. A subscriber is added to the account database via XML. The subscriber physically connects via a given port and then subsequently logs in and begins to browse.
 - ii. The subscriber moves to a different port and then attempts to continue to browse. The subscriber will be removed from the current table and then set to pending upon reception of further traffic.
 - iii. In order to regain access, the subscriber will need to re-login using the username already present in the database.
- **Routed Subscriber Changes:** Previous releases required that the subscriber interface could directly connect to a single router only. The NSE Routed Subscriber feature now supports the connection of multiple subscriber-side routers directly to the NSE. This requires additional information be provided including:
 - i. On the System\ARP Add page, enter the IP address and the MAC address of each router interface that will connect to the NSE.
 - ii. On the System\Route Add page, enter the IP subnet and prefix length for the destination network. Then enter the gateway address and select the interface (correspond to the values used for the ARP entry in the previous step).

Implementation Recommendations

The following table relates the appropriate current NSE release build numbers to gateway. Release 2008.2 is only available on the AG 5000 and AG 5500 at this time.

HSG	2008.2.016
AG 2000w	2008.1.010
AG 2100	2008.1.005
AG 3000	2008.2.016
AG 3100	2008.2.016
AG 5000	2008.2.016
AG 5500	2008.2.016

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