



# Nomadix Service Engine (NSE) - 7.0.029

## Marketing Flash

### May 2010

---

## New Features Available with this Release

---

### Redirection Parameter Signing

The NSE now provides the option to digitally sign EWS/Portal Page Parameters. This signing capability will prevent malicious subscribers from intercepting, forging and replaying URL strings that are used by the NSE and EWS/Portal Page to validate subscriber access, and therefore eliminates a vulnerability that was previously exploited to gain unauthorized Internet access for free.

The digital signature of the EWS/Portal Page Parameters will be available, on-demand, on licensed NSE installations. The NSE can now create a cryptographically strong signature that protects the sensitive portions of a URL redirection string (i.e., NSE ID, MAC address of the subscriber, etc), while letting the EWS/Portal Page verify that the URL string has not been tampered with or forged by the subscriber.

### Subscriber IP Address Parameter

A parameter that holds the value of the Subscriber IP address has been added to the redirection parameter list. This parameter can also be optionally signed in the manner described above.

## Enhancements with this Release

---

### Additional XML functionality

#### XML Current Table Query

A new XML command (*subscriber\_query\_current*) is now available that provides the means for administrators to query the NSE's current table for the status of a currently resident subscriber.

The functional capabilities of the *subscriber\_query\_current* XML command/response are as follows:

- The query pertains to a single subscriber, identified by MAC address.
- The information conveyed in the response will reflect the real-time status of the subscriber at the time of the request, as reflected in the NSE's current table.
- The query pertains only to actual subscribers. It will not return information about other entity types that may currently occupy a slot in the current subscriber table (such as Devices).

## XML Authorization Database Query

A new XML command (*subscriber\_query\_auth*) is now available that provides the means for administrators to query the NSE's authorization database (authfile) for the status of an authorized subscriber.

The functional capabilities of the *subscriber\_query\_auth* XML command/response are as follows:

- The query pertains to a single subscriber, identified by MAC address or by username.
- The information conveyed in the response will reflect the real-time status of the subscriber at the time of the request, as reflected in the NSE's authorization database.

## XML Authorization Database Listing

The NSE currently supports the ability to obtain listings of the Current Table and DAT table contents via XML. With this release, it is a listing of the contents of the NSE's Subscriber Authorization Database can also be obtained this way.

### Additional Enhancements

- The Web Management Interface (WMI) is now accessible via a secure https connection.

## Implementation Recommendations

---

The following table relates the appropriate current NSE release build numbers to gateway.

AG 2100	2008.1.005
AG 3000	7.0.029
AG 3100	7.0.029
AG 5000	7.0.029
AG 5500	7.0.029

## Contact Information

---

### Corporate:

**Nomadix, Inc**  
30851 Agoura Road  
Suite 102  
Agoura Hills, CA 91301  
USA  
++1.818.597.1500  
<http://www.nomadix.com/>

### Sales:

++1.800.NOMADIX  
[sales@nomadix.com](mailto:sales@nomadix.com)

### Technical Support:

++1.818.575.2590  
[support@nomadix.com](mailto:support@nomadix.com)