



**Purpose: To explain the different ways Bandwidth parameters can be applied to Free Users on the NSE.**

1. Mac Address entry in the subscriber database
2. User name and Password entry in the subscriber database
3. Group account entry in the subscriber database
4. Free billing plan
5. XML User Add with bandwidth

**1. Mac Address entry in the subscriber database.** From the Subscriber Administration menu, select Add and enter in the subscriber’s Mac address and the desired bandwidth. Click Add to create the entry.

**Add a Subscriber Profile to the Database**

**Subscriber**    **Device**    **Group Account**

DHCP Address Type   Private    Public    Only used if subscriber is configured for DHCP

MAC Address  

IP Address  

Subnet  

Username  

Password  

Expiration Time    hrs    mins

Paid   USD

User Definable 1  

User Definable 2  

Max Upstream Bandwidth    Kbps

Max Downstream Bandwidth    Kbps

QoS Policy  

Count-down after Login    Enable

SMTP Redirection    Enable   Note: Global SMTP Redirection must be enabled for subscriber SMTP Redirection to take effect, see SMTP page under Configuration options



**2. Username and Password entry in the subscriber database.** From the Subscriber Administration menu, select Add and enter a username, password and the desired bandwidth. Click Add to create the entry.

**Add a Subscriber Profile to the Database**

**Subscriber**    Device    Group Account

DHCP Address Type   Private  Public  Only used if subscriber is configured for DHCP

MAC Address  

IP Address  

Subnet  

Username  

Password  

Expiration Time    hrs    mins

Paid   USD

User Definable 1  

User Definable 2  

Max Upstream Bandwidth    Kbps

Max Downstream Bandwidth    Kbps

QoS Policy  

Count-down after Login    Enable

SMTP Redirection    Enable Note: Global SMTP Redirection must be enabled for subscriber SMTP Redirection to take effect, see SMTP page under Configuration options



**3. Group account entry in the subscriber database.** From the Subscriber Administration menu, select Add and enter a username, password, and the desired bandwidth and enable Group Account. Click Add to create the entry.

#### Add a Subscriber Profile to the Database

Subscriber    Device    Group Account

DHCP Address Type   Private  Public  Only used if subscriber is configured for DHCP

Subnet  

Username  

Password  

Expiration Time    hrs    mins

Paid   USD

User Definable 1  

User Definable 2  

Max Upstream Bandwidth    Kbps

Max Downstream Bandwidth    Kbps

QoS Policy  

Maximum users per group  

SMTP Redirection    Enable Note: Global SMTP Redirection must be enabled for subscriber SMTP Redirection to take effect, see SMTP page under Configuration options



## 4. Free Billing Plan.

**Step 1. Enable AAA with New Users and either Credit Card billing, or enable PMS billing.** The gateway must be licensed for Credit Card Billing or PMS. In this example, Credit Card Billing is enabled.

### Internal Web Server

Enable  
 SSL Support

Enable  
 Encrypt only Sensitive Data

**Note:** To enable, make sure your license includes SSL support and you have all the certificate files on the flash.

Certificate DNS Name

Enable  
 Portal Page

Portal Page URL

Enable  
 Parameter Passing

Parameter Signing	
Method	<input checked="" type="radio"/> None <input type="radio"/> HASH-CRC32 <input type="radio"/> HMAC-MD5
Parameters	<input type="checkbox"/> UI <input type="checkbox"/> MA <input type="checkbox"/> RN <input type="checkbox"/> PORT <input type="checkbox"/> SIP
Shared Secret	<input type="text"/> (write-only)

Enable  
 Manual Passthrough Address

Portal XML POST URL

Portal XML Post Port

Yes  
 Supports GIS Clients

Yes  
 Block IWS Login Page

Enable  
 Usernames

**Note:** Usernames option is enabled if any of the following are true: Relogin After Timeout, Relogin after Migration, XoverY billing, or Group Accounts.

Enable  
 New Subscribers

Enable  
 Relogin After Timeout

Enable  
 Credit Card Service

Credit Card Server

Credit Card Server URL

Credit Card Server IP

Merchant ID

Enable  
 Use NSE's hostname and DNS domain name

Authorize.net:

Enable  
 SIM Compliant

Change Transaction Key

Verify Transaction Key

Chainfusion:

Credit Card Transaction Time  minutes

Enable  
 Smart Client Support

**Note:** To enable, make sure your license includes Smart Client support.



## Step 2: Create a Zero Billing Plan.

### Internal Billing Options Plan Setup

Plan	0	
Enable	<input checked="" type="checkbox"/>	
Label	<input type="text" value="Free Plan"/>	
Description of Service	<input type="text" value="For checking Email only"/>	
<b>Pricing</b>		
Rate Per Minute	<input type="text" value="0.00"/>	
Rate Per Hour	<input type="text" value="0.00"/>	
Rate Per Day	<input type="text" value="0.00"/>	
Rate Per Week	<input type="text" value="0.00"/>	
Rate Per Month	<input type="text" value="0.00"/>	
<b>Time Unit</b>		
Minute	<input checked="" type="radio"/>	
Hour	<input type="radio"/>	
Day	<input type="radio"/>	
Week	<input type="radio"/>	
Month	<input type="radio"/>	
Wired for Business	<input type="checkbox"/>	
<b>Maximum Bandwidth</b>		
Up	<input type="text" value="64"/>	
Down	<input type="text" value="64"/>	
QoS Policy	<input type="text" value="select a policy"/>	
<b>DHCP Pool</b>		
Private	<input checked="" type="radio"/>	
Public	<input type="radio"/>	
<small>NOTE: Public option requires IP Upsell to be turned on. Otherwise, subscribers will receive private IP addresses.</small>		
<input type="button" value="Submit this Plan"/>	<input type="button" value="Delete this Plan"/>	<input type="button" value="Reset"/>
<input type="button" value="Back"/>		



**5. XML User Add with bandwidth.** Using the User Add XML command from an external server, a user can be added to the subscriber database with bandwidth applied. Please contact Nomadix Technical Support ([support@nomadix.com](mailto:support@nomadix.com)) for the latest XML documentation.

To use XML from external server, the NSE must be configured to accept the commands from the server. In the AAA settings you will need to enable the XML Interface with the IP address of the server(s) that will be sending the commands.

### Authentication Authorization and Accounting Settings

AAA Services	<input checked="" type="checkbox"/> Enable
Logout IP:	<input type="text" value="1.1.1.1"/>
XML Interface	<input checked="" type="checkbox"/> Enable
XML SERVER 1 IP	<input type="text" value="10.10.10.10"/>
XML SERVER 2 IP	<input type="text" value="12.12.12.12"/>
XML SERVER 3 IP	<input type="text" value="0.0.0.0"/>