



**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**

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

Proxy Arp For Device    Enable

802.1Q Device Port      *Only if device and Port-Location is 802.1Q two-way*

MAC Address  

IP Address  

Subnet  

Username  

Password  

Group Account    Enable

Expiration Time    hrs    mins

Count-down after Login    Enable

Paid   USD

User Definable 1  

User Definable 2  

UpStream Bandwidth    Kbps

DownStream Bandwidth    Kbps



**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**

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

Proxy Arp For Device    Enable

802.1Q Device Port      *Only if device and Port-Location is 802.1Q two-way*

MAC Address  

IP Address  

Subnet  

Username  

Password  

Group Account    Enable

Expiration Time    hrs    mins

Count-down after Login    Enable

Paid   USD

User Definable 1  

User Definable 2  

UpStream Bandwidth    Kbps

DownStream Bandwidth    Kbps



**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**

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

Proxy Arp For Device    Enable

802.1Q Device Port      *Only if device and Port-Location is 802.1Q two-way*

MAC Address  

IP Address  

Subnet  

Username  

Password  

Group Account    Enable

Expiration Time    hrs    mins

Count-down after Login    Enable

Paid   USD

User Definable 1  

User Definable 2  

UpStream Bandwidth    Kbps

DownStream Bandwidth    Kbps



#### 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

SSL Support  Enable You must reboot the NSE after turning it on/off.

Encrypt only Sensitive Data  Enable

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

Certificate DNS Name

Portal Page  Enable

Portal Page URL

Parameter Passing  Enable

Manual Passthrough Address  Enable

Portal XML POST URL

Portal XML Post Port

Supports GIS Clients  Yes

Block IWS Login Page  Yes

Usernames  Enable

New Subscribers  Enable

Relogin After Timeout  Enable

Credit Card Service  Enable

Credit Card Server

Credit Card Server URL

Credit Card Server IP

Merchant ID

Authorize.net:

SIM Compliant  Enable

Change Transaction Key

Verify Transaction Key

Chainfusion:

Credit Card Transaction Time  minutes

Smart Client Support  Enable

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>Bandwidth</b>	
Up	<input type="text" value="64"/>
Down	<input type="text" value="64"/>
<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"/>	



**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  Enable

Logout IP:

XML Interface  Enable

XML SERVER 1 IP

XML SERVER 2 IP