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Technote

EnGenius M36



Configuratie MESH

Datum: 28-07-2010
Versie: 1.0

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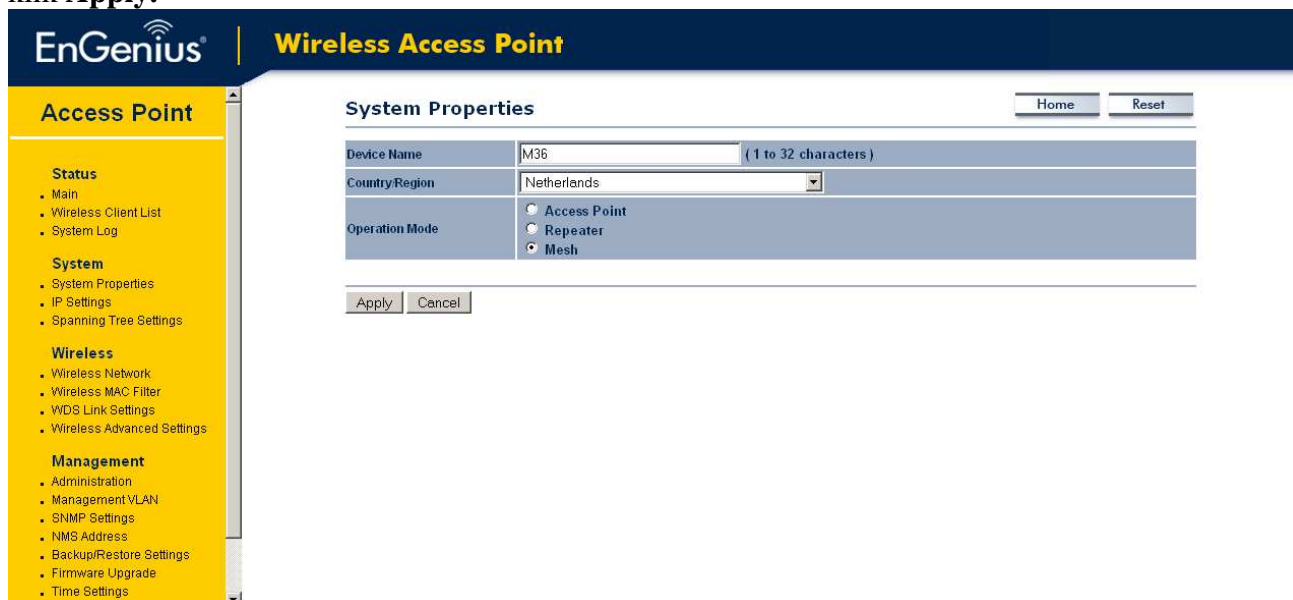


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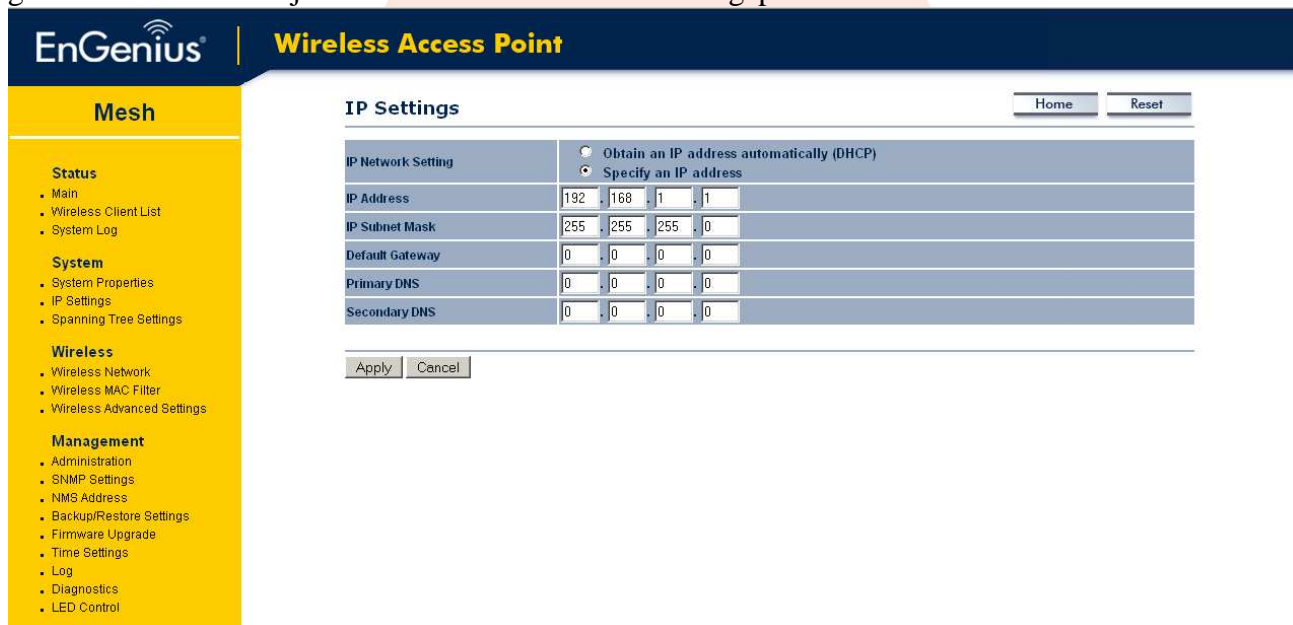
Access Point instellingen (Gateway)

Login op het default IP adres **192.168.1.1** met gebruikersnaam: **admin** en wachtwoord: **admin**
Klik op **System Properties** en stel de landcode in en kies in de keuzelijst voor optie **MESH** en klik **Apply**.



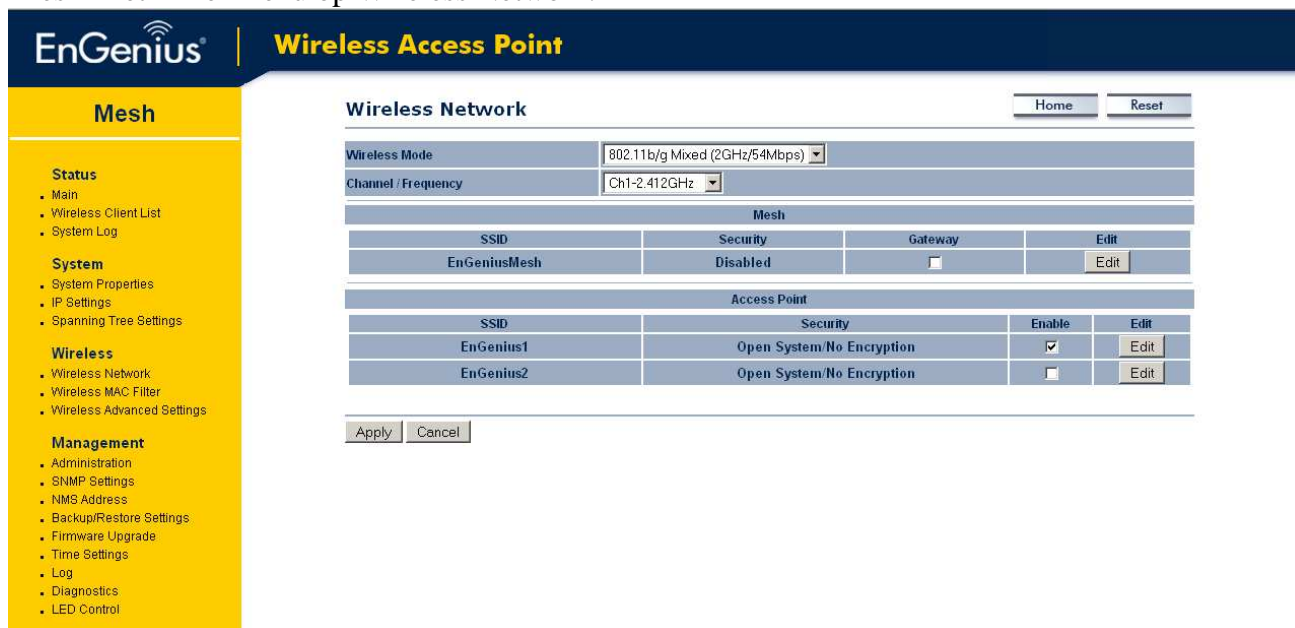
The screenshot shows the EnGenius Wireless Access Point configuration interface. The left sidebar is titled 'Access Point' and contains a tree view with categories: Status (Main, Wireless Client List, System Log), System (System Properties, IP Settings, Spanning Tree Settings), Wireless (Wireless Network, Wireless MAC Filter, WDS Link Settings, Wireless Advanced Settings), and Management (Administration, Management VLAN, SNMP Settings, NMS Address, Backup/Restore Settings, Firmware Upgrade, Time Settings). The main content area is titled 'System Properties' and includes a 'Home' and 'Reset' button. The configuration fields are: Device Name (M36, 1 to 32 characters), Country/Region (Netherlands), and Operation Mode (radio buttons for Access Point, Repeater, and Mesh, with Mesh selected). There are 'Apply' and 'Cancel' buttons at the bottom.

Klik op IP Settings in het linker menu om het IP adres aan te passen. Het IP adres welke u kunt gebruiken is afhankelijk van het netwerk waarin de unit geplaatst wordt.



The screenshot shows the EnGenius Wireless Access Point configuration interface, specifically the 'IP Settings' page. The left sidebar is titled 'Mesh' and contains a tree view with categories: Status (Main, Wireless Client List, System Log), System (System Properties, IP Settings, Spanning Tree Settings), Wireless (Wireless Network, Wireless MAC Filter, Wireless Advanced Settings), and Management (Administration, SNMP Settings, NMS Address, Backup/Restore Settings, Firmware Upgrade, Time Settings, Log, Diagnostics, LED Control). The main content area is titled 'IP Settings' and includes a 'Home' and 'Reset' button. The configuration options are: IP Network Setting (radio buttons for Obtain an IP address automatically (DHCP) and Specify an IP address, with Specify an IP address selected), IP Address (192, 168, 1, 1), IP Subnet Mask (255, 255, 255, 0), Default Gateway (0, 0, 0, 0), Primary DNS (0, 0, 0, 0), and Secondary DNS (0, 0, 0, 0). There are 'Apply' and 'Cancel' buttons at the bottom.

Kies in het linker menu op Wireless Network.

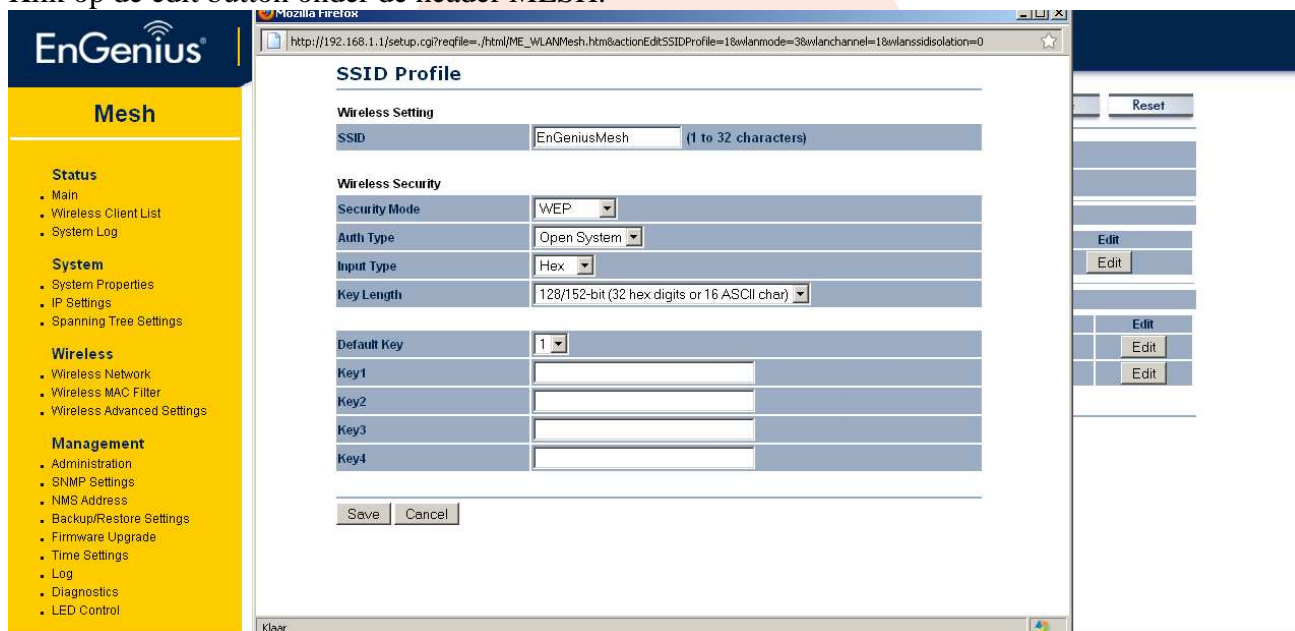


Mesh			
SSID	Security	Gateway	Edit
EnGeniusMesh	Disabled	<input type="checkbox"/>	Edit

Access Point			
SSID	Security	Enable	Edit
EnGenius1	Open System/No Encryption	<input checked="" type="checkbox"/>	Edit
EnGenius2	Open System/No Encryption	<input type="checkbox"/>	Edit

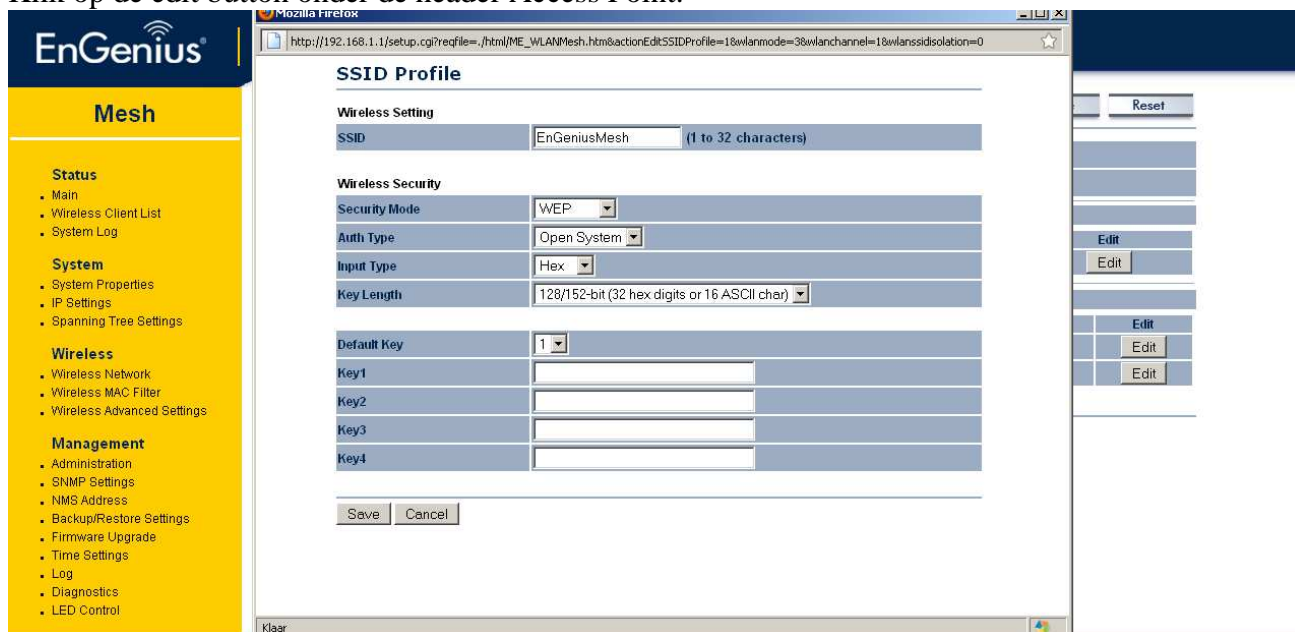
Selecteer bij Wireless Mode de band waarop u wilt gaan uitzenden.
Selecteer bij Channel het kanaal waarop u zal gaan uitzenden.

Klik op de edit button onder de header MESH.



Onder wireless settings vult u een SSID in.
Onder wireless security kiest u voor de security methode.
Klik op Save.
Schakel vervolgens de optie Gateway in.

Klik op de edit button onder de header Access Point.



Onder wireless settings vult u een SSID in.

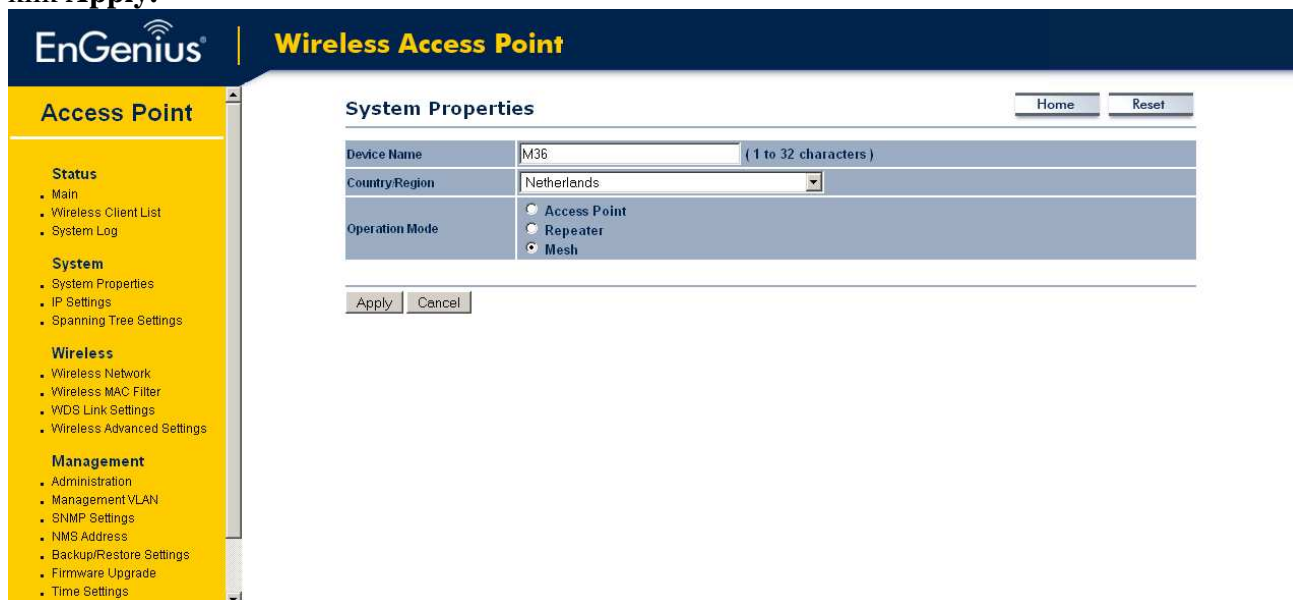
Onder wireless security kiest u voor de security methode.

Klik op Save.

Vervolgens onder de profile list nogmaals op Apply om de settings door te voeren.

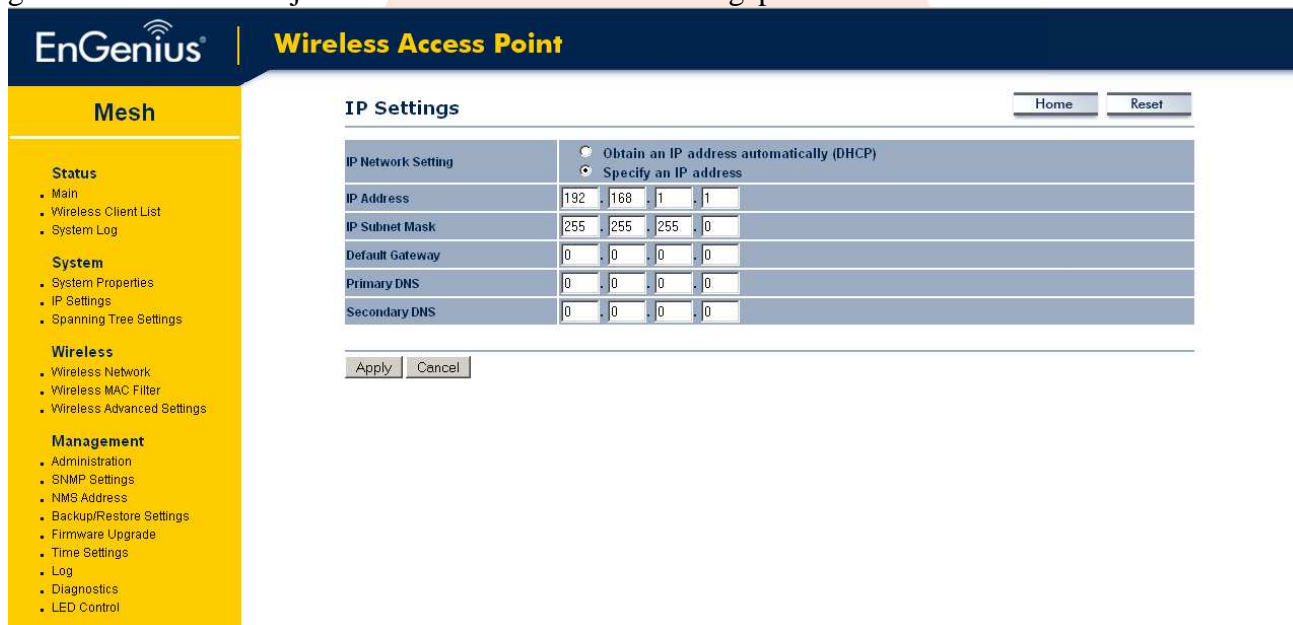
Access Point instellingen (Relay)

Login op het default IP adres **192.168.1.1** met gebruikersnaam: **admin** en wachtwoord: **admin**
Klik op **System Properties** en stel de landcode in en kies in de keuzelijst voor optie **MESH** en klik **Apply**.



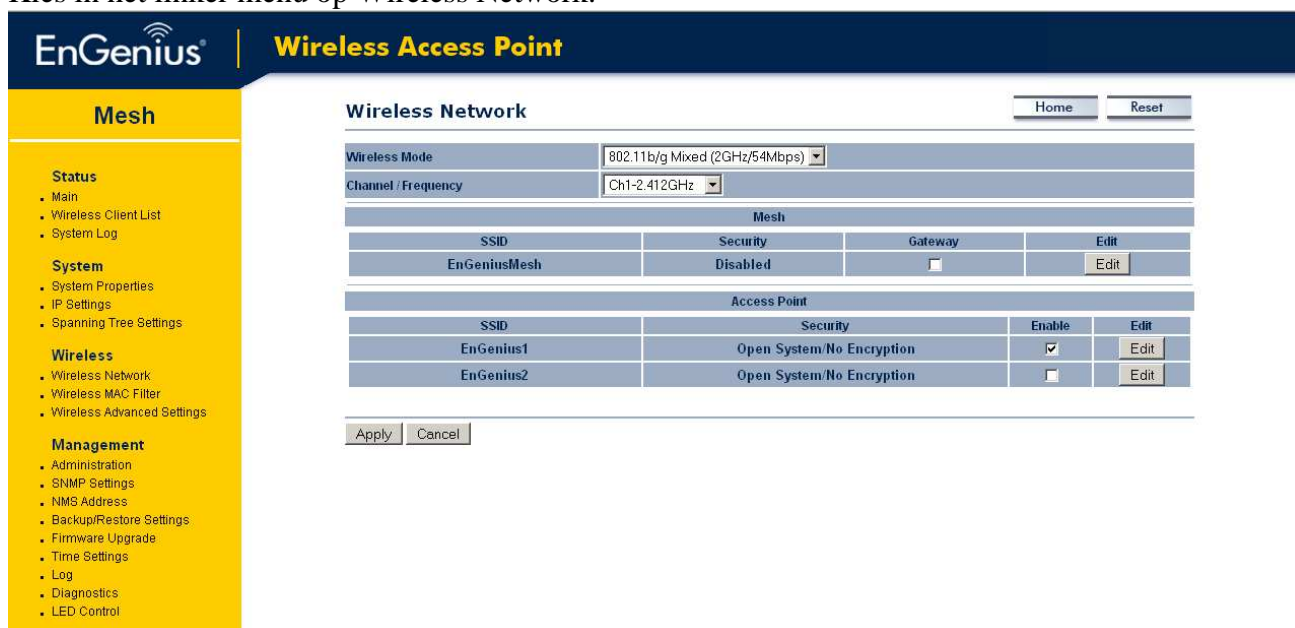
The screenshot shows the EnGenius Wireless Access Point configuration interface. The left sidebar is titled 'Access Point' and contains a tree view with categories: Status (Main, Wireless Client List, System Log), System (System Properties, IP Settings, Spanning Tree Settings), Wireless (Wireless Network, Wireless MAC Filter, WDS Link Settings, Wireless Advanced Settings), and Management (Administration, Management VLAN, SNMP Settings, NMS Address, Backup/Restore Settings, Firmware Upgrade, Time Settings). The main content area is titled 'System Properties' and includes a 'Home' and 'Reset' button. The configuration fields are: Device Name (M36, 1 to 32 characters), Country/Region (Netherlands), and Operation Mode (radio buttons for Access Point, Repeater, and Mesh, with Mesh selected). There are 'Apply' and 'Cancel' buttons at the bottom.

Klik op IP Settings in het linker menu om het IP adres aan te passen. Het IP adres welke u kunt gebruiken is afhankelijk van het netwerk waarin de unit geplaatst wordt.



The screenshot shows the EnGenius Wireless Access Point configuration interface with the 'Mesh' menu item selected in the left sidebar. The main content area is titled 'IP Settings' and includes a 'Home' and 'Reset' button. The configuration options are: IP Network Setting (radio buttons for 'Obtain an IP address automatically (DHCP)' and 'Specify an IP address', with 'Specify an IP address' selected), IP Address (192, 168, 1, 1), IP Subnet Mask (255, 255, 255, 0), Default Gateway (0, 0, 0, 0), Primary DNS (0, 0, 0, 0), and Secondary DNS (0, 0, 0, 0). There are 'Apply' and 'Cancel' buttons at the bottom.

Kies in het linker menu op Wireless Network.



Wireless Network Home Reset

Wireless Mode: 802.11b/g Mixed (2GHz/54Mbps)
Channel / Frequency: Ch1-2.412GHz


Mesh			
SSID	Security	Gateway	Edit
EnGeniusMesh	Disabled	<input type="checkbox"/>	Edit

Access Point			
SSID	Security	Enable	Edit
EnGenius1	Open System/No Encryption	<input checked="" type="checkbox"/>	Edit
EnGenius2	Open System/No Encryption	<input type="checkbox"/>	Edit

Apply Cancel

Selecteer bij Wireless Mode de band waarop u wilt gaan uitzenden.
Selecteer bij Channel het kanaal waarop de Gateway uitzend.

Klik op de edit button onder de header MESH.



SSID Profile Reset

Wireless Setting
SSID: EnGeniusMesh (1 to 32 characters)

Wireless Security
Security Mode: WEP
Auth Type: Open System
Input Type: Hex
Key Length: 128/152-bit (32 hex digits or 16 ASCII char)
Default Key: 1

Key1:
Key2:
Key3:
Key4:

Save Cancel

Onder wireless settings vult u een SSID in.
Onder wireless security kiest u voor de security methode.
Klik op Save.

Klik op de edit button onder de header Access Point.



Onder wireless settings vult u een SSID in.

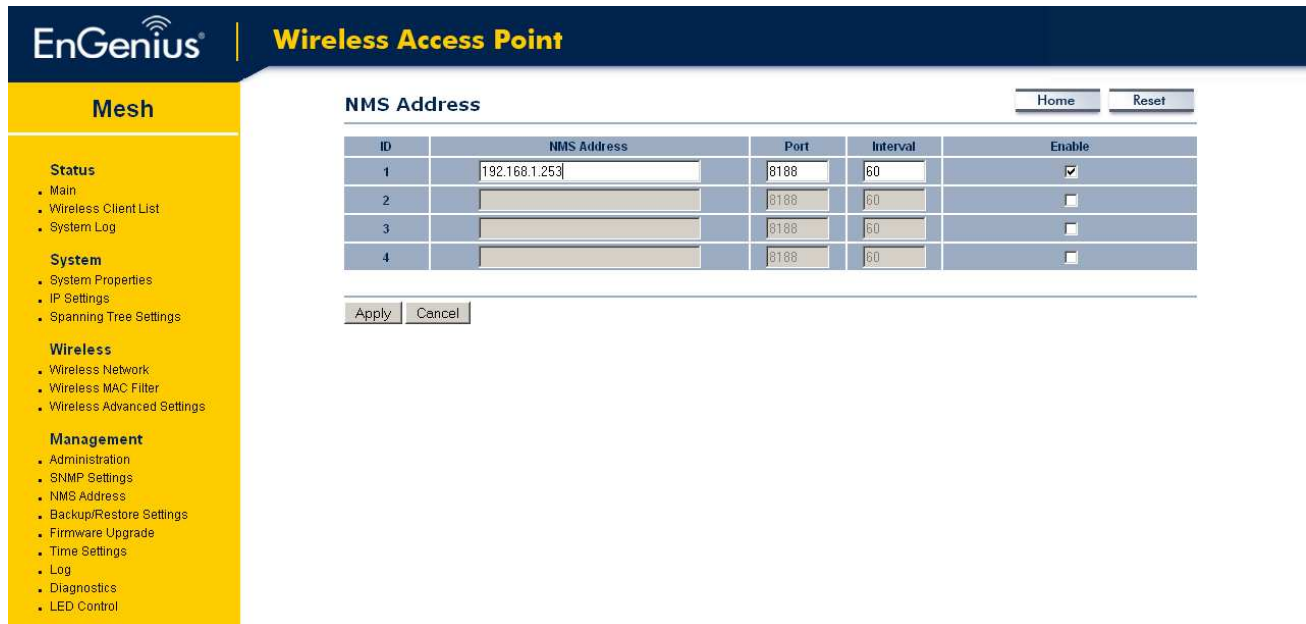
Onder wireless security kiest u voor de security methode.

Klik op Save.

Vervolgens onder de profile list nogmaals op Apply om de settings door te voeren.

Network Monitoring System

In het linker menu klikt u op NMS address, op deze pagina kunt u 4 IP adressen invoeren waar de M36 zijn monitoring data naar toe zal versturen. Nadat de IP adressen zijn ingesteld klikt u op Apply.



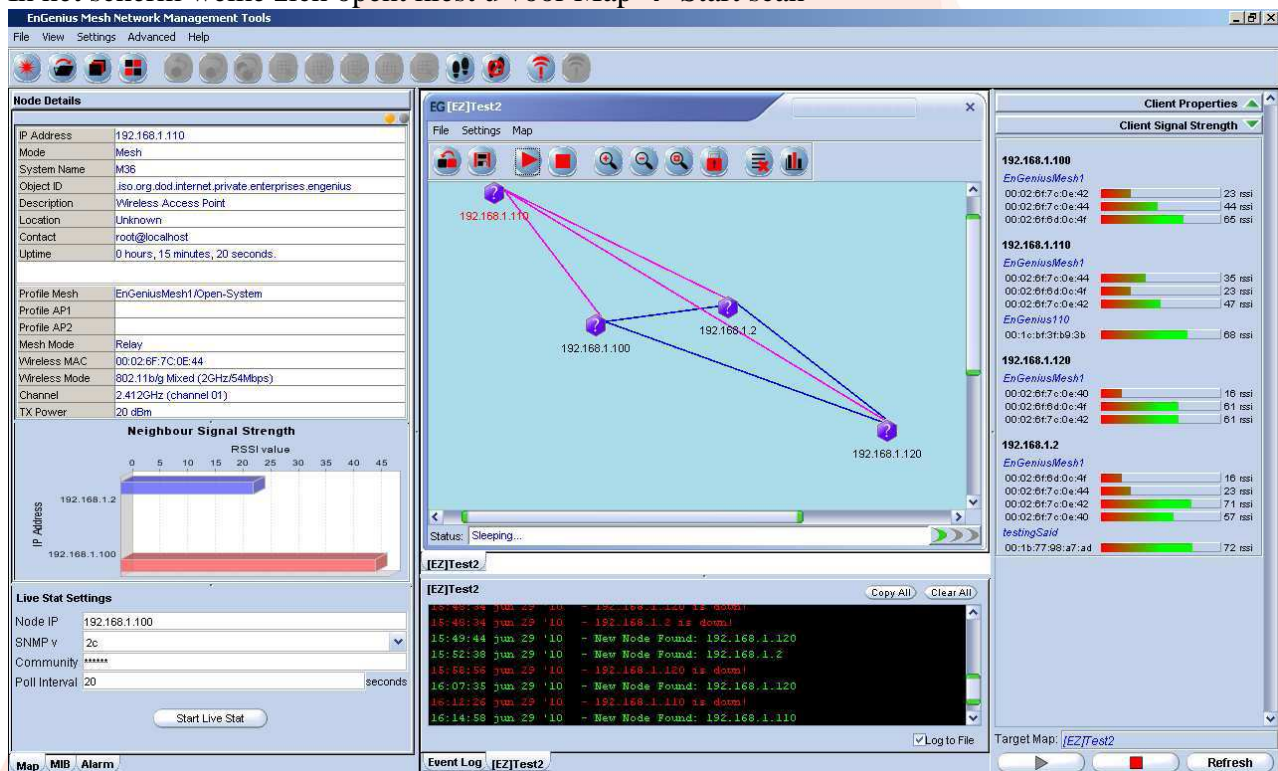
EnGenius Wireless Access Point

NMS Address Home Reset

ID	NMS Address	Port	Interval	Enable
1	192.168.1.253	8188	60	<input checked="" type="checkbox"/>
2		8188	60	<input type="checkbox"/>
3		8188	60	<input type="checkbox"/>
4		8188	60	<input type="checkbox"/>

Apply Cancel

In de Network Monitoring System klikt u op File → Create MAP
U kiest vervolgens voor EZ-map en geeft een passende naam op.
In het scherm welke zich opent kiest u voor Map → Start scan



EnGenius Mesh Network Management Tools

File View Settings Advanced Help

Node Details

IP Address: 192.168.1.110
Mode: Mesh
System Name: M36
Object ID: iso.org.dod.internet.private.enterprises.engeniuis
Description: Wireless Access Point
Location: Unknown
Contact: root@localhost
Uptime: 0 hours, 15 minutes, 20 seconds

Neighbour Signal Strength

RSST value: 0 5 10 15 20 25 30 35 40 45

Client Properties

Client Signal Strength

192.168.1.100
EnGeniusMesh1
00:02:8f:7c:0e:42 23 rssi
00:02:8f:7c:0e:44 44 rssi
00:02:8f:6d:0c:4f 65 rssi

192.168.1.110
EnGeniusMesh1
00:02:8f:7c:0e:44 35 rssi
00:02:8f:6d:0c:4f 23 rssi
00:02:8f:7c:0e:42 47 rssi

EnGenius110
00:1c:bf:3f:b9:3b 68 rssi

192.168.1.120
EnGeniusMesh1
00:02:8f:7c:0e:40 16 rssi
00:02:8f:6d:0c:4f 61 rssi
00:02:8f:7c:0e:42 61 rssi

192.168.1.2
EnGeniusMesh1
00:02:8f:6d:0c:4f 16 rssi
00:02:8f:7c:0e:44 23 rssi
00:02:8f:7c:0e:42 71 rssi
00:02:8f:7c:0e:40 57 rssi

testingSaid
00:1b:77:98:a7:ad 72 rssi

Event Log [EZ]Test2

```

15:48:59 jun 29 +10 - 192.168.1.120 is down!
15:49:34 jun 29 +10 - 192.168.1.2 is down!
15:49:44 jun 29 +10 - New Node Found: 192.168.1.120
15:52:38 jun 29 +10 - New Node Found: 192.168.1.2
15:58:58 jun 29 +10 - 192.168.1.120 is down!
16:07:35 jun 29 +10 - New Node Found: 192.168.1.120
16:11:26 jun 29 +10 - 192.168.1.110 is down!
16:14:58 jun 29 +10 - New Node Found: 192.168.1.110
    
```

Target Map: [EZ]Test2 Refresh