

## Next Generation is Now

During 2010, while the DHCPatriot v4 served customers without needing a single patch, FNGi developers have diligently worked on the next generation of DHCPatriot system software and are proud to announce the pending release of DHCPatriot version 5!

### Events are Chic

Backend processing of customer records and DHCP has been redesigned in the DHCPatriot version 5, streamlining the process and reducing processor load. Our new event based approach reduces the load on an idle system to near zero, and provides a more real time feel to processing customer activities.

DHCPatriot version 5 is faster, even more stable and looks like a million bucks. We've compiled over ten years of software evolution and ideas into this release - such as an event driven backend and more category-based UI (user interface). DHCPatriot version 5 also now includes the much requested option of split authentication configuration.

In the past, the authenticated DHCP configuration was mostly unified. Further, all users had to be removed from a subnet before the subnet could be edited or removed. The "main" subnet could not be removed at all without deleting the entire network, only changed. These things are no more. The configuration for authenticated DHCP now closely resembles the configuration of standard DHCP. This document will preview some important highlights like this one in version 5.

### Linux<sup>®</sup> Powered

Under the hood, version 5 is founded on a brand new compilation of the Linux operating system and standard UNIX tools. After five years, the bedrock reliability of our OS has led the field in stable DHCP authentication. Version 5 builds on that and beyond. The new OS means that in the coming months we will be able to implement the latest technologies, such as IPv6, and take advantage of newer more powerful hardware.

Version 5 has just entered alpha status! We have completed the addition of new features, and are now entering the final round of testing before beta 1. We felt that it was a good time to announce some of the changes in this newest build of the DHCPatriot.



# New Admin Interface

The front end web administration interface has undergone a redesign. Things are now much more logically arranged and function in a more user friendly manner. Gone are the frustrations of having to remove everyone from a particular subnet before it could be edited, slow searching of the DHCP logs, and hunting for the correct reports. Moreover, the menu containing the reports has been redesigned for easy navigation. Continue reading for some examples of changes to the interface.

## Auth Config

Each function is now performed in a unified screen pertaining to the particular area of interest. For example: the adding, editing, enabling/disabling, or deleting of an authenticated subnet are all done on the same interface.

Another important new interface feature in the authenticated DHCP section is that the configuration of these is now setup similarly to the standard DHCP configuration. The first step in setting up an authenticated DHCP network is to define the

Location: Auth DHCP Config -> Authenticated Subnet

Define new or modify existing authenticated subnets here:

One or more authenticated subnets are necessary for each Authenticated DHCP Network to function. After an unknown mac address has been authenticated, an address out of the authenticated subnet is given to the device according to the network that it is in. Add or edit the authenticated subnet for the chosen network below.

1) Shared Network	Select One	Select the Shared Network that this authenticated subnet will be a part of.
2) Wire Address		Enter the Wire address of the authenticated subnet here. This is sometimes referred to as the network address. For example: The network 192.168.1.0/24 has wire address: 192.168.1.0 which is the first unusable address in the subnet.
3) Subnet Mask		Enter the Subnet Mask, which is sometimes referred to as the netmask, of the authenticated subnet here. For example: The subnet mask of 192.168.1.0/24 is 255.255.255.0
4) Gateway		Enter the gateway address of the authenticated subnet here. The gateway address is the address that is configured on the router interface that the customers are connected to. It can be any usable address in the subnet that will not fall into the range of IPs specified by the range start and stop addresses below. Most of the time, it is either .1 or .254 For example: The network 192.168.1.0/24 might have: 192.168.1.1 as the gateway address.
5) Range Start		Enter the Range Start Address of the authenticated subnet here. The range start address can be any useable IP from the subnet provided it is less than or equal to the range stop address and is not the gateway address. For example: The network 192.168.1.0/24 might have: 192.168.1.1 as the gateway address and 192.168.1.2 as the range start address.
6) Range Stop		Enter the Range Stop Address of the authenticated subnet here. The range stop address can be any useable IP from the subnet provided it is greater than or equal to the range start address and is not the gateway address. For example: The network 192.168.1.0/24 might have: 192.168.1.1 as the gateway address and 192.168.1.2 as the range start address and 192.168.1.254 as the range stop address.

Commit

Currently configured authenticated subnets:  
Get CSV

Shared Network	Wire Address	Subnet Mask	Gateway	Range Start	Range Stop			
amazon-kindle	10.242.242.0	255.255.255.0	10.242.242.1	10.242.242.2	10.242.242.254	[Disable]	[Edit]	[Delete]
amazon-kindle Disabled	192.168.131.0	255.255.255.0	192.168.131.1	192.168.131.2	192.168.131.254	[Enable]	[Edit]	[Delete]
test	74.115.183.240	255.255.255.240	74.115.183.241	74.115.183.243	74.115.183.254	[Disable]	[Edit]	[Delete]

network. Then add subnets. Add an unauthenticated subnet for users to be part of when they are not yet authenticated. Then add an authenticated subnet. A static subnet may also be added for assignment of static IP addresses via RADIUS or built-in authentication. Maintenance subnets are also located here. The old interface was more cumbersome as the first three steps had to be performed on the same screen with a rather lengthy form. The split of these features means that many things can be changed or deleted very easily to accommodate

address scheme changes and the like. Further, these changes can be made on the fly, even while some of the addresses are in use by customers!

## Captive Portal

The customer facing captive portal login page has also received an overhaul. Gone is the 90's era border around the authentication form. Also, a new information box has been added. This box displays the current MAC Address and IP Address of the device the user is authenticating. This feature is useful for support situations. Tech support will not need to have the user follow complicated procedures to find the current IP or MAC Address to be authenticated.



First Network Group LAN

Username:

Password:

Connect

Current Device Information

MAC Address: 00:00:00:00:00:00

IP Address: 74.219.82.97

Please enter your First Network Group LAN primary username and password, and then press the Connect button to initiate your LAN connection. This will need to be done one-time only.

If you receive an error message or have questions, please contact the First Network Group Support Department at 1-800-326-4168.

Powered by:



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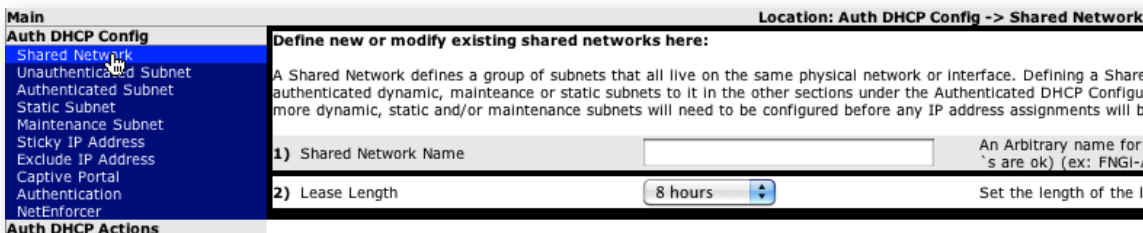
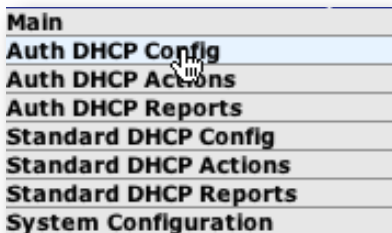


## The New Menu

The layout of the menus and sub-items now makes much more sense, coupled with the continued tradition of showing the current location at the top of the current page, facilitates easier and quicker navigation. Each menu category now explains

exactly what will be found beneath it. As before, only menu categories that have items within them for the administrator's admin level are shown. For example, a user may not see Auth DHCP Config, Standard DHCP Config or System Configuration without sufficient admin privileges.

Auth DHCP Actions and Standard DHCP Actions contain items that customer service reps may need to do on a daily basis. Items such as Suspend User, Authorize Customer and Known Client are shown in these menus. The report menus contain the varying reports for trouble shooting and maintenance. For example, View Address Usage and Search Sessions are now located under Auth DHCP Reports. Standard DHCP Reports contains similar items. Configuration items that are specific to Auth DHCP Configuration such as NetEnforcer and Captive Portal setup are now located Under Auth DHCP Config instead of System Configuration. System Configuration now only contains generic system-wide settings and maintenance tools.





# Better Reporting

The new Search Session under both Auth DHCP Reports and Standard DHCP Reports has been enhanced to show more relevant data, and to function more quickly. The form and results are displayed on the same page for easy reference to search parameters. Maximum length of search is now 24 hours to avoid past performance problems with administrators searching for weeks worth of data at a time.

Searching DHCP Logs for both standard and authenticated DHCP is also more robust now. The backend storage of DHCP logs has been re-worked with speed in mind. For performance reasons, only 24 hours may be searched at a time.

Many reports with similar information have been combined. For example, View Static IP Assignment has been rolled into View Authenticated Users as both interfaces had similar information. A slight adjustment to View Authenticated Users let it replace the View Static IP Assignment report.

### Search Authenticated Sessions

Here you can specify search limiters. These search limiters will help you either find when/whom was using an IP Address, or help you find the online time of a user for the specified dates, or they will allow you to see all users that were online during a particular time period. This report is designed to give you quick access to any of these types of information.

1) Username
An asterisk (\*) may be used as a wild card one or more times in the text. This is optional.

2) MAC Address
Enter a MAC Address here to limit the search to records with a specific MAC Address. This is optional.

3) IP Address
Enter an IP Address you would like to search for here. This is optional.

4) Show Only Online Devices
☐ ShowOnlyOnline
If checked, this field will cause only records to be returned for devices that are currently online. This is optional.

5) Search Date/Time Range

EST (-0500)

Start

End

Hour

Minute

This allows the specification of a date / time range. Please note that 24 hours is the max range here. This is a required field.

Limit Displayed Entries:
Enter a value here and press enter to limit the returned results to only those containing the search text somewhere in them.

## Standard Data Interface

Each result interface of any kind on the DHCPatriot Web Administration Interface shares a common routine for data display. On many of them CSV data is available for download, paging buttons show up conveniently, and a

Limit Displayed Entries:
Enter a value here and press enter to limit the returned results to only those containing the search text somewhere in them.

The following were or are online between 2011-01-19 11:43:00 EST (-0500) and 2011-01-19 13:43:00 EST (-0500) where username is I\*:  
Get CSV

Showing page 1 of 6 (Showing records 1 - 25 of 149)

Username	MAC Address	IP Address	Session Start	Session End	Length	Remain	Administrative Note
linksys	00:06:25:25:37:e5	74.115.183.251	2011-01-11 11:21:24 EST (-0500)	2011-01-19 18:50:15 EST (-0500)	8 days	6 hours	A Linksys WAP11
linux	00:50:da:cf:ff:7f	74.115.183.243	2011-01-19 12:43:37 EST (-0500)	2011-01-19 12:43:38 EST (-0500)	1 seconds	0	An old Dell Dimension L500r
linux	00:50:da:cf:ff:7f	74.115.183.243	2011-01-19 12:43:30 EST (-0500)	2011-01-19 12:43:31 EST (-0500)	1 seconds	0	An old Dell Dimension L500r
linux	00:50:da:cf:ff:7f	74.115.183.243	2011-01-19 12:43:24 EST (-0500)	2011-01-19 12:43:25 EST (-0500)	1 seconds	0	An old Dell Dimension L500r
linux	00:50:da:cf:ff:7f	74.115.183.243	2011-01-19 12:43:19 EST (-0500)	2011-01-19 12:43:20 EST (-0500)	1 seconds	0	An old Dell Dimension L500r
linux	00:50:da:cf:ff:7f	74.115.183.243	2011-01-19 12:43:15 EST (-0500)	2011-01-19 12:43:16 EST (-0500)	1 seconds	0	An old Dell Dimension L500r
linux	00:50:da:cf:ff:7f	74.115.183.243	2011-01-19 12:43:09 EST (-0500)	2011-01-19 12:43:09 EST (-0500)	0 seconds	0	An old Dell Dimension L500r
linux	00:50:da:cf:ff:7f	74.115.183.243	2011-01-19 12:43:05 EST (-0500)	2011-01-19 12:43:06 EST (-0500)	1 seconds	0	An old Dell Dimension L500r
linux	00:50:da:cf:ff:7f	74.115.183.243	2011-01-19 12:43:01 EST (-0500)	2011-01-19 12:43:02 EST (-0500)	1 seconds	0	An old Dell Dimension L500r
linux	00:50:da:cf:ff:7f	74.115.183.243	2011-01-19 12:42:55 EST (-0500)	2011-01-19 12:42:56 EST (-0500)	1 seconds	0	An old Dell Dimension L500r

Limit Displayed Entries is shown. Typing text in here will search through all returned entries displaying only those results in which the text was found.

Limit Displayed Entries:
Enter a value here and press enter to limit the returned results to only those containing the search text somewhere in them.

The following were or are online between 2011-01-19 11:43:00 EST (-0500) and 2011-01-19 13:43:00 EST (-0500) where username is I\*:  
Get CSV

Username	MAC Address	IP Address	Session Start	Session End	Length	Remain	Administrative Note
linksys	00:06:25:25:37:e5	74.115.183.251	2011-01-11 11:21:24 EST (-0500)	2011-01-19 18:50:15 EST (-0500)	8 days	6 hours	A Linksys WAP11

# Our Best Version Yet

DHCPatriot version 5 represents a leap forward in software design and quality. With Linux as the base OS, the system is even more secure. The backend processing is now event based which greatly enhances the efficiency of the system. The UI has received a facelift. It is now easier and faster to use. The version 5 design sets the foundation for a more aggressive patching schedule. It also lays the framework for supporting new technologies, such as IPv6, and newer hardware designs. Version 5 of the DHCPatriot system software will be released Q1 2011.

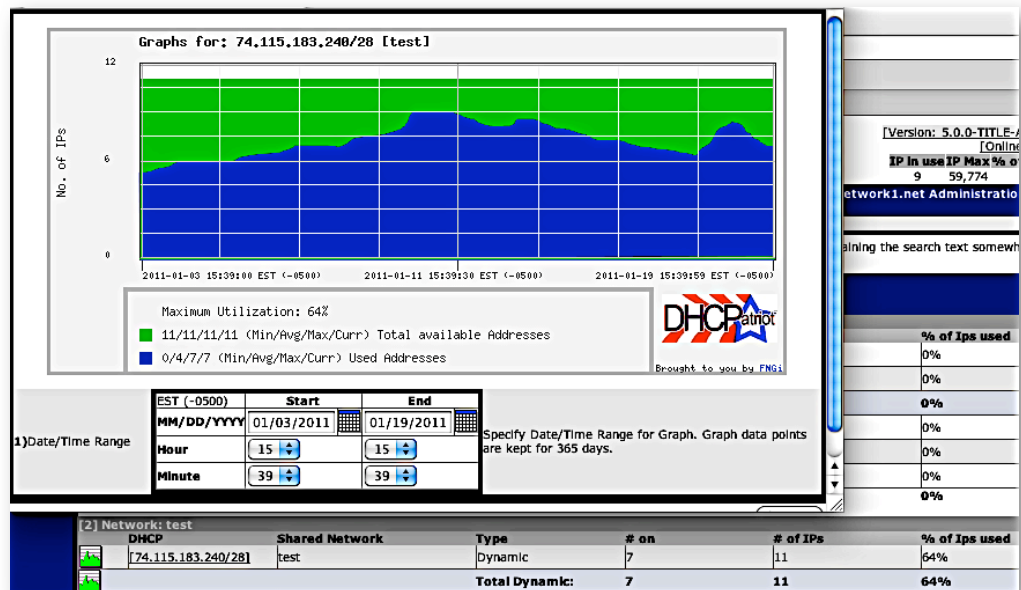
## How to Buy

The DHCPatriot may be purchased direct, or through one of our partner resellers. To purchase through a reseller, please contact your reseller of choice. For a current list of resellers, with contact information, please visit [How to buy](#) on [DHCPatriot.com](#).

To purchase direct or receive pre-sale support, please contact us:

[DHCPatriot@network1.net](mailto:DHCPatriot@network1.net) 800-578-6381 x7  
(419-739-9240 x7 if outside the United States of America)

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## No Forklift Required!

In the IT industry, it is not uncommon to find that purchased hardware is no longer supported, and that a new purchase is required to continue running supported software. Not with the DHCPatriot! Over the past ten years, we have maintained backwards compatibility, and version 5 is no different. Maintenance contract customers never have to pay for software upgrades. We contact the customer to arrange an install schedule that is beneficial to them when new releases arrive.

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