



Online Security

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My First line of Defense





Making Things Secure

- Router Security
- Anti-Malware Programs
- Browser Security
- Internet Searching



Router Security

- Router is First Line of Defense
- Router typically needs setup
 - Sticker to get started
 - Instructions in box
 - Search Internet

Router Security

- Fios Router

Actiontec MI424WR Rev. I User Name: admin Password: ?Q9b=76q

FC FOR HOME OR OFFICE USE
FCC ID: LNQMI424WRI

UL I.T.E. E212044
LISTED Made in China

Wireless Network Name(ESSID): MRXMB

Wireless Password (WPA2): F3RTGJXNJ26TPN7W

WPS PIN: 12391554

WAN MAC: 181BEB5D01FB

SSXI4296402134

S

LAN Ethernet

LAN Coax

USB 1

USB 2

WiFi® **Wireless Log-in Credentials**

Wireless Network Name (ESSID): MRXMB

Wireless Password (WPA2): F3RTGJXNJ26TPN7W

(Note: Password must be in ALL CAPS)

[Online Tutorial - www.verizon.com/quickguides](http://www.verizon.com/quickguides)

Router Security

- Netgear Router






Router Security

- Change Login to Router
- Change Wireless Login
- Change Security to WPA2

Router Security

- Login to Router via Browser
- URL is 192.168.1.1



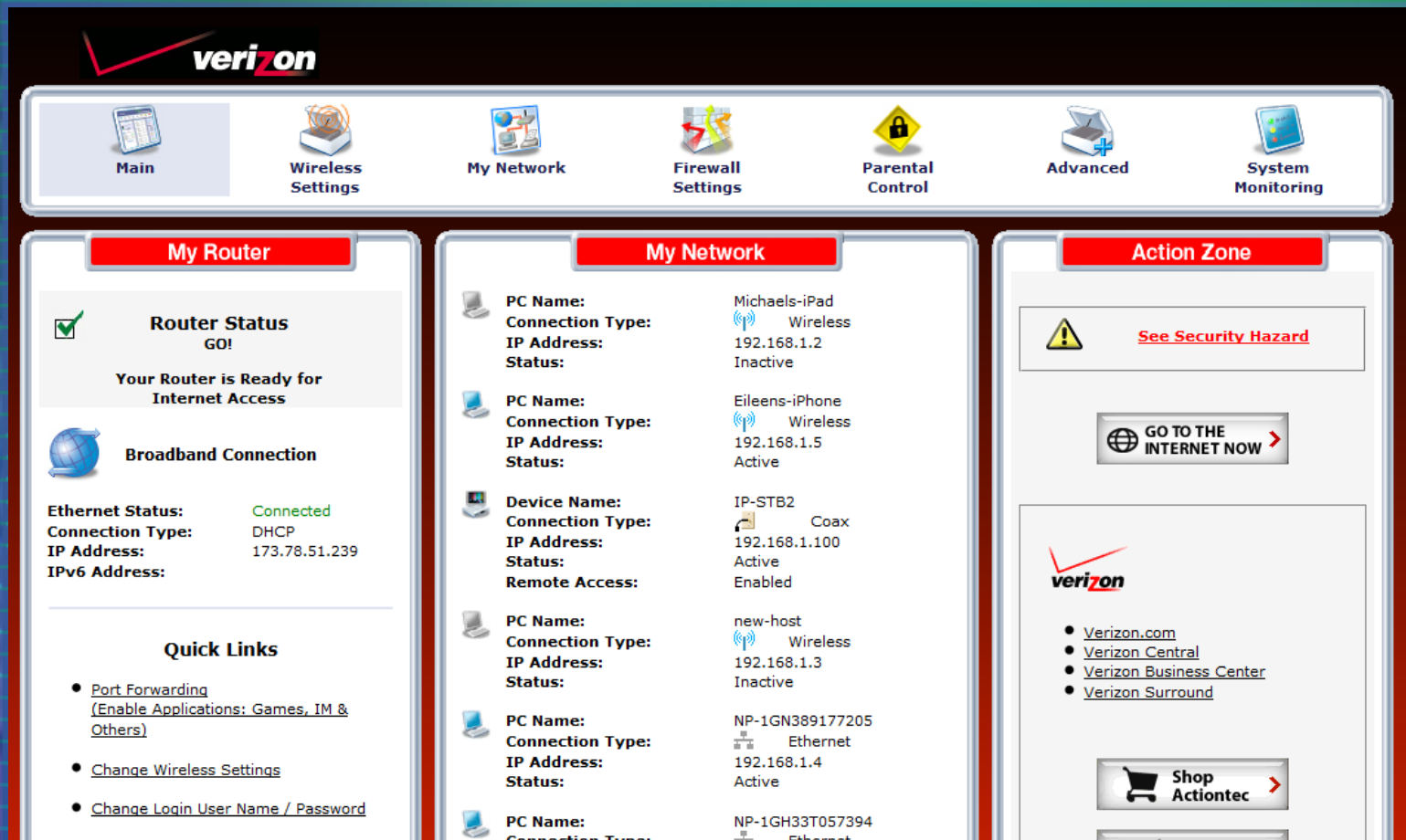

Login

User has logged out, please login again:

User Name:	<input type="text" value="admin"/>
Password:	<input type="password" value="....."/> <input type="checkbox"/> Show Password

Router Security


- Main Screen




verizon

Main Wireless Settings My Network Firewall Settings Parental Control Advanced System Monitoring

My Router

 **Router Status**
GO!
Your Router is Ready for Internet Access


 **Broadband Connection**


Ethernet Status: Connected
Connection Type: DHCP
IP Address: 173.78.51.239
IPv6 Address:


Quick Links


- [Port Forwarding](#)
(Enable Applications: Games, IM & Others)
- [Change Wireless Settings](#)
- [Change Login User Name / Password](#)


My Network


 **PC Name:** Michaels-iPad
Connection Type: Wireless
IP Address: 192.168.1.2
Status: Inactive

 **PC Name:** Eileens-iPhone
Connection Type: Wireless
IP Address: 192.168.1.5
Status: Active


 **Device Name:** IP-STB2
Connection Type: Coax
IP Address: 192.168.1.100
Status: Active
Remote Access: Enabled


 **PC Name:** new-host
Connection Type: Wireless
IP Address: 192.168.1.3
Status: Inactive

 **PC Name:** NP-1GN389177205
Connection Type: Ethernet
IP Address: 192.168.1.4
Status: Active

 **PC Name:** NP-1GH33T057394
Connection Type: Ethernet


Action Zone

 [See Security Hazard](#)

 **GO TO THE INTERNET NOW** >


verizon

- [Verizon.com](#)
- [Verizon Central](#)
- [Verizon Business Center](#)
- [Verizon Surround](#)

 **Shop Actiontec** >

Router Security

- Change Router Login



Main Wireless Settings My Network Firewall Settings Parental Control Advanced System Monitoring


Main
User Settings
Logout

User Settings

General

Full Name:	Administrator
User Name (case sensitive):	admin
New Password:	••••••••
Retype New Password:	••••••
Permissions:	Administrator ▼

E-Mail Notification

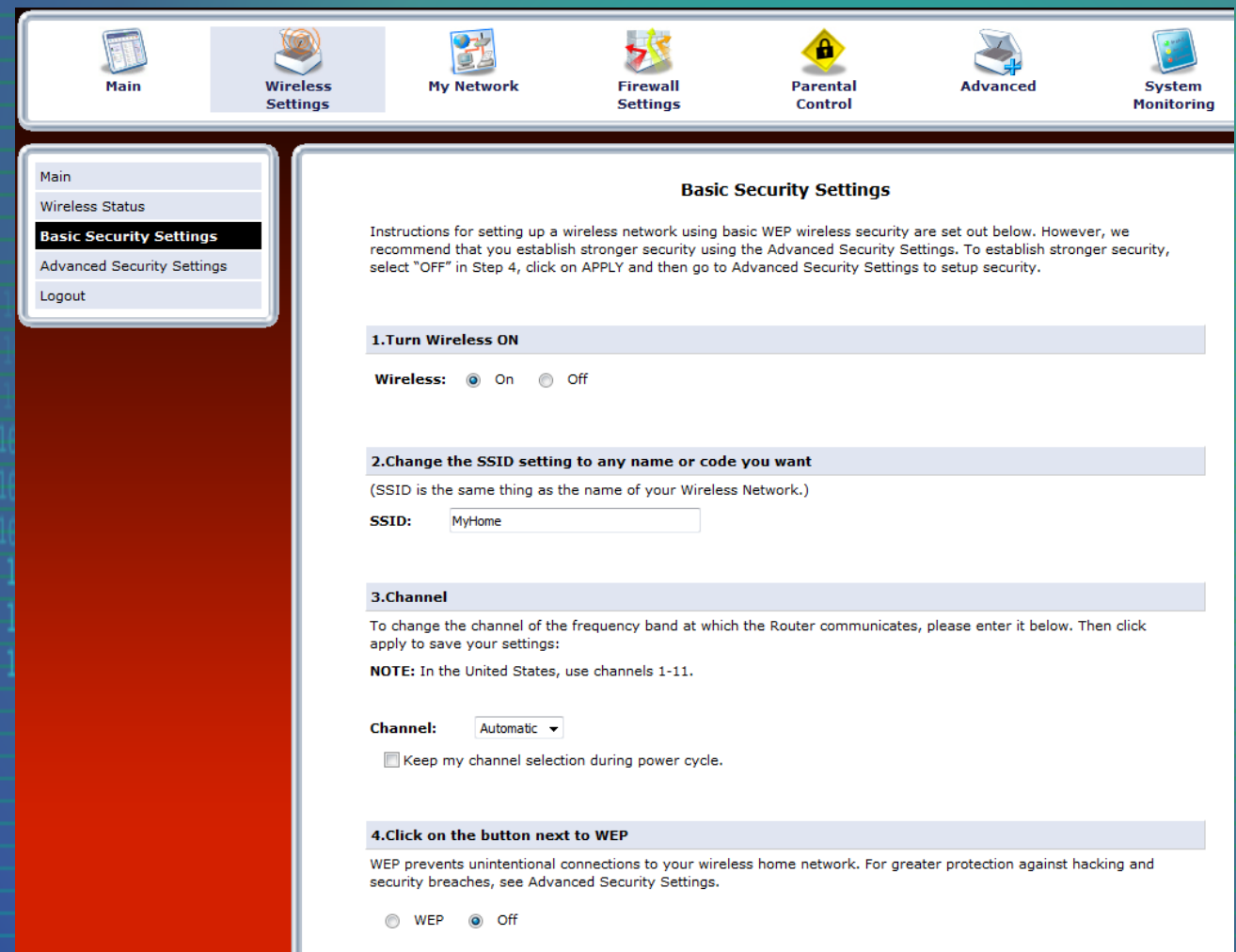
 [Click here to configure notification Mail Server](#)

Notification Address:	
System Notify Level:	None ▼
Security Notify Level:	None ▼

Apply Cancel

Router Security

- Change Wireless Login



The image shows a router's web-based configuration interface. At the top, there is a navigation bar with icons and labels for: Main, Wireless Settings (selected), My Network, Firewall Settings, Parental Control, Advanced, and System Monitoring. On the left side, there is a sidebar menu with links for: Main, Wireless Status, Basic Security Settings (highlighted), Advanced Security Settings, and Logout. The main content area is titled "Basic Security Settings" and contains instructions for setting up a wireless network using basic WEP security. It includes four numbered steps: 1. Turn Wireless ON, 2. Change the SSID setting to any name or code you want, 3. Channel, and 4. Click on the button next to WEP. Each step has associated radio buttons or checkboxes for configuration.

Main
Wireless Status
Basic Security Settings
Advanced Security Settings
Logout

Basic Security Settings

Instructions for setting up a wireless network using basic WEP wireless security are set out below. However, we recommend that you establish stronger security using the Advanced Security Settings. To establish stronger security, select "OFF" in Step 4, click on APPLY and then go to Advanced Security Settings to setup security.

1. Turn Wireless ON

Wireless: ☒ On ☐ Off

2. Change the SSID setting to any name or code you want
(SSID is the same thing as the name of your Wireless Network.)

SSID:

3. Channel

To change the channel of the frequency band at which the Router communicates, please enter it below. Then click apply to save your settings:

NOTE: In the United States, use channels 1-11.

Channel:

☐ Keep my channel selection during power cycle.


4. Click on the button next to WEP

WEP prevents unintentional connections to your wireless home network. For greater protection against hacking and security breaches, see Advanced Security Settings.

☐ WEP ☒ Off

Router Security

• Change Security Settings - WPA2



[Main](#)
[Wireless Status](#)
[Basic Security Settings](#)
[Advanced Security Settings](#)
[Logout](#)

Advanced Security Settings

IMPORTANT: For a more secure wireless network use Advanced Security Settings.

Level 1: Securing your wireless traffic as it transmits through the air, – we recommend you use WPA2 security, unless you experience compatibility issues.

☐ WEP

☐ WPA (Allows you to enable a pre-shared key for a home network or more advanced security for an enterprise network)

☐ WPA2 (An enhanced revision of WPA providing stronger security settings)

Level 2: Stop your router from broadcasting your Wireless Network Name (SSID)

SSID Broadcast (Allows you to prevent users who do not know your SSID name to access your router wirelessly.)

Level 3: Limit access to certain wireless devices

Wireless MAC Authentication (Allows you to limit access to your wireless network by allowing only those devices with specific MAC addresses.)

802.11b/g/n Mode (Allows you to limit access to your wireless network based on the type of technology.)

Authentication Method: Pre-Shared Key ▾

☐ **Verizon Default Pre-Shared Key (Recommended):** F3RT GJXN J26T PN7W

☒ **Custom Pre-Shared Key (Use at your own risk):** WirelessPassword ▾ ASCII ▾
It is highly recommended to use at least 16 or more characters

Encryption Algorithm: AES ▾

☒ Group Key Update Interval 3600 Seconds

[Back](#) [Apply](#)



Anti-Malware Programs

- Anti-Virus
- Malware - removal



Anti-Virus

- Free – manual update
- Cost – auto update

Anti-Virus – paid

Name	McAfee AntiVirus Plus (2016)	Webroot SecureAnywhere AntiVirus (2016)	Bitdefender Antivirus Plus 2016	Symantec Norton AntiVirus Basic	Kaspersky Anti-Virus (2017)	Avast Pro Antivirus 2016	Emsisoft Anti-Malware 11.0	ESET NOD32 Antivirus 9	F-Secure Anti-Virus 2016	Trend Micro Antivirus+ Security 2016
										
Lowest Price	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT
Editor Rating	●●●●● EC	●●●●● EC	●●●●● EC	●●●●● EC	●●●●● EC	●●●●● EC	●●●●●	●●●●●	●●●●●	●●●●●
On-Demand Malware Scan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
On-Access Malware Scan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Website Rating	✓	✓	✓	✓	✓	✗	✗	✗	✓	✓
Malicious URL Blocking	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
Phishing Protection	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
Behavior-Based Detection	✗	✓	✗	✓	✓	✗	✓	✓	✓	✓
Bonus: Vulnerability Scan	✓	✗	✓	✗	✓	✓	✗	✗	✗	✗

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Anti-Virus - free

	AVAST Software	AVG Technologies	Panda Security	Bitdefender	ZoneAlarm	Lavasoft	Sophos	MSRP	Comodo	MSRP
Lowest Price	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT	SEE IT		SEE IT	
Editor Rating	●●●●● EC	●●●●● EC	●●●●● EC	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
Number of Labs Testing (More Is Better)	5	5	4	4	1	2	2	4	1	1
Aggregate Lab Rating (Higher Is Better)	8.3	8.6	7.2	9.2	N/A	7.4	9.3	8.7	N/A	N/A
PCMag Malware Blocking (Higher Is Better)	9.3	8.8	8.8	9.0	8.0	8.8	7.9	8.5	8.3	8.1
PCMag Malicious URL Blocking (Higher Is Better)	69%	73%	73%	N/A	41%	68%	90%	99%	27%	76%
On-Demand Malware Scan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
On-Access Malware Scan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Website Rating	✗	✓	✗	✗	✗	✗	✗	✓	✗	✗
Malicious URL Blocking	✓	✓	✓	✓	✗	✓	✓	✓	✓	✗
Phishing Protection	✓	✓	✓	✓	✗	✗	✓	✓	✓	✓
Behavior-Based Detection	✗	✓	✗	✗	✓	✗	✓	✗	✓	✓
Bonus: Vulnerability Scan	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗

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Malware Removal

- **Malwarebytes**
 - Get from
www.malwarebytes.com
- **RogueKiller**
 - Get from
<http://www.majorgeeks.com>



Browser Security

- Remove Add-ons
- Remove Toolbars



Remove Add-ons

- Internet Explorer
 - Tools->Manage Add-ons
 - Toolbars and Extensions, Search Providers & Accelerators
- Firefox
 - Tools-> Add-ons
 - Extensions & Plugins



Remove Toolbars

- Internet Explorer & Firefox
 - View->Toolbars
 - Uncheck all Unused Toolbars



Toolbars

- Revo Uninstaller
 - Remove all “Toolbars” you did not install
 - Ask
 - Conduit
 - Google
 - Babylon
 - ...



Searching Internet

- Use URL if you know it
- Look for “Official Site”
- Review results carefully



Safe Download Sites

- <http://www.majorgeeks.com>
- <http://filehippo.com>
- [Download.com](http://download.com) (<http://download.cnet.com>)