Customize Your Wireless Network

Alaska State Library Tech Talk

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Find related resources at http://lam.alaska.gov/wireless
Learning Objectives

• At the end of this talk, you’ll be able to:
  • Locate and identify your wireless router
  • Know how to locate manual and/or manufacturer support site.
  • Know how to access your router's dashboard/control interface
  • Know how to reset a router to factory settings
  • Be able to change basic settings
  • Know how to use your router for network storage - depending on model
  • Know two ways to connect a printer to your wireless network
  • Know what Quality of Service (QoS) is and whether you have control
Finding and Identifying

Things to look for
- Items near your wall
- Might have antennas
- Might have model number
- Will have a jack for “internet” and may have Ethernet ports.
If Your Manual Has Walked

• Try your manufacturer’s web site, choose “support” from their menu, then your model number.
• Search your make and model number (i.e. NETGEAR N600, Amped RTA1750, etc) in your favorite search engine
  • Pay attention to the URLs in your search results
Browsing to a Manual: NETGEAR

Verizon Jetpack® AC791L
Mobile WiFi with premium power, performance, and up to 24 hours of battery life

LEARN MORE
Introducing Arlo Q™
1080p HD Security Camera with
LEARN MORE →
Welcome to the new NETGEAR Download Center!

To find documentation, firmware, software, or other files, enter a whole or partial Model number in the text search box, or use our Product Drilldown to locate your device.

Enter a Product Name/Model Number

WNDR3400V2

Search for:  All  Documentation  Firmware/Software

Country:  United States  

Or browse and select your product:  PRODUCT DRILLDOWN
Getting to Your Router Dashboard

- Best – You already know your login info, changed from default
- Good - Check your manual for the default admin settings.
- If you have to guess:
  - ID: admin
  - PW: password, admin (Not making this up)
- If none of these work and you’re desperate, reset to factory settings
Resetting Your Router to Factory Settings

• Use as last resort – Loss of all customizations
• How reset works varies – examples
  • Amped – Hold down reset button on back panel for 30 seconds
  • LinkSys – Press and hold reset button until power indicator flashes
  • NETGEAR – Use a paper clip to press and hold the “Restore Factory Settings” button on the back of the router for at least five seconds.
  • TP-Link – Push the WPS button for more than five seconds or until all the LEDs flash together at once.
Basic Settings: NETGEAR

NETGEAR genie™

BASIC
- Home
- Internet
- Wireless
- Attached Devices
- Parental Controls
- ReadySHARE
- Guest Network

ADVANCED

- Internet
  - Status: GOOD
- Wireless
  - Name (SSID): NETGEAR
  - Key/Password: precious
  - Number of Devices: 1
- Attached Devices
- Parental Controls
  - Status: NOT ENABLED
- ReadySHARE
  - Status: No USB drive
- Guest Network
  - Name (SSID): NETGEAR-Guest
  - Key/Password: None
### Basic Settings, NETGEAR - cont

**SSID** – What you call your network. Suggest library name for credit.

**Security** – None means ease of access but runs risk of hackers access data.

Suggest WPA2+PSK to create network password.

<table>
<thead>
<tr>
<th>Region Selection</th>
<th>Wireless Network (2.4GHz b/g/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Region: North America</td>
<td>Name (SSID): RFLab</td>
</tr>
<tr>
<td>Channel: 10</td>
<td>Mode: Up to 450 Mbps</td>
</tr>
<tr>
<td>Security Options: None, WPA-PSK (TKIP), WPA2-PSK (AES), WPA-PSK (TKIP) + WPA2-PSK (AES)</td>
<td></td>
</tr>
</tbody>
</table>
To get here in NETGEAR, click on the “Advanced” tab, then click on “Security” -> Schedule.

Note that this are times to start and end blocking internet access. So if you wanted wireless to be only be available while the library was open and you were open 1-6pm every day, you’d block from 6:01pm – 12:59pm.

Other brand routers can offer more control.
USB Storage

- Allows you to hook a flash drive or external hard drive to your wireless network.
- Feature of most modern routers. If yours has a USB port, probably supports this feature.
- Can specify drive as read only or read/write. Can also password protect it.
USB Storage – Why Bother?

- Save bandwidth by local storage of important government forms.
- Serve materials you may not post to the open internet
USB Storage: NETGEAR

Create Network Folder

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>USB Device</td>
<td>U:(U Drive (1.96 GB))</td>
</tr>
<tr>
<td>Folder</td>
<td></td>
</tr>
<tr>
<td>Share Name</td>
<td></td>
</tr>
<tr>
<td>Read Access</td>
<td>All - no password</td>
</tr>
<tr>
<td>Write Access</td>
<td>All - no password</td>
</tr>
</tbody>
</table>

[Apply] [Close Window]
Printing on a Wireless Network

• Two ways to connect a printer to a wireless network
  • Use a wireless printer (easiest!)
  • Connect USB printer to your router (If supported)
    • May require router specific software
• Adding the printer
  • Laptops/desktops, use the add printer wizard in Windows
  • Mobile devices – consult your printer’s support site, will likely require patron to download app.
Quality of Service (QoS)

- QoS = optimizing some services over others
  - Could optimize video for webinars and YouTube
  - Could optimize non-video functions to discourage video usage
  - Provided to you at ISP level for your OWL video connection
  - Can also implement for a specific workstation
- How QoS is implemented varies by manufacturer
- QoS optimizes what you have – doesn’t give you more bandwidth
Quality of Service (QoS): NETGEAR

To get to QoS features on NETGEAR routers, click on the “Advanced” tab, then “Setup” then “QoS Setup”
Quality of Service (QoS): NETGEAR
Q&A
Contact Information

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