

Configuration of Netgear RangeMax Next Wireless-N Router Gigabit Edition WNR854T

General Description

The Netgear RangeMax Next Wireless-N Router Gigabit Edition WNR854T is an inexpensive wireless router.

The instructions below are based on using the Netgear RangeMax Next Wireless-N Router Gigabit Edition WNR854T in its factory default configuration as if buying it new from the store.

Installing the router

Follow the steps provided by Netgear to install the router and access the web interface used to configure the router. If you do not have the instructions, you can find them on the Netgear site. The following link leads to a Installation Guide PDF.

Link: ftp://downloads.netgear.com/files/wnr854t_install_24mar06.pdf

Note: Its important that you follow the install instructions regarding the order devices are turned on.

Configuring the router

Following screenshots show the settings that should work with Virtual PBX VoIP phones. Content filtering and Maintenance sections are not shown as the default factory settings work correctly.

Basic Settings

NETGEAR
SMART
KineticMax™ NEXT Wireless Router model WNR854T

DRAFT N MIMO 300 Mbps EXTENDED COVERAGE 2.4 GHz Draft N300 11n

**Default settings are correct.
Note: Your ISP may require changes.**

- Setup Wizard
- Setup
 - Basic Settings
 - Wireless Settings
- Content Filtering
 - Logs
 - Block Sites
 - Block Services
 - Schedule
 - E-mail
- Maintenance
 - Router Status
 - Attached Devices
 - Backup Settings
 - Set Password
 - Router Upgrade
- Advanced
 - Wireless Settings
 - Port Forwarding / Port Triggering
 - WAN Setup
 - LAN IP Setup
 - Dynamic DNS
 - Static Routes
 - Remote Management
 - UPnP
- Web Support
 - Knowledge Base
 - Documentation
- Logout

Basic Settings

Does Your Internet Connection Require A Login?
 Yes
 No

Account Name (If Required)

Domain Name (If Required)

Internet IP Address
 Get Dynamically From ISP
 Use Static IP Address

IP Address: 98 . 210 . 218 . 61
IP Subnet Mask: 255 . 255 . 252 . 0
Gateway IP Address: 98 . 210 . 216 . 1

Domain Name Server (DNS) Address
 Get Automatically From ISP
 Use These DNS Servers

Primary DNS: 68 . 87 . 76 . 182
Secondary DNS: 68 . 87 . 78 . 134

Router MAC Address
 Use Default Address
 Use Computer MAC Address
 Use This MAC Address

Apply Cancel Test

Wireless Settings

NETGEAR
SMART
RangeMax™ NEXT Wireless Router model WN854T

**You can customize these settings.
They do not affect VoIP.**

DRAFT
N
MIMO
300 Mbps
EXTENDED
COVERAGE
2.4 GHz
Draft 802.11n

- Setup Wizard
- Setup
 - Basic Settings
 - Wireless Settings
- Content Filtering
 - Logs
 - Block Sites
 - Block Services
 - Schedule
 - E-mail
- Maintenance
 - Router Status
 - Attached Devices
 - Backup Settings
 - Set Password
 - Router Upgrade
- Advanced
 - Wireless Settings
 - Port Forwarding / Port Triggering
 - WAN Setup
 - LAN IP Setup
 - Dynamic DNS
 - Static Routes
 - Remote Management
 - UPnP
- Web Support
 - Knowledge Base
 - Documentation
- Logout

Wireless Settings

Wireless Network

Name (SSID):

Region:

Channel:

Mode:

Security Options

None

WEP

WPA-PSK [TKIP]

WPA2-PSK [AES]

WPA-PSK [TKIP] + WPA2-PSK [AES]

Security Encryption(WPA2-PSK)

Passphrase: 8-63 characters

Advanced Wireless Settings

NETGEAR
SMART
RangeMax™ NEXT Wireless Router model WNR854T

DRAFT
N
MIMO
300 Mbps
EXTENDED
COVERAGE
2.4 GHz
draft 802.11n

**You can customize these settings.
They do not affect VoIP.**

Advanced Wireless Settings

Wireless Router Settings

- Enable Wireless Router Radio
- Enable SSID Broadcast
- Fragmentation Threshold (256 - 2346):
- CTS/RTS Threshold (256 - 2346):
- Preamble Mode:

Wireless Optimization Settings

- 11n Max Speed
- 11 b/g/n Mixed mode

Wireless Card Access List

Port Forwarding/Triggering Settings

The screenshot shows the Netgear Smart Wizard router manager interface. At the top, it says "NETGEAR SMARTWIZARD router manager" and "RangeMax™ NEXT Wireless Router model WNR854T". A red banner across the top reads "Default settings are correct." The left sidebar contains a navigation menu with categories: Setup Wizard, Setup (Basic Settings, Wireless Settings), Content Filtering (Logs, Block Sites, Block Services, Schedule, E-mail), Maintenance (Router Status, Attached Devices, Backup Settings, Set Password, Router Upgrade), Advanced (Wireless Settings, Port Forwarding / Port Triggering, WAN Setup, LAN IP Setup, Dynamic DNS, Static Routes, Remote Management, UPnP), and Web Support (Knowledge Base, Documentation). A "Logout" button is at the bottom of the sidebar. The main content area is titled "Port Forwarding / Port Triggering" and asks the user to "Please select the service type" with radio buttons for "Port Forwarding" (selected) and "Port Triggering". Below this, there are input fields for "Service Name" (set to "AIM") and "Server IP Address" (set to "10.0.0.0"), with an "Add" button. A table below shows a single entry with columns for "#", "Service Name", "Start Port", "End Port", and "Server IP Address". At the bottom of the table area are buttons for "Edit Service", "Delete Service", and "Add Custom Service".

NETGEAR SMARTWIZARD router manager
RangeMax™ NEXT Wireless Router model WNR854T

Default settings are correct.

Port Forwarding / Port Triggering

Please select the service type

Port Forwarding
 Port Triggering

Service Name: AIM Server IP Address: 10 . 0 . 0 . [] Add

#	Service Name	Start Port	End Port	Server IP Address
---	--------------	------------	----------	-------------------

Edit Service Delete Service

Add Custom Service

125% 301 words Page 1 of 1

WAN Setup Settings

NETGEAR
SMART
RangeMax™ NEX, Wireless Router Model WN854T

DRAFT
N
EXT
COVERAGE
2.4 GHz
draft822.11a

**The following settings are required for VoIP.
Disabling the SPI Firewall is important.**

WAN Setup

- Connect Automatically, as Required
- Disable SPI Firewall
- Default DMZ Server: 10 . 0 . 0 . 0
- Respond to Ping on Internet Port
- MTU Size (in bytes): 1500

Apply Cancel

Setup Wizard

Setup

- Basic Settings
- Wireless Settings

Content Filtering

- Logs
- Block Sites
- Block Services
- Schedule
- E-mail

Maintenance

- Router Status
- Attached Devices
- Backup Settings
- Set Password
- Router Upgrade

Advanced


- Wireless Settings
- Port Forwarding / Port Triggering
- WAN Setup
- LAN IP Setup
- Dynamic DNS
- Static Routes
- Remote Management
- UPnP

Web Support

- Knowledge Base
- Documentation

Logout

LAN IP Setup Settings



router manager
RangeMax™ NEXT Wireless Router model WNR854T

DRAFT
MIMO
300 Mbps
EXTENDED
COVERAGE
2.4 GHz
draft 802.11n

Default settings are correct.

- Setup Wizard
- Setup
 - Basic Settings
 - Wireless Settings
- Content Filtering
- Logs
- Block Sites
- Block Services
- Schedule
- E-mail
- Maintenance
 - Router Status
 - Attached Devices
 - Backup Settings
 - Set Password
 - Router Upgrade
- Advanced
 - Wireless Settings
 - Port Forwarding / Port Triggering
 - WAN Setup
 - LAN IP Setup
 - Dynamic DNS
 - Static Routes
 - Remote Management
 - UPnP
- Web Support
 - Knowledge Base
 - Documentation
- Logout

LAN IP Setup

LAN TCP/IP Setup

IP Address: . . .

IP Subnet Mask: . . .

RIP Direction: None

RIP Version: Disabled

Use Router as DHCP Server


Starting IP Address: . . .

Ending IP Address: . . .

Address Reservation

#	IP Address	Device Name	MAC Address
Add Edit Delete			
Apply Cancel			

Dynamic DNS Settings



router manager
RangeMax™ NEXT Wireless Router model WNR854T

DRAFT
MIMO
300 Mbps
EXTENDED
COVERAGE
2.4 GHz
draft 802.11n

Default settings are correct.

- Setup Wizard
- Setup
 - Basic Settings
 - Wireless Settings
- Content Filtering
- Logs
- Block Sites
- Block Services
- Schedule
- E-mail
- Maintenance
 - Router Status
 - Attached Devices
 - Backup Settings
 - Set Password
 - Router Upgrade
- Advanced
 - Wireless Settings
 - Port Forwarding / Port Triggering
 - WAN Setup
 - LAN IP Setup
 - Dynamic DNS
 - Static Routes
 - Remote Management
 - UPnP
- Web Support
 - Knowledge Base
 - Documentation
- Logout

LAN IP Setup

LAN TCP/IP Setup

IP Address: . . .

IP Subnet Mask: . . .

RIP Direction: None

RIP Version: Disabled

Use Router as DHCP Server

Starting IP Address: . . .

Ending IP Address: . . .

Address Reservation

#	IP Address	Device Name	MAC Address
Add Edit Delete			
Apply Cancel			

Static Routes Settings

NETGEAR
SMARTWIZARD

router manager
RangeMax™ NEXT Wireless Router model WNR854T

DRAFT
N
MIMO
300 Mbps
EXTENDED
COVERAGE
2.4 GHz
draft 902.11a

Default settings are correct.


Static Routes

#	Active	Name	Destination	Gateway
---	--------	------	-------------	---------


[Add](#) [Edit](#) [Delete](#)

- Setup Wizard
- Setup
 - Basic Settings
 - Wireless Settings
- Content Filtering
 - Logs
 - Block Sites
 - Block Services
 - Schedule
 - E-mail
- Maintenance
 - Router Status
 - Attached Devices
 - Backup Settings
 - Set Password
 - Router Upgrade
- Advanced
 - Wireless Settings
 - Port Forwarding / Port Triggering
 - WAN Setup
 - LAN IP Setup
 - Dynamic DNS
 - Static Routes
 - Remote Management
 - UPnP
- Web Support
 - Knowledge Base
 - Documentation
- Logout

Remote Management Settings



router manager
RangeMax™ NEXT Wireless Router model WNR854T



Default settings are correct.

Remote Management

Turn Remote Management On

Remote Management Address:
98.210.218.61:8080

Allow Remote Access By:

Only This Computer: . . .

IP Address Range :
From . . .
To . . .

Everyone

Port Number:

- Setup Wizard
- Setup
 - Basic Settings
 - Wireless Settings
- Content Filtering
 - Logs
 - Block Sites
 - Block Services
 - Schedule
 - E-mail
- Maintenance
 - Router Status
 - Attached Devices
 - Backup Settings
 - Set Password
 - Router Upgrade
- Advanced
 - Wireless Settings
 - Port Forwarding / Port Triggering
 - WAN Setup
 - LAN IP Setup
 - Dynamic DNS
 - Static Routes
 - Remote Management
 - UPnP
- Web Support
 - Knowledge Base
 - Documentation
- Logout

UPnP Settings

NETGEAR
SMARTWIZARD router manager
RangeMax™ NEXT Wireless Router model WNR854T

Default settings are correct.

DRAFT
N
MIMO
300 Mbps
EXTENDED
COVERAGE
2.4 GHz
4x4 MIMO

- Setup Wizard
- Setup
 - Basic Settings
 - Wireless Settings
- Content Filtering
 - Logs
 - Block Sites
 - Block Services
 - Schedule
 - E-mail
- Maintenance
 - Router Status
 - Attached Devices
 - Backup Settings
 - Set Password
 - Router Upgrade
- Advanced
 - Wireless Settings
 - Port Forwarding / Port Triggering
 - WAN Setup
 - LAN IP Setup
 - Dynamic DNS
 - Static Routes
 - Remote Management
 - UPnP
- Web Support
 - Knowledge Base
 - Documentation
- Logout

UPnP

Turn UPnP On

Advertisement Period (in minutes)

Advertisement Time To Live (in hops)

UPnP Portmap Table

Active	Protocol	Int. Port	Ext. Port	IP Address
--------	----------	-----------	-----------	------------

You Are Now Ready to Go!

You can plug in your phone(s) and test them by completing one of the following:

- Dial any of your extension numbers in the system
- Dial any valid phone number in the U.S. or Canada using the following format:
 - o **1 + area code + 7-digit number**
 - o **7-digit Number** (have your system administrator make sure your default area code is set correctly in order to make 7-digit dialing calls)

