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Repeating Using a WNR2000 and a WN802Tv1

Sometimes the wireless range of a router is not strong enough to reach all rooms in a house.

Scenario 1 WNR2000 Broadcasting Wirelessly

In the below diagram the wireless range of the WNR2000 does not reach all rooms of the house.



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Scenario 2 WNR2000 & WN802Tv1 Broadcasting Wirelessly

In the below diagram the wireless range of the WNR2000 is extended by adding a WN802T to the network. Now the entire house is covered by the wireless signal of the WNR2000 by using the WN802Tv1 to repeat the signal of the WNR2000.



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WNR2000 Configuration

Step 1 - Router Status



• Wireless-N Router model WNR2000

Select Router Status.

Please ensure that you are using firmware version 1.2.3.7 or later.

Please note the LAN IP Address of the WNR2000 for the WN802T configuration. (See Step 5).

Disregard NA at the end of the firmware version if you are outside of America.

Hardware Version	JAN ID 2000
Fianti Given a version	1/1 2 2 7514
Cill Language Version	V1.2.3.714R
	V1.1.5.9
Internet Port	
MAC Address	00:1E:2A:E0:04:2D
IP Address	0.0.0.0
DHCP	DHCPClient
IP Subnet Mask	0.0.0.0
Domain Name Server	0.0.0.0
LAN Port	
MAC Address	
IP Address	192.168.1.1
DHCP ID Suburt Maria	Un
IP Subnet Mask	255.255.255.0
Wireless Port	
Name (SSID)	NETGEAR
Region	United States
Channel	Auto(3)
Mode	Up to 145 Mbps
Wireless AP	On
Broadcast Name	On
Wi-Fi Protected Setup	Configured

This firmware can be found at the following link - http://kb.netgear.com/app/answers/detail/a id/11895



All the wireless setting configured on the router must match the WN802Tv1 access point exactly.

Wireless SSID – NETGEAR25

Operating Mode - 11b/gNext

Channel Frequency - 1

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WNR2000 Configuration

Step 3 – Wireless Repeating

NETGE/	VIZARD Wireless-N Router model WNR2000		Select Wireless repeating Function.
Setup Wizard Add WPS Client	Wireless Repeating Function		Check the Enable
Set Up Basic Settings Wireless Settings	Enable Wireless Repeating Function Wireless MAC of this router 00:1E:2A:E0:04:2C Wireless Repeater		Wireless Repeating Function.
Content Filtering Logs Block Sites Block Services	Repeater IP Address 192 . 16 Disable Wireless Client Association Base Station MAC Address	8	Select Wireless Base Station.
 Schedule E-mail Maintenance Router Status Attached Devices Backup Settings 	Wireless Base Station Disable Wireless Client Association Repeater MAC Address 1 Repeater MAC Address 2 Repeater MAC Address 3	00:18:4d:23:c6:fb	Repeater MAC address – Enter the MAC address of the WN802Tv1
Set Password Router Upgrade Advanced Wireless Settings Wireless Repeating Function	Repeater MAC Address 4		(can be found on the back panel of the WN802Tv1).

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WN802Tv1 Configuration

Step 4 – General Settings



RangeMax[™] NEXT Wireless-N Access Point WN802



Select General.

Please ensure that you are firmware n 1.3.18 er.

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General	General	
Setup		
Basic Settings	Access Point Information	
wireless Settings	Access Point Name	netgear23C6FB
So curity	MAC Address	00:18:4D:23:C6:FB
	Country / Region	United States
WEP/WPA Settings	Firmware Version	1.3.18NA
Radius Server Settings	Access Point Mode	ON
Access Control	Current IP Settings	
	IP Address	192.168.1.233
lanagement	Subnet Mask	255.255.255.0
Change Password	Default Gateway	192.168.1.1
Upgrade Firmware	LAN MAC Address	00:18:4D:23:C6:FB
Backup/Restore Settings	DHCP Client	Disable
Reboot AP	Current Wireless Settings	
	Operating Mode	11b/g/Next (20/40 MHz)
nformation	Wireless Network Name (SSID)	NETGEAR
Available Wireless	Channel / Frequency	1/2.412GHz
Station List	WEP / WPA	Disable
Statistics	1	

This firmware can be found at the following link - http://kb.netgear.com/app/answers/detail/a id/2722

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WN802Tv1 Configuration

Step 5 - Router Status

NETGEAR' Settings RangeMax [™] NEXT Wireless-N Access Point WN802T				
General	Basic Settings		-	
Setup				
Basic Settings Wireless Settings	Access Point Name	netgear23C6FB		
Security	IP Address			
WEP/WPA Settings	DHCP Client	🔘 Enable 🛛 💿 Disable		
Radius Server Settings	IP Address	192 . 168 . 1 . 233		
Access Control	IP Subnet Mask	255 . 255 . 255 . 0		
Management	Default Gateway	192 . 168 . 1 . 1		
Change Password	Primary DNS Server	192 . 168 . 1 . 1		
Upgrade Firmware	Secondary DNS Server	4 . 2 . 2 . 2		
Backup/Restore Settings	Time Zone			
Reboot AP				
nformation Available Wireless	Current Time	Friday, 28 Aug 2009 13:02:40	_	
Station List Statistics		Apply Cancel		

IP Address

DHCP Client - Disable

IP address - 192.168.1.233

IP Subnet Mask - 255.255.255.0

Default Gateway - 192.168.1.1 (LAN IP Address of the WNR2000 - please see Step 1)

Primary DNS Server - 192.168.1.1 (LAN IP Address of the WNR2000)

Secondary DNS Server - 4.2.2.2

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WN802Tv1 Configuration

Step 6 – Wireless Settings

NETG	EAR' settings	N	Select Wireless Settings.
RangeMax [™] NE General	Wireless Settings	27 2.000 avr #2011	Please ensure that the details match the settings entered on the
 Basic Settings Wireless Settings 	Country / Region	United States	— WNR2000.
Security WEP/WPA Settings Radius Server Settings Access Control Management Change Password Upgrade Firmware Backup/Restore Settings Reboot AP	Wireless LAN Wireless Network Name (SSID) Broadcast Wireless Network Name (SSID) Operating Mode Channel / Frequency	Turn Radio On NETGEAR25 Enable SSID Broadcast 11b/g/Next (20/40 MHz) 01 / 2.412GHz	

The Wireless Settings of the WN802Tv1 must match the WNR 2000 exactly (Please see step 2 above.)

Wireless SSID – NETGEAR25

Operating Mode - 11b/gNext

Channel Frequency - 1

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WN802Tv1 Configuration

Step 7 – Wireless Repeating/Bridging

NETG	EAR' sett	ings N		Select Wireless Bridging.
RangeMax™ NE	EXT Wireless-N Access	Point WN802T		Select Repeater with
General	Advanced Wireless Brid	ging Settings		Wireless Client
Setup	-			Association.
 Basic Settings Wireless Settings 	Access Point Mode			Enter the MAC
Security	🔘 Wireless Multi-Point Bridg	jing		address of the
WEP/WPA Settings	Enable Wireless Client	Association		WNR2000 and
 Radius Server Settings 	Remote MAC Address	click the Add		
Access Control	Repeater with Wireless C	lient Association		button.
Management	Remote MAC Address	s 00 - 1e - 2a - e0 - 04 - 2d	Add	
Change Password				The MAC
Upgrade Firmware	Remote Access Point	MAC address		address should
Backup/Restore	1	00:1e:2a:e0:04:2c	Delete	then appear in
Settings	2		Delete	the list below.
Reboot AP	3		Delete	
Information	4		Delete	
Available Wireless Station List	5		Delete	
Statistics	6		Delete	
Advanced				
 Wireless Settings 		Apply Cancel		
Wireless Bridging				



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Test the Bridge

WN2000

Step 8 – WNR2000 Attached Devices

SMART	A R WIZ	ARD vouter man Wireless-N Ro	ager outer model WNR2000		Lo th ar A'
 Setup Wizard Add WPS Client 	Attached Devices			T	
Set Up	#	IP Address	MAC Address	Device Name	a
Basic Settings	1	192.168.1.250	00:15:58:D1:1C:FA	NETGEAR-EE81059	VV
Wireless Settings	2	192.168.1.233	00:18:4D:23:C6:FA	<unknown></unknown>	SI
Content Filtering = Logs = Block Sites			Refresh		w ad

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