



Asus RT-AC51U Configuration Manual

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SNT Recommended Wireless Router Configuration Manual

Configuring the Asus RT-AC51U and Asus RT-AC1200G for use on the UTwente network

Disclaimer

The Asus RT-AC51U and Asus RT-AC1200G wireless routers have been tested by SNT to be working on the campus network without causing disturbances.

Important! SNT does not guarantee the routers will work, and only recommends them because they have been successfully tested by SNT. For warranty and service issues, you have to

contact the shop where you bought your router.

Having said that, you are free to contact the SNT Helpdesk with questions regarding either of these two wireless routers. The SNT Helpdesk has a testing unit of both and may be able to help you with your problem. Other (wireless) routers are not supported by the SNT Helpdesk. If the SNT Helpdesk cannot help you with your question, you will be forwarded to customer service of the manufacturer of your router.

Reasons to Buy Your Own Wireless Router

SNT always recommends using the already provided internet infrastructure (eduroam and the ethernet (internet) outlets in your room) above using your own networking solution. Only if this is not feasible should you buy your own networking equipment. If you decide to buy your own networking equipment, SNT strongly recommends buying either the Asus RT-AC51U or Asus RT-AC1200G wireless router.

In general, there are only three good reasons to buy your own networking equipment instead of using the infrastructure. If you only need more wired ethernet (internet) outlets, you should buy a network switch, and not a (wireless) router. If you have bad wireless coverage in your room, or if any of your internet-enabled devices do not support the authentication method of eduroam, buying your own wireless router could be a solution.

Prerequisites & Scope of this Manual

This guide will help you correctly configure the Asus RT-AC51U and Asus RT-AC1200G for use on the University of Twente network. Please check the box of your wireless router to make sure you have either one of these models. The configuration steps are the same for both models. Configuring a wireless router for use on the campus network can be tricky. Please follow the steps 1 through 4 completely in order to get your new router working optimally.

This guide assumes that you are on the University of Twente campus, or in one of the

buildings in the city of Enschede that is part of the University of Twente network (The ITC Building, ITC International Hotel or Stadsweide) and have access to an ethernet (internet) outlet in your room. This guide also assumes you know how to use an internet browser on your computer, what a power adapter and an ethernet (internet) cable is, and how to connect to a wireless network on your computer. This guide will not cover connecting other devices (like your laptop, desktop computer or smartphone) to your newly configured network. You can consult your device's manual or the internet for help connecting these devices to your newly configured network.

Unboxing your Wireless Router

In the box you will find your wireless router, a power adapter and an ethernet (network) cable. You will need these three items in order to successfully configure your own network. If any of these are missing, please contact the shop where you bought your wireless router.

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Related Manuals for Asus RT-AC51U

[Network Router Asus RT-AC66U User Manual](#)

Dual band 3x3 802.11ac gigabit router (131 pages)

[Wireless Router Asus RT-AC51U Quick Start Manual](#)

Dual band 802.11ac fast ethernet router (6 pages)

[ASUS RT-AC51U - Dual-band Wireless-AC750 Router Quick Start Guide](#)

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[Ethernet router Asus RT-AC1200G User Manual](#)

Wireless-ac1200 dual band usb router (104 pages)

[Wireless Router Asus RT-AC1200G Quick Start Manual](#)

2x2 wireless-ac 1200 gigabit router (64 pages)

[Network Router Asus RT-AC51 Quick Start Manual](#)

802.11ac dual band router (2 pages)

[Network Router ASUS RT-AC52U User Manual](#)

802.11ac dual band router (130 pages)

[Network Router Asus RT-AC52U Setup](#)

Hack the world (16 pages)

[Network Router Asus RT-AC56U User Manual](#)

Dual band wireless-ac1200 gigabit router (30 pages)

[Network Router Asus RT-AC56U User Manual](#)

Dual band 2x2 802.11ac (30 pages)

[Network Router Asus RT-AC5300 Quick Start Manual](#)

(76 pages)

[Network Router Asus RT-AC58U Quick Start Manual](#)

Dual band gigabit wifi router (80 pages)

[Network Router Asus RT-AC58U User Manual](#)

Dual band gigabit wifi router (99 pages)

[Network Router Asus RT-AC53 Quick Start Manual](#)

Wireless-ac750 dual-band gigabit router (88 pages)

[Network Router Asus RT-AC57U Quick Start Manual](#)

Wireless-ac1200 dual-band gigabit router (68 pages)

[Network Router Asus RT-AC58U V3 Quick Start Manual](#)

Wireless-ac1300 dual band gigabit router (80 pages)

Summary of Contents for Asus RT-AC51U

[Page 1](#) Configuring the Asus RT-AC51U and Asus RT-AC1200G for use on the UTwente network Disclaimer The Asus RT-AC51U and Asus RT-AC1200G wireless routers have been tested by SNT to be working on the campus network without causing disturbances. Important! SNT does not guarantee the routers will work, and only recommends them because they have been successfully tested by SNT.

[Page 2](#) Important! Your wireless router has five ports that you can plug an ethernet cable into. Only connect your ethernet outlet to the blue (RT-AC1200G) or black (RT-AC51U) ethernet ports on your wireless router. Connecting any of the yellow ports to the ethernet outlet causes disturbances on the network and will lead to SNT disconnecting your wireless router from the

network.

[Page 3](#) (not included), or connect your computer wirelessly to the wireless router using the unsecured "ASUS" wireless network the wireless router will automatically create. Important! You won't have a working internet connection just yet. Only after you successfully completed step 1 through 3 of this manual will you be able to use the internet.

[Page 4](#) If you are connected wirelessly to the wireless router, you will have to connect again. You will notice the unsecured "ASUS" network you used in Step 2 is now gone, and has been replaced with the secured networks you just configured. Use the network name and password you just set to reconnect your router.

[Page 5](#) Step 4 Further Tweaking the Wireless Network Point your browser to the website <http://192.168.1.1> again to continue. Click on Wireless in the left menu and the following page will appear. Here we will change the Channel bandwidth setting to 20 MHz. Then, set the Band to 5GHz and again change the Channel bandwidth to 20 MHz.

[Page 6](#) Step 5 (Optional) Disabling 2.4GHz Earlier in this manual you encountered a 2.4GHz and 5GHz network, and it was mentioned they would be explained later on in the manual. This is that place. In Step 4 you set the Control Channel, i.e. the specific frequency your wireless router will use to broadcast your network.

[Page 7](#) Step 6 (Optional) Enabling Support for IPTV from VCK If you wish to watch IPTV from your computer from behind your wireless routing, you need to enable a setting known as Multicast Routing. Click LAN in the left menu and go to IPTV in the top menu. Next, select Enable next to both Enable multicast routing and Enable efficient multicast forwarding.

[Page 8](#) Step 7 (Optional) Enabling IPv6 Support Important! This is an advanced and optional step that only works with the current configuration of the campus network. If you don't need IPv6 support on your own wireless router, it is not necessary to enable it.

This manual is also suitable for:

[Rt-ac1200g](#)