Extending the network

# Introduction

These tasks have been designed to take your networks a step further. You will discover how to add additional devices to the network.

# Your wired network .Adding a new device

| **Steps** | **Instructions** |
| --- | --- |
| 1. **Locate** your wired network file from the previous task | * Go to File > Open * Find the wired network file from the previous task. * It should look like the image below. |
| 1. **Add** a new device to your network | * Click on End devices in the bottom left-hand corner.      * Choose either a PC or a laptop to add to your network. |
| 3. **Connect** the device to the network | * Connect the device using a copper straight-through cable. * Connect using the Ethernet ports available. * Remember to give the device an IP address. See if you can do this from memory, if not, look at the previous sheet.   Note: The IP address **must** be unique |
| 4. **Save** your network | * Make sure that your network is saved by clicking on File > Save. You will be asked to save again when you switch to your wireless network. |

# Your wireless network .Adding a new device

| **Steps** | **Instructions** |
| --- | --- |
| 1. **Locate** your wireless network file from the previous task | * Go to File > Open * Find the wireless network file from the previous task. * It should look like the image below.     Remember that it will take a few seconds for the wireless connections to establish. |
| 1. **Add** a new device to your network | * Click on End devices in the bottom left-hand corner.      * Choose either a PC or a laptop to add to your network. |
| 1. **Remove** the network card (the current one isn’t wireless) | * PCs and Laptops in Packet tracer do not have a wireless network card installed initially. You need to do this yourself. * Click on the new PC or Laptop and make sure that you are on the ‘Physical’ tab at the top. You should see a full size picture of your device. * Turn the power off your chosen device. This will be a red dot on the PC or a grey dot on the laptop.      * Remove the wired network card by dragging it to the left of the window (under PT-MICROPHONE). |
| 1. **Install** the wireless network card | * The new wireless card for the PC is called WMP300N. The new wireless card for the laptop is called WPC300N. Click and drag the wireless card from the menu on the left to the location where you removed the previous network card from.      * Switch the device back on! |
| 1. **Add** the device to the network | * See if you can remember how to add the wireless device to the network. If you have forgotten, see how to do it using the previous sheet. |
| 1. **Add** a wireless device to the network | * To add a **tablet** or a **smartphone** to the wireless network, you need to manually configure the wireless settings. * Enter the same WEP key entered previously with WEP selected. |
| 1. **Save** your wireless network | * Click on File > Save to save your wireless network. |

# Explorer task .

Open your wired network and try to add a wireless router to it. See if you can wire the switch to the router and install a wireless device. You will need to set up the WEP key on the wireless router and the wireless tablet.

