TalkTalk Super Router (Huawei HG 635) Port Forwarding

What's Port Forwarding?

Port forwarding is used when a certain program, server, games console or device requires that a specific signal is routed through. For example, a wireless CCTV camera may require a signal on a specific port to be routed through to that device when you try to connect externally from a device such as a Smart Phone or Tablet. Some programs require a port is open as they will listen on this custom port for communication channelled directly to them.

These programs are too numerous to mention here, so we recommend you first take a look at http://portforward.com/
This is a vast online resource of routers, ports and applications that use them. You can often find specific information for a particular program, and how to open the port that is required.
Remember also, if you are setting up port forwarding to a physical device, such as another PC or wireless camera, and this has an IP address provided via DHCP from the router, when the router is rebooted, the internal address of the device may change. This can upset the port forwarding rules you have set in the router, and stop it from working. To avoid this, you can 'reserve' an IP address for that specific device.

NOTE: Once the device has been set up for external access it can be 'seen' from a location outside of your LAN, the TalkTalk HG635 Router does not allow 'Loop Back' access so you will need to access the device only from an external network when using the external internet address. Most routers prevent 'Loop Back' as an additional security measure. E.g. http://myhost.dyndns-web.com:8150 will not access your device from the LAN which hosts the device!
If you have a Smartphone temporarily disable the WiFi and turn on Mobile Data which will enable you to test access to the device via your mobile phone network. Don't forget to return the Smartphone settings back to avoid excessive data charges.

Accessing the HG635 Router

Log into the router by typing 192.168.1.1 in your internet browser. When prompted, enter the user name and password, the default user name is 'admin' and the default password is 'admin'.

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Remotely Accessing Camera

Using the technology of Dynamic DNS, Remote Access allows you to remotely access your computer, DVR, webcam, camera system, and other devices using an easy to remember custom hostname. You will need to subscribe to a DDNS provider first. There are a number of free DDNS services available that automatically deal with dynamically changing IP addresses.

Simply install the update client to monitor your device, and your hostname will update whenever its IP address changes. In this example DynDns is used to gain remote access, even when the external IP address changes.

To reserve an IP address

Within your Home/Local Network IP addresses are normally assigned automatically as devices are connected to the network, which means that you need to assign/reserve a Static IP Address for your device.
Select 'Home Network' from the top menu bar. Select 'LAN Interface' from the Home Network Section. Under DHCP reservation, click 'Create new static IP address'. Select your device or enter the device details and Save the settings when completed.
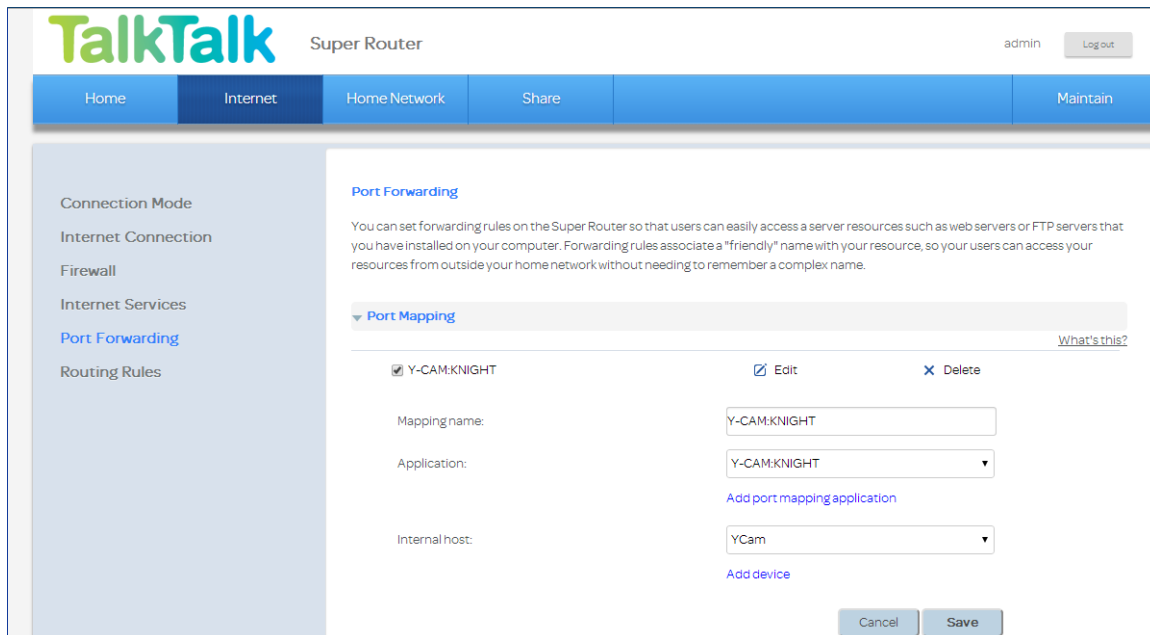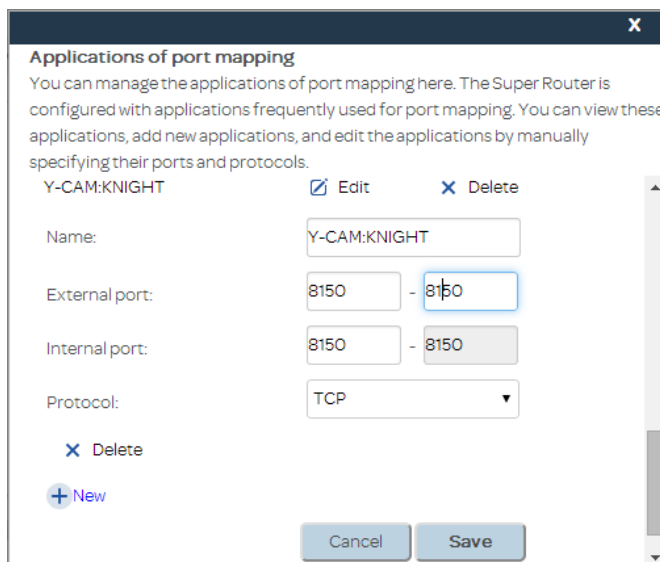
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Port Forwarding

Select 'Internet' from the top and then select 'Port Forwarding'. Under Port Mapping, select 'New Port Mapping'
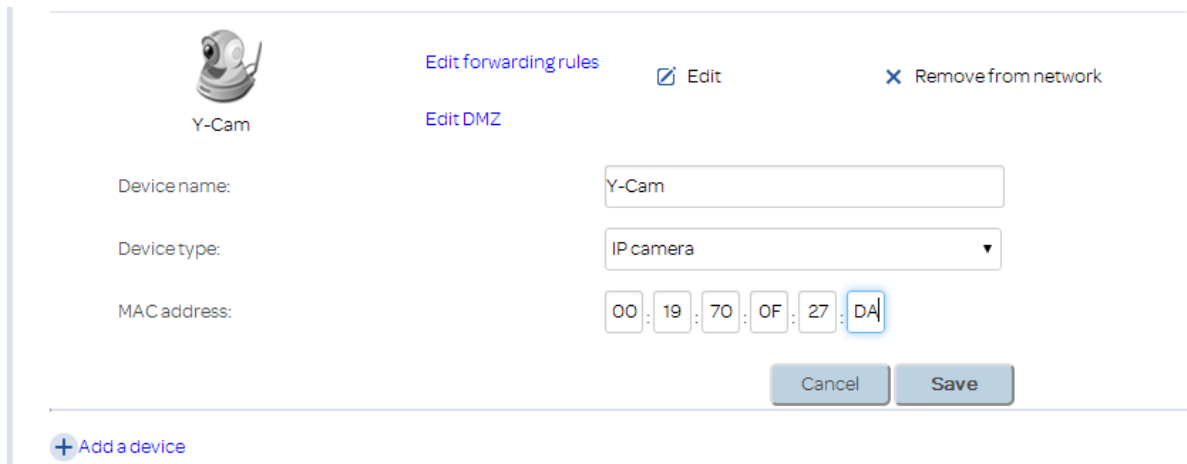

Enter a name for this rule in the Mapping Name field. Choose your application and if your application is not listed, click 'Add port mapping application'. At the bottom of the application list is an option for 'New'. Enter the name of the application, and enter the start and end ports you wish to open. Keep the number of External ports to a minimum, in this example only one port is opened, 8150. The internal port setting should be kept the same as the external port if possible; this is to avoid possibility of conflicts. Then click Save.
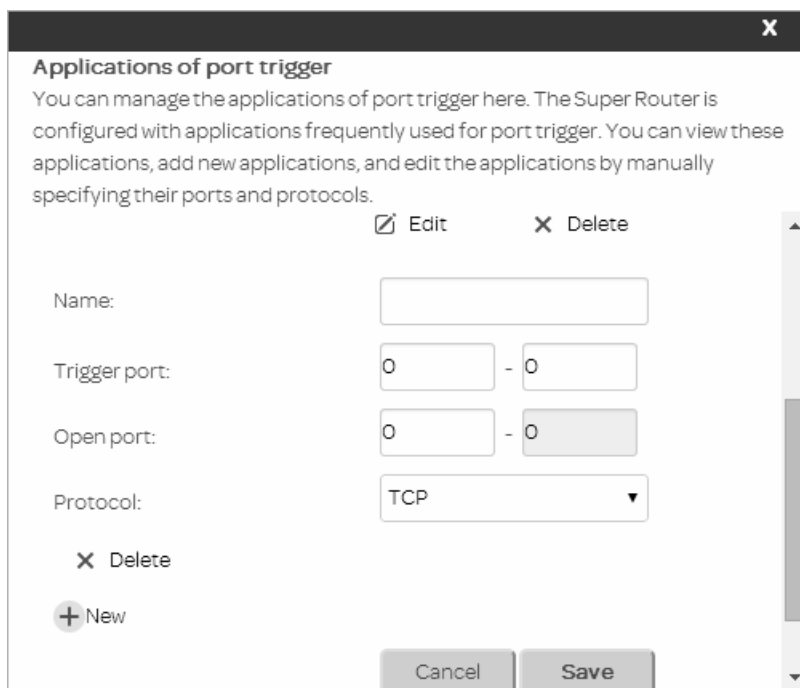
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You can then specify a device an internal host. You can choose from any previously connected devices in the list, or Add a new device.

If you only wish to open a port, you can select 'New Port Trigger' and enter the port details. However, this is not required for the Y-Cam.

Always remember to 'Save' when you add or change any details.