

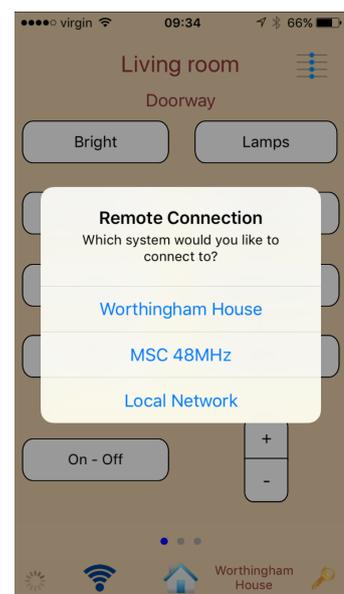
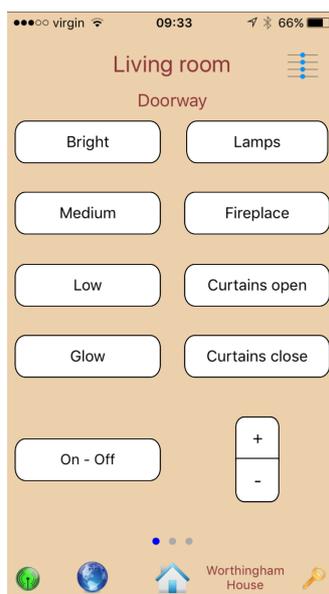
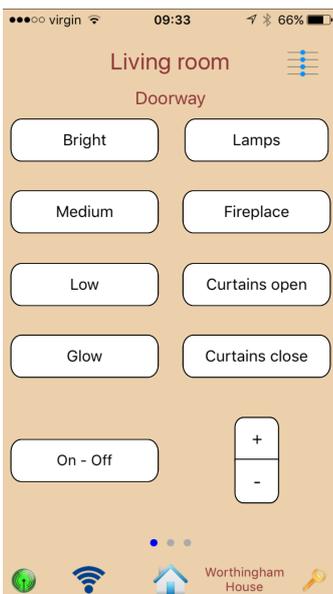
## FlexiDim Remote App - Internet connectivity guide

Version 2.0 of the FlexiDim Remote App allows connection to your lighting system via the internet, allowing access when away from your local wifi network. It is also possible to individually enable / restrict internet access for specific users via the iPad Configuration App.

The Settings page (accessible via the normal iPhone Settings App) allows you to specify the site IDs of up to three systems, and to choose whether to connect to one of them automatically or whether to ask before connecting. You can also set the port to use for the connection, allowing access to multiple lighting systems on the same network (see section on Port Forwarding).



A new button has been added at the bottom of the Remote App display, allowing you to switch between local wifi or internet connection. When wifi is selected, the app will automatically connect if it can only locate one lighting system on the network, or prompt you if it can detect multiple systems. When internet is selected, the app connects to the system specified in the settings page.



While incoming connections are authenticated using the security key specified for the user, systems with the version 2 (Apple) network interface and with Site IDs xxxx : 0xxx (e.g. 0417:0006) do not support encryption.

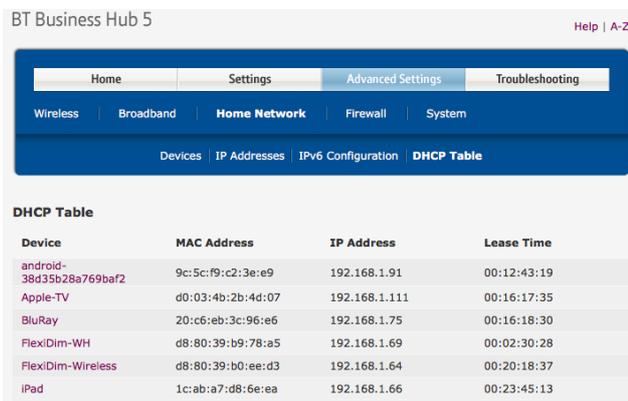
You can return your Version 2 (Apple) network interface for a free update to support AES encryption at no cost. (Your site ID would then change to xxxx : 1xxx - e.g. 0417:1006)

# Port Forwarding

It is necessary to enable an inbound rule for connections via the firewall settings of your broadband router.

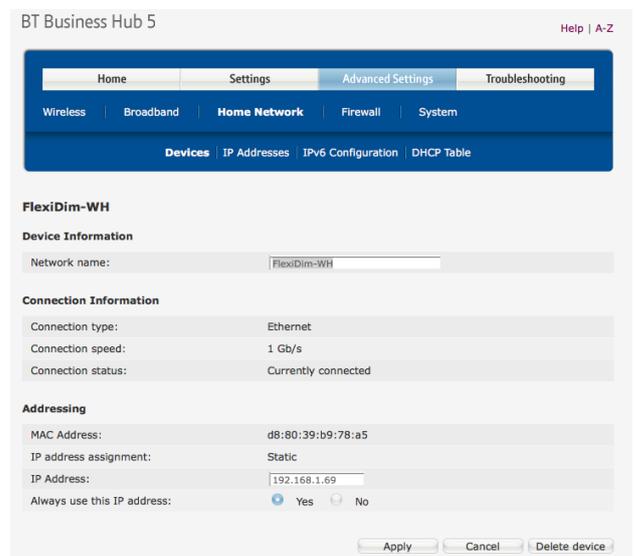
This task comprises two stages and, as the process varies a little by device and supplier, you should refer to your router's instructions for the specific method. Advanced Settings is usually a good starting point for finding the pages that you need.

- 1) Tell the router to always allocate the same IP address to your lighting system. This is achieved by identifying the IP address of the lighting system (the site page of the iPad Configuration App will give you this information) and then looking at the list of connected devices on the router web interface. Selecting the device will usually allow you to give it a name and tell the router to always allocate the same IP address. Sometimes this is achieved via the DHCP screens.



The screenshot shows the DHCP Table in the BT Business Hub 5 interface. The table lists several devices with their MAC addresses, IP addresses, and lease times.

Device	MAC Address	IP Address	Lease Time
android-38d35b28a769baf2	9c:5c:f9:c2:3e:e9	192.168.1.91	00:12:43:19
Apple-TV	d0:03:4b:2b:4d:07	192.168.1.111	00:16:17:35
BluRay	20:c6:eb:3c:96:e6	192.168.1.75	00:16:18:30
FlexiDim-WH	d8:80:39:b9:78:a5	192.168.1.69	00:02:30:28
FlexiDim-Wireless	d8:80:39:b0:ee:d3	192.168.1.64	00:20:18:37
iPad	1c:ab:a7:d8:6e:ea	192.168.1.66	00:23:45:13



The screenshot shows the FlexiDim-WH settings page in the BT Business Hub 5 interface. It displays device information, connection information, and addressing details.

**FlexiDim-WH**

**Device Information**

Network name: FlexiDim-WH

**Connection Information**

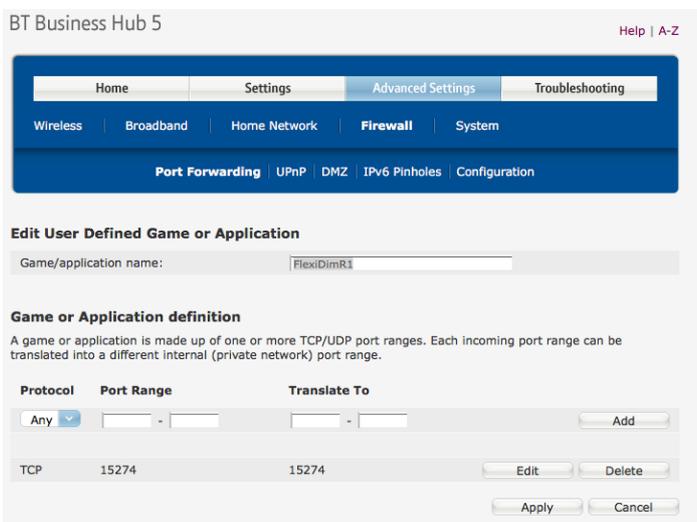
Connection type: Ethernet  
Connection speed: 1 Gb/s  
Connection status: Currently connected

**Addressing**

MAC Address: d8:80:39:b9:78:a5  
IP address assignment: Static  
IP Address: 192.168.1.69  
Always use this IP address:  Yes  No

Buttons: Apply, Cancel, Delete device

- 2) Define a service (sometimes called an application or game) for the incoming port and then map this to the lighting system. The lighting system will always expect connections on port 15274, so if you have told the app to connect on a different port you should use the translate function in the router to map back to 15274 (from 15276, for example).



The screenshot shows the 'Edit User Defined Game or Application' page in the BT Business Hub 5 interface. It allows defining a game or application with a specific protocol, port range, and translation.

**Edit User Defined Game or Application**

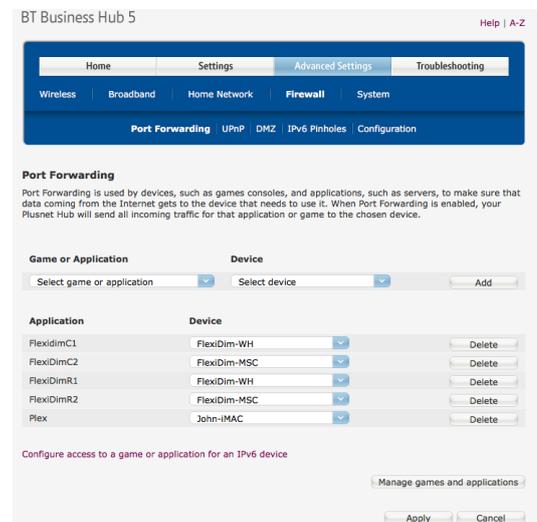
Game/application name: FlexiDimR1

**Game or Application definition**

A game or application is made up of one or more TCP/UDP port ranges. Each incoming port range can be translated into a different internal (private network) port range.

Protocol	Port Range	Translate To
Any	-	-
TCP	15274	15274

Buttons: Add, Edit, Delete, Apply, Cancel



The screenshot shows the Port Forwarding page in the BT Business Hub 5 interface. It allows defining port forwarding rules for various applications and devices.

**Port Forwarding**

Port Forwarding is used by devices, such as games consoles, and applications, such as servers, to make sure that data coming from the Internet gets to the device that needs to use it. When Port Forwarding is enabled, your Plusnet Hub will send all incoming traffic for that application or game to the chosen device.

**Game or Application** | **Device**

Select game or application | Select device | Add

Application	Device
FlexiDimC1	FlexiDim-WH
FlexiDimC2	FlexiDim-MSC
FlexiDimR1	FlexiDim-WH
FlexiDimR2	FlexiDim-MSC
Flex	John-iMAC

Buttons: Delete, Apply, Cancel

The router now knows to forward incoming connections (from the public internet) to the specified device (the lighting system) when a connection request comes in on the chosen port.