



Question: How do I configure a BT Home Hub for Internet access to a DVR in a CCTV system?

Answer: Users wishing to have remote internet access to their DVR & CCTV cameras must manually override the default settings and specifically open the data port(s) on the Home Hub needed by the DVR.

Configure a BT Home Hub for Internet Access to a DVR

The BT Home Hub is a 4 port Ethernet switch and ADSL modem router with firewall capability. The firewall is enabled by default blocking incoming connections from the internet thus protecting your network.

Users wishing to have remote internet access to their DVR must manually override the default settings and specifically open the data port(s) on the Home Hub needed by the DVR.

The instructions below describe how to configure your Home Hub for internet access to an Alien DVR using port 8000.

Prerequisites

These instructions assume you have ...

1. the password for logging onto the Home Hub via your browser
2. installed the client software and can logon to your DVR in the building
3. set, or know the DVR's IP address eg: 192.168.1.68
4. set the DVR's Gateway to 192.168.1.254
5. internet access via the Home Hub

Overview

There are four tasks to be performed ...

1. Create a user defined 'Application' for your DVR
2. Apply this new Application to your DVR
3. Apply the HTTP application if you require browser access to your DVR (optional)
4. Test the connection from the internet

This CCTV installation tip is aimed at helping you to install CCTV equipment. If you are looking for answers on "how to fit CCTV" or perhaps "how to network a DVR or NVR" or even "how to get CCTV on your mobile phone" why not check out our full range of CCTV installation tips at: www.systemq.com

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Task 1 : Create a User Defined 'Application'

To log onto the Home Hub, use your browser, eg: Internet Explorer and in the address bar, type ... <http://192.168.1.254>

Enter the password when prompted

Click on **Settings**

BT Home Hub Help | A-Z

Home Services **Settings** Troubleshooting

My Services

Broadband	Disconnected	Connect
Broadband user name	bthomehub@btbroadband.com	
BT Broadband Talk	No account activated on your BT Home Hub	Activate Service
BT FON	Not active on your BT Home Hub	Activate Service
BT Power Save	Not enabled	Configure
BT Access Control	Not enabled	Configure

My Home Network

Devices currently connected to your BT Home Hub.

Wireless	No devices detected
Ethernet	ToshLap0J
USB	No devices detected
Telephones	0 handset registered

Click on **Advanced Settings**

BT Home Hub Help | A-Z

Home Services **Settings** Troubleshooting

Wireless Telephones BT Power Save BT Access Control Application Sharing Admin Password Internet Advanced Settings

Basic Settings

This section contains the common settings that most users need to access. Some of these options are listed below.

If you can't find what you're looking for, please go to Help or A-Z.

- See or change your wireless security code
- If you're having problems with devices connecting wirelessly, switch to WEP security
- Change the wireless channel to avoid interference
- Activate the Power Save Mode on your Hub
- Set up Access Control for devices on your home network
- Set up your Hub to work with a game or application
- Manage which handsets ring for calls to your BT Broadband Talk and landline numbers
- Change your administrator password
- Enter your broadband username and password (for non-BT Total Broadband customers)

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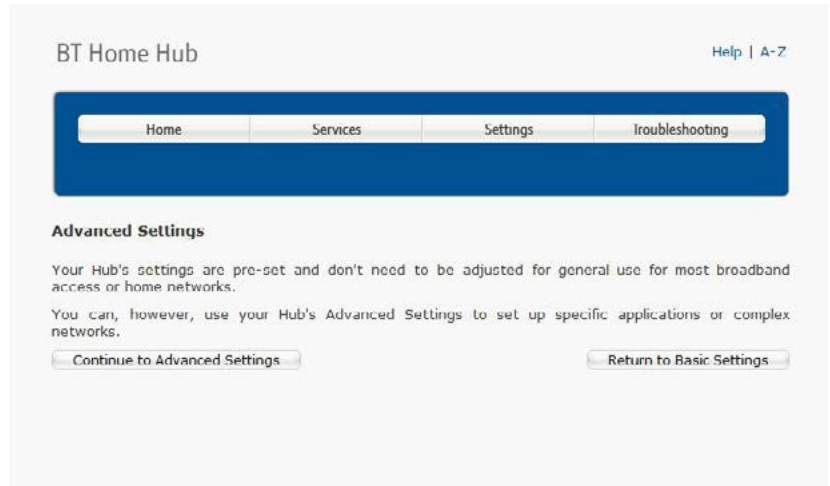


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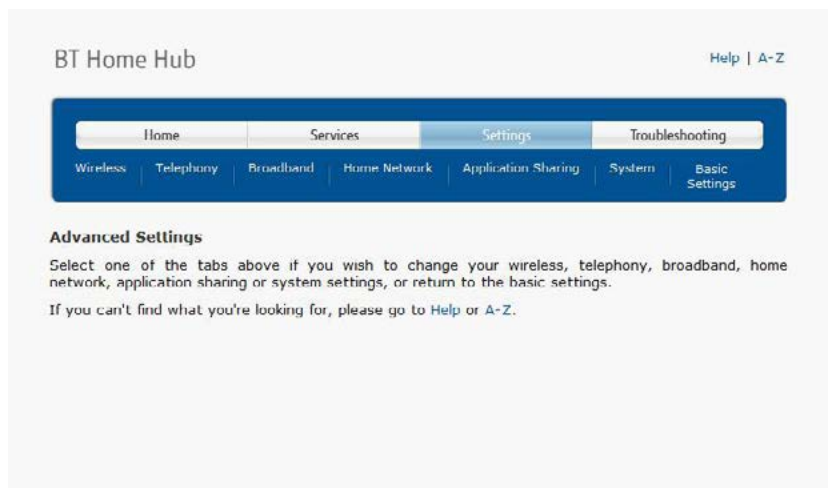
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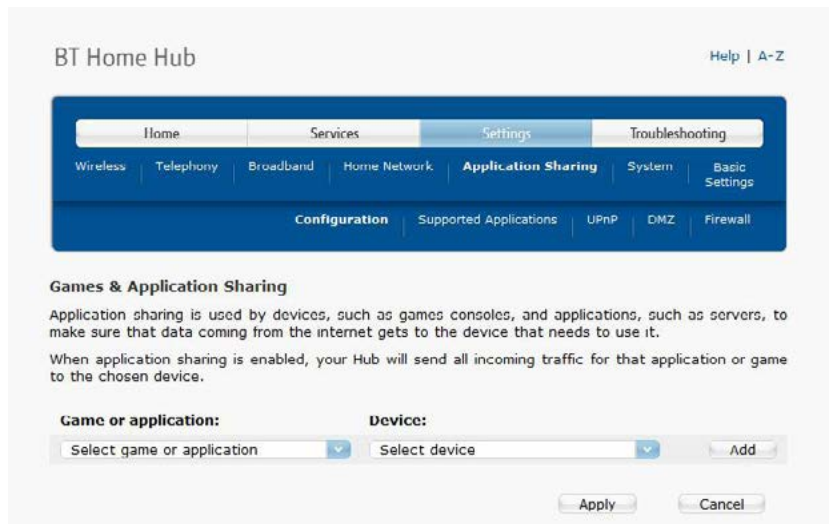
then **Continue to Advanced Settings**



Click on **Application Sharing**



Click on **Supported Applications**



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Click on **Add new game or application**

then ...

1. enter a descriptive name = **DVR8000**
2. Select **Copy Existing** = No
3. Select Protocol = TCP
5. Enter port range = 8000 – 8000
6. Enter Translate to = 8000 – 8000

Leave the trigger port blank

Click on **Add**, then **Apply**

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Your application rule is now created for port 8000 the next step is to apply this rule such any inbound connection using port 8000 is directed to the DVR

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Home Services Settings Troubleshooting

Wireless Telephony Broadband Home Network Application Sharing System Basic Settings

Configuration Supported Applications UPnP DMZ Firewall

Supported Games & Application

This page summarises the games and applications that are defined on your BT Home Hub, including any that you've defined yourself. Each game or application can be assigned to only one device on your home network.

User-defined games & applications

Game or Application	Assigned to
DVR8000	

Edit Delete

Add new game or application

Pre-defined games & applications

Game or Application	Assigned to
---------------------	-------------

Task 2 : Applying the User Defined 'Application' to the DVR

Click on **Configuration** then ...

1. Under **Game or application:** select entry = **DVR8000**
2. Under **Device:** select entry = **User Defined**
3. **Device IP Address** enter your own DVR's address, for example 192.168.1.68
4. Click on **Add**

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Home Services Settings Troubleshooting

Wireless Telephony Broadband Home Network Application Sharing System Basic Settings

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Games & Application Sharing

Application sharing 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 application sharing is enabled, your Hub will send all incoming traffic for that application or game to the chosen device.

Game or application: DVR8000 **Device:** User Defined

Device IP Address: 192.168.1.68

Add

Apply Cancel

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Click on **Apply**

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Game or application: DVR8000 **Device:** User Defined

Device IP Address: 192.168.1.68 Add

Apply Cancel

Note the 'Changes applied' message appears at the bottom of this page

BT Home Hub Help | A-Z

Home Services **Settings** Troubleshooting

Wireless Telephony Broadband Home Network **Application Sharing** System Basic Settings

Configuration Supported Applications UPnP DMZ Firewall

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Game or application: Select game or application **Device:** Select device Add

DVR8000 192.168.1.68 Unassign

Apply Cancel

Changes applied

Task 3: Applying the HTTP 'Application' for browser access to the DVR

It is sufficient to perform Task 2 above if Internet access to the DVR will be via the PC or mobile clients only. If, in addition to this, you require browser access as well, specifically Internet Explorer, then you must repeat Task 2, picking HTTP from the pre-defined 'Game or application' list and applying this to the DVR's IP address as well.

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Task 4 : Testing via the Internet

Use a laptop or mobile device with the DVR client software installed and try connecting to your site using the router's **external** IP address.

How do you find the router's external IP address ?

1. Look at the router's status page to find out what it's external IP address, or
2. Use a PC in the building to access an internet site that tells you what your IP address is.
eg: www.aliendvr.com/whatismyip.php

Note that the username, password and port number will be the same, but the IP address, rather than being an internal address beginning 192.168... will be different.

Accessing the DVR from Different Locations

For convenience, create a second device entry in the PC or mobile device client software. Give this second entry a different name so that you can differentiate between the entry to be used whilst in the building (using the internal IP address and a local connection) and the entry to be used whilst away from your building (using the external IP address via an Internet connection).

Do you have a 'Dynamic' IP Address?

Most domestic and small business broadband services in the UK are allocated a 'dynamic' IP address, ie: an address that may change at any time. It's not easy to connect to a site with a continually changing IP address you should implement Dynamic DNS instead – the BT Home Hub does support Dynamic DNS, this is documented in a separate technical tip.

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