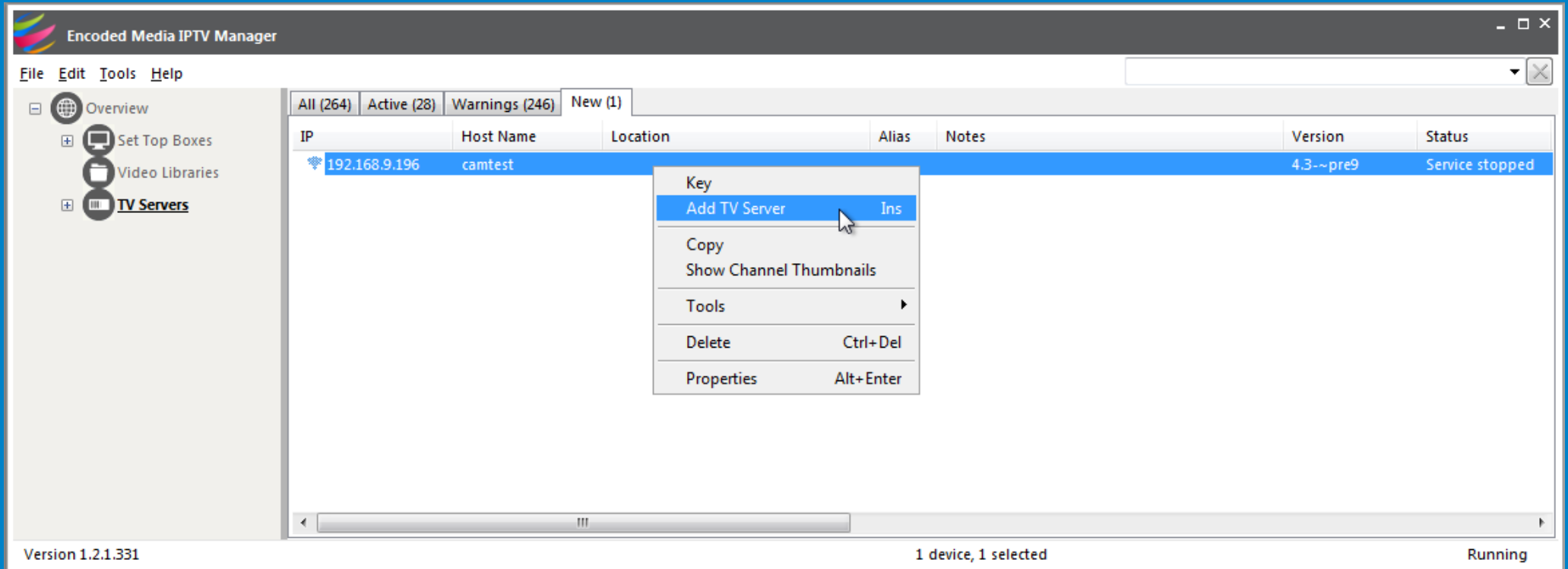


IPTV MANAGER PRO v1.2

QUICKSTART GUIDE





Installing a new TV Server or HD Encoder

Adding a hardware appliance to the IPTV Manager database

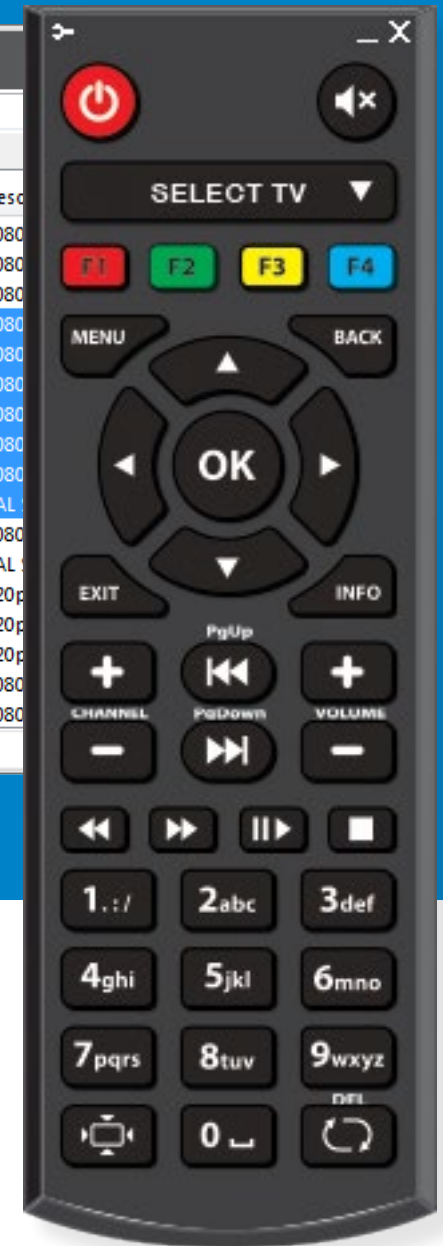
With the **TV Servers** node selected in the left navigation pane:

1. Press the **Insert** key on your keyboard, or choose **Add Server** from the **Tools** menu
2. Type or paste the address of the appliance in question into the **TV Server IP** field
3. Press the **Add** button

The TV Server or HD Encoder will then be added to the list of servers on the right.

The screenshot shows the 'Encoded Media IPTV Manager' application. The left sidebar has 'Set Top Boxes' selected. The main table lists various set-top boxes with columns for IP, Location, Status, Channel, Volume, Last Seen, and Resources. A right-click context menu is open over the table, with 'Tools' selected, which has opened a sub-menu where 'Remote Control' is highlighted. Other options in the 'Tools' sub-menu include 'Browse to Server', 'Connect as Engineer', 'Connect as Shell', 'Run Command', 'Test Stream', 'Open Source URL', 'Last Packet', 'Set Location', 'Set Network IP', 'Set Server', 'Reboot', and 'Upgrade'.

| IP | Location | Status | Channel | Volume | Last Seen | Resources |
|-----------------------|------------------------------------|---------|----------------|--------|---------------------|-----------|
| 10.95.23.69 (DHCP) | UK/Bath/Dorset/01/Meeting Room/1-G | Playing | Bloomberg UK | 100 | 2014/10/26 20:50:50 | 1080 |
| 10.95.21.231 (Static) | UK/Bath/Dorset/01/1N07A | Playing | BBC News | 0 | 2014/10/26 20:50:30 | 1080 |
| 10.95.21.230 (Static) | UK/Bath/Dorset/01/1N07B | Playing | BBC News | 0 | 2014/10/26 20:50:53 | 1080 |
| 10.95.16.232 (DHCP) | UK/Bath/Hampshire | | BBC News | 100 | 2014/10/26 20:50:35 | 1080 |
| 10.95.16.93 (DHCP) | UK/Bath/Hampshire | | BBC News | 100 | 2014/10/26 20:50:41 | 1080 |
| 10.95.12.167 (DHCP) | UK/Bath/Wiltshire/0 | | Bloomberg UK | 82 | 2014/10/26 20:50:23 | 1080 |
| 10.95.11.88 (DHCP) | UK/Bath/Wiltshire/0 | | Sky News | 35 | 2014/10/26 20:50:43 | 1080 |
| 10.95.10.68 (DHCP) | UK/Bath/Wiltshire/0 | | Bloomberg UK | 0 | 2014/10/26 20:50:33 | 1080 |
| 10.95.6.107 (DHCP) | UK/Bath/Hampshire | | ITV1 London | 97 | 2014/10/26 20:50:43 | 1080 |
| 10.95.4.54 (DHCP) | UK/Bath/Interactive | | BBC News | 52 | 2014/10/26 20:50:49 | PAL |
| 10.95.1.229 (Static) | UK/Bath/Littledown | | BBC 1 London | 100 | 2014/10/26 20:50:53 | 1080 |
| 10.93.136.27 (Static) | UK/London/70ER/B1 | | BBC Parliament | 70 | 2014/10/26 20:50:23 | PAL |
| 10.68.197.67 (DHCP) | Sweden/Stockholm/ | | Bloomberg UK | 100 | 2014/10/26 20:50:22 | 720p |
| 10.68.197.27 (DHCP) | Sweden/Stockholm/ | | Bloomberg UK | 100 | 2014/10/26 20:50:36 | 720p |
| 10.68.197.21 (DHCP) | Sweden/Stockholm/ | | Bloomberg UK | 100 | 2014/10/26 20:50:18 | 720p |
| 10.67.144.34 (DHCP) | ROI/Dublin/unknow | | | | 26 20:50:52 | 1080 |
| 10.67.140.81 (DHCP) | UK/London/Bridge S | | | | 26 20:50:44 | 1080 |



Remote controlling your set top boxes

Using the virtual IR remote tool to control one or more devices remotely

With the **Set Top Boxes** node selected in the left navigation pane:

1. Highlight one or more target boxes individually, in a range, or by selection
2. Right-click any of the highlighted entries
3. Choose **Tools** from the pop-up menu that appears, then click **Remote Control**

The virtual remote tool will be displayed. Left click the virtual buttons on the remote with your mouse to trigger them and send the command to the target boxes you have selected.

The screenshot shows the 'Encoded Media IPTV Manager' application. The left sidebar has a tree view with 'Set Top Boxes' selected. The main area displays a table of set-top boxes with columns: IP, Location, Status, Channel, Volume, Last Seen, Resolution, and Network. A range of seven boxes is highlighted in blue. A right-click context menu is open over the selection, showing options like 'Refresh', 'Add Device', 'On-screen Information', 'Copy', 'Columns', 'Group', 'Change Channel', 'Set Volume', 'Tools', 'SnapShots', 'Delete', and 'Properties'. The 'Change Channel' option is selected, opening a submenu with a list of channels including 'CNN Europe', 'CNBC Europe', 'Bloomberg UK', 'BBC News', 'Sky News', 'Euronews', 'BBC Parliament', 'Sky Sports1', 'Sky Sports2', 'Sky Sports3', 'BBC Radio 1', 'Internal 1', 'Internal 2', and 'Internal 3'. The 'CNN Europe' option is highlighted in the submenu.

| IP | Location | Status | Channel | Volume | Last Seen | Resolution | Network |
|-----------------------|------------------------------------|-------------|----------------|--------|---------------------|--------------|-------------------------|
| 10.95.23.69 (DHCP) | UK/Bath/Dorset/01/Meeting Room/1-G | Playing | Bloomberg UK | 100 | 2014/10/26 20:48:15 | 1080i - UK | Auto Full Duplex 100... |
| 10.95.21.231 (Static) | UK/Bath/Dorset/01/1N07A | Playing | BBC News | 0 | 2014/10/26 20:47:55 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.21.230 (Static) | UK/Bath/Dorset/01/1N07B | Playing | BBC News | 0 | 2014/10/26 20:48:17 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.16.232 (DHCP) | UK/Bath/... | Playing | BBC News | 100 | 2014/10/26 20:48:00 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.16.93 (DHCP) | UK/Bath/... | Playing | BBC News | 100 | 2014/10/26 20:48:07 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.12.167 (DHCP) | UK/Bath/... | Transiti... | Bloomberg UK | 82 | 2014/10/26 20:47:48 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.11.88 (DHCP) | UK/Bath/... | Playing | Sky News | 35 | 2014/10/26 20:48:07 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.10.68 (DHCP) | UK/Bath/... | Playing | Bloomberg UK | 0 | 2014/10/26 20:47:57 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.6.107 (DHCP) | UK/Bath/... | Playing | ITV1 London | 97 | 2014/10/26 20:48:07 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.4.54 (DHCP) | UK/Bath/... | Playing | BBC News | 52 | 2014/10/26 20:48:15 | PAL SD - UK | Auto Full Duplex 100... |
| 10.95.1.229 (Static) | UK/Bath/... | Playing | BBC 1 London | 100 | 2014/10/26 20:48:18 | 1080p - UK | Auto Full Duplex 100... |
| 10.93.136.27 (Static) | UK/Lond... | Playing | BBC Parliament | 70 | 2014/10/26 20:47:47 | PAL SD - UK | Half Duplex 100Mbit/s |
| 10.68.197.67 (DHCP) | Sweden/S... | | BBC 1 London | 100 | 2014/10/26 20:47:47 | 720p HD - UK | Auto Full Duplex 100... |
| 10.68.197.27 (DHCP) | Sweden/S... | | BBC 2 London | 100 | 2014/10/26 20:48:01 | 720p HD - UK | Auto Full Duplex 100... |
| 10.68.197.21 (DHCP) | Sweden/S... | | ITV1 London | 100 | 2014/10/26 20:47:43 | 720p HD - UK | Auto Full Duplex 100... |
| 10.67.144.34 (DHCP) | ROI/Dubl... | | Channel 4 | 100 | 2014/10/26 20:48:17 | 1080p - UK | Auto Full Duplex 100... |
| 10.67.140.81 (DHCP) | UK/Lond... | | CNN Europe | 73 | 2014/10/26 20:48:09 | 1080p - UK | Auto Full Duplex 100... |

Selecting boxes and changing channel

Changing the displayed TV channel on one or more set top boxes

With the **Set Top Boxes** node selected in the left navigation pane:

1. Highlight one or more target boxes individually, in a range, or by selection
2. Right-click any of the highlighted entries
3. Choose **Change Channel** from the pop-up menu, and select the new channel from the submenu that appears

In the image above, a range of seven boxes has been selected. When the menu entry is selected, each box in the selection will be changed to *CNN Europe*.

The screenshot shows the 'Encoded Media IPTV Manager' application. The left sidebar has 'Set Top Boxes' selected. The main table lists various set-top boxes with columns for IP, Location, Status, Channel, Volume, Last Seen, Resolution, and Network. A context menu is open over a selection of seven rows, with 'Set Volume' highlighted. A submenu is also open, showing volume levels from 10% to 100%, with 50% selected.

| IP | Location | Status | Channel | Volume | Last Seen | Resolution | Network |
|-----------------------|------------------------------------|-------------|----------------|--------|---------------------|--------------|-------------------------|
| 10.95.23.69 (DHCP) | UK/Bath/Dorset/01/Meeting Room/1-G | Playing | Bloomberg UK | 100 | 2014/10/26 20:48:54 | 1080i - UK | Auto Full Duplex 100... |
| 10.95.21.231 (Static) | UK/Bath/Dorset/01/1N07A | Playing | BBC News | 0 | 2014/10/26 20:49:13 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.21.230 (Static) | UK/Bath/Dorset/01/1N07B | Playing | BBC News | 0 | 2014/10/26 20:48:56 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.16.232 (DHCP) | UK/Bath/Hampshire/01/H15114 | Playing | BBC News | 100 | 2014/10/26 20:49:17 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.16.93 (DHCP) | UK/Bath/H | Playing | BBC News | 100 | 2014/10/26 20:49:24 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.12.167 (DHCP) | UK/Bath/M | transiti... | Bloomberg UK | 82 | 2014/10/26 20:49:06 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.11.88 (DHCP) | UK/Bath/M | Playing | Sky News | 35 | 2014/10/26 20:49:25 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.10.68 (DHCP) | UK/Bath/M | Playing | Bloomberg UK | 0 | 2014/10/26 20:49:15 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.6.107 (DHCP) | UK/Bath/H | Playing | ITV1 London | 97 | 2014/10/26 20:49:25 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.4.54 (DHCP) | UK/Bath/In | Playing | BBC News | 52 | 2014/10/26 20:48:53 | PAL SD - UK | Auto Full Duplex 100... |
| 10.95.1.229 (Static) | UK/Bath/Li | Playing | BBC 1 London | 100 | 2014/10/26 20:48:56 | 1080p - UK | Auto Full Duplex 100... |
| 10.93.136.27 (Static) | UK/London | Playing | BBC Parliament | 70 | 2014/10/26 20:49:05 | PAL SD - UK | Half Duplex 100Mbit/s |
| 10.68.197.67 (DHCP) | Sweden/St | Playing | Bloomberg UK | 100 | 2014/10/26 20:49:04 | 720p HD - UK | Auto Full Duplex 100... |
| 10.68.197.27 (DHCP) | Sweden/St | Playing | Bloomberg UK | 100 | 2014/10/26 20:49:19 | 720p HD - UK | Auto Full Duplex 100... |
| 10.68.197.21 (DHCP) | Sweden/St | Playing | Bloomberg UK | 100 | 2014/10/26 20:49:01 | 720p HD - UK | Auto Full Duplex 100... |
| 10.67.144.34 (DHCP) | ROI/Dublin | Playing | Bloomberg UK | 100 | 2014/10/26 20:48:56 | 1080p - UK | Auto Full Duplex 100... |
| 10.67.140.81 (DHCP) | UK/London | Playing | Bloomberg UK | 73 | 2014/10/26 20:49:26 | 1080p - UK | Auto Full Duplex 100... |

Adjusting volume levels

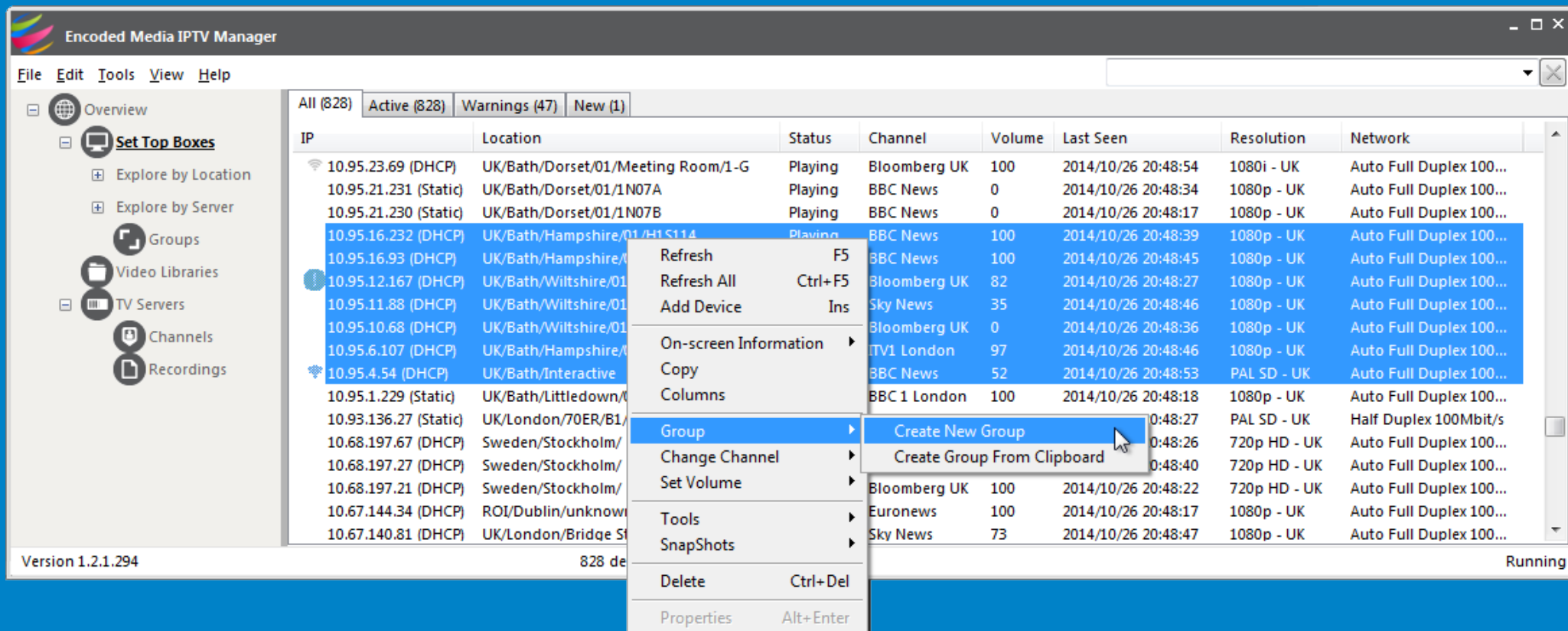
Setting the audio level on one or more set top boxes

With the **Set Top Boxes** node selected in the left navigation pane:

1. Highlight one or more target boxes individually, in a range, or by selection
2. Right-click any of the highlighted entries
3. Choose **Set Volume** from the pop-up menu, then select the desired volume level from the submenu that appears

Note. 100% is the maximum permissible audio level and mute is off.

In the image above, a range of seven boxes has been selected. When the menu entry is selected, each box in the selection will have its volume lowered to half (i.e. 50%).



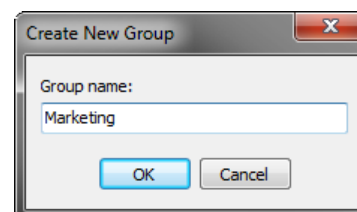
Working with groups

Organising boxes into groups for easier viewing and management

You can create any number of groups of set top boxes, enabling you to quickly focus in on smaller numbers of devices. Groups appear as quick selections in the Groups node of the left navigation pane. With the **Set Top Boxes** node selected in the left navigation pane:

1. Highlight one or more target boxes individually, in a range, or by selection
2. Right-click any of the highlighted entries
3. Choose **Group** from the pop-up menu that appears, then click **Create New Group**

Note. When creating a new group of devices, you'll be asked to name the group. This name has no effect on the items within the group and is merely a descriptive term for the IPTV Manager program interface.



Once you have provided a name for the group and pressed OK, it is immediately accessible from the left navigation pane.

Encoded Media IPTV Manager

File Edit Tools View Help

Overview

- Set Top Boxes
 - Explore by Location
 - Explore by Server
- Groups
 - Marketing**
- Video Libraries
- TV Servers
 - Channels
 - Recordings

| IP | Location | Status | Channel | Volume | Last Seen | Resolution | Network |
|---------------------|---------------------------------|-------------|--------------|--------|---------------------|-------------|-------------------------|
| 10.95.16.232 (DHCP) | UK/Bath/Hampshire/01/H1S114 | Playing | BBC News | 100 | 2014/10/26 20:51:53 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.16.93 (DHCP) | UK/Bath/Hampshire/01/H1S064 | Playing | BBC News | 100 | 2014/10/26 20:51:59 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.12.167 (DHCP) | UK/Bath/Wiltshire/01/W11001 | Transiti... | Bloomberg UK | 82 | 2014/10/26 20:52:20 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.11.88 (DHCP) | UK/Bath/Wiltshire/01/W21030 | Playing | Sky News | 35 | 2014/10/26 20:52:00 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.10.68 (DHCP) | UK/Bath/Wiltshire/01/W21110 | Playing | Bloomberg UK | 0 | 2014/10/26 20:51:50 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.6.107 (DHCP) | UK/Bath/Hampshire/00/Print Room | Playing | ITV1 London | 97 | 2014/10/26 20:52:00 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.4.54 (DHCP) | UK/Bath/Interactive | Playing | BBC News | 52 | 2014/10/26 20:52:07 | PAL SD - UK | Auto Full Duplex 100... |

Version 1.2.1.294 7 devices, 7 selected Running

Working with groups

Selecting and managing groups of set-top boxes

With the **Set Top Boxes** node selected in the left navigation pane:

1. Click and expand the **Groups** node
2. Left-click select the name of the group you wish to view
3. The boxes contained within the group will be displayed in the list pane on the right

Encoded Media IPTV Manager

File Edit Tools View Help

Overview

- Set Top Boxes
 - Explore by Location
 - Explore by Server
- Groups
- Marketing
- Video Libraries
- TV Servers
- Channels
- Recordings

Version 1.2.1.294

Running

| IP | Location | Status | Channel | Volume | Last Seen | Resolution | Network |
|---------------------|-----------------------------|-------------|--------------|--------|---------------------|-------------|-------------------------|
| 10.95.16.232 (DHCP) | UK/Bath/Hampshire/01/H1S114 | Playing | BBC News | 100 | 2014/10/26 20:53:10 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.16.93 (DHCP) | UK/Bath/Hampshire/01/H1S064 | Playing | BBC News | 100 | 2014/10/26 20:53:17 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.12.167 (DHCP) | UK/Bath/Wiltshire/01/W11001 | Transiti... | Bloomberg UK | 82 | 2014/10/26 20:52:59 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.11.88 (DHCP) | UK/Bath/Wiltshire/01/W21030 | Playing | Sky News | 35 | 2014/10/26 20:53:18 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.10.68 (DHCP) | UK/Bath... | Playing | Bloomberg UK | 0 | 2014/10/26 20:53:08 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.6.107 (DHCP) | UK/Bath... | Playing | ITV1 London | 97 | 2014/10/26 20:53:18 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.4.54 (DHCP) | UK/Bath... | Playing | BBC News | 52 | 2014/10/26 20:52:46 | PAL SD - UK | Auto Full Duplex 100... |

Context Menu:

- Refresh F5
- Refresh All Ctrl+F5
- Add Device Ins
- On-screen Information
- Copy
- Columns
- Group
- Change Channel
- Set Volume
- Tools
 - Query Now Ctrl+Q
 - Ping Ctrl+P
 - Generate Remote Key
 - Remote Control Ctrl+R
 - Browse to Server
 - Connect as Engineer Ctrl+T
 - Connect as Shell Ctrl+H
 - Run Command Ctrl+N
 - Test Stream
 - Open Source URL
 - Last Packet Ctrl+L
 - Set Location Ctrl+Alt+L
 - Set Network IP Ctrl+Alt+I
 - Set Server Ctrl+Alt+S
 - Reboot
 - Upgrade
- Snapshots
- Delete Ctrl+Del
- Properties Alt+Enter

Changing the displayed location

Make changes to the location of your set top box devices

The location of a set top box is a descriptive field which helps administrators identify individual devices. It is displayed within *IPTV Manager* and on various screens of the box in question (e.g. the Status screen, and the Connection screen). Although not a requirement, providing unique names for your boxes will make the management and troubleshooting of larger installs easier.

With the **Set Top Boxes** node selected in the left navigation pane:

1. Highlight one or more target boxes individually, in a range, or by selection
2. Right-click any of the highlighted entries
3. Choose **Tools** from the pop-up menu, then **Set Location**
4. Edit the **Location** field and press **OK** to save your changes or **Cancel** to discard them

Set Location

STB IP: 10.95.11.88 (DHCP)

STB Serial: 102012N026968

Location

UK/Bath/Wiltshire/01/W21030

Cancel OK

Encoded Media IPTV Manager

File Edit Tools View Help

Overview

- Set Top Boxes
 - Explore by Location
 - Explore by Server
- Groups
- Marketing
- Video Libraries
- TV Servers
- Channels
- Recordings

Version 1.2.1.294

Running

| IP | Location | Status | Channel | Volume | Last Seen | Resolution | Network |
|---------------------|-----------------------------|-------------|--------------|--------|---------------------|-------------|-------------------------|
| 10.95.16.232 (DHCP) | UK/Bath/Hampshire/01/H1S114 | Playing | BBC News | 100 | 2014/10/26 20:53:10 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.16.93 (DHCP) | UK/Bath/Hampshire/01/H1S064 | Playing | BBC News | 100 | 2014/10/26 20:53:17 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.12.167 (DHCP) | UK/Bath/Wiltshire/01/W11001 | Transiti... | Bloomberg UK | 82 | 2014/10/26 20:52:59 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.11.88 (DHCP) | UK/Bath/Wiltshire/01/W21030 | Playing | Sky News | 35 | 2014/10/26 20:53:18 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.10.68 (DHCP) | UK/Bath... | Playing | Bloomberg UK | 0 | 2014/10/26 20:53:08 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.6.107 (DHCP) | UK/Bath... | Playing | ITV1 London | 97 | 2014/10/26 20:53:18 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.4.54 (DHCP) | UK/Bath... | Playing | BBC News | 52 | 2014/10/26 20:52:46 | PAL SD - UK | Auto Full Duplex 100... |

Context Menu:

- Refresh F5
- Refresh All Ctrl+F5
- Add Device Ins
- On-screen Information
- Copy
- Columns
- Group
- Change Channel
- Set Volume
- Tools
 - Query Now Ctrl+Q
 - Ping Ctrl+P
 - Generate Remote Key
 - Remote Control Ctrl+R
 - Browse to Server
 - Connect as Engineer Ctrl+T
 - Connect as Shell Ctrl+H
 - Run Command Ctrl+N
 - Test Stream
 - Open Source URL
 - Last Packet Ctrl+L
 - Set Location Ctrl+Alt+L
 - Set Network IP Ctrl+Alt+I
 - Set Server Ctrl+Alt+S
 - Reboot
 - Upgrade
- Snapshots
- Delete Ctrl+Del
- Properties Alt+Enter

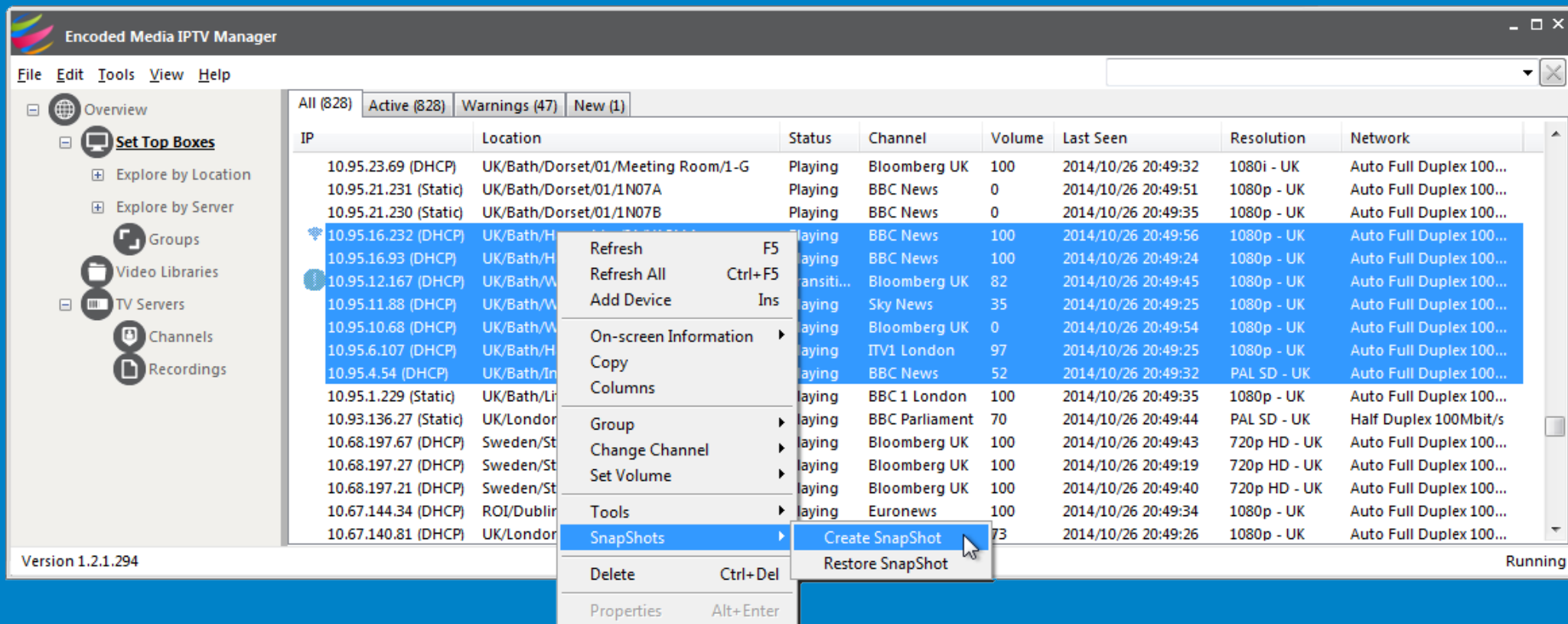
Changing the server

The server determines which channels are available to you

To allow your set-top box to display streams from a TV Server or HD Encoder appliance, you must configure it with the IP or hostname of up to three Encoded Media appliances on your network. Once duly configured, the box will contact the first responsive appliance and download the available channel bouquet from it.

With the **Set Top Boxes** node selected in the left navigation pane:

1. Highlight one or more target boxes individually, in a range, or by selection
2. Right-click any of the highlighted entries
3. Choose **Tools** from the pop-up menu, then **Set Server**
4. Edit the three **Server** fields and press **OK** to save your changes or **Cancel** to discard them. At least one server must be defined.



Set Top Box SnapShots

Save and restore the state of set top boxes

You're able to save the current state of one or more boxes by creating a SnapShot that can be saved to disk and loaded back in at a later date.

The SnapShot is plain text file and containing the following comma-separated values (.CSV):

- Unique device ID
- Volume level
- TV channel

These allows you to perform out-of-hours configuration tasks on any number of target boxes, and be certain that the devices in question can be easily returned to their original viewing state.

Step by step

To create a SnapShot for one or more boxes:

1. Highlight one or more target boxes individually, in a range, or by selection
2. Right-click any of the highlighted entries and choose **SnapShots** followed by **Create SnapShot**
3. Select a destination folder and provide a filename for the new SnapShot file

To restore a SnapShot:

1. Highlight one or more target boxes individually, in a range, or by selection
2. Right-click any of the highlighted entries and choose **SnapShots** followed by **Restore SnapShot**
3. Once the SnapShot file has been successfully restored, the relevant boxes will have their volume levels and active channel adjusted accordingly

Encoded Media IPTV Manager

File Edit Tools View Help

Overview

Set Top Boxes

Explore by Location

Explore by Server

Groups

Marketing

Video Libraries

TV Servers

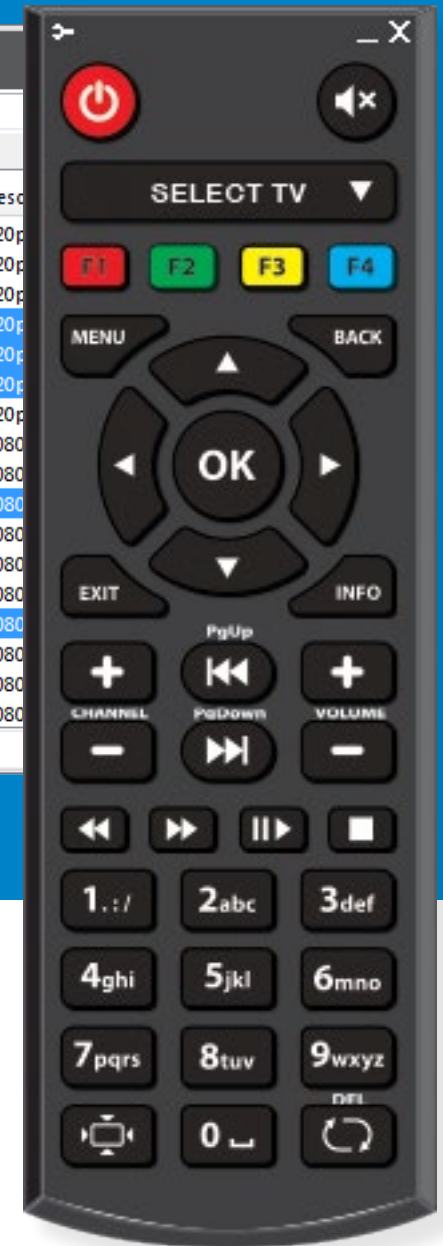
Channels

Recordings

Version 1.2.1.294

828 devices

| IP | Location | Status | Channel | Volume | Last Seen | Resource |
|-----------------------|----------------------------------|---------|-------------|--------|---------------------|----------|
| 10.65.31.237 (Static) | UK/London/70ER/04/Floor/04/N/M17 | Playing | CNBC Europe | 100 | 2014/10/26 20:57:24 | 720p |
| 10.65.27.233 (Static) | UK/London/70ER/04/Floor/04/N/M3 | Playing | BBC News | 100 | 2014/10/26 20:57:34 | 720p |
| 10.65.29.230 (Static) | UK/London/70ER/04/Floor/04/N/M6 | Playing | CNBC Europe | 100 | 2014/10/26 20:57:26 | 720p |
| 10.65.27.232 (Static) | UK/London/70ER/04/Floor/04/N/M7 | Playing | CNBC Europe | 100 | 2014/10/26 20:57:50 | 720p |
| 10.65.33.239 (Static) | UK/London/70ER/04/Floor/04/N/M17 | Playing | BC Europe | 100 | 2014/10/26 20:57:19 | 720p |
| 10.65.29.229 (Static) | UK/London/70ER/04/Floor/04/N/M17 | Playing | omberg UK | 100 | 2014/10/26 20:57:53 | 720p |
| 10.65.27.231 (Static) | UK/London/70ER/04/Floor/04/N/M17 | Playing | BC Europe | 100 | 2014/10/26 20:57:16 | 720p |
| 10.65.32.55 (DHCP) | UK/London/70ER/04/Floor/04/N/M17 | Playing | omberg UK | 0 | 2014/10/26 20:57:20 | 1080p |
| 10.65.39.228 (Static) | UK/London/70ER/04/Floor/04/N/M17 | Playing | BC Europe | 100 | 2014/10/26 20:57:30 | 1080p |
| 10.65.35.229 (Static) | UK/London/70ER/04/Floor/04/N/M17 | Playing | BC Europe | 100 | 2014/10/26 20:57:36 | 1080p |
| 10.65.39.229 (Static) | UK/London/70ER/05/Floor/05/N/M17 | Playing | BC Europe | 100 | 2014/10/26 20:57:40 | 1080p |
| 10.65.41.228 (Static) | UK/London/70ER/05/Floor/05/N/M17 | Playing | News | 100 | 2014/10/26 20:57:17 | 1080p |
| 10.65.39.226 (Static) | UK/London/70ER/05/Floor/05/N/M17 | Playing | BC Europe | 100 | 2014/10/26 20:57:33 | 1080p |
| 10.65.41.230 (Static) | UK/London/70ER/05/Floor/05/N/M17 | Playing | BC Europe | 100 | 2014/10/26 20:57:18 | 1080p |
| 10.65.35.228 (Static) | UK/London/70ER/05/Floor/05/N/M17 | Playing | omberg UK | 0 | 2014/10/26 20:57:19 | 1080p |
| 10.65.37.229 (Static) | UK/London/70ER/05/Floor/05/N/M17 | Playing | | | 0:57:34 | 1080p |
| 10.65.35.230 (Static) | UK/London/70ER/05/Floor/05/N/M17 | Playing | | | 0:57:42 | 1080p |



Creating remote control keys

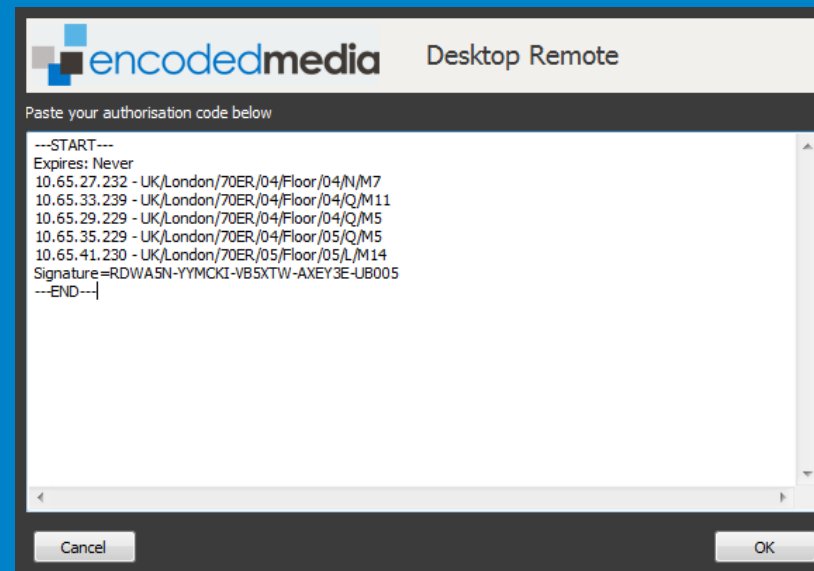
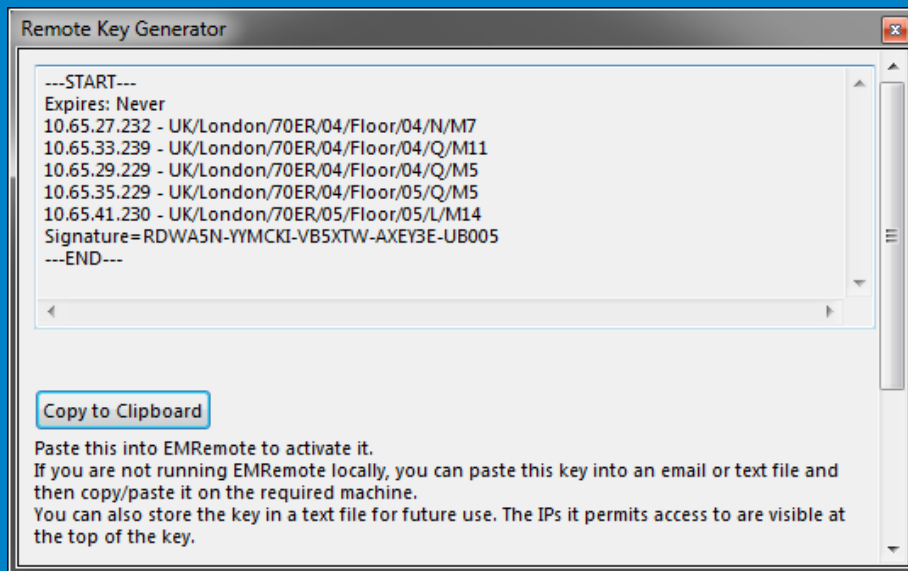
Remotely control any number of boxes with a dedicated desktop application

In addition to the Remote Control feature accessible to IPTV Manager users from the **Tools** menu, it is also possible to set up a virtual remote that can be configured to target a specific number of devices.

The Encoded Media Desktop Remote application can be provided to third party users, for example to floor managers, enabling them to control all boxes within their department with a single click.

To configure the Desktop Remote to target only certain boxes:

1. Highlight one or more target boxes individually, in a range, or by selection
2. Right-click any of the highlighted entries and choose **Tools** then **Generate Remote Key**



The code displayed is used by the Desktop Remote application to determine which boxes it is able to target when it is used. The code should be copied and pasted into an email or into a text file and provided to authorised Desktop Remote users.

To configure a new installation of Desktop Remote with the code:

1. Open the Encoded Media Desktop Remote application
2. Paste the code into the displayed dialog box

To reconfigure an existing installation:

1. Open the Encoded Media Desktop Remote application
2. Click the **Select TV** drop-down menu and choose **Settings** from the pop-up menu
3. Tap the **Reset Authorisation** button at the top of the Settings dialog box
4. Close and then reopen the Desktop Remote application

The screenshot shows the Encoded Media IPTV Manager interface. The main window displays a table of devices with columns: IP, Location, Status, Channel, Volume, Last Seen, Resolution, and Network. A right-click context menu is open over the selected device (10.95.10.68), showing options like Refresh, Refresh All, Add Device, On-screen Information, Copy, Columns, Group, Change Channel, Set Volume, Tools, Snapshots, Delete, and Properties. The 'Tools' option is highlighted, and a sub-menu is visible with options like Query Now, Ping, Generate Remote Key, Remote Control, Browse to Server, Connect as Engineer, Connect as Shell, Run Command, Test Stream, Open Source URL, Last Packet, Set Location, Set Network IP, Set Server, Reboot, and Upgrade.

| IP | Location | Status | Channel | Volume | Last Seen | Resolution | Network |
|---------------------|---------------------------------|-------------|--------------|--------|---------------------|-------------|-------------------------|
| 10.95.16.232 (DHCP) | UK/Bath/Hampshire/01/H1S114 | Playing | BBC News | 100 | 2014/10/26 20:55:06 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.16.93 (DHCP) | UK/Bath/Hampshire/01/H1S064 | Playing | BBC News | 100 | 2014/10/26 20:55:13 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.12.167 (DHCP) | UK/Bath/Wiltshire/01/W11001 | Transiti... | Bloomberg UK | 82 | 2014/10/26 20:54:55 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.11.88 (DHCP) | UK/Bath/Wiltshire/01/W21030 | Playing | Sky News | 35 | 2014/10/26 20:55:14 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.10.68 (DHCP) | UK/Bath/Wiltshire/01/W21110 | Playing | Bloomberg UK | 0 | 2014/10/26 20:55:04 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.6.107 (DHCP) | UK/Bath/Hampshire/00/Print Room | Playing | ITV1 | | 20:55:14 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.4.54 (DHCP) | UK/Bath/Interactive | Playing | BBC | | 20:54:42 | PAL SD - UK | Auto Full Duplex 100... |

Diagnostic tools

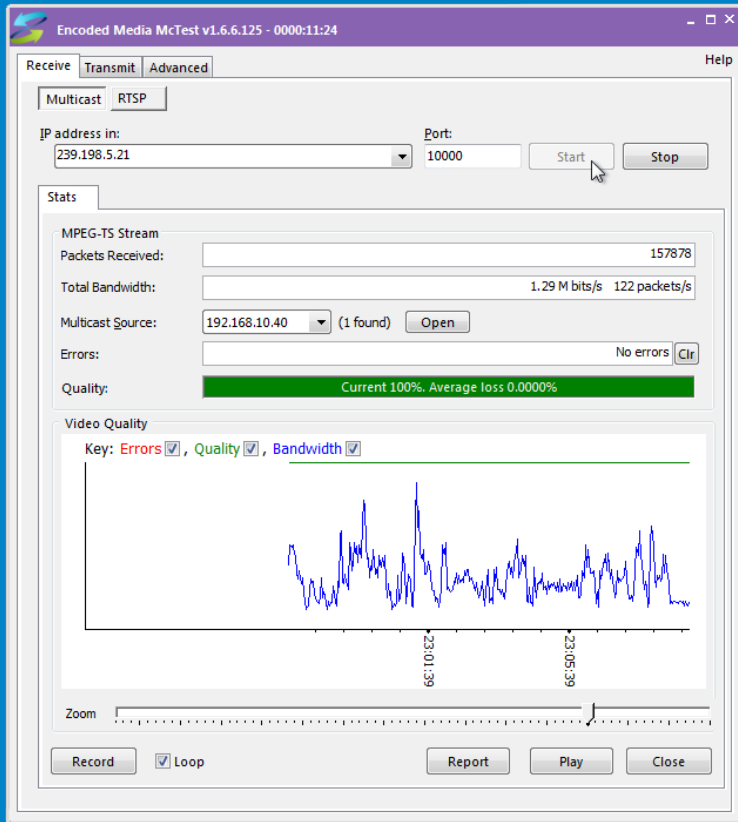
Making sure your network can give users the optimum viewing experience

IPTV Manager integrates with Encoded Media's popular multicast testing tool, McTest. This enables network administrators to see a quality graph of any transmitted network streams.

To open McTest and check the stream quality of a channel:

1. Select a target box individually from the list
2. Right-click on the highlighted entry in question
3. Choose **Tools** from the pop-up menu, then **Test Stream**

McTest will be launched and the stream analysed.



What you're hoping to see is that the green Quality bar in the centre of the screen reports 100%.

Problems with the stream will be highlighted on the graph and in the Errors field.

In the event you see errors, this is an indication that your network is either dropping packets or that the TV or satellite signal reception is poor (McTest monitors the MPEG-TS continuity counter and can see when source packets are missing).

For more information on how to use McTest to diagnose streaming problems on your network, please see Encoded Media Knowledge Base articles at support.encodedmedia.com

IP address

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Location

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Status

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Channel

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The screenshot shows the 'Encoded Media IPTV Manager' application window. The left sidebar contains a navigation menu with items: Overview, Set Top Boxes, Explore by Location, Explore by Server, Groups, Marketing (highlighted with a mouse cursor), Video Libraries, TV Servers, Channels, and Recordings. The main area displays a table of IPTV data. Above the table are tabs for 'All (828)', 'Active (828)', 'Warnings (47)', and 'New (1)'. The table has columns: IP, Location, Status, Channel, Volume, Last Seen, Resolution, and Network. The status bar at the bottom indicates 'Version 1.2.1.294', '7 devices, 7 selected', and 'Running'.

| IP | Location | Status | Channel | Volume | Last Seen | Resolution | Network |
|---------------------|---------------------------------|-------------|--------------|--------|---------------------|-------------|-------------------------|
| 10.95.16.232 (DHCP) | UK/Bath/Hampshire/01/H1S114 | Playing | BBC News | 100 | 2014/10/26 20:51:53 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.16.93 (DHCP) | UK/Bath/Hampshire/01/H1S064 | Playing | BBC News | 100 | 2014/10/26 20:51:59 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.12.167 (DHCP) | UK/Bath/Wiltshire/01/W11001 | Transiti... | Bloomberg UK | 82 | 2014/10/26 20:52:20 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.11.88 (DHCP) | UK/Bath/Wiltshire/01/W21030 | Playing | Sky News | 35 | 2014/10/26 20:52:00 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.10.68 (DHCP) | UK/Bath/Wiltshire/01/W21110 | Playing | Bloomberg UK | 0 | 2014/10/26 20:51:50 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.6.107 (DHCP) | UK/Bath/Hampshire/00/Print Room | Playing | ITV1 London | 97 | 2014/10/26 20:52:00 | 1080p - UK | Auto Full Duplex 100... |
| 10.95.4.54 (DHCP) | UK/Bath/Interactive | Playing | BBC News | 52 | 2014/10/26 20:52:07 | PAL SD - UK | Auto Full Duplex 100... |

Volume

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Last Seen

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Network

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