

## > MediaStar Wireless 'Live' Streaming

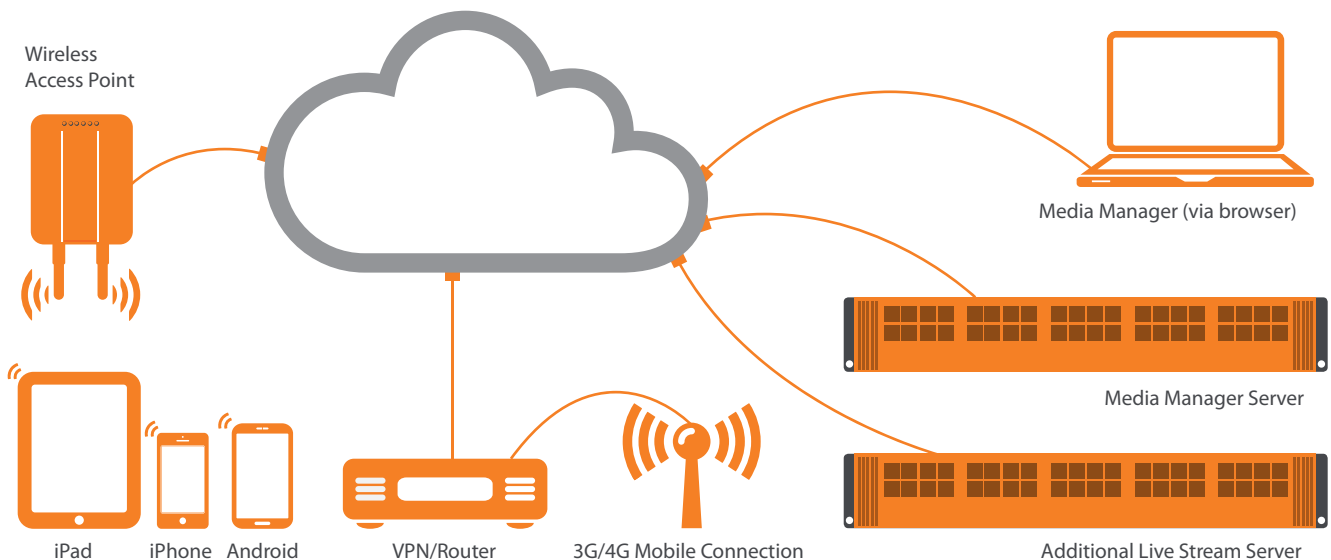
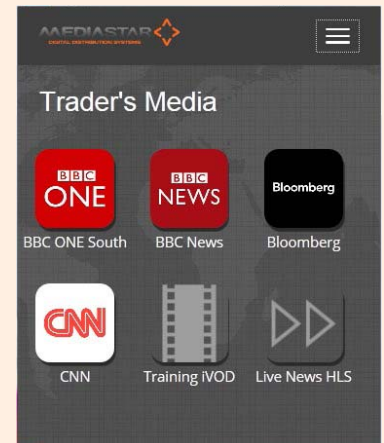
Ensure important 'Live' TV and A/V feeds are accessible to all your staff with real-time 'Live' Streaming to their hand-held wireless iOS and Android tablets and phones. MediaStar 'Live' Streaming is an easy way to achieve this using your corporate wireless network infrastructure. When your staff are further afield, let them log-on via a 3G/4G phone connection and access your important live streams remotely.

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- ▶ Stream 'Live' feeds to portable wireless devices including iPads, iPhones, and Android phones and tablets
- ▶ A wide range of TV feeds and A/V inputs can be scaled and encoded into real-time HLS streams with MediaStar Encoders
- ▶ An Encoder passes its segmented HLS stream to a MediaStar 'Live' Streaming server which buffers it and then serves it to large numbers of client devices on-demand
- ▶ Buffered live feeds support client device live stream 'pause' and 'rewind' functions

- ▶ Client devices use MediaStar Media Portal pages to 'click and view' selected live streams and iVod content via your wireless network
- ▶ MediaStar Portal pages are easily configured in Media Manager and the Portal page URL can then be distributed to selected user groups
- ▶ MediaStar Encoders can be rack mounted for headend installations or 'standalone' for portable stream capture via the LAN



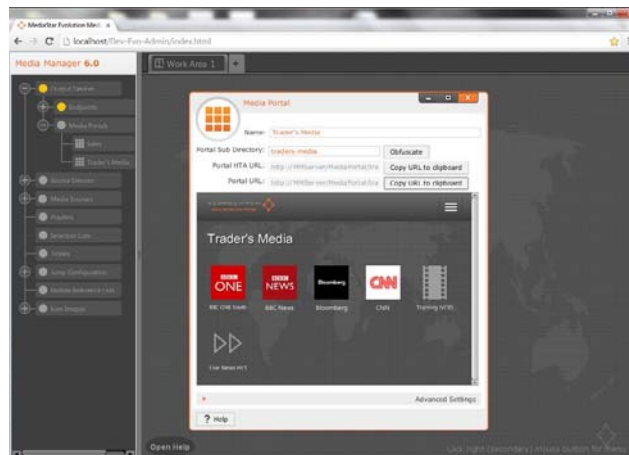
## > MediaStar Wireless 'Live' Streaming

Take your 'Live' video and audio sources and feed them into a MediaStar HLS enabled Encoder. These can be a variety of 'off-air' or Cable TV feeds, or they can be your own internally generated content from a PC screen. The encoder can be configured to down-scale large incoming images up to 1920 x 1200 pixels so they are the correct resolution for viewing on small mobile devices. The images are then H264/AAC encoded and segmented, and then sent to the MediaStar 'Live' streaming server.

The 'Live' Streaming server can be configured to store the last 'n' minutes of each 'Live' feed (e.g. 10 minutes or 20 hours), up to the total HDD capacity constraints the system administrator has specified. The 'Live' Streaming server constantly stores the latest incoming stream data to hard disk and deletes 'old' stream content that has gone beyond its specified storage time.

The MediaStar Media Manager software is used to configure a client Media Portal web page that contains 'clickable' icon links to any of the 'Live' streams on the Streaming server or iVod content (where an iVod server is present in the system). The 'Live' stream icons are simply dragged from the Media library and dropped onto the new Portal page. The branding and background of the portal page can be customised with appropriate corporate images and the Portal page is then 'published' on the Media Manager HTTP server with a single mouse click.

The system administrator then distributes the Portal page URL to the appropriate users, who then use their mobile device browser to view the Portal web page. Clicking on the 'Live' stream icon in the Portal page will start up the built-in HLS stream viewer, and users can then watch the 'Live' news feeds. If the users touch the picture, the mobile device brings up on-screen controls that allow them pause, play, skip forward or rewind through the Live stream (backwards - up to the stored stream time limit configured by the system administrator).



For small scale 'Live' Streaming systems, the first MediaStar 'Live' stream server can be co-hosted on the Media Manager HTTP server. As the number of 'Live' streams and the number of client devices increase, the Live streaming server can become data throughput limited. At this time additional 'Live' Streaming servers can easily be added to the system to handle extra streams or higher numbers of wireless client devices.

The MediaStar Media Portal page is licensed on a cost per seat/device basis. There is also an additional license fee when extra 'Live' Streaming servers are added to your system.

MediaStar 778 and 779 encoders should be purchased with HLS encoding enabled. A software upgrade for HLS encoding is available for any encoders that you already own. Please contact your reseller or Cabletime for further details.

### Product Specification

#### Client OS/browser requirements

iOS V4 onwards, Safari browsers  
Android V4.2 Jellybean onwards, Chrome and Firefox V27 browsers  
(Javascript must be enabled on all device types)

Corporate Wifi networks should be managed for seamless Wifi cell hand-off and have sufficient streaming capacity (with QoS) for the number of connected client devices.

#### 'Live' Streaming server OS requirements

Windows XP, 7 (32/64 bit)  
Windows 2008 R2 server (32/64 bit) 779-S-HLS

#### Companion models and accessories

462	Media Manager software with 100 780 DMD License
467-xx	Media Manager software additional license for xx 780 DMD units
469	MediaStar 'Live' Streaming server software
470-xxx	MediaStar Media Portal page software license for xxx clients/devices
700-462	Dell R210 1U Rackmount server with Media Manager software pre-installed with a 100 780 DMD license
700-469	As 700-462 with 'Live' Streaming server software pre-installed
778-S-HLS	MediaStar HLS rack mount Encoder
779-S-HLS	MediaStar HLS standalone Encoder
778/9 HLS	Upgrade