

# Webcasting system

## ***Functionality:***

4Forum™ is a webcasting system which records and broadcasts interactive MPEG-4 presentations to desktop and set-top box viewers over IP network connection. The system offers live remote viewing and on-demand replay of information's using streaming audio and video over the Internet. Also the information can be saved in the server for later playback. Customized software is used to create MPEG-4 design templates to define the playback environment. 4Forum makes use of MPEG-4 Systems to deliver all the elements of the presentation – video, audio, screen capture, text, and images as part of the multi-track MPEG-4 stream

Webcasting allows corporations to self-produce live and on-demand Webcasting events such as executive communications, human resource broadcasts, and market announcements. Using VS Webcasting, organizations can schedule and deliver interactive, live Webcasts that include audio and video synchronized with slide presentations and documents, as well as audience polls and questions.

## ***System Requirements***

The following are the minimum system requirements to run the webcasting application

- PC running Microsoft Windows 98/NT/2000/XP
- 32+ MB RAM
- 120GB local storage
- CD-RW
- Sound card with speakers or headphones
- Windows Media Player\* 7 or higher.
- Connection to the Internet
- Web browser

## ***Technology used:***

- MPEG-4 video coding technique
- Unicast and multicast streaming

## ***Bottlenecks***

- Latency
- Internet connection speed
- Synchronization
- Number of users supported

## ***Important specification details***

**System profile:** MPEG-4 Advanced2D

**Video profile:** MPEG-4, ASP levels 0-5, SP levels 0-3  
(100 kbps to 5 Mbps)

**Audio:** MPEG-4 Advanced Audio Coding, 2 channels

**Video input:** S-Video, analog composite

**Audio input:** Analog balanced (XLR); analog unbalanced (RCA)

**VGA:** VGA-D type connector; supported RGB modes:  
640 x 480, 800 x 600, 1024 x 768, 1600 x 1200

### ***Features for improvement/other products***

The webcasting system can be improved with better Quality of service requirements. There are several webcasting products available in the market like products from Arrakis Systems , RDS , BCC , AEV and DBD.

### ***References***

1. <http://envivio.com/products/4forum.html> - Product information
2. <http://broadcast.rell.com/webcasting.asp> - Webcasting companies