

Automated Emergency System

Announcement Video System

KEY FEATURES

- Analog and Digital Automated Emergency Public Announcement Video System
- Turn-key IPTV Solution with Embedded Media Encoder and Streamer
- High-Volume Multicast and Unicast Streaming
- Conditional Access for Subscribers
- Multiple Video/Audio Codec Support (with Transcoding)
- Advanced Hardware Configuration
- Optional Analog and Digital MPEG4/H264 Encoding Card /MONO Audio
- Flash Player Streaming Support
- Optional Carrier Capacity

Analog and Digital Automated Emergency Public Announcement Video System

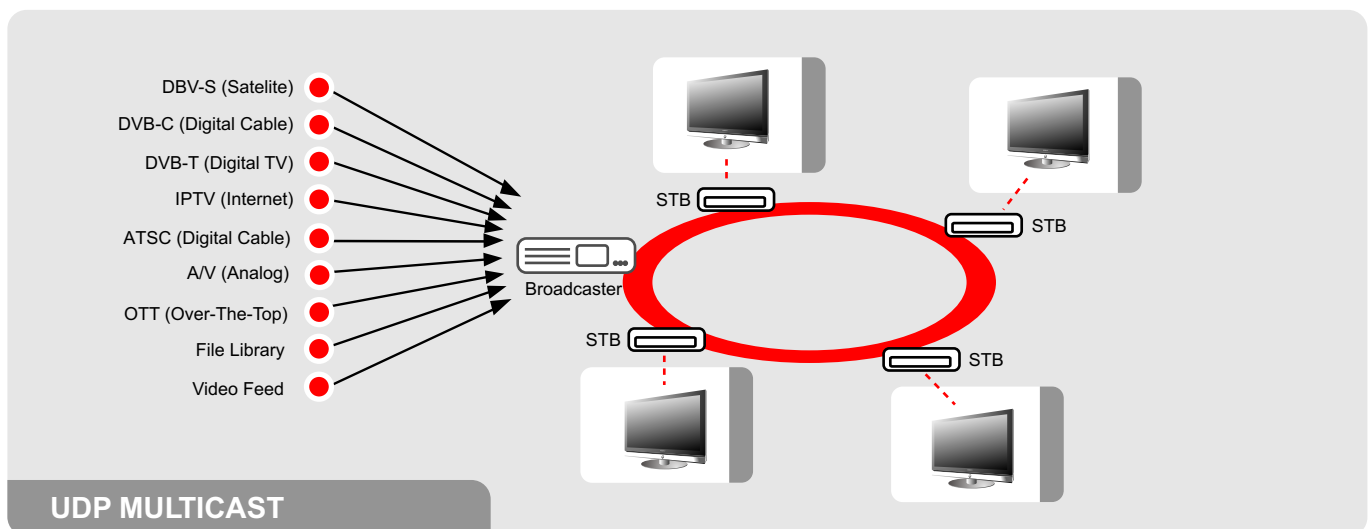
SysMaster Broadcast Emergency Public Announcement solution offers automated broadcast services upon execution of specialized video trigger events. For example, if an emergency video feed is detected, the system will automatically turn-on all managed STB devices and attached TV sets and tune them to a predefined IPTV Emergency channel. This will allow to start public announcement broadcasting automatically if a camera is turned on, or a specific video feed is started.

Problem:

Educational institutions and hotels need to implement Broadcast Emergency and Public Announcement systems that will turn-on automatically if a video feed is initiated and switch all underlying STB devices to the emergency channel.

Solution:

SysMaster Broadcaster Emergency PA Solution allows real-time broadcasting of live and per-recorded video stream upon trigger event. The trigger event is imitated by detection of video stream via input such as TS IP, Analog feed, or HDMI digital feed. The function is a license based software that runs on the Broadcaster product line.



Turn-key IPTV Solution with Embedded Media Encoder and Streamer

Broadcaster is the only device in the industry that is a turn-key IPTV solution including an encoder and a streamer. The encoder is used to capture IPTV media and the streamer is used to send the data feed to the end subscriber. This allows Broadcaster to be used as a stand-alone server in IPTV projects that do not require complex billing or user management functionality.

High-Volume Multicast and Unicast Streaming

Broadcaster is the only IPTV gateway in the industry that supports both multicast and unicast streaming to allow LAN and WAN customers to be serviced concurrently. The server will accept individual subscriber Internet connections as well as local area network connections. It supports TCP protocol for unmatched service quality and reliability that is accomplished by the utilization of error correction mechanism. In addition, the server has a built-in stream cache that will recover from temporary feed failures. In unicast channel streaming, Broadcaster can service up to 200 concurrent subscribers, while in multicast mode the number of concurrent subscribers is much higher.

Conditional Access for Subscribers

Broadcaster includes a Conditional Access for subscribers to simplify IPTV implementation. The server can filter our subscribers based on MAC address, IP address, and Subscriber balance. The system can also block subscribers from accessing the media content. In addition, the server includes a DoS (Denial of Service) prevention to ensure that malicious DoS attacks are prevented.

Multiple Video/Audio Codec Support (with Transcoding)

Broadcaster provides support for a large number of codecs. The server can accept MPEG2, MPEG4, H.264, WMV, MP3, FLV, ASF, MMS and other formats and can output to MPEG2, MPEG4, H.264, WMV, MP3, FLV. Generally the Broadcaster is not intended to do transcoding (codec conversion), but if required it can do conversion for Standard Definition Video format. Unfortunately, for High Definition Video formats transcoding is not possible, so the Broadcaster will only capture and re-transmit HD video from satellite or cable feed. The use of Broadcaster Carrier is required for codec conversion and transcoding.

Advanced Hardware Configuration

Broadcaster has three hardware versions. The hardware is specifically designed to provide optimal performance for IPTV purposes and video streaming. The supported types of Broadcasters are: Broadcaster; Broadcaster Carrier; Broadcaster Blade. Broadcaster is a basic unit that will only do protocol conversion but will not perform any transcoding. Broadcaster Carrier is a high-performance unit that will do transcoding of up to four (4) SD channels or up to two (2) HD channels. Broadcaster Blade will accept up to 16 analog video/audio feeds and encode them into H.264 codec.

Flash Player Streaming Support

The server provides advanced Flash Streaming support to allow Flash players to play H264/MP3 streams. This makes streaming environment independent and allows all advanced HTML browsers to play the stream in real-time.

Optional Carrier Capacity

Broadcaster Carrier supports up to 4 channel encoding in H264/MPEG4 mode with a single DVB digital input. This is a new addition to the popular product for high capacity processing in a single 1U case.