TVLive Mobile Broadcaster

Universal Multicast and Unicast IPTV Solution

Features

- ▪ **Inexpensive replacement for Mobile TV Station equipment**
- ▪ **Advanced H264/MP3 encoding that supports D1 digital resolution**
- ▪ **TVLive Station optimized hardware design**
- ▪ **TVLive Studio - advanced digital stream receiver**
- ▪ **Advanced 3G/Wi-Fi (802.11a/b/g/n) uplink stream management**
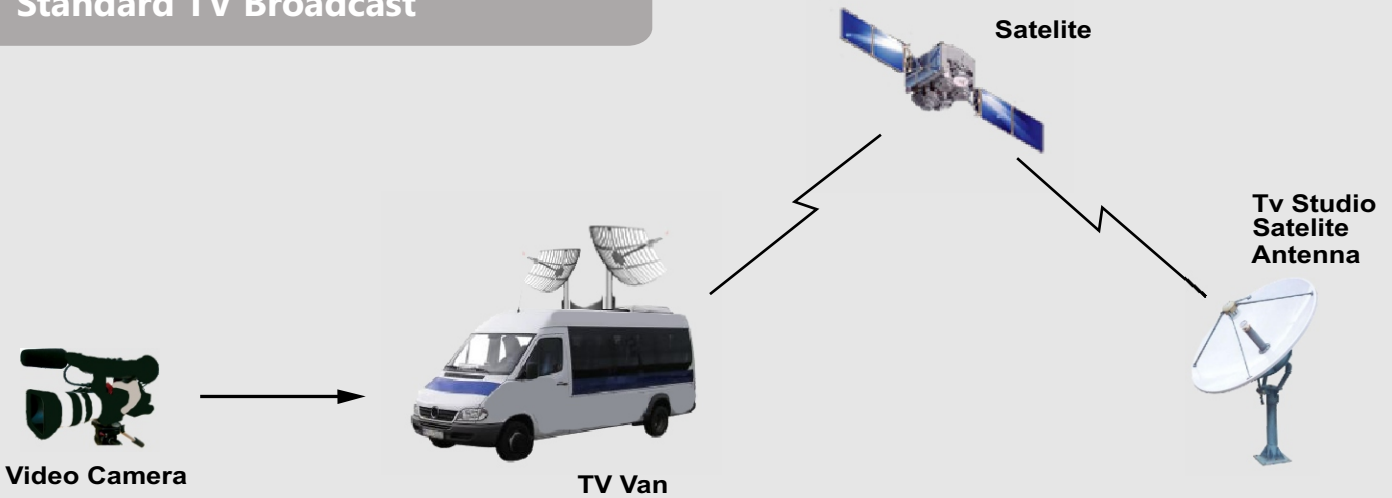- ▪ **Advanced multi-session streaming server**

Problem

TV Station requires mobile solution for mobile broadcasting to replace their Mobile TV Station. The solution should be portable, baterry powered, and provide Standard Definition Video and Audio feed to the central TV Office in digital format.
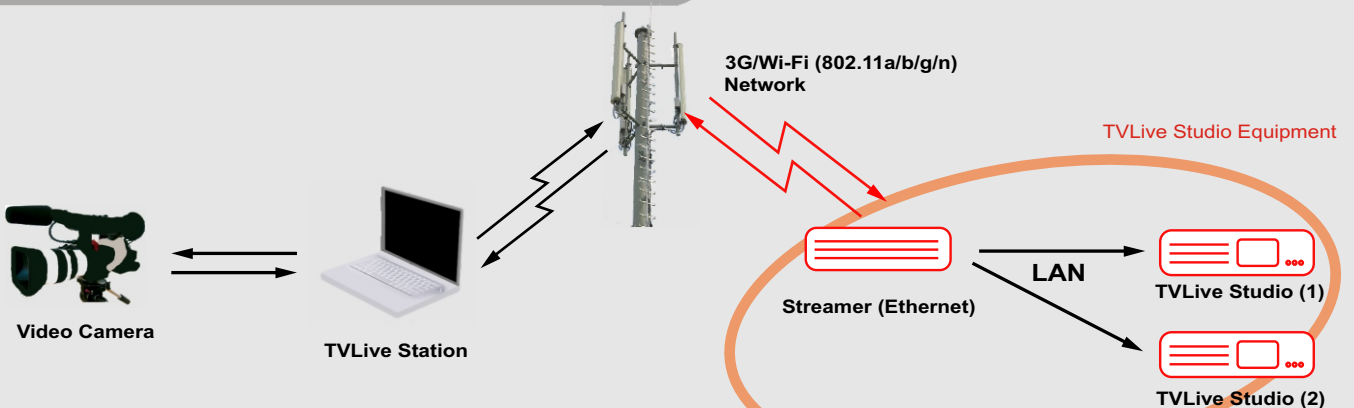
Solution

SysMaster Corporation offers LiveTV Mobile Broadcaster to accomodate live TV streaming using LiveTV Station, Streaming Server, and LiveTV Studio hardware. The streaming is done in real-time using H264 Video encoding and MP3 audio encoding. The uplink is using 3G or the build in WiFi 802.11n/b/g/a high-capacity mobile interface with 600kpbs uplink data stream.

Standard TV Broadcast

Satelite

Tv Studio Satelite Antenna

Video Camera

TV Van

TVLive Mobile Broadcast

3G/Wi-Fi (802.11a/b/g/n) Network

TVLive Studio Equipment

Video Camera

TVLive Station

Streamer (Ethernet)

LAN

TVLive Studio (1)

TVLive Studio (2)

Inexpensive replacement for Mobile TV Station equipment

SysMaster offers a complete Live TV streaming solution for low price that takes advantage of the newest video processing and streaming technology. The company offers a TVLive package that has 3 components and uses 3G/Wi-Fi uplinks for complete mobile operation.

Advanced H264/MP3 encoding that supports D1 digital resolution

The TVLive Station uses built-in hardware H264 Encoder that supports high video quality with low power and bandwidth consumtion. The H264 encoder supports Standard Definition video with RCA input that can accept feed from analog cameras and other devices.

TVLive Station optimized hardware design

SysMaster offers optimized hardware design for its TVLive Station hardware. The device is an enhanced laptop with built-in H264 encoder and battery pack that can function in transmit mode for up to 8 hours. The device allows supports 3G USB modem and built-in Wi-Fi modem. The total TVLive Station weight is less than 1 kilogram (2 pounds).

TVLive Studio - advanced digital stream receiver

SysMaster Corporation offers an advanced digital stream received called TVLive Studio. The device is placed into the central office of the TV station and is hooked up to the video and audio equipment using digital HDMI or analog RCA interface.

Advanced 3G/Wi-Fi (802.11a/b/g/n) uplink stream management

SysMaster Corporation offers an advanced TVLive solution that uses 3G or Wi-Fi uplink interfaces with low bandwidth consumtion. The usually average traffic for Standard Definition streams is around 600kbps – bandwidth that is commonly supported by most mobile operators. This allows complete mobility and roaming support for mobile TV transmission.

Advanced multisession streaming server

SysMaster offers an advanced multisession streaming server that allows one TVLive Station to provide digital stream feed to multiple TVLive Studio devices. The Streaming server supports access control and authentication algorithms to provide professional and fault-tolerant services.

Advanced Hardware Configuration

TVLive Mobile Broadcaster has three hardware components. The hardware is specifically designed to provide optimal performance for IPTV purposes and video streaming.

TVLive Station *

Intel Dual Atom Laptop 11"
512MB RAM
4GB Flash
H264/MP3 Hardware Encoder
Build in Wi-Fi 802.11b/g/a/n Adapter
3G/HSPA High-Capacity Modem **
High-Capacity Battery

TVLive Streamer

Dual Core Atom CPU
200W Auto-Switching PSU
1GB RAM
4GB Flash
1 PCI Slot
6 USB Slots
1 VGA Slot
1GB Ethernet Port
1U Case

TVLive Studio

Tornado M55 HD Receiver
256 MB RAM
256 MB Flash
HDMI Port
USB Ports
S-Video Port
Analog Audio/Video Port
Remote Control

* Technical Specifications

   *   3G Modem
** Optional