

Streaming Format Converter and Media Gateway

Features

- Converts Internet streaming video to MPEG-2 TS over UDP
- Transport live video over the Internet using SRT
- Generate media segment and manifest files for HLS and MPEG-DASH Streaming
- Supported input streaming protocols:
 - HLS (HTTP Live Streaming)
 - RTMP (Flash media)
 - RTSP
 - TS over UDP
- Supported output streaming protocols:
 - MPEG-2 TS over UDP
 - HTTP Live Streaming (HLS)
 - MPEG-DASH
 - RTMP and RTSP
 - Secure Reliable Transport (SRT)
- Supported file input formats:
 - TS, mp4, MKV, AVI, MOV
- Supported video and audio codes include:
 - AVC/H.264, HEVC/H.265 video formats
 - AAC, AAC plus, and AC3 audio formats
- HLS streams:
 - Support multi variant video streams
 - Support AES-128 stream encryption
- MPEG-DASH stream:
 - Support multi variant video streams
- SRT streams
 - Support stream encryption
- Support video transcoding (requires Nvidia Quadro GPU board)

- A single system can generate up to 25 HD or 40 SD output UDP streams simultaneously (depending on hardware configuration and transcoding setup)
- A single output stream can be generated from multiple input source based on time schedule
- Supports both live and VOD input streams
- Input and output stream error detection, including:
 - Loss of input or output streams
 - Loss of audio or video components in input streams
 - Black frame and freeze detection
- Dashboard display of server status and error alarms
- Comparison display between input and output streams
- Display video thumbnails for all output streams
- Generate alarms when errors are detected or the system fails to send output streams
- All errors are logged, and reports can be automatically generated and exported
- Error alerts can be communicated via SNMP traps, e-mail, SMS and audio
- Configurable alarm triggers based on the severity of errors.
Configurable alarm intervals for repetitive errors
- Records all alarms occurred in the database, including start time, end time, alarm type, alarm objects, etc.
- The gateway client application can be run on a remote computer on the same LAN
- A single server can be accessed by multiple clients and vice versa
- Optional web server module for remote control of Gateway server using an Internet browser