BroadStream SOLUTIONS

SCREEN SYSTEMS


## End-to-End, Compressed IP Streaming Prepares You for What's Next

**Streaming and OTT have grown faster than anticipated thanks to COVID-19.**

**More channels are now streaming and new channels are streaming only.**

**Professional IP-based broadcast equipment is on par with SDI based gear so it's now possible to create an IP only solution quicker and more cost-effective than a similar SDI installation.**

**As format resolutions increase from HD to UHD to 4K, 8K and beyond, it will be easier for IP-based systems to accommodate these higher resolution files because SDI has limitations that make it much more challenging and expensive.**

**OASYS has offered a hybrid SDI/IP solution for several years and we are now pleased to introduce a complete, end-to-end, compressed IP playout solution that enables new, greenfield IP installations, Disaster Recovery solutions and an enhanced hybrid solution to make the transition to IP easier.**

**OASYS IP is our next generation, integrated playout solution. Designed to improve reliability and increase efficiency. Our comprehensive automation and tailored workflows are customizable, flexible and scalable to meet your specific needs and budget today and into the future.**

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# Compressed IP = More Flexibility, Agility and Adaptability

## Benefits to Broadcasters and Content Providers:

- OASYS-IP is compressed IP from end-to-end or ingest to playout eliminating the need for SDI audio/video switches or expensive video boards necessary for SDI delivery over the air or via cable.
- OASYS UI is virtually the same as SDI; no complex training needed.
- Workflows are more efficient and productive.
- Time-Shift and Delay Processing available as an option.
- On-Air stream updates do not interrupt playout.
- Easily edit on-air event graphics, audio mapping or metadata.
- C.O.T.S. architecture reduces capital expense and standardizes hardware to eliminate proprietary SDI hardware and multiple support contracts.
- High performance XML architecture eliminates slow response and annoying database rebuilds.
- MPEG2 Transport Streams in unicast or multicast delivers a “standards” approach to file management and playout.
- Supports multiple audio tracks for tagging, shuffling and mixing.
- GPU accelerated H.264 encoding/decoding minimizes CPU usage.
- Redundancy Manager monitors playout system health and provides intuitive, automatic decision-making for channel failover and re-routing to put the back-up channel on air. (option)
- Multiple redundancy options: 1+1, N+1, 1+N and N+M architectures.
- Automatically synchronize playlist changes on multiple systems
- Join-in-Progress auto-adjusts timing and preserves commercial revenue.
- Automated Hot Starts add more schedule time.
- Ad insertion triggers:
    - SCTE-104 to SCTE-35 conversion on output.
    - SCTE-35 detection on IP input

VIDEO ENCODER/DECODER
- MPEG4 AVC (H.264) SD, HD, UHD

AUDIO ENCODER/DECODER
- AAC (MPEG-2 & MPEG-4)
- MPEG-1, Layer II
- AC3 Dolby Digital; Dolby +

INPUT/OUTPUT OPTIONS
- SD, HD/SD, HD & UHD

SCALING ASPECT RATIO CONVERSIONS
- IP input
    - SD > HD; HD < SD
- IP output
    - SD>HD; HD>SD; HD<UHD

INPUT STREAM—UDP
OUTPUT STREAM—UDP/RTP

SPTS-Single Program Transport Stream

MPTS-Multiple Program Transport Stream with selectable PMT

MAKER delivers SPTS or MPTS IP compressed capture and decoding to all standard file formats

CAPTIONS & SUBTITLES
- Open, Teletext, OP-47, DVB, EIA 608 & 708 captions.
- DVB Subtitle processing, multiple languages, separate stream

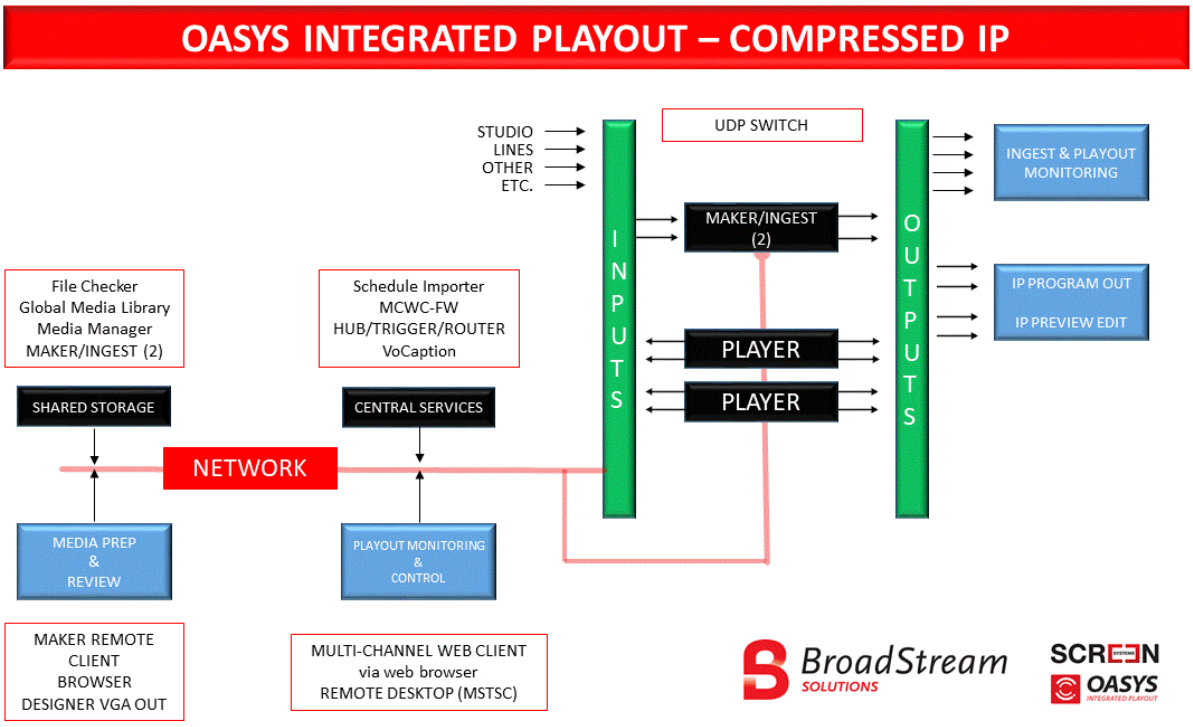
OASYS provides stand-alone IP compressed or Hybrid IP/SDI workflows to support transitions and ramp-up.

## More Benefits to Broadcasters and Content Providers:

- Support for BXF and major traffic vendors.
- Native playback of Vigor-PitchBlue and Extreme Reach streamlines workflow by eliminating transcoding.
- CompuSat control for both scheduled and manual satellite recordings.
- Integration with multiple 3rd party MAM systems.
- Support for multiple audio languages, subtitles and true Unicode support.
- Live and file based Automated Captioning and Subtitling via VoCaption optional software module.

## Advanced Graphics capabilities:

- Multi-layer, metadata driven graphics with Picture-in-Picture, PiP processing
- Branding, Lower Thirds and Complex Graphical Templates speed up creation.
- Real-time data harvesting of news, headlines, weather, sports traffic, school or business closings from




Separate processes in OASYS Player provide “self-healing” or recovery if an IP stream is corrupted.

## Upcoming Releases & Road Map

- Multi-branding graphic output for each individual stream scheduled via the playlist
- SCTE-128 closed caption encoding
- SMPTE 2110 compatibility
- NDI Input and Output streaming