InStream Splice Technical Specifications

Mediaware

Host Platform	
Operating System	64 bit Linux
Form Factor (typical)	Commercial-Off-The-Shelf (COTS) server
Server Hardware (recommended)	Industry standard server with a minimum of: • 1 TB of RAID 5 data storage & mirrored OS Drives • 2 x 6 Core Intel® Xeon® E5-2623 v3 CPU's • 16 GB memory *Note: Hardware with specifications equivalent to the server above or better is required.*
Supported ASI Cards	DekTec DTA-2144, DekTec DTA-2145 (compliant with EN50083-9)
Supported GPI Cards	Adlink LPCIe 7230

IP Support	
Ethernet	1000BaseTX (provided by host hardware)
Connector	RJ45, 4 ports recommended (provided by host hardware)
Redundancy	NIC Teaming IGMPv2 and v3 SSM

Redundancy/Monitoring	
1+1	Server redundancy can be setup for Active/Active configuration
SNMP	SNMP v1 Traps
Failover	Input smart switching, dual output

Storage	
Embedded Video Server	Removes requirement for dedicated streaming server by storing file based assets locally
Storage	Embedded storage or NAS expansion as required

Formats	
Inputs	MPEG-2 Transport Stream (MPTS or SPTS) ASI or UDP (Multicast or Unicast UDP)
Video	MPEG-2 SD/HD MPEG-4 AVC (H.264) SD/HD/UltraHD/4K HEVC (H.265) SD/HD/UltraHD/4K
Audio	MPEG-1 Layer I and II (Musicam) MPEG-2 Layer I and II Dolby Digital (AC-3) AAC-LC HE-AAC v1 & v2
VBI	Teletext Insertion (Closed Caption Weaving) Teletext main channel pass-thru US Closed Caption Insertion DVB subtitles
Output	MPEG-2 Transport Stream (MPTS or SPTS) ASI or UDP (Multicast or Unicast UDP)
Transport Stream	Statistical multiplexing support (splicing and pass-through)

Splicing	
Modes	TRUE frame accurate splicing (does not require I-Frame boundaries or head-end I-Frame insertion) CBR, VBR and statistical multiplex support Stream-to-stream (live program to live program) File-to-stream (advert to live program) File-to-file (advert to advert) Stream-to-file (live program to advert) Embedded file asset streaming server MPEG video playout server
Services	Up to 20 HD services Up to 40 SD services Service rates up to 50Mbits/s

Enhanced capabilities	
Logo insertion	High quality insertion of graphics, text and crawls
Time delay	High accuracy time-shift functionality
Loudness control	Audio loudness control to meet industry standards (FreeTV OP59, CALM ATSC-A85, EBU R128) or custom profiles

Advanced Ad Insertion with InStream Splice

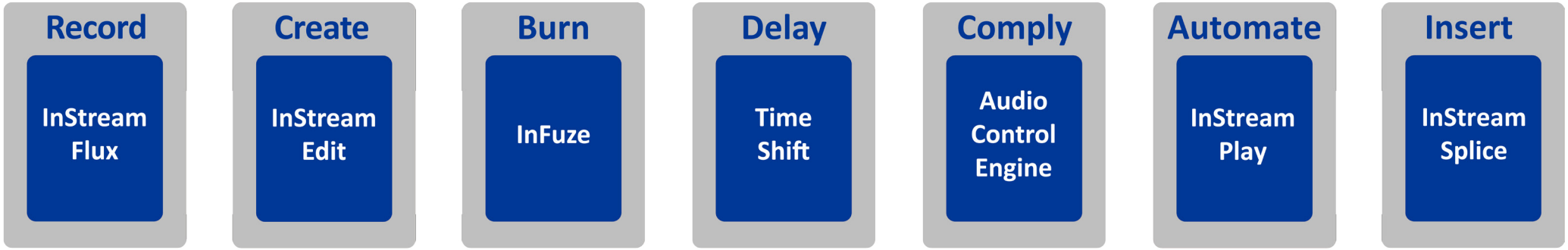
TV looks better with InStream

InStream Splice is a scalable TV channel ad insertion and play-out server that improves end-to-end channel quality by leveraging the efficiencies of MPEG for ASI and IP networks. A multi-channel software solution, InStream is a splicer that combines the discreet functions of video switcher, video server, ad and logo inserter embedded into a non-proprietary form factor. All functions operate frame accurately on MPEG-2, H.264/AVC and H.265/HEVC, supporting all resolutions including Ultra HD/4K.

InStream can add commercials, logos, inject live program content and manage different time zones with support for emergency alert systems (EAS). Addressing the digital challenges of cable, satellite, terrestrial and IP broadcasters by performing complex playout tasks in a compressed mode, the InStream suite provides a balance of performance and scalability in a feature-rich software solution.

Key advantages of InStream Splice

- Significant cost advantage by using off-the-shelf servers
- IP workflows reduce running costs compared to baseband systems
- Designed to fit into your facility
- Functional, easy to deploy and expand
- Intuitive Web GUI allowing easy operation and control



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