

High-Performance and Reliable Splicing for Ad and Local Program Insertion

vDCM Splicer is a pure software solution designed for high-reliability, high-performance splicing of live digital signals. The platform covers myriad applications, including insertion of local commercials and switching to a linear channel's regional version. Equipped with unique back-to-back splicing capabilities to/from multiple sources, vDCM Splicer is ideal for advanced dynamic replacement of commercials in a row with ads from different sources. The solution's low latency, frame accuracy, and exceptional splicing success rate, together with ease of configuration and high availability, enable swift deployment and give you peace of mind for mission-critical operations and revenue-boosting opportunities.

Key Functionalities

Endless capabilities for new revenue streams

- Maintains back-to-back splicing to/from multiple sources
- Supports splicing between different video resolutions
- Manually and automatically triggers events through SCTE-35 markers
- Inserts SCTE-35 markers in the output stream for downstream splicing
- Complies with CableLabs Event Signaling and Management API (ESAM) for stream conditioning
- Enables defining of advanced component tracking rules for automatic matching of video, audio or data PIDs
- Comes pre-integrated with all leading ad servers

Unmatched performance

- Supports up to 300 simultaneous splices
- Carries out low-delay and frame-accurate splicing
- Enjoys unparalleled splicing success rate

Operational efficiency and flexibility

- Delivers splicing success rate reports
- Ensures high availability for mission-critical service delivery thanks to multiple redundancy option support
- Integrates with Synamedia's vDCM Multiplexer and vDCM Encoder to enable splicing within statmux pools
- Flexibly deploys as software appliance or in the cloud

Technical Advantages

- Low delay and frame-accurate seamless splicing
- Support of MPEG-2 and H.264 video formats
- Back-to-back multiple ad splicing
- SCTE-30 splicing API support
- SCTE-35 marker insertion capabilities
- Splicing success rate reporting
- High availability
- Flexible deployment model





Digital Program Insertion Dashboard

Product Specifications

I/O Interfaces	
Ethernet	• RJ-45, 100BASE-T Ethernet and 1000BASE-T Ethernet
Input Protocols	• ASI • MPEG-2 TS (MPTS or SPTS) over IP/UDP, and IP/UDP/RTP up to 10 Gig-E
Output Protocols	• ASI • MPEG-2 TS (MPTS or SPTS) over IP/UDP, and IP/UDP/RTP up to 10 Gig-E
Supported Video Formats	• H264 • MPEG-2
Supported Audio Formats	• MPEG-1 Layer II • AC-3 • AAC
Capabilities	
Triggering	• SCTE-30 splicing API • SCTE-35 marker insertion • CableLabs Event Signaling and Management API (ESAM)
Marker Insertion	• Insertion of SCTE-35 markers in output stream for downstream splicing
Stream Conditioning	• Conditioning of Adaptive Transport Stream (EBP insertion) for streaming applications
Other Features	• Back-to-back splicing • Frame-accurate splicing • Low delay • Advanced component matching rules for automatic matching of video, audio or data PIDs • Splicing between different video resolutions • Integrates with Synamedia's vDCM Encoder and Multiplexer to enable splicing within statmux pools • Advanced splicing success rate reporting dashboards
Operations	
Redundancy	• 1:1 IP interface backup • IP port mirroring • Input service and transport stream redundancy • Hitless merge for MPEG-2 transport stream input and for SMPTE2022-6 input (SMPTE-2022-7) • User-configurable triggers • 1:1 and N:M node redundancy

Operations (continued)	
Monitoring	<ul style="list-style-type: none"> • Integrated Grafana dashboards • Elastic Search, Logstash and Kibana (ELK) stack support • Alarm notifications including SNMP traps • Syslog • Easily controlled local web GUI • VSM support for line-up configuration, resource pool redundancy for hybrid setups (mix of hardware DCM and software Synamedia DCM), capacity modelling, and centralised monitoring • Fully documented open API allowing third-party component integration
Configuration GUI	<ul style="list-style-type: none"> • Drag-and-drop interface for defining • Alternate services to be spliced • Triggering rules • Component tracking rules • Component merging rules • Triggers and switch-over rules configuration for service redundancy • Optional centralised management with Synamedia's video services manager (VSM)

Platform Support and Compatibility

Deployment	
Appliance	See details below
Private Cloud	Virtual machine, Docker container
Public Cloud	Multi-cloud supporting all major cloud providers

vDCM Appliance Chassis Specifications

Physical and Power	
Size	SFF chassis: 1.69 x 17.11 x 27.83 in, 4.29 x 43.46 x 70.7 cm
Weight	28.74lb/13.04 kg minimum, 35.86 lb/16.78 kg maximum
Power Supply	AC input 100-240 VAC
Consumption	800W (power supply) – 500W (for VN-Node XS)
Environmental	
Operating Temperature	50-95°F (10-35°C)
Storage Temperature	-40-140°F (-40-60°C)
Cooling	Smart array controller and seven fans
Operating Humidity	8-90% (non-condensing)
Operating Altitude	0 to 3,050 m (0 to 10,000 ft)
Regulatory Compliance	
Compliance	CE Markings per directives 2004/108/EC and 2006/95/EC
Safety	UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment -Safety -Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment -Safety -Part 1: General Requirements)
EMC Compliance	EN 55032:2015/AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55024:2010 +A1:2015 EN 61000-4-2:2009 EN 61000-4-3:2006 +A1:2008 +A2:2010 EN 61000-4-4:2012 EN 61000-4-5:2014 EN 61000-4-6:2014 EN 61000-4-8:2010 EN 61000-4-11:2004

Ordering Information

For ordering information, please contact your sales representative.

Services & Support

Synamedia provides a broad portfolio of services and support to increase your network's business value and return on investment. We take a customer-centric approach, aligning our level of support to your technological requirements and network complexity. That way, you can successfully operate our products and solutions to ensure that you achieve optimal performance throughout your network's life cycle.

Warranty & Contact Information

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About Synamedia Video Network Solutions

Synamedia's video network solutions enable media, web and pay TV providers to deliver pristine-quality broadcast and broadband video securely over any network to any screen. Anchored by the industry's most comprehensive processing platform and built with high-quality standards, our solutions ensure outstanding performance and reliability for over 1,000 customers worldwide. Synamedia's solution portfolio covers the entire video network chain – from distribution, through processing, to delivery – enabling you to offer outstanding value-added and personalised experiences while saving costs.