

# Carry Out High-Performance, Reliable Splicing for Ad/Local Program Insertion

Synamedia's vDCM Splicer is a 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, giving you peace of mind for mission-critical operations and revenue-boosting opportunities.

Leveraging cloud ad servers and ad servers in the ABR domain, vDCM Splicer enables the convergence of splicing in the streaming world.

## Key Functionalities

### Endless capabilities for new revenue streams

- Maintains back-to-back splicing to/from multiple sources
- Supports splicing between different video resolutions
- Conducts next-generation ad insertion (NGI) to enable convergence with ABR ad servers
- 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 a 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

# Product Specifications

## I/O Interfaces

Ethernet	<ul style="list-style-type: none"><li>• RJ-45, 100BASE-T Ethernet and 1000BASE-T Ethernet</li></ul>
Input Protocols	<ul style="list-style-type: none"><li>• ASI</li><li>• MPEG-2 TS (MPTS or SPTS) over IP/UDP, and IP/UDP/RTP up to 10 GigE</li></ul>
Output Protocols	<ul style="list-style-type: none"><li>• ASI</li><li>• MPEG-2 TS (MPTS or SPTS) over IP/UDP, and IP/UDP/RTP up to 10 GigE</li></ul>
Supported Video Formats	<ul style="list-style-type: none"><li>• H264</li><li>• MPEG-2</li></ul>
Supported Audio Formats	<ul style="list-style-type: none"><li>• MPEG-1 Layer II</li><li>• AC-3</li><li>• AAC</li></ul>

## Capabilities

Triggering	<ul style="list-style-type: none"><li>• SCTE-30 splicing API</li><li>• SCTE-35 marker insertion</li><li>• CableLabs Event Signaling and Management API (ESAM)</li></ul>
Marker Insertion	<ul style="list-style-type: none"><li>• Insertion of SCTE-35 markers in output stream for downstream splicing</li></ul>
Stream Conditioning	<ul style="list-style-type: none"><li>• Conditioning of Adaptive Transport Stream (EBP insertion) for streaming applications</li></ul>
Other Features	<ul style="list-style-type: none"><li>• Back-to-back splicing</li><li>• Frame-accurate splicing</li><li>• Low delay</li><li>• Advanced component matching rules for automatic matching of video, audio or data PIDs</li><li>• Splicing between different video resolutions</li><li>• Integration with Synamedia's vDCM Encoder and Multiplexer to enable splicing within statmux pools</li><li>• Advanced splicing success rate reporting dashboards</li></ul>

## Operations

Redundancy	<ul style="list-style-type: none"><li>• 1:1 IP interface backup</li><li>• IP port mirroring</li><li>• Input service and transport stream redundancy</li><li>• Hitless merge for MPEG-2 transport stream input and for SMPTE2022-6 input (SMPTE-2022-7)</li><li>• User-configurable triggers</li><li>• 1:1 and N:M node redundancy</li></ul>
Monitoring	<ul style="list-style-type: none"><li>• Integrated Grafana dashboards</li><li>• Elasticsearch, Logstash and Kibana (ELK) stack support</li><li>• Alarm notifications including SNMP traps</li><li>• Syslog</li><li>• Easily controlled local web GUI</li><li>• VSM support for line-up configuration, resource pool redundancy for hybrid setups (mix of hardware DCM and software Synamedia DCM), capacity modeling, and centralized monitoring</li><li>• Fully documented open API enabling third-party component integration</li></ul>
Configuration GUI	<ul style="list-style-type: none"><li>• Drag-and-drop interface for defining</li><li>• Alternate services to be spliced</li><li>• Triggering rules</li><li>• Component tracking rules</li><li>• Component merging rules</li><li>• Triggers and switch-over rules configuration for service redundancy</li><li>• Optional centralized management with Synamedia's Video Service Manager (VSM)</li></ul>

# Platform Support and Compatibility

## Deployment

Appliance	<ul style="list-style-type: none"><li>• Multiple VN appliances available</li></ul>
Private Cloud	<ul style="list-style-type: none"><li>• Virtual machine, Docker container</li></ul>
Public Cloud	<ul style="list-style-type: none"><li>• Multi-cloud supporting all major cloud providers</li></ul>

## 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

[Read our detailed warranty information.](#)

## About Synamedia Video Network Solutions

Synamedia is a leading global provider of video distribution, streaming, processing, and network delivery solutions for content owners and service providers. Our comprehensive, cloud-based SaaS and managed service solutions and software products enable customers to manage OTT media streaming and broadcast workflows, secure video content and services, and deliver premium user experiences across all screens. Leveraging expert know-how and 30-plus years of experience for over 1,000 customers worldwide, Synamedia helps video businesses launch, monetize and scale services across all devices to capture a greater share of the consumer video wallet.

## Next Steps

Learn more about **Synamedia Video Network solutions**.

For more information, contact your account manager or **visit our site**.