

Digital Rapids Broadcast Manager[®]

Multi-Encoder Automation and Management Software

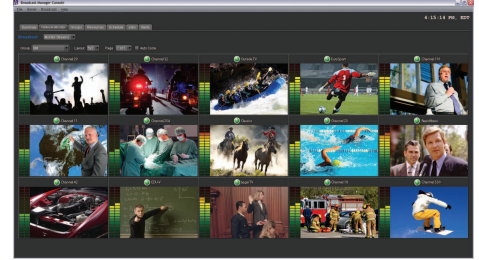
Highlights

- Enterprise-class management, monitoring and control of multiple Digital Rapids encoders from one or more locations
- Reduced operational overhead and errors through automation and scheduling of tasks
- Reinforces live streaming reliability with failover and 'self-healing' failure recovery
- Seamlessly scalable from one to hundreds of encoders
- Automated association of scheduled ingests with user-defined metadata templates and asset structures
- Control of third-party video routers for automated signal selection and enhanced failover
- Web Services API for integration into custom applications and existing enterprise management systems

Streamlining Workflows for One to Hundreds of Encoders

Today's live and on-demand media production and distribution workflows are more sophisticated and diverse than ever before. The volume of content to be processed continues to increase exponentially. The number of live viewing channels across multiple devices and platforms continues to grow with audience demand, increasing the number of encoders required. Consolidated management, monitoring and automation are crucial to reducing operational complexity and costs.

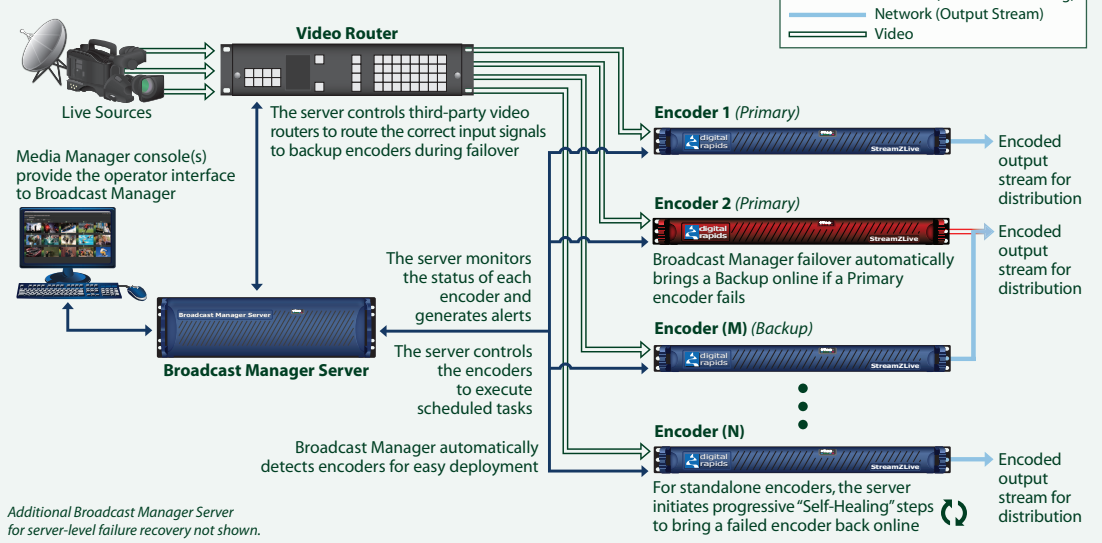
The scalable **Digital Rapids Broadcast Manager** software provides enterprise-class management and automation of multiple Digital Rapids **StreamZ™**, **StreamZHD™** and **StreamZ Live™** encoding systems. Whether you have one encoder to automate for scheduled ingest, two encoders for fault tolerance of mission-critical applications or two hundred encoders for multi-channel installations such as IPTV headends, the Broadcast Manager software can simplify your workflows and lower your operational overhead.



Reinforcing Reliability for Live Streaming

Live streaming gives no second chances, and Digital Rapids encoders feature robust reliability to meet these unforgiving demands. To bolster reliability even further, Digital Rapids Broadcast Manager provides failover management and "self-healing" recovery to automatically respond to any failures. If a failure occurs on an encoder, Broadcast Manager automatically transfers operation to a backup system, with minimal interruption to your customers' viewing experience. Integrated control of upstream, third-party video routers automatically re-routes input sources accordingly. Broadcast Manager's progressive "self-healing" functions attempt to resolve problems directly on failed systems – particularly significant if backup encoders are unavailable.

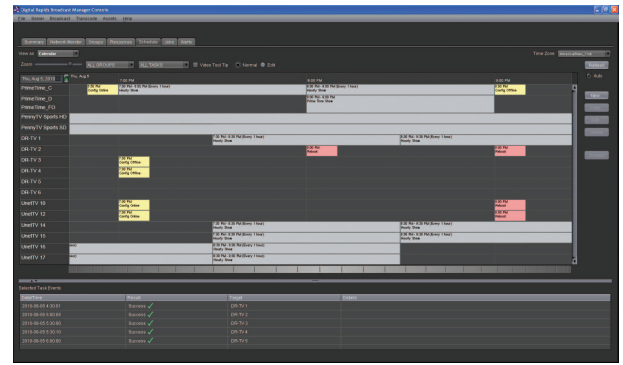
Example Broadcast Manager Live Streaming Failover Workflow



Flexible Automation with Sophisticated Scheduling

Broadcast Manager features flexible scheduling capabilities for easy automation of live streaming and ingest to files. Encoders can be started, stopped, or taken offline (such as for maintenance or upgrades) at scheduled times, with the flexibility of using a different set of encoding parameters (including different compression formats) for each scheduled task if desired. Broadcast Manager can automatically switch upstream video routers to user-specified input sources for each scheduled task. A graphical scheduling interface provides an at-a-glance visual representation of scheduled tasks and enables easy identification of scheduling gaps and conflicts.

Fully customizable asset profiles enable captured media files to be combined with metadata, additional media files (such as extra audio tracks) and resources (such as packaging shots, proxies and thumbnails). Files captured during scheduled ingests can be automatically associated with pre-defined asset structures. Complete assets can then be exported for subsequent processing by other Digital Rapids solutions (such as the **MediaMesh™** content delivery system) or third-party applications.



Centralization Meets Simplicity

Broadcast Manager offers individual or group-based encoder management, significantly simplifying operation. Broadcast Manager can alert engineering and operations staff to events such as failures and scheduled task completions through configurable alert notifications. Error conditions can also be monitored by any SNMP-compliant network management system. Mosaic-style, multi-channel video confidence monitoring lets operators view the signals of multiple encoders at a glance.

Setup is streamlined through automatic detection of encoders on the network using discovery protocols, enabling seamless scalability and expansion. Encoding and streaming parameters are easily assigned to encoders through reusable project files.

Broadcast Manager tracks all activities and events in its internal database or through support for a variety of third-party databases including Oracle 10g®, Microsoft® SQL Server and PostgreSQL. User access can be managed locally or via industry-standard LDAP services. Rich scripting capabilities enable programmatic, scheduled automation of custom tasks with support for a variety of popular scripting languages. Developers can also integrate Broadcast Manager into their own custom applications and existing enterprise management systems through an easy-to-use Web Services API.

Features

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| Supported encoders (sold separately) | StreamZ Live, StreamZHD Live ABR™, StreamZ, StreamZHD, Flux™ cards with Stream FE™ software |
| Automatic encoder discovery plus firewall and proxy support for easy deployment | • |
| Failover and 'self-healing' fault recovery modes | • |
| 'Control room' view with mosaic-style, multi-channel confidence monitoring | • |
| Scheduling (encoding tasks/parameters, start/stop, online/offline, reboot, etc.) | • |
| Automated association of scheduled ingests with user-defined metadata templates and asset structures | • |
| Alert notifications | • |
| Simple Network Management Protocol (SNMP) support | • |
| Individual and group-based encoder management | • |
| Control of upstream third-party video routers for automated source selection and enhanced failover | • |
| User authentication and authorization with local and LDAP access management | • |
| Web Services (SOAP) API for custom integration | • |



Digital Rapids Broadcast Manager with StreamZ Live encoder (sold separately)



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