

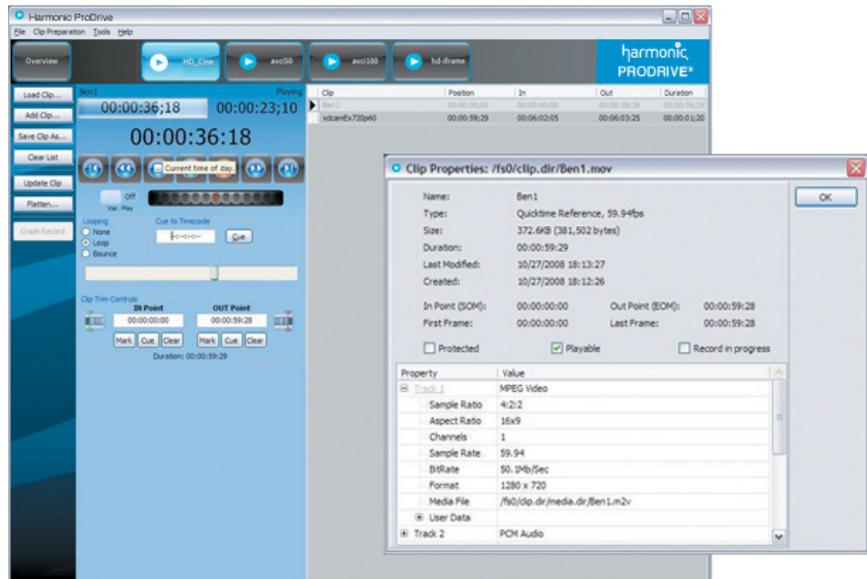
## HIGHLIGHTS

- Enable maximum efficiency from Spectrum and Harmonic MediaGrid systems
- Control devices from anywhere on the network
- Add multiple language tracks or descriptive audio to existing content
- Delay payout to accommodate multiple time zones
- Cost-effective, targeted solutions
- Easy-to-deploy
- Simple to learn and use



In a networked digital environment, broadcasters need applications that allow specific control over the material stored within their media servers and storage systems. Harmonic MediaTools™ provide convenient, cost-effective software solutions for maximizing the use of Harmonic Spectrum™ media servers and Harmonic MediaGrid shared storage systems. This collection of easy-to-use applications—ProDrive™, TrackTool and DelayTool—simplifies the ingest, management, processing and payout of material within the Spectrum and MediaGrid systems, and enables the integration of these systems with other third-party solutions.

## PRODRIVE



ProDrive is a comprehensive software application for controlling Spectrum MediaCenter™, MediaDirector™ or MediaDeck™ 7000 servers from anywhere on your network. It offers broad ingest, clip preparation, playout and clip management capabilities to improve efficiency, reduce costs and help maximize your media server investment.



ProDrive is available in single-channel increments, enabling up to six simultaneous playout ports or four ingest ports, providing true flexibility for configuring a Spectrum server to meet your precise requirements. A range of ingest features are provided for capturing content to the server and preparing it for transmission:

- **Crash Record** allows operators to instantly specify an ingest port to record on and capture content as it is being fed to that port. Crash records can be configured to run automatically for a specified duration; as a clip is being recorded, it can be scheduled for playout on another port during recording.
- **Scheduled Recording** lets you configure your ingest schedule based on the availability of incoming feeds from outside sources. Comprehensive schedule management enables you to view, edit and create new scheduled record items at any time of day for any duration. At the specified time, your Spectrum server will automatically switch to Record mode and capture your desired content.
- **Manual Ingest** allows you to capture content from tape while simultaneously controlling the source VTR via serial protocol. In addition, you can create an ingest list based on the content of a tape, and then automatically capture and digitize all marked sections from that tape. This feature captures content from multi-segment tapes, but also handles long-form content that spans multiple tapes. Ingest lists can also be created in external applications and imported into ProDrive.

### Flexible Clip Preparation

ProDrive provides comprehensive clip preparation to ensure that the content stored on your Spectrum server is ready for transmission whenever you need it. Any clip can be loaded into the ProDrive application and controlled just as if it were a clip on a VTR, using any available port on the server. Operators can jog and shuttle through the clip, find points of interest, mark new in and out points, and automatically create new sub-clips based on this data.

### Extensive Playout Options

ProDrive provides comprehensive content playout features in the same intuitive user interface. Individual clips (or even sections of clips) can be loaded onto a port and either played out immediately or scheduled for playout at a specific time. Operators are also able to create playout lists containing multiple clips from the server. ProDrive supports complex transmission rules such as individual clip looping or entire list loops, dynamically handling changes to the list's contents. New clips arriving on the server can immediately be inserted into an active list at any desired point.

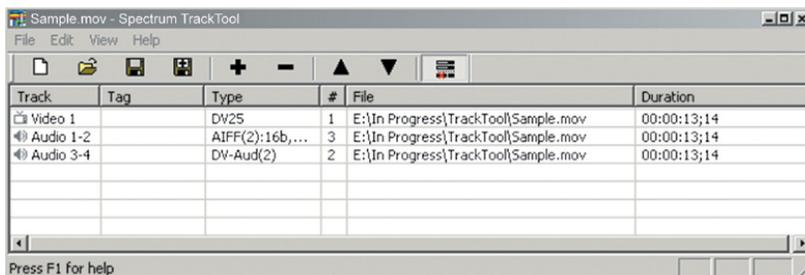
ProDrive can also import playlists from other applications, making it easy to integrate into existing workflows or other parts of your business. Full logging of transmission output is provided, making it easy to compare schedules and as-run content—ensuring that what went to air matches what was intended.

### Manage Clips Easily

With a full explorer view of the server's contents, ProDrive lets you rename, move, copy and delete clips, all from your desktop. Even with complex reference or self-contained clips, a consolidated view makes your content manageable and accessible. Folder structures within the media server can also be created and organized with ProDrive.



## TRACKTOOL



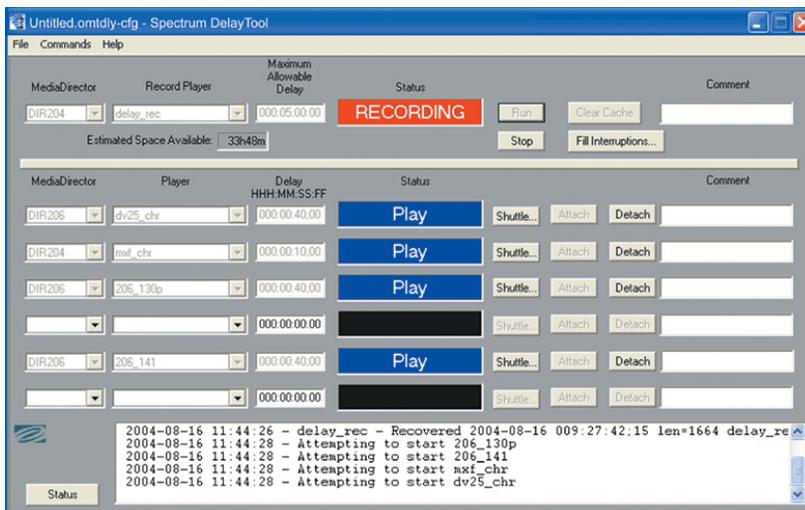
TrackTool is a powerful application that allows users to modify content on a Spectrum media server, while also enabling intelligent management of the components that make up a media clip. With TrackTool, you can easily add multiple language tracks or descriptive audio commentary to existing content, as well as incorporate unique metadata about specific components.

### Advanced Track Management

Spectrum media servers have the ability to treat discrete essence elements (tracks) of a media clip separately, allowing you to add, change or delete individual components easily. Video and audio can be managed independently and yet remain linked together as a complete clip within the system.

In addition to simply managing tracks within a clip, TrackTool can also “tag” them with an identifier. When used in conjunction with a Spectrum server system, a specific audio track can then be automatically routed to the correct output based on the identifier. No more duplication costs, no more on-air errors.

## DELAYTOOL



DelayTool is a simple yet powerful Windows application for adding real-time program delay capability to Spectrum media servers, and is perfect for broadcasters with multiple time zone requirements. A single window is provided for controlling an ingest record feed and defining a transmission delay from between one to six playout channels.

For each input, up to six simultaneous delayed outputs can be configured and controlled. The amount of delay can be changed dynamically on each delay channel, and sections of the delay program can be copied as new media.

