

MASSChannel



A complete broadcast solution for call letter stations, cable, corporate, educational, and disaster recovery.

MassChannel is a stand-alone, cost-effective broadcasting solution combining an integrated single-channel server of video/audio with an on-air broadcast automation and sequencing application to deliver a single automated channel of playout. MassChannel includes all necessary hardware and software to control and manage your broadcast operation. MassChannel can be configured to operate with several choices of media storage:

DVD Jukebox - MassChannel manages a 200 disc (up to 840 GB) robotic DVD/CD library from Masstech Group and controls automatic pre-caching of content to the video server.

MassNAS - MassChannel systems can use MassNAS, Masstech Group's Network Attached Storage device, with up to 1.75 TB of storage (388 hours at 8 Mbps) in 1 RU, including full redundancy and RAID protection.

MassStore - MassChannel can directly request content from a MassStore nearline, archive and asset management system. MassStore supports any number of MassChannel playout systems and can provide unlimited storage capacity.

Stand-Alone - MassChannel stand-alone configurations feature single, mirrored, or RAID protected configurations, with 20 hours to over 200 hours of storage in a single 2-RU chassis.

In any of these modes of operation, playlists are imported or created by drag-and-drop from a material database. Playlist events can be started manually, based on time of day, or sequenced from a previous event. The entire playlist can be looped for repeat programming support. Subsequent day schedules can be simply appended to the current playlist for seamless day-to-day operation.

Smart Caching

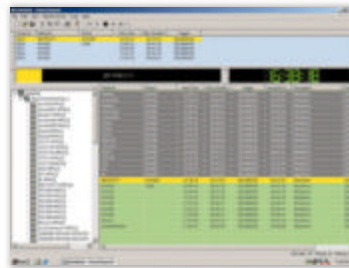
MassChannel includes a "Look Ahead" window which controls media cached onto its drives. Played events that are no longer required are automatically removed from the cache and new content is pulled in. Events to be played multiple times are maintained in the cache, minimizing copy operations and reducing access times.

Broadcast Friendly

MassChannel produces a full reconciliation (as-run) report that can be electronically delivered or printed for direct reference.

MassChannel Features

- Complete system in a box - including integrated video server, content archive, and automation system - for simple installation, unattended easy operation, and high-quality playout
- Low-cost provides easy entry for speciality cable channels. MassChannel improves quality for government, educational, and business channels, and provides affordable backup and disaster recovery for all types of broadcasters
- Designed around a networking core, any number of MassChannel systems can be added to the environment providing a simple, straightforward growth path
- A wide range of storage options offers flexible and expandable system configurations



MassChannel's GUI with user definable properties simplifies on-air operations with simple drag and drop operations and a complete display of all available assets.



TARGET APPLICATIONS

- Cable
 - Head end specialty channels
 - NVOD / movie channels
 - Disaster recovery
- Educational
 - University educational channels
 - University specialty channels
 - Local school channels
- Government
 - Government educational channel
 - Government training channels
 - Government informational channels
- Business
 - Business specialty channels
 - Business training channels
 - Business informational channels
- Religious
 - Religious specialty channels
- Broadcast
 - Disaster recovery
 - Public Broadcast specialty channels
 - Local specialty channels

SUPPORTED EQUIPMENT

- MassNAS (Network Attach Storage)
- MassStore Nearline, Archive, and Asset Management System
- Masstech Group DVD Jukebox via Firewire Interface

SUPPORTED STANDARDS

- MPEG2 Formats
- MPEG2 4:2:0 and 4:2:2 program stream content up to 15 Mbps (short and long GOP)

Media Formats

- DVD-R or CD-R
- MPEG2 program stream (file based)

PRODUCT SPECIFICATIONS

MassChannel System

- 2 RU rack mount chassis
- Redundant, hot swappable power supplies with dual line cords
- Hot swappable, RAID-protected SCSI hard drives
- Redundant system fans
- Rack mount rails
- Slim line DVD/floppy
- Dual Intel high performance processors
- 1 GB RAM
- Monitor and keyboard
- Dual 10/100/1000 Ethernet
- Advanced MPEG2 hardware decoder board
- Tools free serviceability
- Multi international regulatory approvals

Output Support

- Composite analog video
- Analog stereo audio (selectable audio channel output)
- SMPTE259 serial digital video with embedded audio

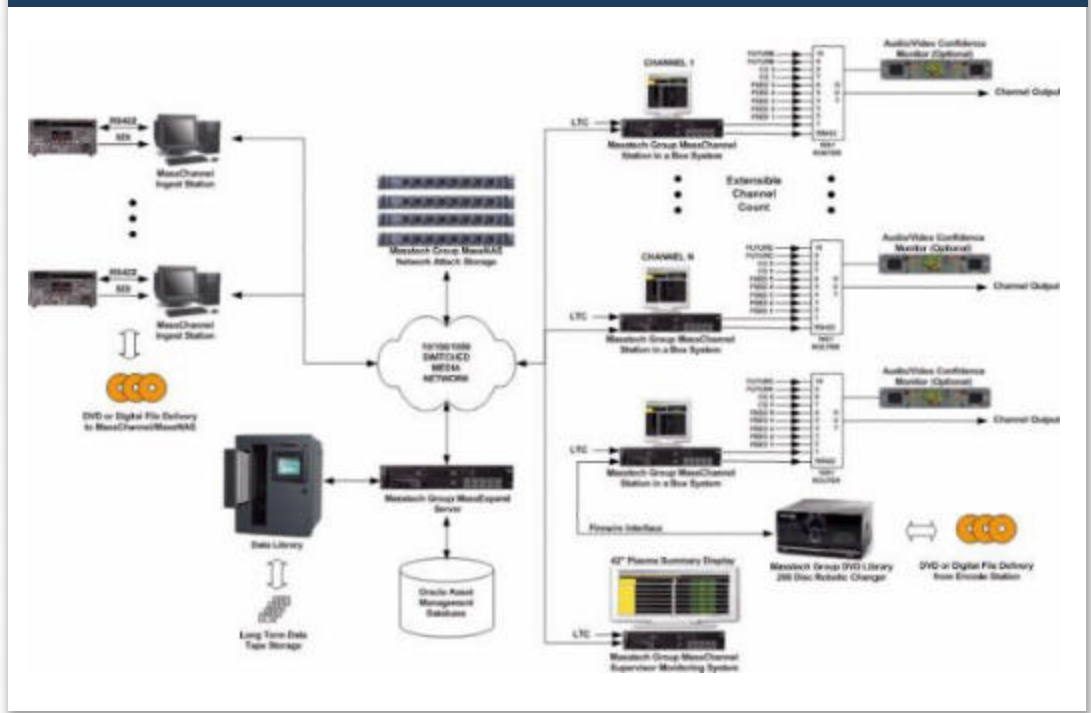
Storage Configuration

- MassNAS
- MassStore
- MassChannel Integrated Storage

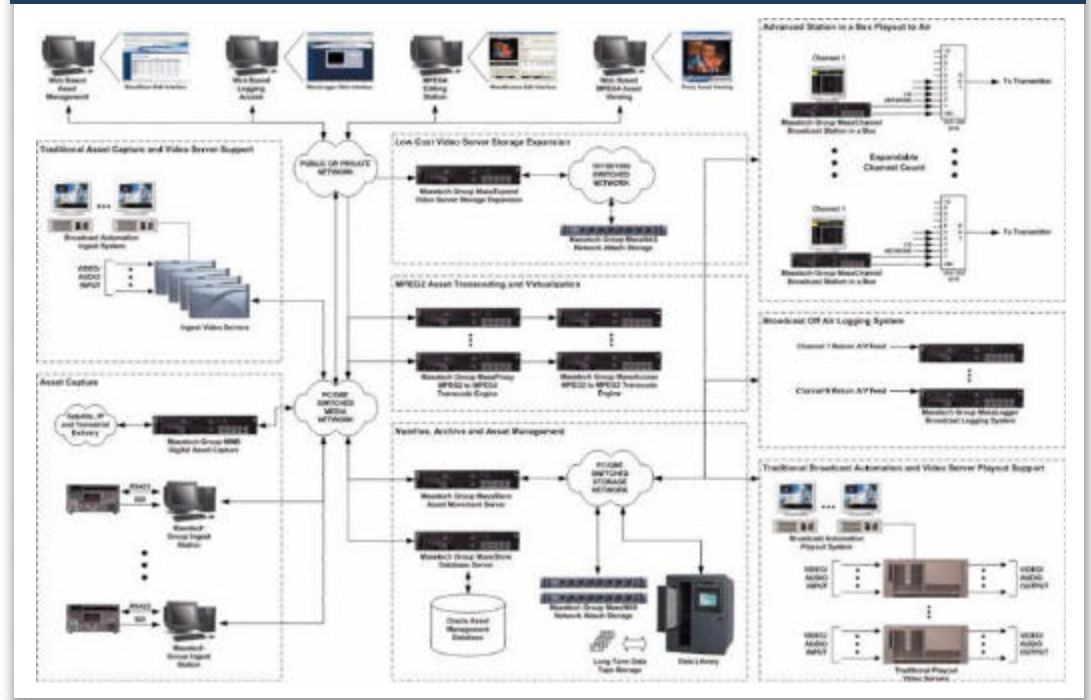
DVD Jukebox

- 200 disc library
- Dual DVD/CD drives
- DVDR and CDR/RW support
- Firewire interface
- Provides approximately 800 GB of non-volatile storage (approximately 230 hours at 8 Mbps encoding)

MassChannel Application Overview



Masstech Family Overview



Masstech Group Inc. 2 East Beaver Creek Rd., Building 3, Richmond Hill, Ontario, Canada L4B 2N3
 www.masstechgroup.com • Phone 905.886.1833 • Fax 905.886.2155

USA Sales • USA • 2915 Commers Dr, Suite 900, Eagan, MN 55121
 Phone 651.688.0888 • Fax 651.688.8284

Support and Service • support@masstechgroup.com

Sales • sales@masstechgroup.com

