

## CloudNine™

# The Most Reliable, Affordable, and Flexible Solution for Video Playout and Control



### What is CloudNine?

CloudNine™ is a powerful, network-based solution that goes beyond standard channel-in-a-box systems by providing broadcasters with the functionality found in a traditional video server. A reliable, flexible, and cost-effective solution for producing high-quality audio and video content, CloudNine increases operational efficiencies and cost savings for broadcasters.

### *The end result?*

Crystal-clear on-air presentation for viewers that knocks out the competition.



## CloudNine Unique Features and Benefits

### **Simultaneous recording and playout capabilities:**

CloudNine is capable of recording and playing out both SD and HD SDI streams from third-party commercial and program delivery systems, without any transcoding, re-muxing, or repackaging, as well as updating metadata. Through the CloudNine server, broadcasters can also stream content over IP networks. CloudNine also supports closed captions delivered over line 21, CEA-608 for analog TV, or CEA-708 for digital TV.

For multiscreen applications, broadcasters can perform a variety of transcoding operations leveraging the video server's **CloudCoder** functionality. Through support for network triggers, CloudNine enables stations to automatically sense network triggers and roll to local commercial breaks, improving efficiency and freeing up operations staff to focus on other important tasks.

**Flexible format support:** CloudNine supports a myriad of formats including AVI, MPEG-2, MPEG-4, AAC, PCM, GXF, MXF, and LXF. By enabling broadcasters to play out formats delivered by all major program and commercial delivery systems without transcoding, repacking or remixing, CloudNine ensures high-quality broadcast presentations at all times.

**Simple graphics functionalities:** Through CloudNine, broadcasters can schedule simple graphics effects such as bugs, crawls, banners, light animation, text, and layers. In addition, CloudNine can be used to roll effects-based commercials and generate revenue through secondary events.

**Full control:** CloudNine can be controlled locally, remotely, or via its VDCP interface (both serially and network) using any major automation system. An optional simple manual play list — with configurable loop mode — is also included with jog and shuttle buttons, play, cue, stop, jump to time code, as well as a slider bar, providing users with immediate control of the video being played. By providing remote control of the playlist, CloudNine enables access from anywhere in the world, an essential feature in the event of a network failure.

**Scalable, affordable storage:** CloudNine provides broadcasters with virtually unlimited storage, giving them room to grow and accommodate additional file-based assets. CloudNine is not dedicated to one file system and can directly play any media stored on any accessible file system. The CloudNine video server also includes a **CloudStore** capability that allows broadcasters to facilitate multichannel playout from a storage device, or from multiple storage devices via Gigabit networks.



# Need Help With On-Air Programming Delays?

## Introducing NDelay™: Advanced Time Delay Tool, Powered by CloudNine

### What is NDelay?

NDelay is a specialized version of CloudNine designed to optimize on-air programming delays, including censorship. Utilizing the single-channel SD or HD time-delay system, broadcasters can automatically create programming delays, ranging from a few seconds to a full day, all while simultaneously recording content. Running on a CloudNine server, this software-based solution maximizes operational efficiencies and cost savings for broadcasters while ensuring a superior quality of experience for viewers.



### Unique Features and Benefits

- Quick turnaround** NDelay provides a rapid turnaround for time delays, with a minimum delay time of 15 seconds.
- On-the-fly delays** Unlike other time delay solutions on the market, NDelay allows broadcasters to make delay changes while they are simultaneously recording. This functionality is critical for religious broadcasters as well as network delays. Operators can "jog and shuttle" to the place that they want the delay to start with the simple click of a button. Optionally, they can enter the delay time into a special edit window, click the reset button, and NDelay will immediately start playing from the new desired delay value. Most time delay systems on the market do not offer this advanced capability.
- Automatic filtering** NDelay software retains files for 24 hours and then automatically deletes them to make room for new files, enabling broadcasters to focus on other essential tasks.

## Here's Why CloudNine Also Makes the Perfect Backup Server

### Challenge

Currently, many television stations own a video server that is nearing its end of life. They are forced to buy a new server or run the risk of losing thousands or even millions of file-based assets and, in turn, revenue. Many broadcasters are choosing to "mirror" their servers, whereby there is a primary and a backup server to ensure that the content on backup is the same as that on the primary. Software moves data from the primary to the backup, giving broadcasters confidence that valuable assets are protected. The problem with this scenario is most servers are expensive. Furthermore, vendors charge a premium for mirroring software. Broadcasters need an affordable solution.

### Solution

CloudNine comes to the rescue! Coupled with NVerzion's XPansion™ software, media can be automatically moved from a broadcaster's existing server to CloudNine without conversion and simulrolled manually or via automation. Since CloudNine supports most formats, broadcasters can connect to and mirror nearly any existing server. It's simple, affordable, and easy to deploy.

**Don't take our word for it. See what our customer has to say:**

*"Providing news, entertainment, and event coverage from one of North America's top ski destinations requires the management of a growing number of media assets each year. NVerzion's CloudNine dramatically changes our file-based workflow design and content-delivery process, enabling more efficient use of media assets by leveraging the flexibility of the CloudNine server."*

Stanton D. Jones  
General Manager and Owner  
Park City Television