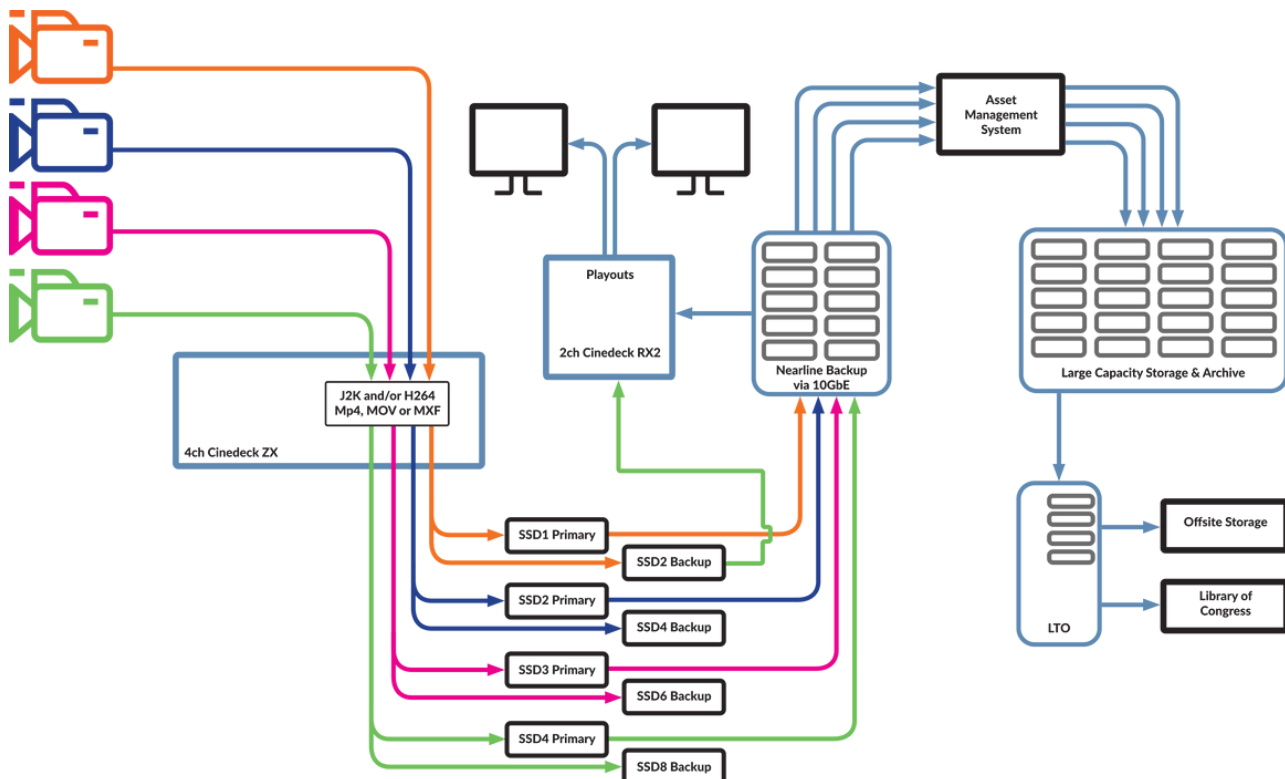# NASA KENNEDY SPACE CENTER

Revolutionizing NASA's Kennedy Space Center Media Workflow: Cinedeck Delivers Robust, Future-Proof Ingest Solutions with Unparalleled Flexibility and Scalability

OBJECTIVE

Kennedy Space Center is one of the largest installations of Cinedeck systems with 100 concurrent record channels. In 2019, Cinedeck completed a multi-year installation of Cinedeck ZX ingest servers for NASA at Kennedy Space Center (KSC). The objectives were to replace the outdated tape-based, standard definition (SD) workflow with a future-proof, single record system that could accommodate changing requirements and new standards, as well as ensure the solution is robust enough for mission-critical 24/7 recording.

WORKFLOW DIAGRAM

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NASA KENNEDY SPACE CENTER

We understand that each workflow is unique, which is why Cinedeck provides customizable options such as video burn-ins, metadata, and XMLs, among other tailored features.

SOLUTION

Cinedeck provided a customized solution based on the Cinedeck ZX platform, with the following features:

1. Support for custom XMLs and databases generated with each clip for Media Asset Management (MAM) integration.
2. Hardware support for the military IRIG timecode standard and real-time hardware H264 and J2K encode of 4 channels at 1080p60.
3. Primary and redundant local SSD recording in 30-minute chunks to ensure no live recording is dependent on the network and files are physically broken up for easy transport and handling.
4. Automatic copying of each clip to nearline storage, which occurs continuously while recording except during actual launches.
5. Customization of the MAM system to read the XML metadata and IRIG timecode databases for each clip.

BENEFITS

1. Ability to scale with a large number of channels.
2. Robustness and workflow flexibility, capable of handling multicam recording in high-stakes environments.
3. Scalable and future-proof, supporting new standards such as 3G, UHD, and IP video transport.
4. Efficient media handling with automatic copying to nearline storage and segmented clips for easy transport.
5. Customized MAM system for seamless integration and management of recorded media.
6. Support for various delivery requirements, including NASA's internal PR department, external news services, and the Library of Congress.
7. Ongoing collaborative partnership, optimizing the strengths of the Cinedeck ZX platform and customization possibilities.

Cinedeck's tailored ingest systems meet critical recording demands, featuring IRIG-B timecode, lossless encoding, uncompressed formats, and VANC insertion. Designed for government video pros, our solutions integrate seamlessly and meet unique workflow needs.