

Introduction: Dynamic Workflow Solutions Inc. brings 25+ years of experience managing digital media assets particularly in the form of digital evidence for government, security, and law enforcement. Digital media has hit new volumes in all aspects of the modern world. Video devices for day-to-day operations as well as traditional security have become not the exception, but the new normal. Law enforcement, security, and legal processes have no choice but to adjust policies, procedures, networking, storage, and laws. All agencies and processes are subject to massive change now in 2025, and into the foreseeable future.

The Use Case: The Data-Central Evidence Engine takes proprietary video from over 2,000 sources and solves 3 Key Use Case Challenges:

1. Drag and drop video, audio, documents, drone footage, cell phone extracts and pretty much anything digital into the interface and Data-Central will ingest the content into the interface in seconds. Investigators, Real-Time Crime Centers, Forensic Teams can view the content in seconds without copying files around with Windows Applications (a significant issue for Chain of Custody and speed of copying files before opening them).
2. Proprietary video from all kinds of sources from VMS, Transit, Body Cameras, Covert Cameras, Consumer DVRs, and many more are converted via advanced Binary Rewrapping Processes in minutes instead of uploading and/or transcoding video for hours before being able to view the evidence. Investigators, RTCC's, and Security Teams can view the video in the application and take action on it in minutes not hours or days.
3. The converted videos are now in a standard MP4 Format that can be used by AI Tools of all kinds to find the key evidence. BriefCam is a notable example where the MP4 can be automatically shared to BriefCam to utilize its industry leading tools to locate key evidence, create the Synopsis and send the new content back into the case faster than any workflow in the industry. Combine advanced AI Tools from Centific or other platforms and the evidence processing hits a new level for speed.

Product Name: Data-Central Evidence Engine (DCEE)

Description: The Data-Central Evidence Engine is a powerful software solution to collect, organize, convert, standardize, and manage metadata and assets from diverse sources in one centralized platform in a Law Enforcement Grade Process. Proprietary video evidence files cannot be used by AI solutions and require conversion to standard media formats in order to maximize the benefits of AI in Security, Law Enforcement, Government, and

Commercial applications. Designed for the modern AI World's requirements, DCEE automatically transforms disorganized proprietary digital video files and fragmented metadata into a cohesive, actionable resource—perfect for streamlining workflows, AI solutions, maintaining compliance, and ensuring long-term asset preservation.

Standardizing metadata and centralizing assets in a specific location provides significant benefits for AI applications, as they create a robust foundation for effective data processing, analysis, and model training. Here is how these practices enhance AI workflows:

1. DCEE Improves Data Quality and Consistency

- Incorporates Automatic Video Conversion and Data Cleansing to improve data integrity and accuracy.
- Standardized metadata ensures that all data points, regardless of their source, follow a consistent structure, terminology, and format.
- AI models require clean, standardized, and well-organized media and data for accurate predictions and analyses. Standardization minimizes errors, duplicates, and inconsistencies, leading to higher-quality results less prone to generating hallucinations.

2. Simplified Data Preparation and Preprocessing

- AI algorithms use cases currently spend a significant amount of time in data “wrangling” (cleaning, organizing, and preprocessing video and data).
- With standardized video and metadata, attributes like file names, tags, creation dates, and relationships are uniformly defined, streamlining tasks like feature extraction, labeling, and data transformation.
- Centralized assets reduce the need to merge datasets from disparate locations, saving time and resources during the data preparation phase.

3. Enhanced Data Discoverability

- Standardized media and metadata provide a searchable and filterable structure, making it easier for AI pipelines to locate relevant assets.

- Advanced tagging and metadata enrichment help surface hidden patterns or connections that might otherwise go unnoticed.

4. Efficient Training Data Management

- Having assets in a single location creates streamlined access to training datasets, which can include images, videos, text, or audio files.
- Centralized storage ensures that datasets are complete, controlled, and accessible, reducing the risk of missing or misaligned data during model training.
- Metadata schemas can identify subsets of assets suitable for training, validation, or testing based on characteristics like format, content, or label quality.

5. Scalability and Automation

- With standardized media and metadata, AI systems are more accurate, easier for the end user, and enhance the ability to use AI for Compliant Legal Processes.
- Centralized access allows models to scale efficiently across large diverse datasets from multiple vendors and sources.

6. Better Integration with AI Tools and Frameworks

- Standardized media and metadata make integration with AI tools such as BriefCam, Centific, AWS, Microsoft, Dell, and others.
- Centralized data repositories support Data Lake architectures and feature stores, both critical for modern AI workflows.
- APIs can easily query standardized metadata for specific data points, enabling dynamic model retraining or real-time analytics.

7. Enhanced Compliance and Ethics in AI

- Standardized metadata helps ensure compliance with data governance policies and regulations, such as GDPR, CCPA, or HIPAA.
- Metadata tracks the source and permissions of assets, ensuring AI models are trained on ethical and legally compliant datasets.
- Retention Management ensures assets and metadata are preserved according to compliance standards and organizational needs.

- Audit trails maintained through metadata can document how data was used, aiding in explainability and transparency of AI systems.

Key Features:

- **Digital Media Conversion:** over two thousand formats of video from proprietary sources supported today.
- **Comprehensive Metadata Collection:** Aggregate metadata from databases, APIs, files, and diverse sources.
- **Asset Archiving:** Safely store and organize videos, images, documents, and other digital assets.
- **Standardized Metadata Structure:** Normalize metadata formats for consistency and usability.
- **Integration Ready:** Export metadata and assets to analytics tools, catalogs, or other applications.

Who is it for:

- AI and Machine Learning Algorithms
- Digital Libraries & Archives
- Data Governance and Compliance Teams
- Cloud Resources and Asset Managers