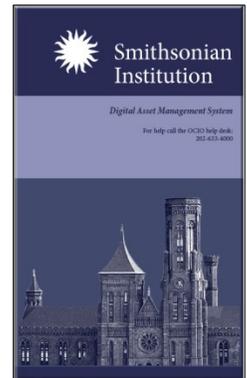


The Digital Asset Management System (DAMS) at the Smithsonian Institution

At the Smithsonian Institution, stewarding digital assets – managing how they are collected, stored, preserved, secured, accessed, and exhibited – is an institution-wide concern. The Institution has deployed an enterprise digital asset management system to support this effort.

The Smithsonian Digital Asset Management System (DAMS) is a major component of the Smithsonian's digital and collections support infrastructure and was included in the Smithsonian Information Technology Plan FY2012-FY2016. The system supports all units, has 1,000+ users, and currently contains over 17 million images, audio, video, and supporting documentation records.

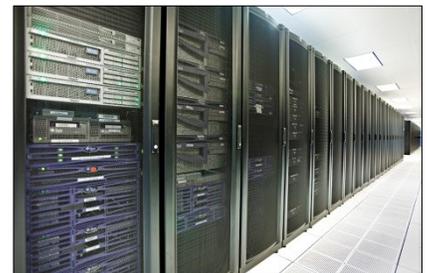


A Digital Asset Management System

A digital asset management system consists of management tasks and decisions surrounding the ingestion, annotation, cataloging, access, storage, retrieval, distribution, and preservation of digital assets. It has multiple application components including web and networked user interfaces, a database back-end, a search index, and a large, robust fault tolerant storage infrastructure. It provides automatic extraction and capture of metadata, the ability to locate (search), transform, and deliver stored digital assets (images, audio, video), enabling reuse of the same asset in a variety of formats and for varied purposes (editing, publishing, web, etc.). It provides a place for assets that may be stored in multiple formats and locations, all while providing cost-effective preservation, security, backup, and recovery.

Hardware

The technological infrastructure of the SI DAMS is housed and managed by the Smithsonian's centralized IT organization, the [Office of the CIO \(OCIO\)](#). The Isilon storage repository works together with the back-end database, transcoders, and ingest servers to support the technological needs of asset management, archiving, and delivery. Files are backed up routinely, both on spinning disk and to tape, where redundant copies are geographically separated from the Institution's Data Center for robust preservation and disaster recovery planning. Managing the SI DAMS hardware components is a part of OCIO's larger plan for the care of SI's technology needs.



Open Text Media Manager

The Smithsonian has adopted the Open Text Media Manager (formerly Artesia) as its enterprise DAM system to address the storage, search, access, and retrieval of digitized assets. Features of the system include organization of assets and metadata, asset use, management, and security functionality. The internal system is accessible to SI staff members within the boundaries of the Smithsonian's intranet, delivered via a browser based user interface or API services to provide multi-channel distribution for re-use and repurposing of SI's digital assets. Any SI employee with a network ID can obtain a DAMS Account. The DAMS environment consists of an enterprise production DAMS system and also includes separate system development and testing environments.

Working with the Units

Of course, the Smithsonian is much more than an entity with a single mission. It encompasses nineteen museums, a zoo, nine research centers, and administrative units, each with its own mandate, stakeholders, communities, and methods for organizing and disseminating knowledge. Each organization within the Smithsonian Institution works with the DAMS team to setup permissions, roles, and administrative procedures for their unit. DAMS Point of Contacts at each Unit are essential partners to build the foundation in the DAMS according to the specific needs of each unit, whether a Museum, Archive, Research Center, Cultural Center, Administrative Body, Library, or Zoo. It is a solution where individual units continue to organize and manage their own collections and maintain their unique areas of expertise - within the framework of an enterprise-wide service deployed and maintained by OCIO.

DAMS Security - User Groups and Roles

Upon creation of a user account, each user is given a DAMS role, specifying general permissions through a combination of Read, Ingest, Edit, Export, Delete roles. Users are then put into a user group in the DAMS. User groups are most often reflective of the Unit's organizational structure (NPG Education, for example), giving them access to the assets managed by this group, according to their role. All units ingesting content into the DAMS specify the level that others outside their group can access their content. This allows for a tiered, granular approach to user access and the security of assets. Only those people with appropriate security privileges and roles can access or modify the assets.

