# Civil Rights Digital Video Archive

**Executive Sponsors:**
William Gray Potter, University Librarian and Associate Provost, University of Georgia

**Project Sponsor:**
Merryl Penson, Exec. Director, Library Services, OIIT, Board of Regents, University System of Georgia

**Functional Project Manager:**
P. Toby Graham, Director, Digital Library of Georgia, University of Georgia

**IT Project Manager:**
Timothy Peacock, Head, GALILEO and Database Support, University of Georgia

## Goals & Objective:

**Goals:**

1. From the holdings of the University of Georgia Libraries, digitize 30 hours of historical video footage providing firsthand documentation of the Civil Rights Movement.

2. Deliver the video content to a global audience via the Internet.

3. Make the results of the project broadly accessible and interoperable with related initiatives by sharing metadata using the OAI PMH and by integrating project metadata into the digital library at Georgia Public Broadcasting.
**Narrative:**

**Project Summary**

High-level tasks for the civil rights video conversion project include:

- Complete final selection of video segments.
- Capture and preserve archival master versions of the source video content.
- Create compressed derivatives for streaming to the public via the Internet.
- Create administrative metadata to promote preservation.
- Create descriptive metadata to facilitate retrieval and resource sharing.
- Implement database for searching and display of project metadata, as well as output of OAI-compliant Dublin Core records.
- Configure hardware/software for delivery of digital video via the Internet.
- Integrate metadata into Civil Rights Portal.
- Integrate project metadata into the digital library at Georgia Public Broadcasting and selected content into the New Georgia Encyclopedia to provide additional means of access.

**Rationale**

1) To preserve endangered video content and enhance access to a resource of intellectual and educational merit.
2) To facilitate creative partnerships among initiatives/disciplines with the shared purpose of promoting learning.
Narrative (cont.):

Capture

The project will result in the digital conversion of approximately 30 hours of video content providing firsthand documentation of the Civil Rights Movement. The bulk of this content is derived from two news film collections of key intellectual merit. The WSB (Atlanta) archive contains 5 million feet of unedited news footage taken 1949-1981. The WALB (Albany, Ga.) archive consists of 1600 cans of footage shot in the field circa 1961-1978. The WSB and WALB collections are part of the Walter J. Brown Media Archives at the University of Georgia Libraries.

The project will begin with the digital conversion of the raw video content selected for the project. This initial step will result in a high-quality, master version of the content which the Digital Library of Georgia will archive for future uses and from which project participants will derive the Internet-accessible video segments. Project participants will capture master content in the NTSC-DV format at a frame rate of 29.97 and size of 720 x 480 pixels. The minimum quality for audio will be 44.1 KHz, and the capture software quality setting will be “highest.” Project participants will use Adobe Premier Pro 1.5 and its associated applications for the capture and subsequent video editing tasks. Regarding hardware, participants will employ either an outboard AVD bridge with firewire connection to a PC or a PCI capture card, depending on the results generated in startup testing.

Participants will store master video files on the Digital Library of Georgia’s archival storage system, which the DLG continues to develop as a mechanism for long term file storage, migration, and disaster recovery. The archival storage server is a Sun Fire 280R with two 1.2 GHz UltraSPARC-III processors, 8 MB E-cache, 2GB of memory, and an expanding number of SCSI drive arrays (currently approximately 5 TB capacity). The masters will be backed up to DLT magnetic tape and DVD-R.

Digital Video Access Derivatives

From the archival masters, project participants will generate derivative segments on the historical events portrayed. As the WSB and WALB archives consist of raw, unedited news footage, substantial editing will be required to create discrete segments that deliver maximum educational benefit and that lend themselves to Internet streaming. Examples of segments may include: 1) President Eisenhower speaking in 1957 on school desegregation in Little Rock, Arkansas, 2) footage on the 1961 attack on the Freedom Riders’ Trailways bus near Anniston, Alabama, 3) 1962 lunch counter sit-ins in Atlanta, and 4) an interview with Martin Luther King, Jr. upon the assassination of President Kennedy in 1963.

Project participants will create multiple edited access derivatives for each segment to account for the variance in bandwidth, hardware, and software available to potential users. Participants will deliver segments in at least two of the following formats based on startup and interoperability with existing Georgia Public Broadcasting content: Quicktime, MP4, Windows Media, and Real. There will versions available for both broadband and dialup. Broadband derivatives will have a frame rate of 29.97 and a size of 320 x 240.
Narrative (cont.):

Metadata

A metadata record will accompany each video segment to support retrieval and interoperability with Georgia Public Broadcasting and other related initiatives.

For descriptive metadata, the DLG will catalog the records using unqualified Dublin Core records to facilitate OAI harvesting and integration into the civil rights portal. Using Archival Moving Image Materials, 2nd ed. (AMIM2) as the descriptive element and content standard, the DLG will catalog all clips at AMIM2’s second level. Thesauri employed will include LCSH, Moving Image Materials Genre Terms, and the Art and Architecture Thesaurus. Names will be controlled using LCNAF and will be established locally as needed in the DLG’s local name authority database by following AACR2 and NACO guidelines. The DLG will trace key figures, events, organizations, and places.

The project will also capture metadata necessary for the sustaining the digital objects over the long-term. The data captured in the project database will be mapped to the METS standard and will be informed by the Library of Congress Audio-Visual Prototyping Project’s audiovisual extension schema for METS (http://www.loc.gov/rr/mopic/avprot/metsmenu2.html) and by the work of the PREMIS working group’s Core Elements subgroup.

See the Appendices of the grant proposal for a sample metadata record.

The Digital Library of Georgia will deliver the descriptive metadata produced for the project to Georgia Public Broadcasting (GPB). GPB will ingest the metadata into its existing digital library database to facilitate cross searching of GPB content and civil rights video content streamed via GALILEO server at the UGA Libraries.

Delivery System for Digital Video

Delivering digital video via the Internet requires hardware with significant computing power and storage. Also important is compatibility with current GALILEO systems, including mechanisms for data backup. GALILEO and UGA Libraries systems personnel selected for the delivery system a Sun Fire 440 Server, Sun StorEdge 6120 array, PCI Single FC 2GB Host Bus Adaptor (with SFS Drivers), rack kit, and related software and accessories. The system will provide 2TB disk storage, which preliminary calculations indicate will be sufficient for storing multiple access versions of the video content.

The IT Manager has verified with University of Georgia IT personnel that the bandwidth available leaving the building in which the video server will be located and leaving the University of Georgia campus is sufficient for effectively streaming video content to remote users.

Rights

The University of Georgia Libraries owns the WSB and WALB news film archives, as well as
Narrative (cont.):

Copyright for both collections. The Deeds of Gift documenting the transfer of copyright from the original owners are available in the proposal appendices. The Digital Library of Georgia has communicated with attorneys both in the University of Georgia Legal Affairs Office and Office of the Vice President for Research who have verified that the UGA Libraries is within its legal rights in digitizing and delivering via the Internet content derived from the WSB and WALB news film archives.

Delivery Hardware

Delivering digital video via the Internet requires hardware with significant computing power and storage. The delivery system will feature a dedicated server and RAID disk array, initially providing 2 TB capacity for compressed video files. Also important is compatibility with current GALILEO systems, including integration into existing processes for data backup. GALILEO and UGA Libraries systems personnel selected the following components for the delivery system:

Server: Sun Fire 440 Server with 4 128 GHz Ultra SPARC IIIi processors with 1MB cache each, 8GB memory (16*512MB DIMMS), 4*73GB 10K rpm Ultra 320 SCSI disks, DVD ROM, 2 power supplies.

Storage: Sun StorEdge 6120 array, 2044 GB rack ready controller tray, 1 RAID controller card, 1x14x146 GB 10K rpm FC-AL drives, native LC FC connection.

PCI: Single FC 2GB Host Bus Adaptor (with SFS Drivers)

Rack Mount: Sun StorEdge 6120 3U Rack Kit for Sun Fire system cabinets and 72-in StorEdge Rack

Additional items: Sun StorEdge Management Software Kit and localized power cord kit.

Delivery Software

Web Server: Apache

Streaming: To be determined as a result of startup testing of the numerous options available. Criteria will include: compatibility with user hardware/software platforms, interoperability with existing content delivered by project and content partners (Georgia Public Broadcasting, New Georgia Encyclopedia, WGBH Teachers Domain), and performance.
### Deliverables:

* Tangible and intangible products, processes, results and services *

1. Archive of digital masters (30 hours in 500 segments)
2. Access derivatives edited and streamed via the Internet
3. Metadata records describing each edited segment
4. Digital Library of Georgia digital archive database to manage administrative and descriptive metadata
5. Georgia Public Broadcasting ingestion of descriptive metadata
6. Civil rights portal ingestion of descriptive metadata

### Boundaries:

* Empowerment limits and project constraints *

1. Limited to content on the Civil Rights Movement, 1955-1968
2. Delivery of streamed content will require specific no-cost plug-ins on the client side.

### Cross-Project Dependencies:

1. Learning object component
2. Civil rights portal component