

Nebraska Information Technology Commission

Project Proposal Form

**New or Additional State Funding Requests
for Information Technology Projects**

FY2007-2009 Biennium

Project Title	Public Media Archive and Distribution Project
Agency/Entity	47 / Educational Telecommunications Commission

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Notes about this form:

1. **USE.** The Nebraska Information Technology Commission (“NITC”) is required by statute to “make recommendations on technology investments to the Governor and the Legislature, including a prioritized list of projects, reviewed by the technical panel, for which new or additional funding is requested.” Neb. Rev. Stat. §86-516(8) In order to perform this review, the NITC and DAS Budget Division require agencies/entities to complete this form when requesting new or additional funding for technology projects.
2. **WHAT TECHNOLOGY BUDGET REQUESTS REQUIRE A PROJECT PROPOSAL FORM?** See the document entitled “Guidance on Information Technology Related Budget Requests” available at <http://www.nitc.state.ne.us/forms/>.
3. **DOWNLOADABLE FORM.** A Word version of this form is available at <http://www.nitc.state.ne.us/forms/>.
4. **SUBMITTING THE FORM.** Completed project proposal forms should be submitted as an e-mail attachment to rick.becker@nitc.ne.gov.
5. **DEADLINE.** Completed forms must be submitted by September 15, 2006 (the same date budget requests are required to be submitted to the DAS Budget Division).
6. **QUESTIONS.** Contact the Office of the CIO/NITC at (402) 471-7984 or rick.becker@nitc.ne.gov

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Section 1: General Information

Project Title	Public Media Archive and Distribution Project
Agency (or entity)	47 / Educational Telecommunications Commission

Contact Information for this Project:

Name	Terry Dugas
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Section 2: Executive Summary

Provide a one or two paragraph summary of the proposed project. This summary will be used in other externally distributed documents and should therefore clearly and succinctly describe the project and the information technology required.

Technologies and trends are fundamentally reshaping the media landscape. Transition from analog to digital technologies presents a great challenge and a momentous opportunity. Consumers are demanding content that can be accessed anytime and anywhere, on a growing variety of platforms and devices at mind-boggling speed. There is tremendous potential to enhance public service through digital media in education, civic engagement, health care and other important public needs. The “push” of scheduled programming is steadily being replaced by the “pull” of more diverse content selected by consumers – media on “my time” that is also segmented and formatted for delivery not only on television and radio, but also on computers, cell phones, PDAs, iPods and other increasingly portable devices.

More and more Nebraskans are expanding their use of new media “spaces” to access information important to them as citizens and as individuals. New media venues such as Cable Video on Demand, Internet Video and Audio on Demand, Podcasting, Vodcasting, and mobile platforms such as cell phones and PDA’s are becoming as important to Nebraskans as traditional broadcast and cable.

To reach Nebraskans on all current and emerging media platforms, it is necessary to increase public access to the existing media created not only by NET but by other government, educational, and non-profit organizations across the state. To maximize the content produced currently and in the past by NET, it is also necessary to rethink and retool routine production and distribution tasks including capture, logging, editing, transcoding, asset management, administration and archiving content.

A public media Content Management System will optimize the State’s investment in digital technology, creating a more effective repository and distribution system of information important to Nebraska’s civically and culturally-engaged individuals and organizations. The enhanced capabilities will allow “mission-similar” partners interested in adapting the best of their content for widespread distribution across NET’s multicast and broadband services. NET’s broadcast and broadband distribution capacity has the potential to raise the profiles of the presenting organizations and extend the reach of their programs, making them more cost-effective to the presenters and broadening their service to the citizens of Nebraska.

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To develop this public media archive and expand its distribution, NET proposes to implement two integrated systems: enterprise content management (ECM), which embraces all the content of an organization, from print documents and images to multimedia and audio and video files; and Web content management (WCM), including all content made available via the Internet, broadband and portable services.

Section 3: Goals, Objectives, and Projected Outcomes (15 Points)

1. Describe the project, including:
 - Specific goals and objectives;
 - Expected beneficiaries of the project; and
 - Expected outcomes.

The public media archive will become the repository for video and multimedia content produced by NET, non-profit, government, and educational organizations within the state. The engine driving the archive is an enterprise content management system which will optimize the State of Nebraska and NET's investment in digital technology, and create a more effective repository and distribution system of information important to Nebraska's civically and culturally-engaged individuals and organizations.

The content management system capabilities will allow "mission-similar" partners to adapt the best of their content for widespread distribution across NET's multicast and broadband services. NET's broadcast and broadband distribution capacity has the potential to raise the profiles of the organizations and extend the reach of their programs, making them more cost-effective to the presenters and broadening their service to the citizens of Nebraska.

The web content management system allows content specialists throughout NET to contribute information to the internet through use of templates without knowledge of web coding such as HTML, XML or Javascript. It provides the public interface to the broadband component of the public media archive.

The specific goals and objectives are to:

- 1) Increase the amount of content which can be delivered to the people of Nebraska.
The NET archive currently consists of approximately 10,000 hours of completed content. Thousands of hours of additional content have been created by public agencies and organizations across the state. Following implementation of the enterprise content management system, the program content would be indexed with sufficient metadata to allow distribution decisions on broadband, cable, and broadcast channels.
 - 2) Following implementation of the enterprise content management system, NET could efficiently distribute content, not only through its broadcast channels, but also through cable outlets including cable channels and cable video on demand. NET would also be able to distribute content over the internet as both streaming and download on demand through traditional websites and to reach audiences through portable devices such as iPods and cell phones.
 - 3) Improve workflow while creating content. This allows NET to create more content by saving time and money.
 - 4) Improve communications both within NET and to our Nebraska constituents.
2. Describe the measurement and assessment methods that will verify that the project outcomes have been achieved.

Successful project outcomes can be measured both by the number of titles available to the public as part of the public media archive and by the number of times that content is accessed. Titles available will be

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monitored on a monthly basis. NET will also monitor the number of times content is accessed through broadband delivery. This will be accomplished through monthly web and download log analysis. The number of times a program is viewed through cable or cable on demand is more difficult to determine. Individual statistics for cable delivery are not available under current Nielsen ratings technology.

The NET web sites currently serve 6,000 pages of content. Addition of new content to the website can take up to five days and the efforts of three staff. Following implementation of the web content management system, NET expects to expand the number of pages of content by 10% within one year.

3. Describe the project's relationship to your agency comprehensive information technology plan.

This project is included in the NET Information Technology Plan for FY 2007-09 under the description "Content Management Phase 1".

The project is also included in the Long-Term Plans beyond the FY 2007-09 Biennium.

Section 4: Project Justification / Business Case (25 Points)

4. Provide the project justification in terms of tangible benefits (i.e. economic return on investment) and/or intangible benefits (e.g. additional services for customers).

Today, the need for content that can be accessed anytime and everywhere, on a growing choice of platforms, is expanding to meet a media marketplace that is becoming more and more fragmented and on-demand

Yankee Group Research estimates that by 2009, Video on Demand will be available to some 36 million homes, a compound annual growth rate of 23.85% from 2002 through 2009.

According to a study by Ipsos Insight, nearly three in four Internet Users globally surf via a high-speed connection, while the prevalence of high-speed connections as a primary access technology for users rose five percentage points in 2005 (67%) vs. 2004 (62%). The main driver of the rush to broadband is the desire to access premium content that broadband affords.

To help meet Nebraskans' need for content anytime and everywhere, NET is committed to providing universal access across Nebraska to an expanded variety of public media content.

Public Media Archive and Distribution Benefits

Nebraska has an enormous value in not only NET's 50 year inventory of television and radio programs but also in the rich content created by public, non-profit, and educational institutions throughout the state. But to make effective use of this inventory of content, it must be collected, indexed and archived to allow for distribution through the new media channels. And the content must be protected from degradation over time.

Effective indexing and archive of content will allow NET to expand its distribution of public media beyond the traditional broadcast and cable channels into new systems of delivery. NET will be able to provide public media to the people of Nebraska through cable video on demand. And NET will provide content worldwide through the use of broadband channels such as streaming, download on demand, audio and video podcasting, and to deliver to mobile channels such as cell phones.

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Providing engaging and important public media “anytime, everywhere” is a key objective of this project.

Interactive Benefits

Access to the public media archive content and other content of interest to the citizens of Nebraska would benefit greatly from the purchase, installation and implementation of a Web CMS. The audit, control and security features of such a CMS would ensure correct information is posted while protecting the privacy of the internet visitors. The templating, reporting and easy edit features (among others) would allow uploading of public media and creation of other content to be taken over by individual Departments or Units within NET. This greatly increases the number of individuals who can provide internet content to serve not only the viewers and listeners of Nebraska but also the students, teachers, and general public who depend on the rich broadband content of NET to further their understanding of the world around them.

Production Efficiency Benefits

- 1) An enterprise content management system streamlines a wide array of routine tasks in a unified production environment. This promises much more accessible capture, logging, editing, transcoding, administration and archiving of content.

- 2) A content management system allows for efficient, simultaneous work across several service areas and platforms. For example:
 - 1) Concurrent access to content gives broadcast program producers an opportunity to design and edit productions for broadcast in a timely fashion, integrating all elements: from video to audio to graphics and animations.
 - 2) Concurrent access means that another producer can create multiple iterations of the content for extensive and efficient distribution to on-demand devices across broadband and cable platforms.
 - 3) Early access to production content allows the promotions staff to better inform the public of the existence of content, thus increasing its audience size and value of the citizens of the state.
 - 4) Early access to content allows the education staff to work with teachers to maximize the educational value of locally created content, both from the broadcast / cablecast of the program as well as through internet delivered educational resources.

5. Describe other solutions that were evaluated, including their strengths and weaknesses, and why they were rejected. Explain the implications of doing nothing and why this option is not acceptable.

No comprehensive public media archive exists in Nebraska. Content is often unavailable, or available only from specific, often little known, channels. This makes it difficult for the people of Nebraska to find content that could make a positive impact on their lives.

Enterprise Content Management System

In previous fiscal years, NET investigated content management systems from several vendors. The decision was made to take initial steps in this area through investment in non-linear editing systems by Avid. Over the past several years, the NET Production Services staff has grown highly skilled and experienced with Avid systems.

This knowledge base drove the decision to implement an Avid shared access editing system known as Avid Unity ISIS in 2006. The enterprise content management system is an extension of the investment in

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Avid Unity ISIS, taking advantage of existing shared access storage and compatible applications and hardware.

To do nothing would limit NET to a linear delivery system from acquisition to contribution, thus limiting NET's ability to create new content, access content previously created, and integrate content for public media partners into the web content management system.

Web Content Management System

NET investigated three approaches to a web content management system. The first was, do nothing. The existing workflow of web publishing at NET has reached maximum capacity for the 3 FTE staff. Despite having reached production capacity, increased demands for web content continue to be made. Content is being produced for radio, television, and in multimedia which would be enhanced by a web presence. Expanded web presence would enhance ongoing educational and community outreach initiatives. And new channels of distribution for content over the internet are being developed which require web space. Doing nothing would limit the availability of information and the availability of content for the people of Nebraska.

NET then investigated the custom development of web content management systems by local and regional vendors. While this would allow NET the greatest control over the functions of the system, the cost of custom built systems was high compared to other alternatives. In addition, the ongoing cost of third party support of a custom system would quickly overwhelm the funding available to NET.

The third option explored, and the one chosen, was to purchase a packaged web content management system. Vendors such as Artisa, Documentum, and RedDot provide turnkey software solutions and have experience in working with public media clients. These CMS provide the needed functionality with strong, yet affordable customer service.

6. If the project is the result of a state or federal mandate, please specify the mandate being addressed.

No state or federal mandates are being addressed.

Section 5: Technical Impact (20 Points)

7. Describe how the project enhances, changes or replaces present technology systems, or implements a new technology system. Describe the technical elements of the project, including hardware, software, and communications requirements. Describe the strengths and weaknesses of the proposed solution.

NET has several work groups with independent Local Area Networks (LAN):

- Network Operations has four (4) LAN systems; they are Television Broadcast (Leitch), Network Management Control System (ILC) and Non-Broadcast (Network 3 & NET-UNO) and the NET building LAN for document transfer and e-mail. The four networks are not interconnected.
- Radio has one (1) LAN system for audio production and the NET building LAN. The two networks are not connected.

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- Television Production has one (1) LAN system for video production and the NET building LAN. The two networks are not connected.
- Television Programming, Traffic, and Promotions operates off the building LAN.
- Multimedia operates off the building LAN and (1) Wide Area Network for content distribution
- Graphics operates off the building LAN

Because these networks are not interconnected nor managed within a single content management system, content at NET is created in isolation. Video, graphics, and multimedia elements are created in their individual systems. Then the elements are transferred to a physical media such as tape or CD and hand carried from one system to another. Media elements cannot be easily accessed through the building LAN due to file size and connectivity issues. This makes collaboration difficult and workflow becomes convoluted, as media elements pass each other in the hallway. Only written content is easily shared by working groups within the building.

Implementation of an enterprise content management and web management system will fundamentally change the content creation and distribution process at NET. It will allow for greater collaboration within a working group, promoting more efficient and higher quality production. It will allow for easier and faster distribution of content both within NET and outside. Improved distribution increases the value of content produced by NET and acquired from its local, state, and national partners.

Enterprise Content Management – How does it work?

The enterprise content management system provides real-time shared storage of content assets integrated with ingest, production, encoding, playout, and archive tasks for up to 100 connected systems.

Working groups of any size can now achieve increased productivity through a wide array of time-saving workflow functions. Content producers can dramatically streamline production tasks including capture, logging, editing, transcoding, asset management, administration and archive.

Integrated with a web content management system and NET's existing broadcast and cable cast distribution, an enterprise content management provides enhanced access, efficiency, and flexibility in delivering content to the state of Nebraska and the world.

Adding content – How does it work?

The enterprise content management system contains tools allowing staff to ingest and view content, log the content using metadata, and store the content in the media archive without having to tie up edit suites or other production facilities to perform essential tasks.

Producers, assistants, and others can easily locate media assets from the archive by performing simple or extended searches, and then click on any clip to view the media on their desktops, directly from shared storage. In addition to viewing media assets, users can add annotations and custom fields, which would further identify the media to any other user.

Archive – How does it work?

The enterprise content management archive is integrated with spinning disc servers for near term and "Linear Tape Open" (LTO) tapes for long-term archival storage. Users can choose the media to send to archive while in the editing or logging process and execute with a single command.

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When a user wants to search for media, a single search command will simultaneously search the online storage, near-line storage, and deep archive. To restore media from the deep archive, users select the media that has been located by the search that they would like to restore, and then initiate a restore command.

This integrated archive capability makes it easy to archive and restore media and metadata in its native editing format, allowing editors to quickly and easily locate and use archived media or NET to quickly deliver completed programs to its multi-platform distribution network.

Web and IP Delivery – How does it work?

Using the enterprise public media content management system, an editor or producer can create a video, along with images, audio, and text. This content can then be exported to the web content management system and published to multiple online delivery sites.

Web producers can create online page templates using the web content management system based on the station's existing branding and page design, so that stories can be dynamically generated, published to the Web, updated and archived for a completely expanded audience experience.

8. Address the following issues with respect to the proposed technology:
 - Describe the reliability, security and scalability (future needs for growth or adaptation) of the technology.
 - Address conformity with applicable NITC technical standards and guidelines (available at <http://www.nitc.state.ne.us/standards/>) and generally accepted industry standards.
 - Address the compatibility with existing institutional and/or statewide infrastructure.

The proposed enterprise and web content management systems are designed around industry standard hardware and software, in use throughout both the commercial and the public media industry. Additional clients and storage can be added as needed for future expansion without modifying the core management systems.

Section 6: Preliminary Plan for Implementation (10 Points)

9. Describe the preliminary plans for implementing the project. Identify project sponsor(s) and examine stakeholder acceptance. Describe the project team, including their roles, responsibilities, and experience.

NET proposes to expand its capacity for tapeless field production in FY '07-'08 to maximize the use of the enterprise public media content management system. The Radio content scheduling system software will be updated in FY '07-'08 to the same software used to schedule Television content. The web content management system will be purchased and installed in FY '07-08.

In FY '08-'09, the archive capacity of the enterprise public media content management system will be increased. The software components allowing for the integration of graphics and multimedia content into the content management system will be purchased and installed. And the software allowing the content management system to convert broadcast format video into multiple forms of internet video will be purchased and installed. Finally, the tapeless field production capacity will be expanded.

Input to this plan has originated from all departments of NET involved with enterprise and web content management as represented by the following individuals.

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Overall project manager for the public media archive and delivery system is Terry Dugas, Manager of NET's Learning Services. Mr. Dugas has 27 years experience in both commercial and public broadcasting, including holding the position of Station Manager in both areas. He was overall project manager for a 7.5 million dollar grant from the Department of Defense.

Phil Hammar, Production Services Manager, will be project manager for the public media content management element of the NET Production Department. Mr. Hammar started his professional career in the music recording and sound re-enforcement industry and has served NET since July of 1981 as an audio engineer, lead audio engineer, EFP/Editing manager. He has held the position of Production Services manager since 2001.

Scott Leigh, Senior Producer, Interactive Media Group, will be the project manager for the web content management system. Mr. Leigh is the webmaster for NET. He has produced a wide variety of Web-based educational and training courses for external clients, has provided major revisions of Web-based materials for several divisions of UNL, manages the day-to-day operation of NET's Web site(s) and is in charge of gradually revamping those site(s) to promote the long-term enterprise-wide use of a Web Content Management System.

Bob Huber, Engineering Director of Network Operations, will be the project manager for integration of the new distribution systems with the existing NET delivery system. Mr. Huber has worked at NET for ten (10) years in Distance Learning Services and Network Operations.

10. List the major milestones and/or deliverables and provide a timeline for completing each.

FY '07-'08

Web content management system implementation

Summer 2007 – Identify specific web content management system software. Identify hardware and network needs

September 2007 - Purchase software and equipment through State Purchasing Bid process

January 2008 – Install software and equipment and implement training

April 2008 – Transition existing web sites to web content management system

Radio traffic system implementation

Summer 2007 – Purchase software through State Purchasing Bid process

September 2007 – Installation of software and integration with existing Television scheduling system

October 2007 – Training of staff on new traffic software

November 2007 – Transition existing radio traffic system to new traffic system

Television tapeless field production

April 2007 – Identify specific tapeless field production system

Summer 2007 – Purchase equipment through State Purchasing Bid process

September 2007 – Integrate field production system into existing components of the enterprise content management system

FY '08-'09

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Archive expansion

Summer 2008 – Identify specific equipment and storage needs to expand enterprise content management archive capacity for production content and graphics
September 2008 – Purchase equipment through State Purchasing Bid process
November 2008 – Integrate additional storage capacity into enterprise content management system

Graphics and Multimedia integration

Summer 2008 – Identify specific hardware and software required to fully integrate graphics and multimedia content into the enterprise content management system
September 2008 – Purchase equipment through State Purchasing Bid process
November 2008 – Integrate graphics and multimedia components into enterprise content management system

Web and IP integration

Summer 2008 – Identify specific hardware and software required to transcode content into multiple delivery formats within the enterprise content management system
September 2008 – Purchase equipment through State Purchasing Bid process
November 2008 – Integrate transcoding components into enterprise content management system

Television tapeless field production

Summer 2008 – Purchase equipment through State Purchasing Bid process
September 2008 – Integrate field production system into existing components of the enterprise content management system

11. Describe the training and staff development requirements.

As new public media content management elements are deployed, formal training from the software and hardware vendors will be provided to key staff in a “train the trainer” approach. These staff will provide wider training to staff expected to use the content management systems.

Avid, the potential vendor for the enterprise content management system, provides both “Certified Support Representative” training to support technical and network staff and “Certified Instructor” training to support end users.

RedDot, the potential vendor for the web content management system, provides three levels of training to support administrators and end users.

12. Describe the ongoing support requirements.

Within NET’s budget there are designated line items for maintenance of the current technical infrastructure. These will continue to exist. By expanding the system with new equipment and software, there will be a new warranty period that will lessen, somewhat, the immediate impact. Following expiration of the initial maintenance agreements, extended agreements will be negotiated and budgeted for within NET’s budget.

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Section 7: Risk Assessment (10 Points)

13. Describe possible barriers and risks related to the project and the relative importance of each.

There should be no technological barriers to this project. Enterprise and web content management systems are based on well tested and widely deployed hardware and software. Barriers exist whenever long standing work practices are changed. Staff must learn new methods of collaboration and will be working in greater collaboration with other staff than before. Failure to embrace new methods of content development and distribution would decrease effectiveness of both content management systems. The greatest barrier is lack of funding for the project. NET does not have sufficient capital reserves to self fund this initiative. Failure to employ enterprise and web content management system will decrease the amount of content which can be delivered to the people of Nebraska and increase the difficulty non-NET content providers will have in reaching their target audiences.

14. Identify strategies which have been developed to minimize risks.

Changing work habits will occur through extensive training in the content management systems. Individuals will be identified in each department as "early adopters" to champion the benefits of new methods of collaboration and content distribution through example.

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Section 8: Financial Analysis and Budget (20 Points)

15. Financial Information

Financial and budget information can be provided in either of the following ways:

(1) If the information is available in some other format, either cut and paste the information into this document or transmit the information with this form; or

(2) Provide the information by completing the spreadsheet provided below.

Instructions: Double click on the Microsoft Excel icon below. An imbedded Excel spreadsheet will be launched. Input the appropriate financial information. Close the spreadsheet. The information you entered will automatically be saved with this document. If you want to review or revise the financial information, repeat the process just described.



Financial information from the embedded spreadsheet appears at the end of this PDF version of the document.

16. Provide a detailed description of the budget items listed above. Include:

- An itemized list of hardware and software.
- If new FTE positions are included in the request, please provide a breakdown by position, including separate totals for salary and fringe benefits.
- Provide any on-going operation and replacement costs not included above, including funding source if known.
- Provide a breakdown of all non-state funding sources and funds provided per source.

Fiscal Year '07 – '08

Web Content Management

VM Ware server memory - \$6,000

Windows OS licenses - \$700

Linux OS licenses - \$2,000

RedDot Web Content Management System - \$125,000

Advanced RedDot Training - \$12,000

Consulting services for CMS product analysis and needs assessment - \$8,000

Consulting services for CMS migration of all existing NET websites - \$25,000

Radio Traffic Management

Myers "ProTrac" Traffic Management System for NET Radio - \$16,000

Tapeless Field Acquisition

Ikegami HDN-X10 EditcamHD - \$55,000

Fiscal Year '08 – '09

Archive storage

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Avid Unity ISIS Storage Chassis. 16 TB capacity with sixteen i1000 Storage Blades - \$115,000
Avid Interplay graphics interface – 30,000
Xiotech Magnitude 3d 3000 e storage, 2 TB capacity for graphics content - \$30,250

Broadband distribution expansion

Avid Interplay transcode for multiple media formats, hardware and software - \$75,000

Tapeless Field Acquisition

Ikegami HDN-X10 EditcamHD - \$55,000

Fiscal Year '09 – '10

Archive storage

Xiotech Magnitude 3d 3000 e storage, 10 TB capacity - \$78,000
StorageTek SL-500 LTO tape archive, 120 TB capacity - \$89,000
Catalyst 6500 firewall/switch with blades and supervisor unit - \$100,000
Xiotech SATA Raid expansion for radio storage, 5 TV capacity - \$39,000
Dell Server Poweredge 6850 - \$14,000
Additional cabling and labor - \$36,000

Tapeless Field Acquisition

Ikegami HDN-X10 EditcamHD - \$55,000

Fiscal Year '09 – '10

Archive storage

Avid Unity ISIS Storage Chassis. 32 TB capacity with thirty-two i1000 Storage Blades - \$239,990
Annual Software Licensing and Cisco Smartnet agreement - \$14,000

No new FTEs are required to implement or sustain this project.

This project is an extension of the operational conversion of NET's digital production and distribution systems (which was previously funded by the State), and will be integrated into existing operational structures. No additional operational liabilities or sustainability risks are anticipated.

NET aggressively pursues Federal and foundation support dollars for all projects. When appropriate, NET also pursues partnerships with other state agencies and educational institutions which address project priorities and opens additional funding opportunities from non-state sources. No specific non-state funding sources have been identified at this time.

17. Please indicate where the funding requested for this project can be found in the agency budget request, including program numbers.

The project can be found in the document titled "FY 2008 & 2009 BIENNIAL BUDGET NARRATIVES." Within the section titled "New Capital Construction Projects" it is labeled as project "CC-4 Public Media Archives and Distribution Project."

It is also listed in "Report 5 – Capital Construction New Requests" as line item CC-4.

This can be found in the:

Capitol Construction Project Request – Building Level – 60
Agency 47 Educational Telecommunications Commission
Program 923 "Public Media Archive"

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Pages 31-43

Pulbic Media Archive and Distribution Project

	Item	FY07-08	FY08-09	FY09-10	FY10-11	Project Total
Archive	Avid Unity ISIS Storage Chassis		\$115,000			
	Avid Interplay graphics hardware and software interface		\$30,000			
	Xiotec Server Storage for AVID Interplay		\$30,205			
	Xiotech Magnitude 3d 3000 e storage			\$78,000		
	Storagetek SL-500 LTO tape archive			\$89,000		
	Catalyst 6500 firewall/switch with blades and supervisor unit			\$100,000		
	Xiotech SATA Raid expansion for radio storage			\$39,000		
	Dell Server Poweredge 6850			\$14,000		
	Cable and Labor			\$36,000		
	ISIS storage expansion				\$239,990	
	Cicso License and Maintenance				\$14,000	
Broadband Distribution	Avid Transcode for multiple media hardware and software		\$75,000			
Production	Ikigami tapeless field acquisition	\$55,000	\$55,000	\$55,000		
Radio Traffic Management	Protrack Software Upgrade	\$16,000				
Web Content Management	VMWare server memory	\$6,000				
	Consultation regarding product specification	\$8,000				
	OS licenses	\$700				
	Web Content Management System (CMS) software	\$125,000				
	Training in use of purchased software	\$12,000				
	Server licenses	\$2,000				
	Consultation regarding migration of existing website	\$25,000				
FY Totals		\$249,700	\$305,205	\$411,000	\$253,990	\$1,219,895