

UNIVERSITY OF NEBRASKA-LINCOLN
Office of University Services
Purchasing Department
1700 "Y" Street
Lincoln, Nebraska 68588-0645

April 2, 2008

Invitation Number 204196

ADDENDUM NO. 2

Request for Proposals #204196
For
Media Archival Storage System (MASS)

The following information is provided regarding questions to the initial Request for Proposals #204196, Media Archival Storage System which proposals are scheduled for public opening Thursday, **April 24**, 2008 at 2:00 PM, local time:

1. Q: Will we want to bring 3rd party software (SATI) and will we add storage on to unity,
A: Media Ingested into the MASS should be DVCPro100, P2 MXF files, Avid DnxHD files. Legacy footage should be ingested and stored in the MXF file format at a resolution minimum of DVCPro 50 compression. Adding Unity storage will be required for the system to operate but is a separate line item for bidding.

2. Q: MXF files H264 processing metadata what codec will be used for archival proxy and will it come from the camera vendor?
A: Proxy video clips of ingested media should use the H.264 Quicktime compression format for viewing via the content and metadata application. If these clips are viewed by other than UNL Athletics via the internet then Proxies need to contain watermarking stamp on them.

3. Q: Objective for ingest into the new archive system involved camera ingest at a later date in file transfer rather than capture, are DEC Pro 50 and 100 still the targets?
A: MXF files and other media stored on the archive drive must be able to be imported into the current Avid Unity drive for editing with Avid Composer 2.8 configured with Adrenalines

4. Q: Archival system with high available cache, is there any interface with avid unity in the design expectations?
A: While some of the metadata of the clips may not transfer to the Avid editing environment the original ingested material must maintain its metadata. Avid projects that are sent back to the archive need to have additional metadata added to them describing the project and media used

5. Q: Digital output, will be media and xml data available to take out?
A: By moving a project and media from on-line Avid back to the archive storage after editing, at a later date the project can be reloaded back to the on-line editing environment for additional modifications.

6. Q: The flavor of MPEG 2, any particular codec or wrapper info we should be aware of? or are we

allowed to take liberties to propose?

A: We would entertain information on the Mpeg2 signal that we may wish to use, however the archived footage should be MXF format with minimal compression such as DVCPro100. Video compressed in an Mpeg 2 format should be selectable I-Frame at 50-100 Mb/s and 4:2:2 color sampling.

7. Q: Does the bidder need to offer an avi or build a bridge to huskers.com?

A: Building an API is a necessary step but we will want a fully functional bridge to huskers.com or the website domain that we would chose a media link to be available on. This will again be a separate line item bid for this project.

8. Q: What sorts of links are needed at huskers.com, or is it simply search, looking at thumbnails, video downloads?

A: A secure link given to view watermarked proxy file resolution that has been linked by HV staff, this should not allow for selection of any clip, any hi-res video requests would send email to HV staff and it would be posted for download after purchase.

9. Q: Have the ability to view by proxy before they make a selection?

A: A secure link given to view watermarked proxy file resolution that has been linked by HV staff, this should not allow for selection of any clip.

10. Q: Can videos be filtered specifically? View them in proxy? And retrieve hi-res over wire?

A: Yes

11. Q: Is anyone bidding to this workflow? Infrastructure is outside the bid of the vendors?

A: An Infrastructure requirement for connectivity between content server and outside the university users is not listed in this RFP.

12. Q: Can we get data regarding line speed? How many people can access?

A: Will give line speed lists if needed

13. Q: The server, 48 terabytes of high availability cache, is it all high availability?

A: The initial requested 48TB are to be all on-line archival with tape backup to move archived footage to an off-line shelf.

14. Q: Viewing clips or video is there a login or accounting system, regarding order system?

A: A secure link given to view watermarked proxy file resolution that has been linked by HV staff, this should not allow for selection of any clip, any hi-res video requests would send email to HV staff and it would be posted for download after purchase.

15. Q: Expansion of 12 terabytes, final cut able to access from an avid environment or mass?

A: The 12TB storage is for the Avid editing for post production.

16. Q: Metadata for editing notes, expectations for metadata in final cut?

A: Searching proxies and metadata will allow for the selection of full resolution footage to be moved to the editing environment.

17. Q: Expectations to pass clip list to final cut, browse proxy, create sequence, call up hi-res material to pass final cut, will metadata support be a part of that?

A: Preferred if metadata was supported

18. Q: Internet delivery content, is it the mainstream agility?

A: Currently the only server to compress files and live stream to the internet is the Agility Anystream.

19. Q: Not clear about exporting media in Quicktime wrapper in/out system?

A: Exporting media is not directly a function of the archive storage but rather completed in the editing environment or the Agility Anystream.

20. Q: Clarification, who will be doing the Quicktime encoding?

A: Exporting media is not directly a function of the archive storage but rather completed in the editing environment or the Agility Anystream.

21. Q: Upon August 1st completion date, when is equipment delivery to start?

A: Delivery of equipment should begin in a timely matter to allow for adequate installation time so that training can be done and operation can begin on August 1, 2008.

We will archive legacy footage, and current year footage during the fall 2008 football season and will work to provide digital content file delivery as we migrate the facility to HD.

Media Relations will need to be able to access the files through proxy form and input metadata.

Two phases for storage of legacy video or approximately 500 to 600 video hours of footage will need to be logged into the system and an average of 50 video hours per year since 1994 need to be logged in to the system.

We are not using media manager at the time and do not have transfer manager or interplay installed, a common drive scenario using Unity 4.15

We are managing with media tool only within the Avid environment.

Clarification to the bid document:

Bid due date has been moved to April 24, 2008, 2:00 P.M. Local Time

The first paragraph of section 1.2 should read as follows (added text is in bold italics:)

The University of Nebraska Athletic department is seeking an archival and storage system for HuskerVision and Media Relations. ***The archival and storage system must provide the ability to ingest footage, provide storage, and give us the ability to retrieve media materials such as audio/video, photos, and printed files. It will also provide us access to media files from the Avid Unity system for video production editing as well as allowing for proxy editing while traveling away from the main control room environment. If the technological ability exists, and it is cost effective, our desire is to use a web based portal interface to provide content delivery of audio/video, photos, and printed files.***

Section 1.2 A is modified as below (added text is in bold italics:)

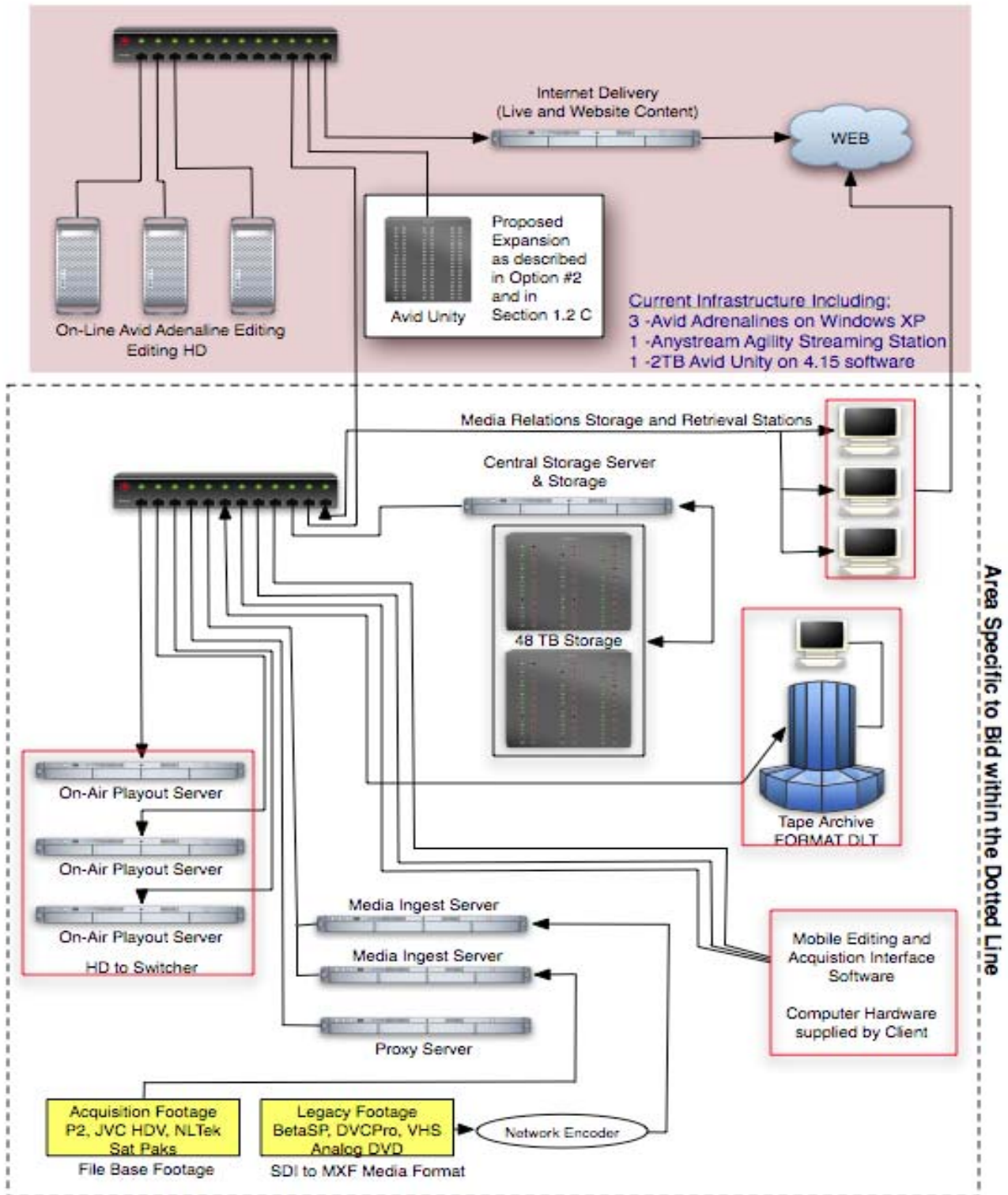
A. The system will be used initially by HuskerVision and Media Relations and provisions will be made to expand the system for future use by other units within the Athletic department. ***As a separate option line item***, a portal based web server system (managed by Media Relations) will be capable of, but not limited, to providing features such as on-line registration for camps and events, calendars, photo delivery, audio and ***secure login infrastructure for*** video delivery in high definition resolution, a watermarked proxy resolution, and an interface with credit/debit card ***or PayPal*** purchasing functions. ***Please price this as option #1 as shown in the price summary break out.***

Section 1.2 C is modified as below (added text is in bold italics:)

C. The Media Ingest Server/Central Storage must have a minimum capacity of 48TB and be expandable by adding modules. The central storage must have the ability to rebuild a failed drive with no loss of data during the process. The tape archive must allow for automated and manual backups of media files, as well as the ability to restore **archived media back** to the central storage for additional editing. The configured drives and servers should be connected with 4G Fiber interfaces and 10G Ethernet infrastructure. A likely scheme would be to provide online, near line, offline, and deep storage, a high quality proxy will be created from every clip for review and creating an edit decision list (EDL) for media retrieval to the on-line editing systems.

As a separate option line item, the existing Avid On-line Editing capacity must be ***increased to facilitate more on-line HD media storage*** to a minimum of 12TB, capable of expansion, and this line item must be compliant with our current Avid Media Composers operating under the Windows XP OS and allow for partitions to be created and accessed by other editing solutions such as Final Cut Pro and their operating systems. (Current on-line editing stations are made up of Avid Unity 4.1.5 and Avid XP Adrenalines with Media Composer 2.8.) ***Please price this as option #2 as shown in the price summary break out.***

Workflow block diagram has been modified:



Section 1.3 Price Summary should be modified to reflect the above changes:

1.3 Price Summary :

(A) **Total Purchase Price for Software*:**

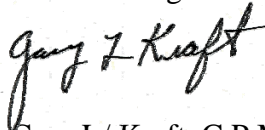
(B)	Media Ingest Servers:	\$ _____
(C)	Central On-line Storage	\$ _____
(D)	Tape Archive Solution	\$ _____
(E)	Cabling and installation	\$ _____
(F)	Training	\$ _____
(G)	Support year 3:	\$ _____
(H)	Support year 4:	\$ _____
(I)	Support year 5:	\$ _____
(K) OPTION 1:	Construct the secure login web based content portal	\$ _____
(J) OPTION 2:	On-Line Editing Storage (Avid compatible if 3 rd Party Solution)	\$ _____

2.4.5 One, or more, vendors may be required to make presentations to the selection committee on their proposed solution for this RFP. It is expected that the presentation(s) will be held at UNL, and they will occur the week of *April 28 – May 2, 2008*.

All other specifications remain the same.

For further information, please contact the buyer, Tom Hansen , Purchasing Department, Phone (402) 472-8398.

University of Nebraska-Lincoln
Board of Regents



Gary L/ Kraft, C.P.M.
Director of Purchasing & Materiel Services