



ESPECIFICACIONES

MAM | INGEST | XEN DATA | QUANTUM

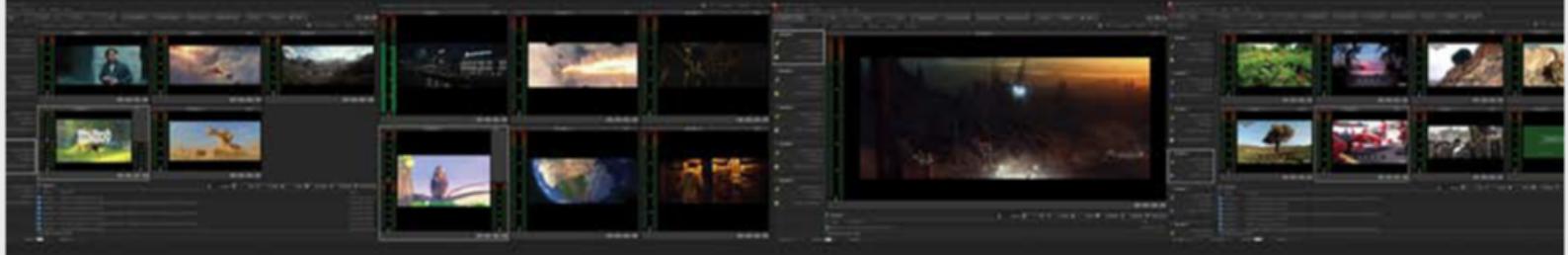




Gestionar, proteger, buscar y compartir miles de archivos, clips, imágenes y otros activos a nivel de grupo de trabajo, a través de la Intranet o globalmente por Internet

- Sistema escalable y desplegable desde un sólo puesto de sobremesa a cientos de clientes
- Soporta ficheros de tamaño con cientos de TBs, conteniendo millones de activos
- Arquitectura de servidor distribuido que permite una expansión sin límites
- Compatible con una amplia gama de contenedores de archivos (MPG, M2(MPG, M2P, AVI, F4V, MXF, GXF, MOV, XDCAM, MP4, TS, WMV, WAV, M4A, P2, Microsoft Smooth Streaming™)
- Compatible con una amplia gama de esencias de video y audio (MPEG2, DV, DVCPRO, sin compresión, DVCPRO50, DVCPRO100HD, DNxHD, H.264/AVC, AVC-Intra, Apple ProRes, IMX, VC-1, PCM, AAC, WMA)
- Compatible con formatos de propietarios a través de componentes de terceras partes
- Soporta ficheros de audio, imagen, word, excel, pdf y texto
- Transcodificación entre formatos soportados con su propio motor de transcodificación
- La transcodificación se puede implementar en un único servidor o configurado como una granja de servidores con equilibrio de carga
- Ficheros proxy configurables para su reproducción en la red
- Soporta múltiples (sin límite) formatos de video y calidades por activo
- Windows, MAC y web clients
- Los plug-ins para Sony Vegas™, GV Edius™, Adobe Premiere™, y Apple Final Cut™; permiten la edición proxy en el servidor con cada aplicación
- Plug-in para sistemas de newsroom
- Soporta entornos de Avid
- El media player permite marcar entrada/salida, reproducción rápida/lenta, definición marcador/región, censor de video y audio
- Soporta audio multicanal
- Edición Rough Cut
- Soporta recuperación parcial con transcodificación opcional (trimar y transcodificar)
- Estructura de metadatos flexible, personalizable por el usuario sin ningún tipo desarrollo

- Importación y exportación de paquetes de metadatos comunes tales como Cable Labs, VOD, Dublin Core, OpenArchive, MXF, EXIFF, IPTC y más...
- Importación y exportación de metadatos personalizados vía XML
- Posibilidad de importar activos desde aplicaciones MAM y bases de datos de terceros
- Modos de búsqueda simple y avanzada
- Generación de playlist y exportación a servidores de playout y sistemas de automatización
- Control de remoto de servidores de playout
- Mecanismo "watch folder": archivo automático de contenidos de la carpeta o con cualquier campo de metadatos
- Soporta marca de agua de video con código de tiempo, logo o texto
- Control remoto de Metus INGEST desde dentro de la aplicación MAM
- Integración con información de hospital y sistemas PACS opcional
- Comparación de imágenes / búsqueda de imágenes en video opcional
- Web client / acceso MAM sobre internet / intranet opcional
- Servicio web API de alto nivel opcional para integración personalizada con web sites y sistemas de terceras partes
- Soporta escenarios de mirroring y clustering para almacenamiento y base de datos
- Incluido en varios niveles del sistema de gestión de seguridad y derechos de usuario, gestión de solicitudes para usuarios con permisos limitados
- Modos de archivo abierto y protegido (disponible para otras aplicaciones)
- Reproducción y edición de contenido creciente (que aún está siendo capturado) • Integración con Active Directory
- Control de versiones basado en metadatos y ficheros y varios niveles de la función "undo"
- Soporta cualquier tipo de almacenamiento tales como NAS, SAN, DAS, CLOUD
- Soporta sistemas de almacenamiento "nearline-offline" que van desde una única unidad de cinta a grandes bibliotecas de cintas
- Se ejecuta bajo sistemas estándares certificados de hardware de la industria por todo el mundo
- Información Lifecycle Management basada en el sistema y metadatos personalizados



Nada es comparable cuando se trata de rendimiento. Ingest es una parte importante de una herramienta de captura. Ofrece más de lo que necesitas por menos de lo que piensas

- Operación multi canal, multi perfil
- Captura de múltiples formatos simultáneamente desde la misma fuente
- Soporta una amplia gama de contenedores de ficheros: (MPG, M2P, AVI, F4V, MXF, MOV, XDCAM, MP4, TS, WMV, WAV, M4A, P2)
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- Soporta una amplia gama de esencias de video y audio (MPEG2, DV, DVCPRO, DVCPRO50, Apple ProRes, H.265 / HEVC, DVCPROHD, sin compresión, H.264, AVC/AVC-Intra, IMX, VC-1, PCM, AAC, WMA, Avid DNxHD/IMX/XDCAM/JFIF)
- Compatible con dispositivos I/O: Blackmagic Decklink, Viewcast Osprey, Deltacast, Matrox, AJA, tarjetas sólo audio
- Compatibilidad HD estándar sin coste adicional
- Permite capturar hasta 8 canales HD en un solo chasis (consultar los requerimientos de hardware y formato de captura)
- Codificación por hardware acelerado H.265 / H.264 en plataformas soportadas (Intel Quick Sync y Nvidia)
- Salida de streaming IP simultánea: permite captura y streaming de diferentes formatos desde la misma fuente al mismo tiempo (UDP, RTP, RTMP) • Captura de streams IP, con transcodificación
- Captura de audio multi canal (SDI embebido o desde un dispositivo de audio) a ficheros MPEG, MXF, MP4, MOV, AVI y reasignación de canales de audio
- Modos de captura manual o programada
- Grabación en cinta (print to tape)
- Soporta la funcionalidad Closed Captioning - sub
- Soporta la funcionalidad Closed Captioning - subtítulos ocultos- (con tarjetas AJA y Blackmagic)
- Soporta grabación en ficheros LTC y VITC
- Soporta LTC Timecode desde tarjetas de código de tiempo externas, audio en-línea, tarjetas de sonido externas

- Soporta control de matrices de video (enrutadores Harris, Kramer, Blackmagic, Quartz, Jupiter y Snell)
- Soporta texto, logo estáticos y animados y superposición del tiempo en ficheros capturados
- División manual y automática de ficheros sin pérdidas
- Soporta grabación en red segura (transferencias a una ubicación en la red sobre la marcha / en tiempo real)
- Soporta edición mientras la ingesta (reproducción y edición instantánea de ficheros que están siendo capturados) en Edius y Premiere Pro
- Avid Interplay check-in
- Introducción de metadatos durante la captura
- Interface personalizable, con pantallas de previsualización individuales por cada codificador
- Teclas de acceso rápido del teclado personalizables
- Cada codificador puede ser controlado individualmente
- Aplicación central de control remoto para monitorizar y controlar varias estaciones /canales de INGESTA sobre IP
- Aplicación para iPad de control remoto
- Puede ser usado como transcodificador basado en fichero, soportando watch folder y transcodificación batch
- Protección password de operaciones críticas - Log de operaciones
- Win 7/8 pro 64 bit, Win server 2008 R2 64 bit
- Sólida fiabilidad 7x24 probada en más de 600 instalaciones
- Tutoriales, FAQ, como se hace y mucho más...
- Metus INGEST Wiki! Tu nueva guía para INGEST con Manuales incluídos Manuales incluídos <https://metuskb.atlassian.net/wiki/display/INGEST/INGEST+Home>



Solution Brief: Using a XenData Archive with Metus MAM

Metus MAM is a scalable media management system which is well proven with over 4000 installed users distributed around 50 countries. Users include TV stations, telecoms companies, webTV, IPTV operators, corporations, educational institutions, video production companies, media archives, houses of worship, government, military and security agencies.

Metus MAM was first integrated with XenData archives in 2006. Today there are many users around the world using a Metus MAM combined with a XenData archive. This Solution Brief describes the functionality of the integrated solution.

1. Introduction

Metus MAM is a scalable media management system. Its asset management and transcoding tools help workgroups catalogue, share and protect every asset and project, and optimizes every file for use. It is well proven with over 4000 installed users distributed around 50 countries. Users include TV stations, telecoms companies, webTV, IPTV operators, corporations, educational institutions, video production companies, media archives, houses of worship, government, military and security agencies.

A Metus MAM integrates well with XenData archives based on an SX-10 Archive Appliance or an SX-520 Series Archive Server. The compatible XenData systems scale from a single LTO drive to large multiple-petabyte systems with robotic libraries. The Metus integration uses a combination of XenData's file system interface and a XenData API. This gives a tight integration that includes excellent management of offline LTO and optical cartridges.

2. Metus MAM

Metus MAM is the flexible, affordable, integrated Media Archiving and Transcoding Software Suite for a wide range of requirements. With over a decade of continuous improvement, Metus MAM has broad functionality. It is a client-server based system made up of several types of client and server side components.

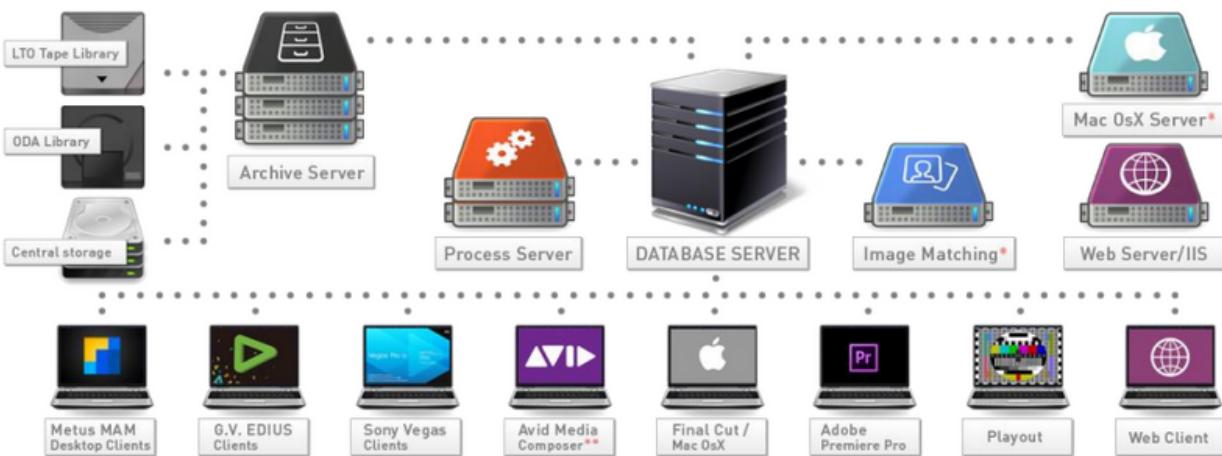
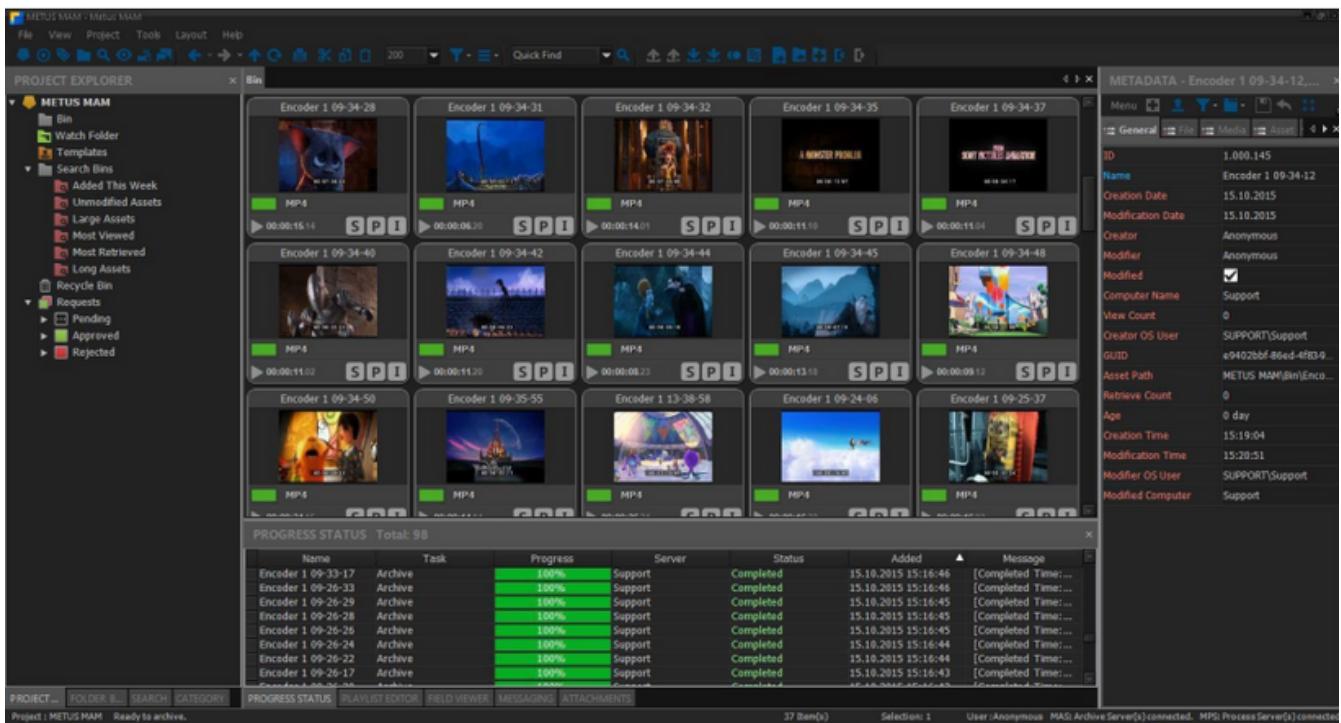


Diagram: Metus MAM Architecture.

METUS MAM Desktop Client

This is the “business end” of Metus MAM, where the users see and interact with the system. It is used generally by power users who wish to use all of the functions of Metus MAM, like transcoding, cutting, joining, and editing clips in addition to basic functions like importing, browsing, and searching. Users with admin rights also configure and administer the system from the Desktop Client. The Desktop Client also includes the Media Asset Viewer, which is a customized player application used to play the assets in normal, fast, slow, reverse speeds, mark points and regions on the assets with metadata, choose and mix between audio channels and mark in and out points.



Screenshot: Metus desktop client

METUS Archive Server (MAS)

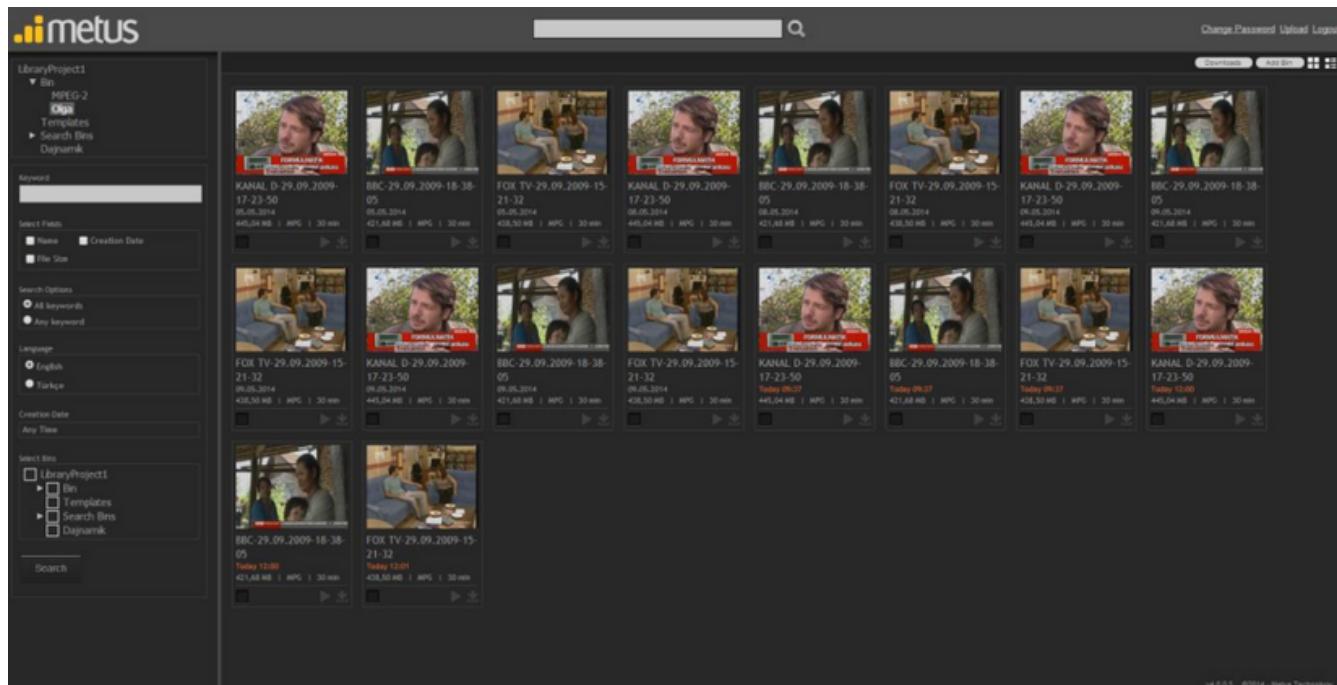
MAS is the server side component that is the glue which holds the system together. It manages the storage repositories that are defined in the system. MAS sits between the clients, the database, and the other server side components and regulates the media and data traffic. It manages media traffic, in accordance with the security levels of the assets and access rights of the users and handles the archiving process (of moving and distributing the imported files between defined storage repositories) and delivers the file path to the client, with the necessary access level enabled.

METUS Process Server (MPS)

If MAS is the brain, then MPS is the engine under the hood of a Metus MAM system. It handles all the multimedia processing that goes on inside a MAM including transcoding between the supported file formats, creating low resolution proxy copies of assets for network and web based playback, trimming files and retrieving cut sections, cutting and joining files and sections of files, audio channel mapping, remapping and embedding, packaging to TS and adaptive bitrate VOD formats and more ...

METUS Online Web Client and Web Server (MOL)

In addition to the Desktop Client, Metus MAM can also be accessed and used by a web client that can run inside all popular web browsers and from all operating systems. This lightweight client does not have all features of the desktop client, yet it allows users to import video files, enter metadata, browse the archive and play the proxy files.



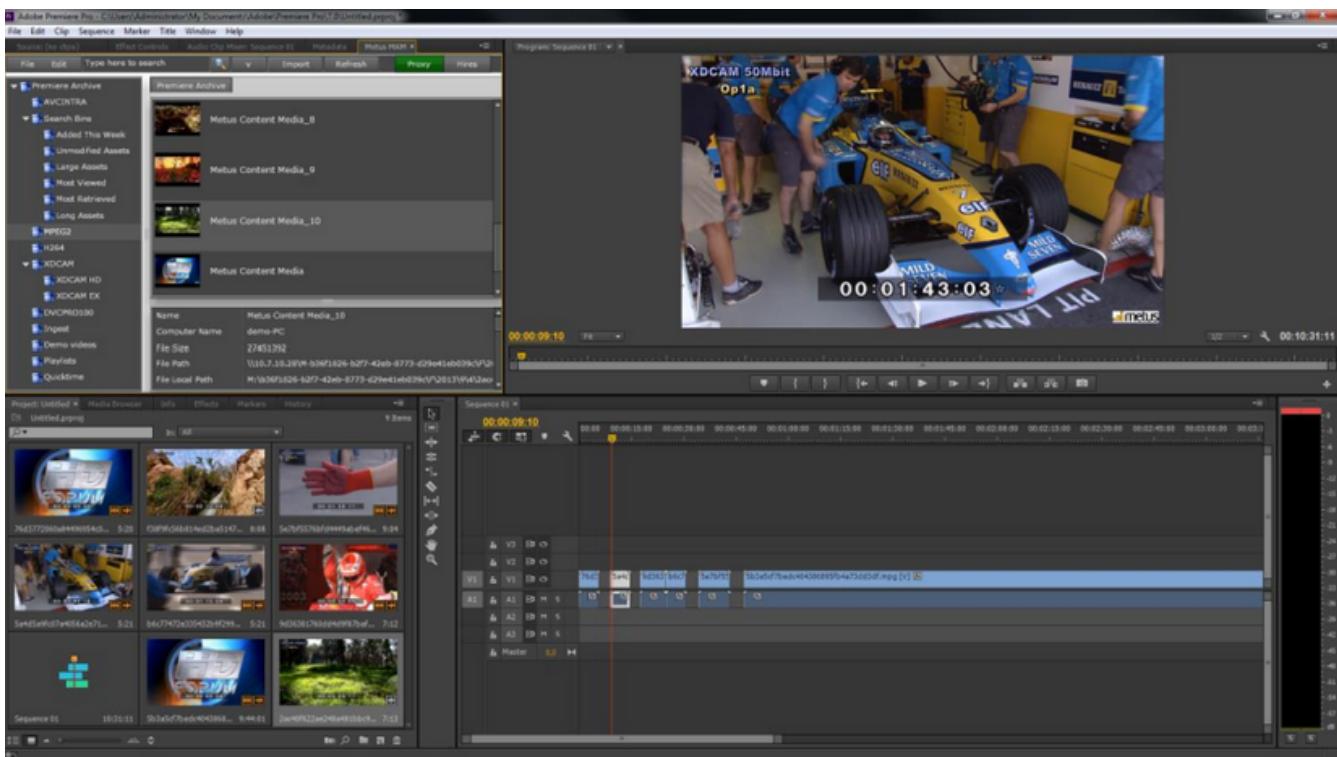
Screenshot: Metus web client

METUS Image Matching Server (MIM)

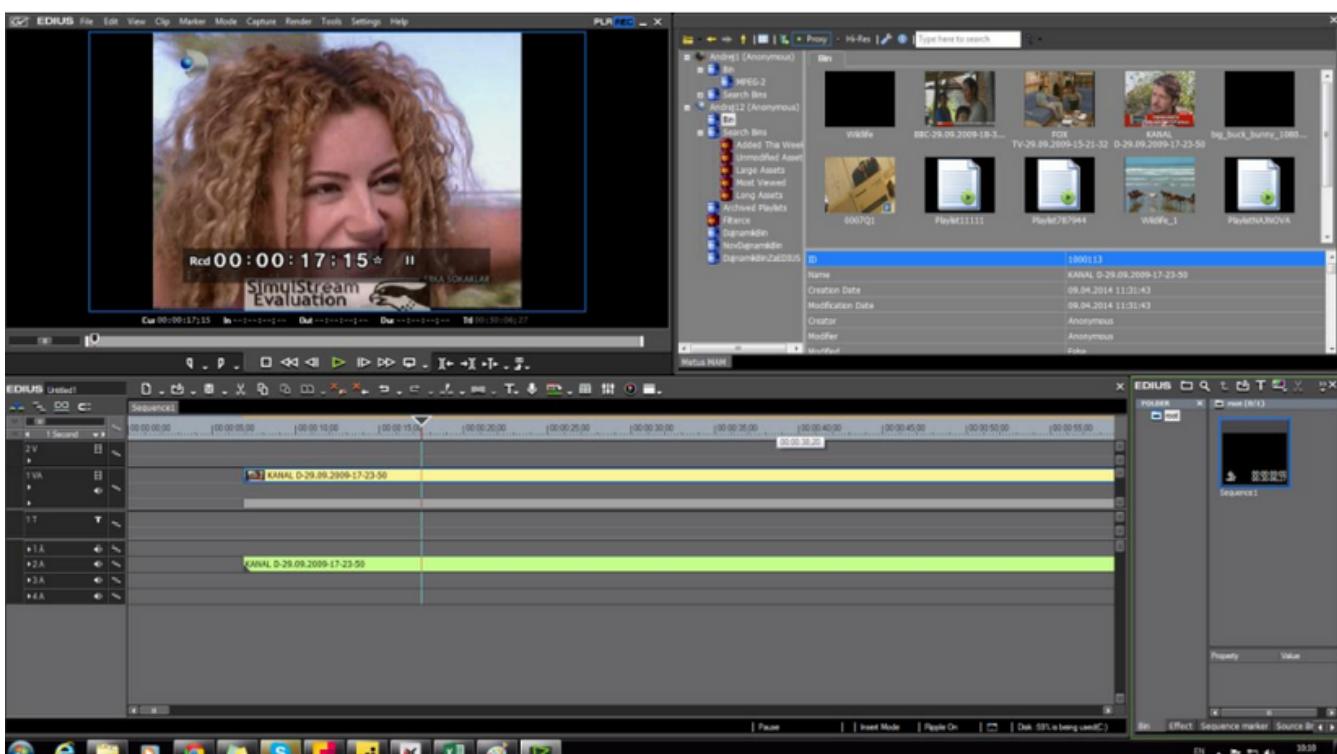
This optional server component, allows users to search a picture frame among all images and video files in the archive and display results in order of relevance. The image search is based on a custom algorithm that analyses the multimedia files in advance, calculates the visual information and writes it into the database. The image matching is then performed at the database level, allowing thousands of hours of video to be searched and compared in seconds.

METUS NLE Plugins

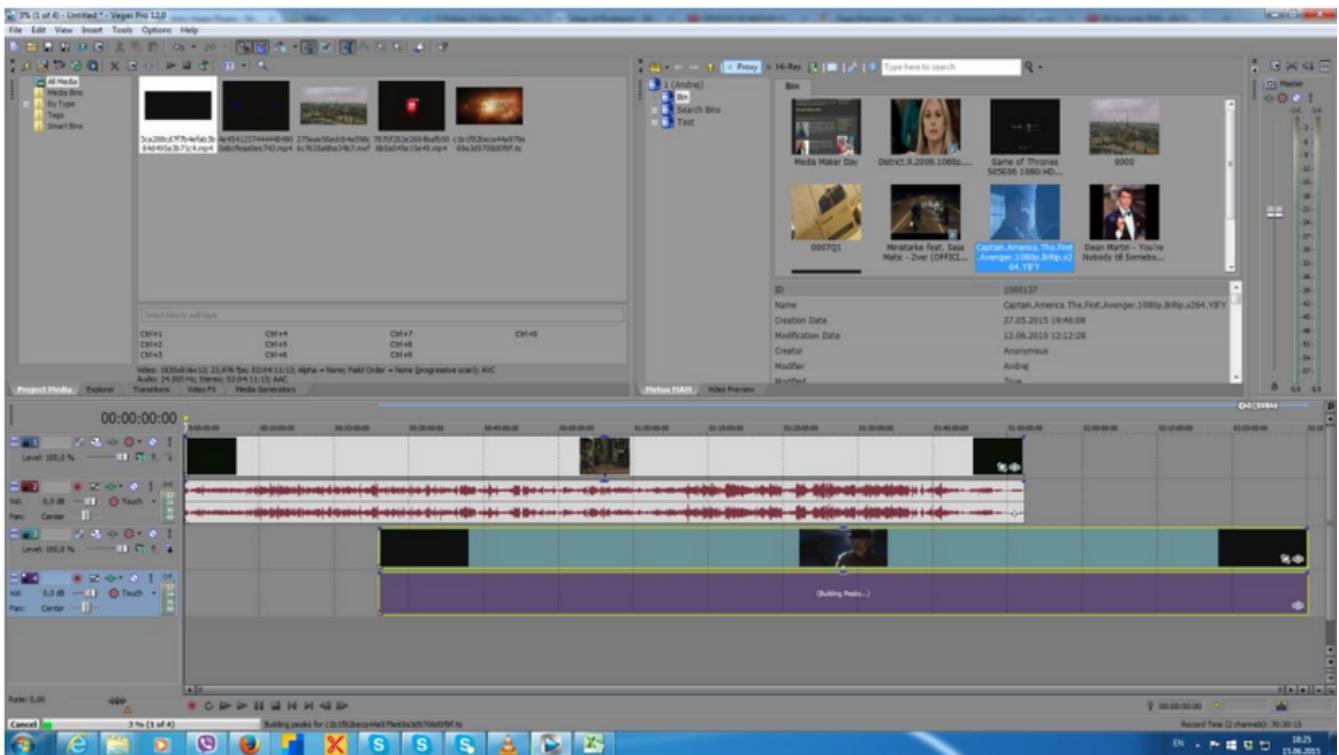
Metus MAM has built-in plugins for Adobe Premiere CC, Adobe Anywhere, Apple Final Cut Pro, Sony Vegas, and Grass Valley Edius. These are opened from within the NLE interface and allows the user to search and browse the MAM project as if he/she were using the Desktop clients. Assets can be played inside the plugin, and dragged and dropped into the timeline. By default, proxy versions of files go into the timeline which means they can be played from network storage without a glitch. After users finish their editing on the NLE, the plugin can switch the files on the timeline to their high-res versions. After the render has completed, the rendered file is imported back into the MAM



Screenshot: Adobe Premiere with Metus MAM plugin



Screenshot: GV Edius with Metus MAM plugin



Screenshot: Sony Vegas with Metus MAM Plugin

METUS MAC Client and Gateway

Metus MAC Client is a desktop client that runs on Mac OSX and searches and browses the archive and interfaces with Final Cut Pro (FCP). Selected videos can be played in the user interface and dragged to the FCP interface, where upon their proxy versions, together with marker metadata and are added to the FCP timeline. The users, after finishing their edit on the interface, can then swap the proxy versions of the videos for the hi-res versions with a control on the FCP Client. The files rendered from the timeline can be ingested automatically back into the MAM

3. Compatible XenData Products

The SX-10 Archive Appliance and the SX-250 and SX-520 Series of Archive Servers, have been certified to use in a Metus MAM environment. Both have an easy to deploy NAS architecture. Archive and restore operations are typically performed via a network share using the standard Windows network protocol, CIFS.

SX-10 Archive Appliance

- Cost effective 1U rack mount appliance
- Server class hardware with 32 GB RAM and four core Xeon processor
- Windows 7 64 bit, Professional Edition
- Includes 4 TB disk cache
- Includes two 1 GbE network connections
- Ideal for use with one or two LTO external drives or a small robotic LTO library.



SX-250 Archive Server

- Cost effective 1U rack mount server
- Server class hardware with 32 GB RAM and six core Xeon processor
- Windows Server 2012 R2, Essentials Edition
- Includes 6 TB disk cache
- Spare PCIe slot allows addition of dual port 10GbE card or FC card for SAN connection
- Ideal for managing a robotic LTO or Sony ODS-L30M library with up to two drives.



SX-520 Series of Archive Servers

- 2U rack mount server with up to 12 Xeon cores
- Windows Server 2012 R2 Includes RAID cache that scales to 100+ TB
- Scales to support Sony Optical Disc Archive (ODA) robotic libraries and 10+ petabyte LTO libraries.
- Server cluster running Windows Server 2012 R2 is also available for high availability.



The XenData archive offers Metus MAM a dynamically expandable pool of LTO or ODA cartridges that seamlessly grows with the user's needs. The integrated system manages an unlimited number of externalized LTO or ODA cartridges, without license fees for the externalized content.

LTO cartridges are written in either the LTFS interchange format or the open standard TAR format. The XenData system may be configured to automatically write replica copies of each cartridge creating backup copies for data protection purposes. 4.

Benefits

A XenData archive working in a Metus environment simplifies archive workflows and reduces system complexity while providing a powerful and reliable solution to manage and preserve valuable media assets. Benefits of the combined solution include the following:

1. Automated Archiving. Metus MAM automates archiving and restoring operations based on pre-defined ILM (Information Lifecycle Management) rules.
2. Manual Operation using MAM GUI. Archiving and restoring can be done manually by the user for a specific asset or assets using the Metus MAM GUI.
3. Search & Preview. Archived and shelved assets can be searched for and even previewed using the low-res proxy copies without the need to restore each hi-res video. This helps reduce unnecessary restoration of assets.
4. Management of Assets on the Shelf. When a user tries to preview/download an archived video, Metus MAM will automatically restore the file from the LTO or Optical cartridge if the current cartridge is in the drive or library. Otherwise it will let the user know the cartridge name or barcode that has to be imported back into the drive or library.
5. Asset Reports. It is easy to identify which LTO or optical cartridge has a specific archived asset. Furthermore, the user can easily obtain a list of assets on each cartridge.
6. Built in Data-Protection for LTO Archives. The system automatically creates extra backup copies of LTO cartridges for offsite retention.
7. High Availability Archive Option. The XenData SX-525 server cluster configuration provides high availability.
8. Standards Based Archive. The XenData archive accepts all file types; writes to LTO in either LTFS or TAR formats or to Sony ODA cartridges in a standard format.



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TRANSFORMACIÓN DIGITAL A TU MEDIDA



Seamless Media Asset Managed and Archiving

Metus extends its Archive support with Quantum's StorNext 5 Platform.

Media production is unrecognizable since the arrival of file-based workflows. The speed of the transition from traditional broadcast technologies has created unexpected demands for innovative and scalable systems to deliver the efficiency and security that media organizations require. The integration between Metus MAM and Quantum's StorNext 5 workflow storage gives broadcasters, post facilities and content owners a highly flexible and powerful media management solution.

Metus provides file-based management, transcoding and video capture solutions to customers in virtually every sector. The software is flexible and scalable, and has the power to cope with the most demanding workflows. Quantum –the global leader in storage, back up, recovery and archive- is now partnering with Metus to support multi-tier digital storage, archives and media workflows.

Quantum Stornext 5 and Metus MAM – Driven Workflows

StorNext® is high-performance shared storage designed to accelerate complex information workflows.



SOLUTION BENEFITS

- Flexible – Automatically search and store content on lower-cost disk or tape tiers
- Scalable – Scales from tens of TBs to PBs of data
- Fast – Multiple data movers to store or retrieve data from archive quickly
- Cost-Effective – Store seldom-used content on most economical storage tier.
- Wide variety of video formats support- MPEG2, DV, DVCPro, DVCPro50, DVCProHD100, H.264, AVC-Intra, XAVC, Apple ProRes, IMX, VC-1, PCM, AAC, WMA
- End-to-End,high-performance production environment along with powerful and flexible archive capabilities

FOR MORE INFO:

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SOLUTION BRIEF

The combined Metus MAM-Quantum StorNext solution enables users to access content not only in a single location but also from remote facilities on different networks by taking advantage of the rich StorNext 5 integration toolset and the Storage Manager objectID export feature. Metus MAM also provides administrators the ability to manage all global content directly from its graphical user interface. In addition, Metus MAM provides metadata synchronization across globally or regionally distributed sites, allowing access to content using its comprehensive search engine and fast content movement from a Lattus-based archive to online storage.

Integrated Digital Workflow

Facilities can enjoy an end-to-end, high-performance production environment along with powerful and flexible archive capabilities that can span local sites and multiple geographical locations. Because of the interoperability certification provided through Quantum's Advantage Program for technology partners, customers can be confident that the joint solution has been tested and validated to meet demanding workflow needs.

About Quantum Stornext 5

Quantum StorNext 5 delivers dramatic new levels of performance, scalability and flexibility for a new generation of the industry's leading scale-out shared storage file system, tiered storage and archive. Newly engineered from the ground up, StorNext 5 is a complete end-to-end solution that combines file management technology with easy-to-deploy appliances to support the world's most complex and demanding digital media workflows.

SOLUTION PROFILE

Metus MAM and Quantum solution is ideal for any enterprise who has considerable amount of Audio & Video content, including but not limited to:

- Broadcasters
- News Agency Companies
- Post Production Companies
- Army and Police
- The Health Care Industry
- Houses of Worship
- PEG Industries (Public – Education - Government)



¿Estás listo para Iniciar la Transformación Digital de tu empresa?



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Agenda una llamada estratégica

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