Media asset management and workflow solutions

Cloud native | Flexible | Scalable | Cost effective
TMD is a highly focused and dynamic organisation specialising in the development and delivery of products, solutions and associated services to the global media, broadcast, collections management, government, education, and archive industries for 20 years. Our client base spans both global and national organisations highlighting the fact that TMD is big enough to deliver yet small enough to care.

In today’s media-driven world, the need has never been greater for the effective management of media content throughout every stage of its life cycle, from conception to creation, through delivery and archive, while ensuring efficient repurpose and reuse at every opportunity.

Designing a business and operational management system to meet the exacting and ever-changing needs of today’s media businesses requires an organisation with in-depth operational and business knowledge of these industries, extensive technical expertise in both the IT and media environments, commitment to customer service - and clarity of vision. TMD is such an organisation. TMD’s management team has decades of experience in the development of systems for the broadcast and media industries.

TMD was founded in 1998 with the specific goal of providing the global media marketplace with a media asset, workflow, and resource management system capable of driving businesses forward by effectively managing the existing legacy of linear based physical media, such as film and tape, as well as the plethora of modern digital formats, both born digital and digital reformatted, required by both traditional linear and new non-linear media operations, and equally important providing a smooth and manageable transition between them. The result is Mediaflex-UMS (Unified Media Services), a scalable, cloud-native media services platform, that can be deployed on premise, in the cloud or as a hybrid.

Typical users of the Mediaflex-UMS platform and applications are:

- Rich media content owners, distributors and publishers
- Government departments
- Television broadcast groups
- Cultural archive organisations
- Corporate and educational media departments
- Galleries, libraries, archives and museums

Our key differentiators include:

- 20 years of experience and in-depth industry knowledge
- Able to track both physical and digital content in one system
- Scalable, agile platform with a service-oriented architecture
- Workflow designer that lets you create and modify workflows in-house with no scripting knowledge needed
- Extensive list of integration partners
- Proven implementations in small and large organisations
- Specialists in national archives, parliamentary, media, and broadcast systems
- Long-standing customer relationships

TMD is a privately held company headquartered near London in the UK with offices in Austin Texas in the USA, Canberra in Australia, and Kuala Lumpur in Malaysia. Visit www.tmd.tv for more information.
TMD works with some of the most prestigious media, broadcast, and archive organisations throughout the world. Our proven implementations can be found in large and small broadcasters, libraries, schools and universities, government agencies, production houses, and archives.

Our clients use Mediaflex-UMS to successfully underpin changes in working practices, release savings, and improve efficiencies across their operations. In doing so they have made their organisations more responsive and able to launch additional services with significantly shorter lead times and at a lower cost.

Large enough to deliver yet small enough to care
TMD’s core product is the Mediaflex®-UMS (Unified Media Services) platform, which provides a cloud-native, service-oriented architecture delivering media aware, software-defined workflows.

Mediaflex-UMS supports the management of both physical media (i.e. film and tape), and digital content. It enables organisations to manage the digital supply chain of their media content, including acquisition, creation, digitisation, repurposing, preservation, enrichment, delivery, publishing, and archiving, through TMD’s own applications and from its extensive list of leading integration partners.

The flexible range of applications can run individually, be combined for a highly efficient, cost-effective solution, or be configured as part of a Mediaflex-UMS platform for a complete, scalable, end-to-end enterprise solution. All applications share a common user interface and metadata schema.

Applications provide specific workflow functionality through configurable tasks that are used within the workflow designer to build workflows, enabling users to easily search for, browse, use, repurpose, and catalogue media content in multiple formats.

The platform incorporates comprehensive business and media-aware workflow management. The powerful workflow designer allows workflows to be easily created, cloned, and edited in-house at any time, without recourse to expensive programmers or TMD’s professional services. There are no restrictions on the number or complexity of workflows and no need to restart the system to implement workflow changes.

Solutions can be deployed on premise, in the cloud, or as a hybrid configuration and scale for either (stand-alone) workgroups or integrated enterprise solutions.

Mediaflex-UMS can be implemented in differing configurations based on the applications required to meet the specific needs of the business. Start with a single media application and expand the system by adding additional applications and/or associated services as business needs change, while keeping the core systems and the user experience the same.
At TMD we recognise that not all businesses are the same, so we designed Mediaflex-UMS to provide a highly flexible, scalable, services-oriented architecture that, by using software-defined workflows, is able to meet the unique demands of an individual media-centric business.

The Mediaflex-UMS platform comprises Conductor, the collective name for the core platform components based on an AMQP (Advanced Message Queuing Protocol) compliant messaging bus to which can be added a wide range of platform services, such as transcoding, file move, auto QC, publish, etc. The functionality required by individual business units and operational areas is provided by one or more of TMD's media applications. Each application enables a range of tasks, which are the building blocks of the platform’s software-defined workflows. Tasks control the services licenced to the platform to deliver the required functionality.

Conductor comprises five core elements that form the basis of the core Mediaflex-UMS platform:

**MetaServer** - provides the core database environment and the highly efficient and extensible data model based on a scalable and resilient Oracle database platform.

**Resources** - provides the configuration and management engine for the system along with the Advance Message Queuing protocol (AMQP) compliant message bus and processing engine for the service oriented architecture. It enables the configuration and definition of devices and services available to the system.

**Orchestrator** - provides the core media aware, software-defined workflow orchestration engine designed specifically for delivering business efficiency throughout the content life cycle, through the application of business logic rules, media processes, the control of third party devices and services, and user interaction. It supports the intuitive Composer workflow designer, which eliminates the need for specialist development staff to script or modify particular workflow processes, putting the customer back in control of their operation.

**Clients** - provides the graphical user interfaces and applications functionality in both platform independent web browser, i-mediaflex and MS Windows environments, Mediaflex Workstation. Provides the configuration of user access rights.

**Analytics** - provides the core analysis engine designed specifically to deliver real-time system data analytics, a full audit trail of system activity, configurable history of user interactions, a configurable Data Dictionary (MDD) and a comprehensive report designer, with support for third party reporting tools.
Media Applications

The flexible range of applications can run individually, be combined for a cost-effective solution, or be configured as part of a Mediaflex-UMS platform for a complete, scalable, end-to-end enterprise solution. Applications include:

**Aperture for ingest** provides for the digitisation, and subsequent assessment and storage of baseband video either from tape or live feeds. It is a cost-effective solution for the capture, digitisation, and tracking of content in a wide range of formats. It enables the creation of new media items by either importing file-based media or digitising SDI baseband signals to create a file from tapes and live feeds.

**Chameleon for DAM** provides an intuitive user interface that allows users to effectively search, annotate, store, manage, repurpose, and archive media. It supports the raising of work orders and their fulfillment. The functionality is tailored to each user’s role-related needs, so each operator sees only what they need to.

**OnPoint for post production** is TMD’s PAM (production asset management) solution for creative services and post production departments. From wish and make list management through the editing process, it integrates seamlessly with third party systems such as Final Cut Pro, Adobe® Premiere® Pro CC, and Avid Interplay. It includes a review and approvals process before being sent to both the archive and/or playout operations. Designed for today’s post production needs, the system is cloud native, quick to install, integrates with many systems, and is intuitive to operate.

**Paragon for archiving** is TMD’s award-winning, easy-to-use archiving solution that enables content owners to protect their video, audio, and physical assets long term. Choose any combination of LTO tapes, including the latest LTO-7 format, cloud storage (Amazon S3, Azure, etc.) and MAID-III storage. Paragon scales from small office storage systems to large multiplatform enterprise systems and includes browse-resolution proxy generation, clip selection, and partial restore.

**Paragon+ for content management** provides software-defined workflows for media processing, storage (online and archive) management, and publishing with support for a wide range of business system integrations.

**Guardian for collections management** provides for the accessioning, acquisitioning, preservation, storage and management of media collections. It has specific workflows and functionality uniquely required for the management of audiovisual archives. This integrated solution provides the access and publishing requirements that are increasingly important in making content available and monetisable.

**Library for stock management** provides for the management of physical stock including tape and film. Supports chaotic and structure shelving management.
TMD continues to stay at the forefront of technological development with cloud-native, software-defined workflow solutions that are cost effective, agile, scalable, and integrate with an extensive array of third-party services, to give you the best solution on the market today.

**Accelerated File Transfer**
Aspera
FileCatalyst
Signiant

**Cloud Services**
Amazon S3
Akamai
Encoding.com
Telestream Cloud
Oracle

**Database**
Oracle (Partner Network)

**Digital Archive & HSM**
Front Porch Digital (Oracle)
Masstech
Object Matrix
Quantum (Advantage Partner)
SAM (Snell)
SGL
StorageDNA
XenData

**Encoding & Transcoding**
Dalet AmberFin
Concurrent
Dolby
AWS Elemental
Encoding.com
EVS
Front Porch Digital (Oracle)
Grass Valley (a Belden Brand)
General Dynamics (Mediaware)
Harmonic
Imagine
IPV
Lame
MF Digital
SAM (Snell)
SoX
Telestream
Wohler

**File Playback & QC**
Dalet AmberFin
Harmonic
Imagine
Interra Systems
Suitcase
Tektronix
Vidcheck

**File Utilities**
Nano Cosmos

**Media Fulfillment**
Screen Systems

**Partners**
ERA Ltd. UK
Eurotek
Media Village

**Playout Automation**
BroadStream
Evertz
Imagine
Pebble Beach
SAM (Snell)

**Post Production**
Adobe
Apple
Avid
Marquis

**Rights Management**
Fadel

**Router Control**
Grass Valley (a Belden Brand)
SAM (Snell)

**Scheduling**
Broadview
Imagine
MediaGeniX
MSA ForeTV
Provys
Sintec Media

**Signal Processing**
Emotion

**Storage**
Concurrent
Dell ECS
EMC Isilon
Grass Valley (a Belden Brand)
Harmonic
Hitachi Data Systems (HDS) Vantara
Quantum (Advantage Partner)
Spectra Logic

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