

Maximizing Asset Value for Production and Broadcast

Value-Optimized Workflows With Quantum StorNext and Dalet Digital Media Systems

Like a creative factory, media production companies rely on their expertise, their talented staff, and their chosen tools to create content, and deliver the desired message in the most compelling or entertaining way possible. This factory requires process engineering to efficiently and reliably produce high-quality material with a minimum of interruption and human intervention. That's workflow. Together, Dalet and Quantum work side by side to create a factory floor based on Dalet's Galaxy MAM and Quantum's StorNext® 5 intelligent data management solutions that frees creative professionals to focus on their product—not the production.

Dalet Digital Media Systems provides software-based solutions that enable media organizations to maximize the value of their assets through better creation, management, and distribution of their content. Dalet offers three distinct technology platforms that combine to form versatile business solutions that power end-to-end workflows for news, sports, program preparation, production, archive, and radio. On their own, each Dalet platform offers a targeted solution with key capabilities to address critical media workflow functions such as ingest, QC, edit, transcode, and multiplatform distribution.

Dalet Galaxy, the foundation for Dalet's efficient workflow solutions, is the enterprise MAM platform that unifies the content chain by managing assets, metadata, workflows,

and processes across multiple and diverse production and distribution systems. Specially tailored for media workflows, this unique technology platform helps broadcasters and media professionals increase productivity while providing operational and business visibility.

Dalet AmberFin is the high-quality, scalable transcoding platform with fully integrated ingest, mastering, QC, and review functionality, enabling facilities to make great pictures in a scalable, reliable, and interoperable way. The innovative Dalet Brio video server platform combines high density and cost effectiveness with high reliability, addressing the demanding needs of studio production, multi-camera ingest, sports logging, and highlights production.

All Dalet products leverage IT clustering, networking, and storage management along with best-of-breed, modern broadcast equipment to ensure 24/7 mission-critical operations.

Dalet solutions rely on high-performance, high-availability storage. Quantum's StorNext 5 intelligent data management platform is the cornerstone of this quick, resilient environment. Quantum—the global leader in storage, backup, recovery, and archive—is partnering with Dalet to enable multi-tier broadcast storage archives, and automatically and seamlessly move data between various disk and tape resources to match the most appropriate and cost-efficient location with the workflow stage.



DALET
DIGITAL MEDIA SYSTEMS

SOLUTION BENEFITS

- 'Broadcast-aware' storage solution transparently moves data between storage tiers, including external appliances, for simplicity, scalability and economy
- Streamlines workflow processes for faster completion of projects
- Consolidates multiple storage devices into a single shared storage pool
- Wide variety of video formats supported, including MXF, DV, DVCPro, DVCPro HD, XDCam HD
- Support for partial file restore, retrieve only the requested short clip—not the complete asset
- Multi-tier archiving enables continued access to broadcast data while reducing storage costs
- Shared access to SAN storage devices and Apple® Xsan® environments
- Heterogeneous: supports broadest range of broadcast server platforms and storage for greater collaboration and fewer delays
- Integrated data protection, and remote monitoring and alerting, simplify service and safeguard data over its lifetime
- Open environment preserves broadcasters' choice and eliminates dependence on any single vendor

Quantum's StorNext allows Dalet media back-office servers to be connected via a fiber link directly to the central storage, dramatically accelerating media processes such as rendering, conversions, or transfers to video servers. This is mandatory when it comes to large HD installations.

The resulting platforms allow for drastically improved workflows. Source material, work in progress, and finished packages are shared and instantly available on every desktop—or remotely. Users produce more stories and packages in less time with a unique rights-managed workflow engine that enhances collaboration and productivity. Metadata is captured automatically, reducing the burden of manual data entry and accelerating access to online or archived material. Further, Dalet integrated asset management and archive capabilities, enabled by StorNext Storage Manager, supply quick access to online, near-line, and archive storage, allowing broadcasters to replace expensive and cumbersome analogue libraries with fast-access, compact digital ones.

QUANTUM STORNEXT 5 AND DALET MAM-DRIVEN WORKFLOWS

Quantum's StorNext 5 software sets the standard for high-speed, shared workflow operations and large-scale, multi-tier archives. StorNext creates shared pools of storage so that critical broadcast files can be processed faster. Files are directly and easily accessible to all Dalet hosts simultaneously without having to wait for files to copy or move to the next stage of processing. Together, the combination of Quantum StorNext and Dalet solutions integrates archive storage with production storage and enables highly productive digital workflows.

This complementary solution provides transparent access to a tiered-storage system in which customers get virtually unlimited storage that is both cost-efficient and highly flexible. Better still, Dalet workflows remain unchanged and StorNext scales to meet new demands as they arise. Archived content is available through Dalet and retrieved completely transparently—even portions of

files based on timecode. The result is quicker restores, improved efficiency and reduced cost, and faster time-to-air of broadcast material.

INTEGRATE DIGITAL WORKFLOW SIMPLY AND EFFECTIVELY

Dalet business solutions use standard IT platforms and best-of-breed broadcast equipment to provide solutions that meet the mission-critical needs of media professionals. With Dalet, broadcasters have the freedom of choice: Choose the preferred editing and graphics systems and select the playout platform. Dalet manages and seamlessly integrates StorNext with the selected systems.

The seamless interoperability between Dalet and StorNext eliminates the need for special coding or complex integration. The Dalet solution simply sees StorNext as a native volume with all file structures and native protections retained. Staff can immediately begin sharing data at high speeds.

Dalet also adapts to each workflow. It combines a powerful status, task assignment and notification engine with a uniquely flexible schema editor. Metadata fields can be created on the fly and made contextual to ensure that information is collected at every step of the workflow by the right users. Journalists, editors, and producers can search and browse for comments and rights associated to any asset, at any time, from anywhere.

Dalet Galaxy incorporates a comprehensive set of digital production and media management tools. Ingest from tape decks and feeds can be centralised or distributed. Fast editing tools provide simple transitions for quick edits and a number of formats and wrappers are supported to easily interface with third-party Non Linear Editors (NLEs) when more sophisticated edits are required. Advanced planning and scheduling combined with full-featured scripting means that rundowns and programs can be rapidly put together. Playout automation and multiplatform content distribution is optimized via dynamic live updates, while media management remains transparent.

Any single file within StorNext can be accessed natively by Windows, Mac, Linux, and UNIX-based applications without modification.

Using the Dalet Xtend module, this allows an advanced integration with Adobe Premier, Apple Final Cut Pro, or Avid Media Composer NLEs that can edit in place with a direct connection to StorNext, even in UHD formats. The StorNext 5 high-performance shared file system protects workflow process from downtime by sharing digital assets across multiple workflow servers. If any given server is unavailable, the next available server can complete the job.

The Quantum and Dalet combination of products solves complex media production challenges today and into the future with a flexible and scalable joint solution. To discuss how Dalet and Quantum can resolve your challenges, please contact your Quantum or Dalet representative.

ABOUT DALET DIGITAL MEDIA SYSTEMS

Dalet is a worldwide leader in software that empowers broadcasters and content professionals to produce and manage audio and video content in a digital, multiplatform world. Dalet media asset management (MAM) solutions streamline production costs and increase revenue opportunities by simplifying the distribution of rich-media assets across both interactive and traditional platforms. The Dalet product line operates workflows for news, sports and program production, archives, and enterprise Media Asset Management.

Dalet tools are used around the world by thousands of content producers including major television and radio public broadcasters (BBC, CBC, DR, NPR, RFI, Russia Today, RTM, VOA, WDR), commercial networks (ART, eTV, Grupo Prisa, Prime Television, Fox, Warner Bros., XM Satellite) and government organizations (Queensland JAG, Canadian House of Commons). Dalet is traded on the NYSE-EURONEXT stock exchange (Eurolist C): ISIN: FR0000076176, Bloomberg DLT:FP, Reuters: DALE.PA.

ABOUT QUANTUM

Quantum is a leading expert in scale-out storage, archive and data protection. The company's StorNext® 5 platform powers modern high-performance workflows, enabling fluid, real-time collaboration and keeping content readily accessible for future use and re-monetization. More than 100,000 customers have trusted Quantum to address their most demanding content workflow needs, including top studios, major broadcasters and cutting-edge content creators. With Quantum, customers can Be Certain™ they have the end-to-end storage foundation they need to manage assets from ingest through finishing, and into delivery and long-term preservation. See how at www.stornext.com.

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