

DALET AmberFin

HIGH-QUALITY MEDIA PROCESSING
POWERFUL, WORKFLOW-DRIVEN TRANSCODE
ORCHESTRATED, SCALABLE WORKFLOWS
PROVEN INTEROPERABILITY & EXTENSIBLE APIs

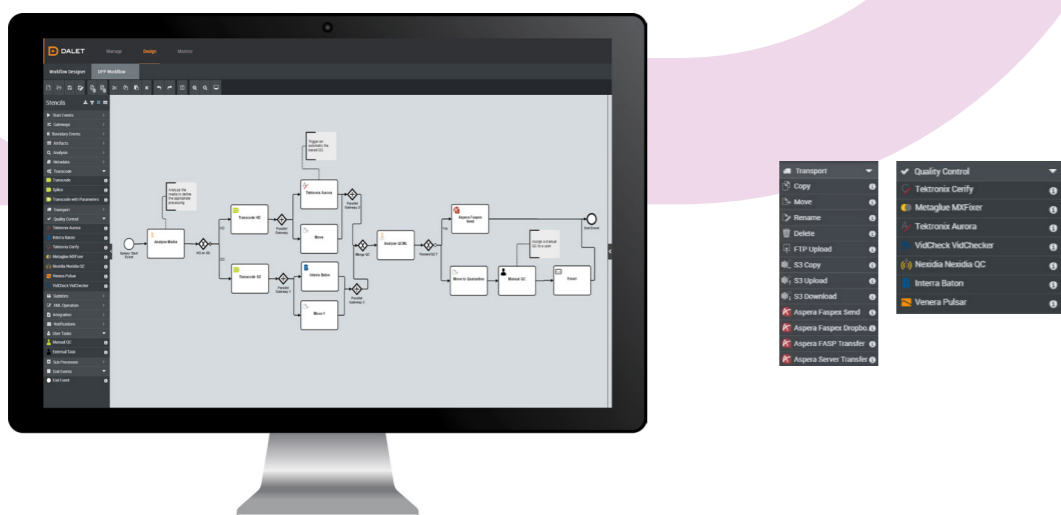


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Dalet AmberFin is an orchestrated, scalable media processing platform with a powerful, affordable, workflow-driven transcoder, enabling facilities that make great pictures in a scalable, reliable and interoperable way. AmberFin runs on cost-effective, commodity IT hardware and virtual compute platforms that can adapt and grow as the needs of your business change.

Whether you need a single application specific product or a large-scale enterprise-class transcode farm, AmberFin software is built upon unique technology that ensures your media assets retain the highest quality in standard definition, high-definition, ultra high-definition, SDR or HDR.



WorkflowENGINE

Dalet Workflow Engine greatly improves the orchestration of media workflows such as for ingest, mastering, QC and transcoding, by leveraging a highly intuitive Business Process Model & Notation (BPMN) 2.0-compliant workflow designer. As a result, users are able to quickly and easily create complex workflow chains with little or no prior experience. Deployed workflows can be monitored for progress and status.

Transcoding, multi-format packaging and delivery...Seamlessly integrated

Dalet AmberFin's Workflow Engine turns the content that owners have into the content their customers want. It is a completely scalable, fault tolerant high quality transcode environment, including IMF metadata integration, modern TTML & legacy format and standards conversion.

It offers best-in-class image processing and allows fast and effortless content delivery to Aspera, Amazon S3, Azure Blob Storage and File Catalyst. Strengthened by a RESTful API, it enables the orchestration of transcode operations and content preparation workflows.

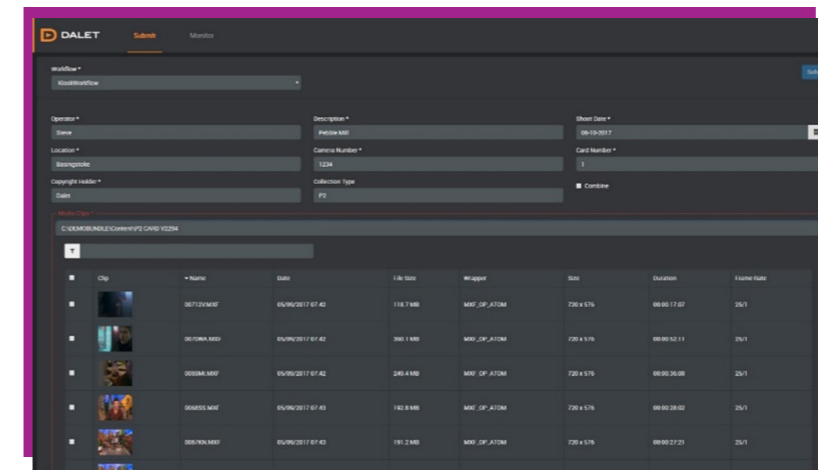
Transcoder Features You Need

To streamline your workflows whatever the format of their component (UHD, HDR...), Dalet AmberFin Transcode makes use of Dalet's latest innovations to provide you with the features you need.

Dalet AmberFin includes a full range of codecs, including verified IMF creation tools, Netflix Photon integration and outstanding video and audio quality. A full range of media processing tools are built-in to AmberFin, including cut/splice, overlay insertion, audio upmix and audio loudness normalization. With full support for insertion, extraction, conversion and retention of captions & subtitles, you can be assured that your content is compliant and customer-ready for any distribution platform.

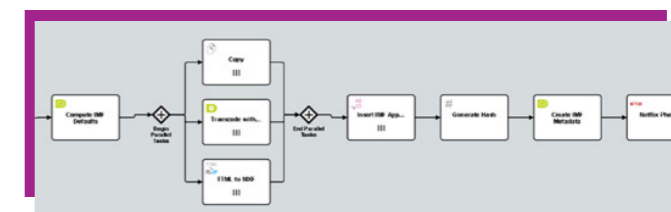
Camera Ingest

- Models supported for ingest: Panasonic P2, Sony XDCAM (HD/ EX), Sony PMW-500, Sony FS7, Canon C300, Canon XF305, Blackmagic, ARRI, GoPro
- Perfect for DIT camera unloads
- Browser-based user interface, with customizable metadata collection, offload and MAM check-in workflow



IMF Generation & CPL Transcode

- Create simple and complex packages, including complete and supplemental IMP
- Supports App 2, 2e and ProRes
- Built-in Netflix Photon QC
- Tested for Netflix Backlot submissions
- Render capability for any supported IMP CPL (transcode to any desired format, including HDR-SDR proxy generation)



Quality

Dalet AmberFin produces consistently high quality results for all codecs **while unique interlace, progressive and frame-rate** handling ensures the best quality of experience whether you're delivering to a broadcast television or the latest tablet device. You can be assured of quality media processing and your overall workflow when utilizing AmberFin's standards conversion capabilities and native BPM workflow engine.

Productivity

Dalet AmberFin connects directly to shared storage platforms, massively reducing latency and eliminating unnecessary transfers. Growing file support further decreases latencies and enables operations such as craft editing to start during ingest or transcode.

Ease of Integration

Multiple depths of integration, from simple scripts and watch folders to clearly defined, documented and extensible APIs, together with close co-operation with other vendors, **ensures interoperability** and guarantees that AmberFin-based workflows become operational in the shortest possible time.

CAPABILITIES



Transcoder engine supporting audio, video and ancillary data/captions/subtitles



Full web services API support for media supply chain integration



BPM workflow engine, supporting transcode, package and distribution actions from Dalet and third-party integrations, including Aspera, File Catalyst, AWS and Azure



Scalable, farm-based architecture with parallel, multi-instance transcode node support

TECHNICAL HIGHLIGHTS

Full technical datasheet is available for [download](#)



Formats - Transcoding, Wrapping and rendering

- JPEG-2000, DNxHD, DNxHR, ProRes, XDCAM, XAVC, AVC-Intra, IMX, DV, DVCPro, H.264, MPEG-2, HEVC, WMV, 3GP... in any supported container, including MXF, TS, MP4, MOV...
- Camera card input from Panasonic P2, Sony XDCAM (HD/EX), Sony PMW-500, Sony FS7, Canon C300, Canon XF305, Blackmagic, ARRI, GoPro
- Dolby-D (AC-3, 5.1) and Dolby-E support
- HDR Support (including proxy down-conversion and cross-conversion)
- Image Sequence Support for DPX and TIFF
- Proxy to 4K resolutions

Packaging & Distribution

- IMF Generation and Transcode
- ABR Outputs (HLS, DASH)
- DPP, ARD-ZDF, CableLabs VOD, ZIP, TAR package capabilities
- Native support for S3 and Azure Blob Storage
- Plugins for Aspera and File Catalyst

Processing

- Cut and Splice
- Overlays: Logo, Text, Timecode, Subtitles
- Audio Upmix and loudness processing
- Mixed audio outputs

Captions & Subtitles

- Insertion, Extraction, Conversion or Retention
- CEA-608/708, Open Subtitling and WST Support
- Embedded Captions and Separate File (SCC, TTML)
- Native 708 synthesis from 608
- Maintain Caption Sync Through Standards Conversion
- Output Captions Compatible with NLEs and Play-to-Air Servers

Standards Conversion

- Converts Resolution and Framerate Between All Broadcast Standards
- Preconfigured modes for Nearest Frame, Advanced Motion Compensation and Advanced Cadence Correction
- Audio, Anchoring and Timecode management

ABOUT DALET

Dalet solutions and services enable media organizations to create, manage and distribute content faster and more efficiently, fully maximizing the value of assets. Based on an agile foundation, Dalet solutions offer rich collaborative tools to power end-to-end workflows for news, sports, program preparation, post-production, archives, radio, education, governments and institutions. Dalet platforms are scalable and modular. They offer targeted applications with key capabilities to address critical functions of small to large media operations - such as planning & workflow orchestration, ingest & cataloguing, editing, chat & notifications, transcoding, play out automation, multi-platform distribution and analytics.



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