



MioEverywhere  
Version 4.6.0

- Shared folder support
- User authentication
- File encryption and secure connectivity
- Metadata pre-entry
- Scheduled transfers
- Automatic retries
- MD5 Check-summing
- Logging
- Auto file compression
- Remote bandwidth throttling

**Plain FTP delivery**

Mio has built in support for plain FTP delivery via its transfer servers.

- FTP/SFTP
- Multiple remote inbox support
- MD5 Check-summing
- Shared folder support
- Server-side media file validation

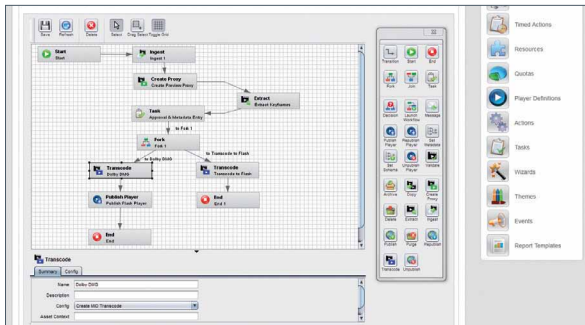
**Transfer Servers**

The Mio transfer server supports remote delivery of assets via your favorite FTP client or the remote desktop transfer agent. The Mio transfer servers are managed via the Mio resource layer.

- Clustering and failover
- User authentication
- File acceleration or Plain FTP
- File encryption and secure connectivity
- Virus scanning
- MD5 Check-summing
- Bandwidth throttling per named-user

**Workflow Management**

Mio has a hugely scalable and configurable workflow management system. Build distributed workflows that link users and software resources all over the world.

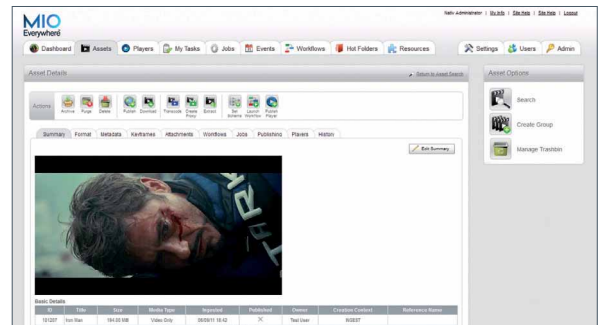


- Graphical workflow designer
- Customizable task management
- Configurable workflow types
- Workflow prioritization and versioning
- Job level transaction management
- Monitoring and event notification
- Wait states and triggering

**Asset Management**

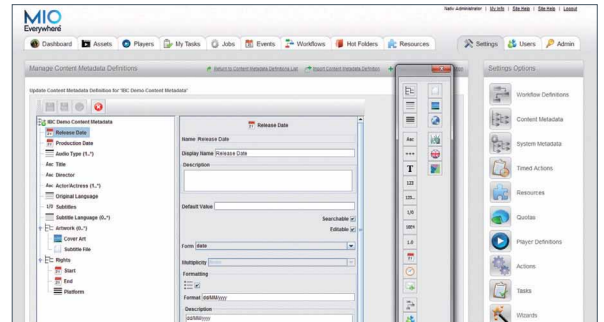
Mio automatically recognizes the technical structures at ingest and dynamically populates your asset database with key frames, technical information and proxies.

- Asset search (business and technical metadata)
- Asset history
- Manual job scheduling
- Grouping and group search
- Previews and proxies
- Key frame extraction and storyboards
- File attachments



**Metadata Management**

Mio's metadata management framework allows you to create any metadata structure you like and convert it to and from a range of standards.



- Graphical metadata designer
- XML and database schema storage
- Hierarchical and nested types
- Primitive and complex types
- Full search API
- Dynamic UI form generation for search and editing
- Hierarchical, cascading access control
- Scriptable and Java-based field validation
- Extensible type definitions
- Translation between common standards
- 'Backing-store' integration to existing databases

**MioPlayout**

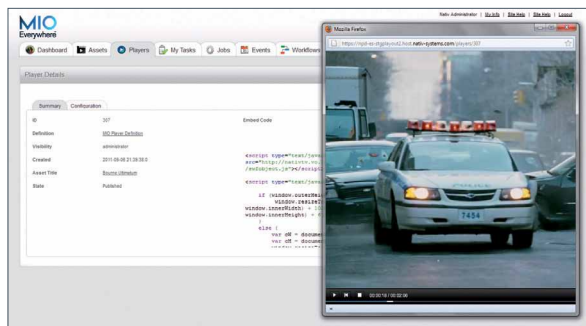
Mio Playout provides a public content discovery interface to Mio; enabling you to launch VOD services on any platform or device from mobile and tablet to IPTV and connected TV.

- Extensible metadata querying
- Content indexing and search
- Streaming for mobile and web
- Intelligent remote device support
- Seamless CDN integration

## MioPlayer

MioPlayer is our customizable Flash and HTML5 player that can be dropped into any web enabled device and managed from within the Mio Web Management Console. Our player integrates seamlessly with MioPlayout.

- Create, edit and search players
- Publish multiple players for different platforms
- Customize each player quickly and easily
- Schedule publishing and un-publishing
- Complete control of encoding profiles
- Seamless CDN integration
- Bandwidth detection



## Reporting

Create custom reports swiftly for desktop download or automated delivery.

Storage Report				
Grouped by Identity				
Identity	Resource	Title	Size	Duration
Production	Essence Folder	AJ-Publish-test.mov	19.16MiB	00:00:40
		<b>Total</b>	<b>19.16MiB</b>	<b>00:00:40</b>
testuser	Essence Folder	Iron_Man_2.264	0.19GiB	00:00:00
		<b>Total</b>	<b>0.19GiB</b>	<b>00:00:00</b>
Demo User Group	Essence Folder	Iron Man 2.264	0.19GiB	00:00:00
		Bourne-DMG Mezz 23.98 720.264	0.45GiB	00:00:00
		Megamind-DMG Mezz 23.98 720.264	0.52GiB	00:00:00
		<b>Total</b>	<b>1.16GiB</b>	<b>00:00:00</b>

- Customizable support templates
- Access control per user and group
- Export to PDF and Excel

## File System

The file system is a subsystem within Mio that provides access to physical storage devices that can be local, remote or cloud-based.

- Transactional file commands
- Built-in support for: SMB/CIFS, NFS, SFTP, FTP, HTTPS, HTTP, Webdav, HDFS, Amazon S3
- Low-level access to technical metadata reading and writing
- Full journaling and history for file actions
- File locking and queuing
- File based interfaces for:
  - transcoding
  - metadata extraction/injection
  - file validation
  - segmentation and hinting
- Hierarchical parent-child file relationships
- File groups (play-lists, folders etc.)
- Access control and auditing

## Resource Management

The resource layer provides access to a wide range of network resources including bandwidth, storage and transcoding systems. The resource layer can be extended to plug in to any network-enabled service, from in-house QC and transcoding systems to systems that support billing, CRM, asset management etc.

### Transcoder Resources

- Telestream FlipFactory
- Rhozet Carbon
- Dolby DMG (Dolby Digital Plus and Pulse)
- FFMPEG
- X264

### QC Resources

- Amberfin

### Storage Resources

- NetApp
- Isilon
- Oracle/Sun
- HDFS
- Amazon S3 (limited file size)

### Network Resources

- Mio Transfer server
- Remote and local inboxes

## Event Management

Configure Mio to respond to a vast array of different system events from job creation to workflow processing.

- Configurable event subscription
- Dashboard notification

## File Manipulation

Mio does not simply treat files as blobs of data. Mio recognizes and provides access to the structure of a huge range of media file formats and enables sophisticated audio-visual discovery and manipulation.

- Transcoding
- Stitching and trimming
- Image and text overlaying
- QC and loudness analysis
- Customizable packaging and export
- Recognizes all common media formats
- Validation against all common media formats
- Injects metadata into files
- Validates and filters content against XML rules (i.e. frame size, bit rate, etc.)
- Extracts key frames by time code
- Stream hinting and un-hinting
- File and stream manipulation with XML, Java and C++ APIs

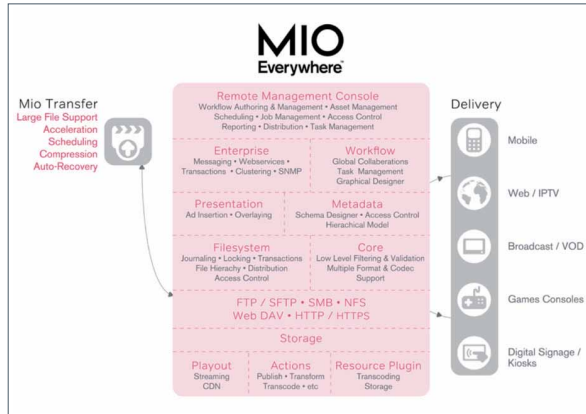
## Deployment Options

### Private Cloud

Mio can be provided as a complete managed service in your own private cloud. This approach implies zero-capex and simple quarterly managed service fee.

### Local Appliance

Mio can be installed on site as a hardware appliance. Appliances can be plugged into existing resources and clustered to meet demand.



## Enterprise Integration

Mio is a scalable and robust system designed to run in high-uptime environments where down-time is not an option. Mio's enterprise layer enables wider integration to other remote and local systems using industry-standard integration techniques.

- Enterprise messaging (RMI, HTTP and web services) to/from Mio
- RDBMS clustering
- Application-level clustering
- Monitoring hooks for SNMP and JMX

## API Integration

Mio has a rich API enabling developers to enhance and extend practically every part of Mio, including jobs, workflows, resources, metadata and users.

- Java
- JavaScript
- Web services
- HTTP

## Vendor Adaptors

- Omneon
- Harris
- TMD
- Telestream
- Rhozet
- Amberfin
- YouTube
- iTunes
- Daily Motion
- FlowPlayer
- Brightcove
- Amazon
- Limelight
- Many more...

## Format-specific APIs

- QuickTime
- MPEG-4 (and derivatives)
- Real
- ASF
- SWF

## Format Support

This section provides a comprehensive list of all file formats that Mio recognizes and will validate and catalogue.

- Quicktime File Format
- MPEG-1 System Stream
- MPEG-2 Program Stream
- MPEG-2 Transport Stream
- Advanced Systems Format
- Audio Video Interleave
- Real Media Format
- Real Media XML SMIL Metafile
- Quicktime XML SMIL Metafile
- Advanced Systems Format XML Metafile
- Flash Video Format
- Flash MP4 File Format
- MP4 File Formats
- Raw DV Stream
- 3GPP MP4 File Format
- 3GPP2 MP4 File Format
- Windows Media Video
- Matroska Multimedia Container
- Audio Interchange File Format
- Xiph.Org Foundation Ogg Format
- Apple Core Audio Format
- Material eXchange Format
- Raw Video or Audio
- Waveform Audio File Format
- General eXchange Format

## Codecs

- DTS (Coherent Acoustics)
- Adaptive Multi-Rate (AMR) Narrow-Band
- Adaptive Multi-Rate (AMR) Wide-Band
- H.264, MPEG-4 Part 10, or AVC
- MPEG-4 Advanced Audio Coding
- On2 VP6
- On2 VP6 alpha channel
- Spark Codec
- Flash screen video
- On2 VP3
- On2 VP5
- VP6 with scaling
- MPEG-1/2 Layer 3 Audio
- Nelly Moser 8kHz Mono
- Nelly Moser
- MPEG-1/2 Layer 2 Audio
- MPEG-1 Layer 1 Audio
- MPEG-1 Video
- MPEG-2 Video
- Dolby AC-3 (ATSC A/52A)
- Windows Media Audio V7
- Windows Media Audio V8/V9
- Windows Media Audio V9 Pro
- Windows Media Audio V9 Lossless
- Windows Media Audio V9 Voice
- Windows Media Video V7
- Windows Media Video V8
- Windows Media Video V9
- SMPTE VC1
- DivX MPEG-4 Video
- XviD MPEG-4 Video
- DV Standard Definition (and DVCPro 25 NTSC)
- DVCPro 25 (PAL)
- DVCPro 50
- Real Audio Sony ATRAC3 V8
- Real Audio G2/Cook V6
- Early Real Audio 14.4kbps
- Early Real Audio 28.8kbps
- Real Video V5
- Real Video G2/SVT V6/7

MioEverywhere  
Version 4.6.0

- Real Video V8
- Real Video V9
- Real Audio Sipro Lab Telecom ACELP-NET V4/5
- ITU H.263 Video
- MPEG-4 Video
- Motion JPEG A
- Motion JPEG B
- Photo JPEG
- QDesign Music Codec 2
- Sorenson video
- Sorenson video 3
- Signed Big Endian Pulse Code Modulation Audio
- Signed Little Endian Pulse Code Modulation Audio
- Unsigned Big Endian Pulse Code Modulation Audio
- Unsigned Little Endian Pulse Code Modulation Audio
- u-Law Logarithmic Pulse Code Modulation Audio
- a-Law Logarithmic Pulse Code Modulation Audio
- Flash IMA ADPCM
- Quicktime IMA ADPCM
- Microsoft IMA ADPCM
- Raw Video
- Quicktime Animation (RLE)
- Apple ProRes 422 Proxy
- Apple ProRes 422 LT
- Apple ProRes 422 SD
- Apple ProRes 422 HQ
- Apple ProRes 4444
- Apple Lossless Audio
- SMPTE VC3/DNxHD
- JPEG 2000 codec
- Dirac video codec
- Theora video codec
- Vorbis audio codec
- Free Lossless Audio codec
- Dolby E-AC-3 (ATSC A/52B)

**Interlace Formats**

- Non-Interlaced
- Non-Interlaced
- Top Field First
- Interlaced (Top Field First)
- Bottom Field First
- Interlaced (Bottom Field First)

**Color Space**

- YUV 4:2:0 12bpp
- RGB 8:8:8 24bpp
- BGR 8:8:8 24bpp
- YUV 4:2:2 16bpp
- YUV 4:4:4 24bpp
- YUV 4:1:0 9bpp
- YUV 4:1:1 12bpp
- Grey 8bpp
- White 1bpp
- Black 1bpp
- RGB32 Palette 8bpp
- YUV 4:2:0 12bpp
- YUV 4:2:0 16bpp
- YUV 4:2:0 24bpp
- YUV 4:2:2 16bpp
- YUV 4:1:1 12bpp
- RGB 3:3:2 8bpp
- RGB 1:2:1 4bpp
- RGB 1:2:1 8bpp
- RGB 3:3:2 8bpp
- RGB 1:2:1 4bpp
- RGB 1:2:1 8bpp
- YUV 4:2:0 12bpp
- YUV 4:2:0 12bpp

- Grey 16bpp be
- Grey 16bpp le
- YUV 4:4:0
- YUV 4:4:0 JPEG
- YUV 4:2:0 20bpp
- YUV 4:2:2 32bpp le
- YUV 4:2:2 32bpp be
- YUV 4:4:4 48bpp le
- YUV 4:4:4 48bpp be
- YUV 4:2:0 24bpp le
- YUV 4:2:0 24bpp be
- ARGB 32bpp
- RGBA 32bpp
- ABGR 32bpp
- BGRA 32bpp
- RGB 5:6:5 16bpp be
- RGB 5:6:5 16bpp le
- RGB 5:5:5 16bpp be
- RGB 5:5:5 16bpp le
- BGR 5:6:5 16bpp be
- BGR 5:6:5 16bpp le
- BGR 5:5:5 16bpp be
- BGR 5:5:5 16bpp le
- YUV 4:2:2 16bpp
- RGB 16:16:16 48bpp be
- RGB 16:16:16 48bpp le
- YUV 4:2:2 20bpp
- YUV 4:4:4 48bpp
- RGB 4:4:4 48bpp

**TV Standards**

- NTSC
- PAL
- QNTSC
- QPAL
- NTSC (1:1)
- PAL (1:1)
- Film
- Film (NTSC)
- SQ-CIF
- Q-CIF
- CIF
- 4-CIF

**More Information**

To organize a demo or if you simply wish to find out more about Nativ and MioEverywhere, contact us now: