

# 1 eVideon Application Server Software Capabilities

- 1.1** Media Management Web Application Server
- 1.2** Provides both Video on Demand (VoD) and Live Streaming access from the same interface
  - 1.2.1 Live Channels (CATV, Satellite, Free to Air, Studio, Portable Broadcast Carts)
  - 1.2.2 VoD (Educational Content, Movies, Self Created Content, Professional Development)
- 1.3** View media via Progressive Download (HTTP delivery) without any additional backend streaming servers. This can be a single server media management and delivery solution.
- 1.4** VoD and Live Streaming can be accessed from Desktop web browser or Set Top Box (STB)
- 1.5** Supports multiple video players, including:
  - 1.5.1 Microsoft Windows
  - 1.5.2 Apple OSX
  - 1.5.3 Linux
- 1.6** Supports multiple web browsers, including:
  - 1.6.1 Internet Explorer
  - 1.6.2 Firefox
- 1.7** Support for multiple embedded Media Player Plugins, including:
  - 1.7.1 Windows Media Player
  - 1.7.2 Adobe Flash
  - 1.7.3 VideoLAN – VLC Media Player (open source)
  - 1.7.4 Apple QuickTime
  - 1.7.5 Real
- 1.8** Provide a navigational interface for Set Top Boxes from the following manufacturers:
  - 1.8.1 Amino
  - 1.8.2 VBrick
  - 1.8.3 Allwell
- 1.9** Supports Remote Management
- 1.10** Supports LDAP for authentication

- 1.11** Supports the transport of multiple media formats, either with built-in HTTP server, or with a real time streaming server backend. These formats include (but are not limited to):
  - 1.11.1 MPEG
    - a) MPEG-1
    - b) MPEG-2
    - c) MPEG-4 (Part 2)
    - d) MPEG-4 AVC (H.264)
    - e) MP3 (audio)
  - 1.11.2 Adobe Flash
  - 1.11.3 Windows Media
  - 1.11.4 QuickTime
  - 1.11.5 Matroska/Ogg/Vorbis (Open Standards)
  - 1.11.6 Real Media
- 1.12** Supports the integration of multiple streaming servers, alone or concurrently, including but not limited to:
  - 1.12.1 eVideon VoD Server (RTSP for MPEG-2 and H.264)
  - 1.12.2 Darwin<sup>™</sup> Streaming Server (RTSP for MPEG-4)
  - 1.12.3 Wowza<sup>™</sup> Media Server (RTMP)
  - 1.12.4 Adobe Flash Server (RTMP)
  - 1.12.5 kasenna<sup>™</sup> Streaming Server (RTSP MPEG)
  - 1.12.6 Windows Media Services (RTSP and MMS for Windows Media)
  - 1.12.7 Helix DNA, or Helix Server (RTSP for multi-codec)
- 1.13** Catalog image files with variable size views
- 1.14** Catalog subset resources of media resources such as
  - 1.14.1 Individual Chapters
  - 1.14.2 Document files (e.g. PDF, DOC, XLS, PPT)
- 1.15** Multiple Media Content types can be mixed within the same system configuration
- 1.16** Supports a distributed environment
  - 1.16.1 For video storage
  - 1.16.2 For Media Distribution points of media
  - 1.16.3 For Media Catalog management
- 1.17** Support encoding appliances minimally from the following manufactures:
  - 1.17.1 Visionary Solutions (VSI)
  - 1.17.2 VBrick
  - 1.17.3 Optibase

- 1.17.4 Digital Rapids
- 1.17.5 “Virtual Encoders”, or streams sourced from elsewhere (e.g. ISD, Internet 2, Daily Announcements file streams, etc.)
- 1.18** Support for standards based IP cameras as live channels
- 1.19** Simple Digital Signage
  - 1.19.1 Use Set Top Boxes (STB) attached to public displays for displaying a stream of daily announcements or other video presentations
- 1.20** Supports custom database fields for site specific needs
- 1.21** Supports the ability to provide customizable user updates with plain text, basic HTML or RSS Feeds
- 1.22** Provides granular role based access controls
- 1.23** Provides UI customizability with “skinnable” interface for branding and personalization
- 1.24** Provide Digital Rights Management on per media basis including the following:
  - 1.24.1 Auto-purge dates making media unavailable at a set date
  - 1.24.2 Concurrent usage limitations
  - 1.24.3 Usage reports
  - 1.24.4 Required download assent to “Acceptable Media Use”
  - 1.24.5 Management of content vendors within the software
- 1.25** Advanced, detailed, reporting capabilities
- 1.26** Provides Live Stream Recording capabilities (Add On Module)
  - 1.26.1 Recorded Live Streams can be pre-categorized and instantly available on demand when the recording completes
- 1.27** Automated transcoding of media (Add-On Module)
  - 1.27.1 Example: Record a live MPEG-2 stream and convert it to lower bitrate Windows media or flash for Internet accessibility
- 1.28** Scheduling functionality, examples include but are not limited to:
  - 1.28.1 User Level “Lesson Plan” Scheduling
  - 1.28.2 Schedule resources such as encoding appliances
  - 1.28.3 Schedule Recording from a live encoding source
  - 1.28.4 Recurrent scheduling
  - 1.28.5 Scheduled Programming
- 1.29** User notes can be attached to media
- 1.30** Ease of Use: Provides familiar browser-based interface

- 1.31** Advanced searching capabilities including but not limited to the following:
  - 1.31.1 Keyword
  - 1.31.2 Title
  - 1.31.3 Grade
  - 1.31.4 Subject and Topic
  - 1.31.5 Custom Fields
  
- 1.32** Supports filtering capabilities, including but not limited to the following examples:
  - 1.32.1 Preventing authenticated 5<sup>th</sup> students from accessing high school entries in the catalog while searching (example: Sex Education and Professional Development Videos)
  - 1.32.2 Preventing users from one geographical location from accessing entries in the catalog owned by other districts
  - 1.32.3 Allow a user to manage content from only specified collections.

**1.33** Fixed Asset Management and Scheduling

1.33.1 Fully integrated into Media Management Software

1.33.2 Scheduling resource for delivery and pick up to/from district/school

1.33.3 Provides the ability to manage assets that include but are not limited to the following:

a) Video Tapes

b) DVDs

c) Books

d) Misc. Equipment (e.g. Ellison Dies, camcorders, etc.)

1.33.4 User can schedule a fixed asset for use as simply as watching a live stream

1.33.5 Accommodates multiple asset delivery schedules

1.33.6 Definable Checkout Duration

1.33.7 Ability to extend bookings (allowable by end user, or by admin only)

1.33.8 Allows clients to cancel their own bookings until they have been included on the check-out list

1.33.9 Supports barcode readers for quick check in and out

1.33.10 Advanced reporting capabilities