



a product of VIDEO TECHNICS, INC.

apella™ LCS media server...a closer look

Apella LCS is a revolutionary price breakthrough for an SD video server with analog and SDI I/O that supports a mixed media database of DV and MPEG-2 files and offers up to three bi-directional channels for ingest *or* playout. The Apella LCS is ideal for situations that demand I/O flexibility. Virtually unlimited channel I/O can be implemented simply by networking Apella servers together.

The Apella LCS supports up to three simultaneous channels of video and audio input or output per chassis; each channel provides analog and SDI video I/O, up to 8 embedded audio I/O streams, 2in/6out AES/EBU channels, and analog genlock. The Apella LCX model upgrades the system hardware and unlocks the channels to allow 6 independent streams – 3 inputs and 3 outputs simultaneously!

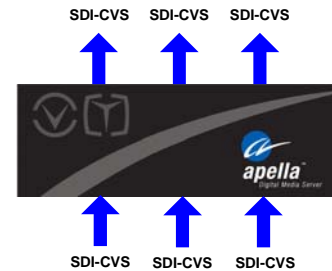
- Up to 3 Analog and SDI Inputs, or 3 Analog and SDI Playout Channels (Up to 3 LCS or 6 LCX Simultaneous Streams of Media In or Out)
- Multi-track Audio and Video Timeline Editing (Remote Client Seats Available)
- Import AVI, QuickTime, DV and MPEG-2 Files
- VT Director and VT Proxy Editor Plus! Software Included (Remote Client Seats Available)
 - Multi-Channel PlayList Control with Auto Ripple
 - PlayList Synchronized in Real-Time with NRCS via MOS Protocol
 - Easy Media Management – Search, Archive, Import, Export
 - Low Resolution Timeline Editing Ready for Immediate Playout
 - Realtime Media Logging with Metadata Insertion
- DVCAM, DVCPRO, DV25
- MPEG2 I-Frame (Encode and Decode) and IBP (Decode Only)
- Analog and SDI Inputs and Outputs
- Scalable to 8TB Raw Internal Storage (Optional RAID 5, 6, or 10)
- SDI Embedded & AES/EBU Audio
- Optional Batch Media Acquisition with VTR Machine Control
- VT Plug-In for Adobe® Premiere® Pro Available for Direct Exports without Transcoding
- Import Final Cut Pro QuickTime DV Files or any Most Popular NLE files
- MOS, VDCP, & VT Ethernet API Automation Support (Optional RS-422 Ports)
- Powerful SQL Database Engine Provides Comprehensive Asset Management
- Unique Global Asset IDs and User Profiles with User-Defined Security Settings
- Fibre Channel SAN and Dual GigE NAS Port Options
- PathFire DMG File-Based Transfer Option for News and/or Syndication

ingest · networked storage · collaborative editing · playout · archive

Apella – Proven IT-Centric Technology

For over a decade, professional broadcasters have relied on cutting edge technology from Video Technics to ingest, edit, and manage media in a cost-effective workflow, designed with open architecture and non-proprietary file formats.

The Apella is a highly scalable, feature-packed media server built on an IT-centric foundation. VT's innovative software and solutions are future-proofed for the distinct needs of the broadcasting industry. Apella is the ideal solution for live broadcast production, master control, transmission, corporate, government, and education environments.



Apella LCS Technical Specifications

Application Software

VT Database Engine
- *Local SQL database service*
Apella LCS Engine
- *Local processing for video and audio*
VT Director (local seat included)
- *Multi-channel playlist control client*
VT Proxy Editor Plus (local seat included)
- *Asset management and remote editing client*

Timecode I/O

Optional RS-422 serial ports
NTP Server option

Automation Protocols

VDCP
Media Object Server (MOS)
GPI
VT Native Ethernet API

Control and Storage I/O

2 10/100/1000 Mbit Ethernet - RJ45 connector)
4 2.0 USB Ports
2 RS-232 serial ports - DB9 connectors
8 GPI In and 2 GPI Out - DB9 connectors

Optional RS-422 serial ports
8 ports with DB9 connectors
Optional SAN Port Kit
Fibre Channel (optical or copper)
Optional NAS Port Kit
TOE Gigabit Ethernet (copper)

Database Structure

MS SQL relational database engine
20 metadata fields auto-created for each asset
12 user-defined field labels and choices to describe each asset
2 Unlimited ASCII Text Fields per Event

Import Formats

OpenDML AVI
QuickTime DV
PCM WAV
Raw MPEG2 (.MPG)
Raw DV (.DIF)

Optional PathFire DMG Interface – File transfer for either News or Syndication

Export Formats

OpenDML AVI
AAF
AVI, .DV

SD Signal I/O (per channel)

SDI and analog input/output (NTSC or PAL)
SDI contains 8 embedded audio I/O channels

2 in/6 out unbalanced AES/EBU
2 in/6 out balanced analog audio
2 unbalanced analog monitoring output

Analog black burst reference input
- horizontal and vertical phase adjustment
Internal reference clock

Compression

DVCPR0, DVCAM, DV, DV25
MPEG-2 I-Frame up to 25 Mb/s
MPEG-2 IBP (decode only)

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