

Digital Media Server with recording, relaying and PVR for advanced collaboration

IP Video Systems' Digital Media Server (DMS)

IP Video Systems' Digital Media Server is a comprehensive platform for recording, relaying and streaming high-resolution HD video streams over IP networks.



IP Video Systems' DMS 1500

IP Video Systems collaboration products have become the platform of choice among defense systems integrators, oil & gas firms, medical & pharmaceutical and other enterprises needing high-resolution graphics and HD video transport and switching with low latency for global collaboration.

The IP Video Systems' Digital Media Server (DMS) adds new functionality to the collaborative workspace. The DMS has a large internal storage capacity and provides synchronized recording and playback of a large number of high resolution V₂D (Video-to-Data) and MPEG streams. It complements the V₂D platform, already the de facto standard for high quality real-time visual collaboration on a local and global basis over any Ethernet/IP network.

The DMS features a web browser based DMS Media Guide, showing currently collaboration, live streams, live channels, and the recorded program library. The DMS program playback controller allows the user to view live and recorded streams, add bookmarks, annotate and control playback with Pause/Resume, Restart and Skip back and Forward controls. The DMS is also allows import of MPEG media files for later playback and streaming over IP networks.

Table: DMS models with storage and maximum number of streams that can be synchronously recorded or relayed

DMS	Storage	Max. Streams	Form Factor
DMS 100	250 GB	25 streams	1 RU
DMS 200	1.5 TB	25 streams	1 RU
DMS 1200	2 TB	50 streams	2 RU
DMS 1500	4 TB	50 streams	2 RU

Product Features

- Record and playback up to 50 simultaneous V₂D and MPEG streams at original resolution (up to 2560 x 1600)
- Record and play multiple simultaneous streams either as a synchronized program or as independent streams
- Relay incoming unicast or multicast V₂D streams to other unicast or multicast destinations
- PVR (pause/resume/skip) capabilities on live or replayed V₂D and MPEG streams
- Low latency streaming of a large number of recorded or relayed video and stereo audio streams
- Up to 4 TB RAID storage in a 2 RU system
- Standards based Web Services Management Interface for accessing recorded and live collaborations
- Bookmarking, Annotation and selected stream playback

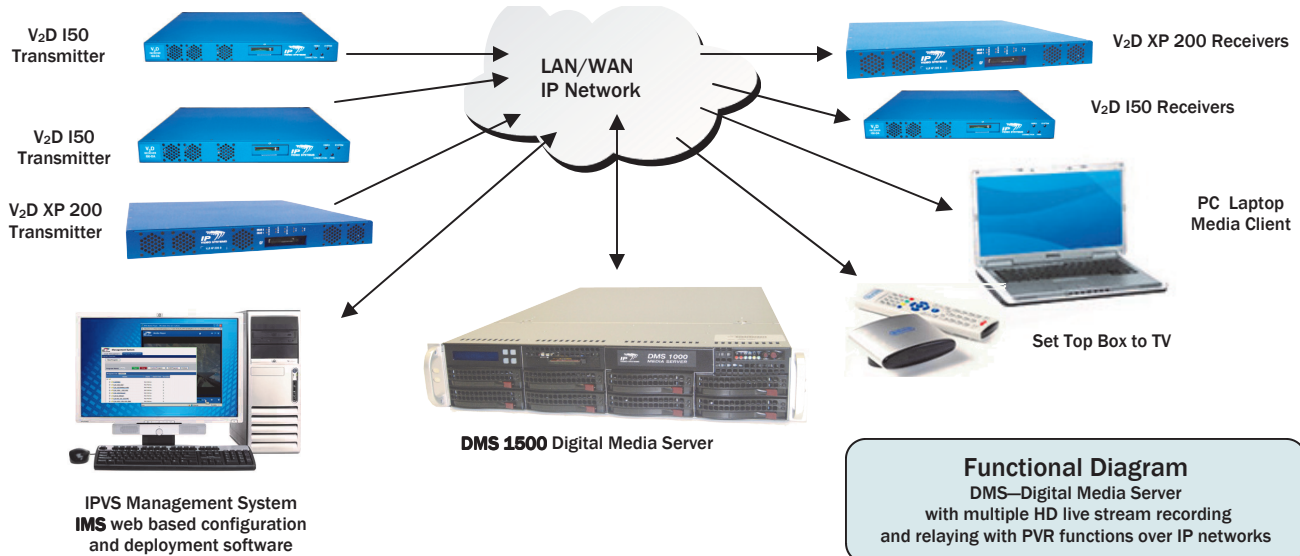
Applications

- Record for replay when key participants cannot participate in the original collaboration
- Record for archiving, training, advanced on-site or off-site demonstrations
- Long term archival libraries
- Record for use in collaborative environments; visualization centers or simulation sessions when the (super) computer resources are unavailable
- Relay allows the DMS to simulate multicast performance over unicast networks.
- Network operators can optimize traffic patterns across non-multicast parts of an IP network and provide rebroadcast of streams at multiple bandwidths to any destination derived from a single source.

Benefits

- All in one platform with Record, Play, Relay and streaming
- Configurable high storage RAID configuration
- Easy program creation through IP Video System's web browser-based management system
- Flexible network architecture
- Fully integrated with IP Video Systems' Management System (IMS) centralized management system for scalable deployment of large distributed multi-node installations

Digital Media Server (DMS) with record, playback and relaying



Technical specifications

Recording Features

- Record unicast and multicast V₂D streams
- Save programs with names including source, date, time and duration
- Store multi-stream programs with synchronization between streams
- Timestamp with high granularity

Playback / Relay Features:

- V₂D Rx or Client unicast or multicast connection through IMS
- Play back at recorded speed
- Synchronized playback of multi-stream programs
- Record, Pause, Resume, Skip back and Forward
- Live relay towards unicast or multicast destinations
- Import MPEG2/MPEG-4 streams

Performance

- Support up to 50 Mbps individual streams for read and write (25 GB/hour)
- Supports up to 50 simultaneous streams with aggregate bandwidth of 500 Mbps (225 GB/hr)
- Up to 4 TB local storage for recording
- Expandable recording via external storage

Network Interface

Interface type	Lan: 2 x GigE Ethernet auto-sense
Connector type	2 x RJ45
Expansion	1 x USB 2.0

Physical and Environmental

LEDS:	Power, Status, and Record
Dimensions:	
DSM-100/200	17.2"(W) x 1.7"(H) x 19.85"(D)
DMS-1000/1500	16.7"(W) x 3.5"(H) x 25.6"(D)
Power:	110 - 220 VAC; approx. 550W
Operating Temp:	10° to 35°C (50° to 95° F)
Non-Operating Temp:	-40° to 70° C (-40° to 158° F)
Operating Rel. Humidity:	8% to 90% (non-condensing)
Non-Operating Rel. Humidity:	5% to 95% (non condensing)
Operating Altitude:	0 to 10,000 ft at 35° C
Non-Operating Alt.:	10,000 to 40,000 ft at 35° C
Security:	1 x CF Card

Regulatory

Electromagnetic Emissions:	FCC Class B
Safety:	UL Listed (USA) CUL Listed (Canada) TUV Certified (Germany) CE Marking (Europe)



Enabling the
Advanced Visual Enterprise

Product specification subject to change. IP Video Systems logo, V₂D I50, XP-200, DMS 100/200/1000/1500 and "Enabling the Advanced Visual Enterprise", are the trademarks of IP Video Systems, Inc.

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