



Espial MediaBase

On-Demand Video Services Platform



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Leading Video Platform Powers Lucrative On-Demand Services

Espial is a leader in enabling interactive and on-demand TV services. Serving nearly two million subscribers, Espial MediaBase is the leading on-demand video platform for IP-based TV services.

Espial MediaBase is a proven platform for powering lucrative on-demand video services for cable, hospitality and telecommunications operators. It is a highly scalable video system for the management, distribution and delivery of video content for media services.

A multi-format, multi-network and multi-client solution, Espial MediaBase provides a cost-effective, scalable and reliable way to deliver on-demand services such as VOD, network PVR, StartOver TV, Time-Shift TV and more.

MediaBase is deployed using standard operator-grade Linux/Intel servers from leading systems vendors and can support centralized or distributed architectures. The highly scalable architecture is designed to expand along with subscriber growth, providing service operators with flexibility and protecting their investment.

With over 7,000 installations, 16 patents, and nearly 2 million subscribers, MediaBase is the first choice in on-demand video platforms for service providers.

KEY FEATURES AND BENEFITS

Unmatched Scalability, Reliability, and Performance

- Scale streaming and storage independently
- Fault-tolerant “n+k” architecture eliminates single points of failure for highly available operations
- Clustered architecture enables very large scale VOD deployments with up to 265Gbps streaming from a single rack
- Network asset transport failover support through instant transfer using redundant NICs
- Supports up to 32Gbps streaming, 100 captures and 160TB storage per server

Open Platforms and Systems

- Reduce CAPEX and OPEX using standard hardware and operating systems
- Easy integration with industry standard Linux and Java/SOAP-XML APIs
- Optimized use of hardware from hybrid (RAM) architectures

Broad Service Delivery Capabilities

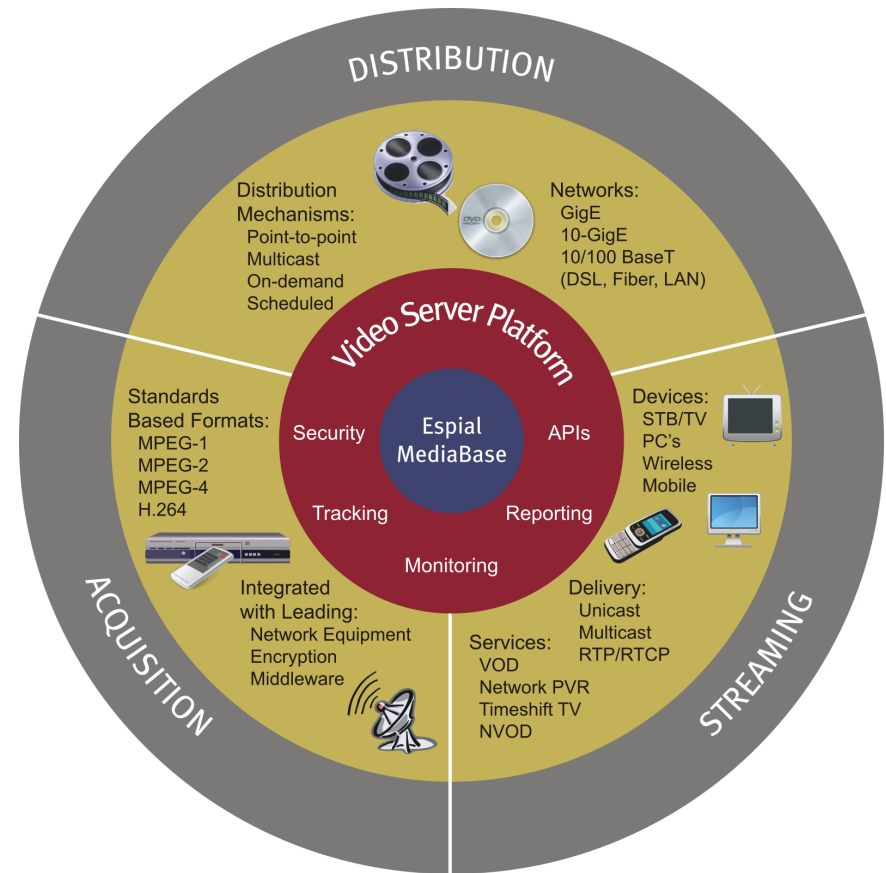
- MPEG-1, MPEG-2, MPEG-4 (incl. H.264) VOD, NVOD, PPV, Network PVR – all from the same server
- 10G/s, GE/s, 10/100Mbps networking
- Integrated with leading STBs, middleware, encoders and gigabit Ethernet QAMs
- HD and SD support

Supports Distributed or Centralized Configurations

- Content distribution through VCD technology for distributed deployments

Manageability

- Integrated web-based video content and server management tool
- QoS management capabilities
- Advanced remote server monitoring via SNMP



PRODUCT OVERVIEW

Proven Solution

The latest in an award-winning line of field-tested products, Espial MediaBase significantly reduces the time, cost, and risk of building and deploying commercial-grade on-demand video applications. It is purpose-built to simplify the management and delivery of SD and HD quality video for small to large scale broadband deployments. Espial MediaBase provides a reliable, flexible and comprehensive platform to manage centralized implementations as well as distributed multi-site, multi-tiered architectures with sophisticated workflows. Espial MediaBase runs on one of the most open and stable operating systems available today: Red Hat Enterprise Linux.

Standard Interfaces Support Rich Features

Espial MediaBase simplifies integration of 3rd party applications and products with industry Standard JAVA/SOAP/XML interfaces, delivery formats and control protocols such as RTSP and LSCP. It is pre-integrated with many middleware and encryption applications for rapid and reliable deployment of VOD, NVOD, SVOD, NPVR, and many other services.

Manageability

Espial MediaBase Cluster Manager enables the set up and maintenance of distributed, high-performance video service networks with low-cost, centralized management. Sophisticated video Content Distribution Networking (CDN) features maximize network efficiency with tailored distribution scheduling. Growing service networks can be redesigned and managed using Espial MediaBase Cluster Manager to allow diverse, decentralized servers to be reconfigured as manageable virtual “superservers.”

Broad Support for Video Streaming

Espial MediaBase supports the industry’s most-widely deployed standards-based streaming formats including: MPEG-1, MPEG-2, MPEG- 4 (Part 2), and H.264 (in MPEG-2 Transport Streams).

High Performance

Espial MediaBase provides a High Performance Network interface for 10Gbps networking support. The xHPN is a real-time, streaming IP delivery accelerator. It is designed to eliminate the performance bottlenecks associated with

traditional network stack implementations that limit asset transfers through network interfaces.

Cost-Effective Scalability and Reliability

MediaBase runs on commercial, off the-shelf servers to maximize performance and support while reducing capital costs. The result is a scalable and highly-manageable video delivery network with unmatched reliability, scalability, and streaming density.

TECHNICAL SPECIFICATIONS

Operating Systems: Red Hat Enterprise Linux 5.0 / 5.3.

Recommended Server Platforms: HP DL Series, IBM x Series.

Streaming Format Support: MPEG-1 (system), MPEG-1 Layer 3 audio (MP3), MPEG-2 (TS), MPEG-4 (ISMA Profile 0 and Profile 1), H.264 encapsulated in MPEG-2 TS, with an MPEG-2 Program-to-Transport Stream Transcoder option.

Trick Mode Support: Single speed FF/RW or 3-speed FF/RW (administrator configurable).

Streaming Modes: Unicast, Multicast (live capture and broadcast, scheduled broadcast of stored video, true NVOD with a dynamic playlist, multicast/unicast switch).

Content Distribution: Point-to-point & multicast distribution.

Content Management: Metadata and video asset management.

Authentication, Authorization: Packaged LDAP server for administrator and user authentication/authorization.

Reporting: W3C compliant logs; Report templates packaged with freeware reporting tool.

System Monitoring: SNMP v.2.0 compliant monitoring daemon.

Database Support: relational database.

Middleware API: The Media Services API (MSAPI) supports integration with middleware to manage content; to schedule multicasts and recordings; and, to distribute content across video servers.

Middleware Support: Espial Evo TV Service Platform, Minerva, Huawei, Alcatel-Lucent, Orca Interactive, Ericsson, Ericsson Tandberg, Netris, CTI, SmartLab, SmartCom, NetGem..

Streaming Control Protocols: RTSP, CORBA-compliant, RTP/RTCP.

Conditional Access/Digital Rights Management: Verimatrix, SecureMedia, WideVine, Irdeto, Viaccess, Nagravision, NDS, Latens, ADB.

Set-Top Box Support: ADB, Amino, ImpressTek, InfoEQ, Motorola, Netgem, Pace, Philips, Sagem, Samsung, Thomson, Wegener, and many others.

Bit Rate Support: 64 Kb/s MPEG-4 to 19.2 Mb/s MPEG-2 HD.

Streaming Accelerator for IP: High performance network driver for UDP/IP.

System Administration: Web-based (Firefox, Internet Explorer) and Espial MediaBase Cluster Manager video network management application.

Streaming Data Protocols: UDP/IP & TCP/IP (MPEG-1, MPEG-2), RTP/UDP/IP & RTP/TCP/IP (MPEG-4), RTP/RTCP MPEG2.

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