



mirial



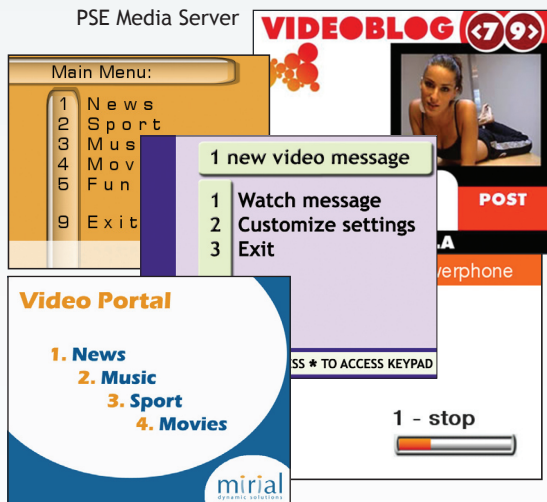
PSE Media Server

IMS media server for interactive audio/video applications development - now with HD support



PSE Media Server

Sample screenshots of applications built with PSE Media Server



PSE Media Server is a comprehensive platform for the deployment of audio/video interactive applications in H.323, SIP and H.324M networks.

It supports industry standard protocols and interoperates with all terminals ranging from HD high-end videoconferencing systems to 3G mobile phones.

PSE Media Server with HD support

Mirial PSE Media Server is the first and only media server specifically engineered for the development of interactive HD video services in SIP, H.323 and H.324M networks.

It is fully compliant with all major visual communication standards, and can be seamlessly integrated into any videoconferencing environment, in both packet (IP: SIP and H.323) or circuit switched (3G: H.324M) networks.

PSE Media Server allows access to its services no matter what endpoint the customer is using. It has been designed for performances and scalability; one single instance can support hundreds of concurrent audio/video calls making it a perfect solution for carrier-grade deployments.

Enterprises, carriers and service providers can also take advantage of a new set of packaged video applications from Mirial. These off-the-shelf and easily configurable products enable companies to dramatically shorten deployment time, accelerate ROI and cost-effectively access advanced application design and development experience.

Highlights

- ➔ Support for audio/video and audio only services
- ➔ Support for SD (Standard Definition) and HD (High Definition) video resolutions
- ➔ Accessible via endpoints (SIP, H.323, H.324m via 3G gateway) or web
- ➔ User friendly navigation via DTMF tones
- ➔ Up to 250 concurrent video calls on a single server
- ➔ Carrier grade deployment for fault-tolerance
- ➔ Scalability and field-proven reliability
- ➔ Web based Administration Console
- ➔ Import/export of many media formats including FLASH, WMV, AVI, MOV, MPEG, WAV, MP3
- ➔ Prepackaged applications available from Mirial
- ➔ VoiceXML-based development of custom audio/video interactive services
- ➔ Native and optimized support for low bandwidth in 3G environments

PSE Media Server (PSE.MS) Specifications

H.323

Fully ITU-T H.323 v.4 compliant
H.323 external gatekeeper, MCU and GW support

SIP

Fully SIP RFC-3261 compliant
SIP Microsoft Office Communications Server™ extensions

Video

Video Standard: ITU-T H.263, ITU-T H.264
Video Resolution: QCIF, CIF, 4CIF, HD (720p)
Framerate: up to 30fps
Fast Video Recovery™

Audio

Audio Standard: G.711 μ -law/A-law, G.722.1C
Optional: AMR-NB, G.723.1, G.728, G.729A
DTMF tones (in-band and out-of-band)
Support for RFC-2833

Administration and management

Web based administration console
Support for SNMP MIBs

Application integration

VoiceXML 2.0 over HTTP
Web Services for media repository management
Web Services for media call management

Carrier grade features

Fault tolerance via Twin-Server configuration
Fault tolerance via Clustering (with external storage)

Billing

Comprehensive call-oriented CDR generation
Web Services for billing notification to external applications

Network

Bitrate: up to 768Mbps (with H.263), up to 2Mbps (with H.264) per single call
QoS via DIFFSERV (DSCP)
Static NAT support
Concurrent signaling protocol support (SIP/H.323)

Hardware

1U (up 250 ports) standard 19" rackmount
Certifications: FCC Class A, ICES Class A, CE Mark (EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3), VCCI Class A, BSMI Class A, C-Tick Class A, SABS Class A, CCC Class A, MIC Class A, UL 60950-1, CAN/CSA C22.2 N.60950-1, EN/IEC 60950-1

Input Media and External Sources Formats

avi (All ADPCM codecs, Microsoft Windows Media Audio v7-v8-v9, MPEG audio layer 1-2 and 3, Vorbis, AC3, AAC, DV audio, DivX, Xvid, Cinepak, Intel Indeo 3.0-5.0 Video, Microsoft RLE, Microsoft Video-1, Microsoft MPEG-4 Standard Video, Microsoft MPEG-4 Video v1-v2-v3, Microsoft Windows Media Video v7-v8-v9)	wav (All PCM and ADPCM)
wmv (Microsoft Windows Media Audio v7-v8-v9, Microsoft Windows Media Video v7-v8-v9)	mp3 (MPEG audio layer 1-2 and 3)
mpg (MPEG audio layer 1-2 and 3, MPEG-1 video, MPEG-2 video, MPEG-4 video)	wma (Microsoft Windows Media Audio v7-v8-v9)
3gp (AMR-NB, AMR-WB, H.263)	Still images (png, jpg, bmp, gif)
flv (MPEG audio layer 1-2 and 3, Sorenson H.263, Flash Screen Video)	internal batch rate and codec matching
mp4 (AC3, AAC, MPEG-4 video)	Support for external RTSP 1.0 live sources (AMR-NB@12.2Kbps, H.263)
mov (Apple lossless audio, AAC, H.264, Sorenson Video 1, Sorenson Video 3)	Call Tunneling™: 1-to-1 services
rm (RA144, RA288, RADnet, Real COOK, RealVideo 1.0, RealVideo 2.0)	Persistent Calls™: 1-to-Many services

Export Media Formats (for integration purposes)

wmv (Windows Media Video V8)	wma (Windows Media Audio 8Khz)
flv (Flash video (H.263+mp3))	wav (Waveform audio format 8Khz ADPCM)
3gp (3GPP (H.263+AMR-NB))	jpg
mp3 (MPEG audio layer 3)	

Examples of applications built on PSE Media Server include:

- ➔ Video Mail
- ➔ Video Portal
- ➔ Video Call Center / Help Desk
- ➔ Video surveillance systems
- ➔ Video call rejection handling
- ➔ Network announcements
- ➔ Multi-conferencing lounge
- ➔ Video on Demand
- ➔ Video Chat
- ➔ Video Dating
- ➔ Video Blog
- ➔ Video Ring Back

mirial

PSE Media Server, Mirial and the Mirial logo are registered trademarks.
All trademarks are the property of their respective companies.
Specifications are subject to change without notice.
* Planned

www.mirial.com

Mirial - Via Donatello 30, 20131 Milan (ITALY)