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Mirial Softphone

Professional Full-HD videoconferencing and Desktop Telepresence on Windows and Mac

HD Visual Communication

Mirial Softphone is the most advanced software-only client for professional quality videoconferencing, today with Full-HD support, embedded transcoding MCU capabilities and advanced media encryption.

With Mirial Softphone, a webcam and a laptop or desktop PC every user can take advantage of benefits from visual communication and collaborative work in a totally secure environment.

Mirial Softphone is fully compliant with all major visual communication standards, and can be seamlessly integrated into every visual communication network.

Easy to use, cost-effective, unmatched quality, compatibility with state of the art video communication equipment: Mirial Softphone is the right choice to bring Visual Communication on every desktop.

Highlights

- ➔ Available for Windows and Mac OSX platforms
- ➔ H.264 up to Full-HD (1080p) video codec on standard PCs
- ➔ Natural, full-motion video up to 2Mbps @ 30fps
- ➔ Call Management (2 lines: call hold, call transfer)
- ➔ Embedded transcoding MCU functionalities (3-party video calls)
- ➔ Media encryption
- ➔ Concurrent H.323 and SIP support
- ➔ Call recording, playback and export in WMV format
- ➔ H.239 data collaboration
- ➔ Desktop Video Sharing mode
- ➔ Web integration
- ➔ Configuration Wizard
- ➔ Standard, compact and full screen mode
- ➔ Resizable GUI
- ➔ Contacts management
- ➔ Remote Update
- ➔ Audio/video (VVoIP) and audio only (VoIP) calls
- ➔ Wideband audio, full duplex Echo Canceller



Mirial Softphone Specifications

User Interface

Single file quick installer (~10 MB)

No kernel drivers, no reboot needed

Simple interface, intuitive to the non-technical user

Resizable GUI

Web integration (click on a link to call)

Address Book with presence indication

Calls List (quick switch to All, Incoming, Outgoing, Missed)

Automatic Update over Internet

Extensive logging providing detailed user problem reports

Realtime graphical statistics for quick problem diagnosis

Support for multiple languages (English, Italian, German, Spanish)

Integrated GUI support for Mirial PSE.VAM Video Answering Machine

Call recording, playback and export in Windows Media Video (WMV) format

Call Control

2 independent lines

Call hold and call transfer

3-party continuous presence multiconference without external equipment

H.323

Compliant with ITU-T H.323v4, H.225v13

Call Control (H.450.2)

H.239 Presentation (up to 1280x768)

Far End Camera Control (H.224 + H.281)

Call party by E.164 number, H.323 Alias or IP (no Gatekeeper required)

Gatekeeper autodiscovery and automatic re-registration

SIP

RFC compliancy:

RFC-2396, RFC-2543, RFC-2617, RFC-2822, RFC-2833, RFC-2976, RFC-3260, RFC-3261, RFC-3264, RFC-3265, RFC-3311, RFC-3420, RFC-3428, RFC-3515, RFC-3581, RFC-3550, RFC-3856, RFC-3859, RFC-3860, RFC-3863, RFC-3891, RFC-3960, RFC-3984, RFC-4488, RFC-4961, RFC-5168, draft-ietf-sip-183-00, draft-roach-mmusic-sip-provisional-media-00, draft-rosenberg-imp-pidf-00, draft-ietf-sipping-cc-transfer-09

Support for DTLS-SRTP Media Encryption:

draft-ietf-sip-dtls-srtp-framework, draft-ietf-mmusic-sdp-capability-negotiation, draft-ietf-avt-dtls-srtp, RFC-4347 (Datagram TLS), RFC-3711 (SRTP)

Support for advanced SDP (RFC-4566) and extensions:

RFC-3984, RFC-4573, RFC-4587, RFC-4629, RFC-4796, RFC-4855

Both UDP and TCP transports, with configurable default

Support external Registrar and/or Proxy

Secure authentication: Digest (MD5), Kerberos, NTLM

Automatic caching of multiple credentials

Call party by SIP URI or IP/hostname (no Registrar or Proxy required)

Support dynamic codec/IP/port change for each negotiated medium

Send DTMF out-of-band as per RFC-2833, or in-band with any audio codec

Presence events as per draft-rosenberg-imp-pidf-00 (X-PIDF)

RFC-3863 (PIDF)

Partial support for SOAP events (SERVICE method)

Video picture fast update as per draft "XML Schema For Media Control" (INFO method)

Data, Application and Presentation

H.224 + H.281: Far End Camera Control (FECC)

Compliant with RFC-2326 (client only), RFC-2396, RFC-3550, draft-ietf-mmusic-rfc2326bis-18 (RTSP bis)

Session Description Protocol (SDP):

RFC-3555, RFC-3984, RFC-4566, RFC-4573, RFC-4587, RFC-4629, RFC-479, RFC-485, draft-aven-avt-h263-h261-options-00 (used for backwards compatibility)

H.239 presentation up to 1280x768 (emulated in SIP with RFC-4796):

- Multiple monitors support
- Transmit an application window or the entire desktop as a separate realtime video stream (speaker live stream is still visible)
- 4x high-quality antialiasing

VideoSharing mode when H.239 is not available:

- Use the standard video channel to send the presentation instead of the speaker live stream
- Compatible with all endpoints supporting video calls

Audio

G.711 μ -law, A-law

G.723.1 6.3 and 5.3 Kbps:

- VAD (Voice Activity Detection)
- Low Pass Filter

G.722.1 Annex-C (Polycom® Siren14™, 32 KHz super wide-band)

Full duplex, high-quality Acoustic Echo Canceller

Full duplex Audio Denoise Filter with automatic noise level detection

Video

H.264: 1080p, 720p, 4CIF, CIF, QCIF, SQCIF @ 30 fps max

- Up to 2 Mbps in High Definition (1920x1080)
- H.239 up to 2Mbps at WXGA resolution (1280x768)
- In-band dynamic video format changes
- Automatic "quality vs. CPU load" dynamic adjustment

H.263: 4CIF, CIF, QCIF, SQCIF @ 30 fps max

- Implemented annexes:
 - Annex-D (unrestrictedVector)
 - Annex-E (arithmeticCoding)
 - Annex-F (advancedPrediction)
- Half-Pel Motion Estimation
- TMN-9 rate control
- In-band dynamic video format changes
- Automatic "quality vs. CPU load" dynamic adjustment

H.263+ (adding the following features to H.263):

- Supported annexes:
 - Annex-I (advancedIntraCodingMode)
 - Annex-J (deblockingFilterMode)
 - Annex-S (alternateInterVLCMode)
 - Annex-T (modifiedQuantizationMode)
- RFC-4629 (ex RFC-2429) RTP media packetization

H.261: CIF, QCIF @ 30 fps max

- Up to 2 Mbps
- Loop-Filter
- Automatic "quality vs. CPU load" dynamic adjustment

Camera support:

- Standard webcams
- High-Definition webcams and HDMI capture boards at resolutions up to 1920x1080
- PAL/NTSC DV cameras over Firewire IEEE-1394 (on Windows XP or better only)

Video input aspect ratio is automatically detected and adjusted to fit the output aspect ratio

Network and Quality of service (QoS)

Automatic bandwidth control, adaptive to network condition

Support asymmetric input/output bandwidths (e.g. ADSL), up to 2 Mbps RX + 2 Mbps TX

Configurable port ranges for signaling and media protocols

Static NAT support

Systems with multiple IP are supported

Automatic or manual IP address selection is available

Configurable DIFFSERV code

Minimum Requirements

Operating System:

- Windows 2000/XP/2003/Vista (including 64 bit versions), DirectX 9.0c or higher
- Mac OS X 10.5 Leopard or higher

P4@2.0Ghz (audio/high-res video calls)

Core 2 Duo class, 2.33 GHz (H264, 720p video calls)

Core 2 Quad class, 2.66 GHz (H264, 1080p video calls)

1GB Ram (2GB recommended on Vista) and 30Mb hard-disk space

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