

GnomeMeeting

Overview: A Full-featured IPv6 Capable
VoIP/Video Conferencing Application

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What is GnomeMeeting?

- Written by Damien Sandras et.al.
- Video- & voice-conferencing system
- Based on **GNOME-libs**, **pwlib**, and **openh323**

Which platforms does it work on?

- **Linux** (all recent common distributions)
- **FreeBSD, MacOS X** (using fink)

What hardware is required?

- USB webcam or any other v4l / firewire device (optional)
- Soundcard (full-duplex) and headset

What does it look like?

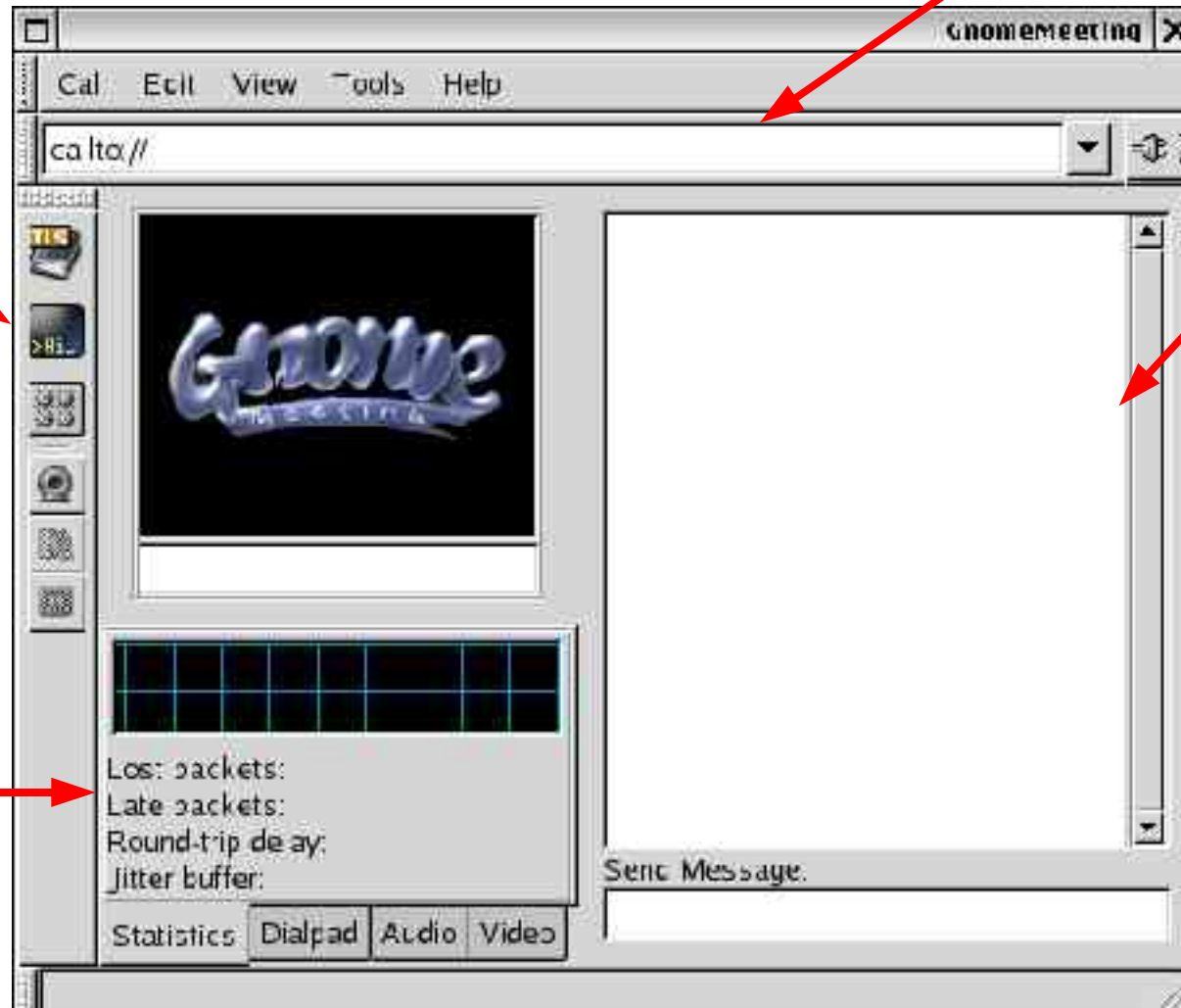
Button bar:

- View address-book
- View chat
- Display control panel
- Camera preview
- Mute sound
- Stop video

Control panel

URL textfield

Text chat



Feature list



H.323 Compliance

Audio Codecs

Video Codecs

Speex, LPC10,
GSM-06.10, MS-GSM,
G.711-Alaw, G.711-uLaw,
G.726, G.723.1 (X)

H.261-QCIF,
H.261-CIF

H.245 Tunneling

ILS/LDAP Support

Full i18n in 28
languages

Hold / forward call

Operation behind
NAT / firewall

Gatekeeper-Support
(H.235 authentication)

Quicknet Card Supp.

Almost fully IPv6
compatible

(X) Only in conjunction with Quicknet hardware

IPv6 support – a summary

- IPv6 support since april 2003
- < 10 lines of code had to be changed for IPv6 port!
- IPv6 port was mostly done in supporting libraries

• Working features:

- Receiving calls over IPv6
- Making calls over IPv6
- Full and transparent backward compatibility with IPv4

• Still missing:

- ILS support for listing IPv6 addresses (missing feature in ILS server implementation)
- Connecting to ILS servers using IPv6
- FQDN resolution for AAAA records (known problem in pwlib)

IPv6 support – a summary 2

IPv6 code:

src/endpoint.cpp (lines 175-178)

```
/* Use IPv6 address family by default if available. */  
#ifdef P_HAS_IPV6  
    PIPSocket::SetDefaultIpAddressFamilyV6();  
#endif
```

src/endpoint.cpp (lines 695-697)

```
/* Start the listener thread for incoming calls */  
listener =  
    new H323ListenerTCP (*this, PIPSocket::GetDefaultIpAny(),  
    \ listen_port);
```

Links

Compilation howto:

http://www.join.uni-muenster.de/Dokumente/Howtos/howto_install_gnomemeeting.php

GnomeMeeting homepage:

<http://www.gnomemeeting.org>

pwlib andopenh323 homepage:

<http://www.openh323.org>

GNOME homepage:

<http://www.gnome.org>

Hands-on demo – hopefully... ;-)

Backup hands-on demo ;-)

German localization



English localization

Questions?

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<http://www.ipv6.uni-muenster.de> (IPv6-only)