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, andopenh323

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: Speex, LPC10, GSM-06.10, MS-GSM, G.711-Alaw, G.711-uLaw, G.726, G.723.1
- Video Codecs: H.261-QCIF, H.261-CIF
- Video Codecs: 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

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Join Open InterNetworks
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 and openh323 homepage:
http://www.openh323.org

GNOME homepage:
http://www.gnome.org
Hands-on demo – hopefully... ;-)}
Backup hands-on demo ;-)}
Questions?

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