



How to watch desktop audio and video multicast over the Internet

1 Introduction

As a trial, some events such as the IT seminar and IEC TC3/Workshop will be telecast with permission of the organizers, to those who are not present at the meeting rooms in the 63rd IEC General Meeting in Kyoto, using networked audio and video, including people who are at the other rooms in the meeting premises.

It will be made possible by IP multicasting encoded audio and video to a multicast backbone, which is also known as MBone – a virtual worldwide internetworking playground over the Internet. Unlimited number of people can watch the same multicast without increasing traffic as a whole. The people can join the multicast session as they like and leave the session any time when they wish.

The MBone is as old as the World Wide Web (WWW) which is much popular these days than the MBone. Initially, as the WWW was, software has been developed for UNIX-platform, but now software for PC's is also available. This document describes how to watch what is going on in the 63rd IEC General Meeting in Kyoto from your office all over the world using your desktop PC's.

2 Recommended software

There are several options depending on what PC you are using in your office, but this document is focused on software for PC's running Microsoft Windows 95, 98 or NT4.

2.1 To download and to install

It is recommended to download "Mbone-Tools.exe", in which all necessary components such as an audio tool (RAT), a video tool (VIC), a shared whiteboard (WBD), a shared text editor (NTE) and a session directory tool (SDR) are included. The installation package is available at

<http://scrappy.cs.ucl.ac.uk/shrimp/install.html>.

The UCL Networked Multimedia Research Group is responsible for the development of these tools on both Windows and UNIX operating systems. Thus, it is also known as "UCLshrimp," developed by the Computer Science Department at University College London, the Computer Systems Engineering Group at Lawrence Berkeley Laboratory and the LUTCHI Research Centre at Loughborough University.

After downloading "Mbone-Tools.exe," double click the file. The tools will automatically be installed in a default directory, C:\Program Files\mbone.

2.2 To run

To watch MBone sessions, double click "sdr" and wait a while. Find the session name such as "63rd IEC General Meeting in Kyoto" in a session list and double click it.

NOTE -1: A LAN segment to which your PC is connected by a PC card should be "tunneled" to the Mbone. In other words, a gateway or router should be configured to run the daemon "mrouted." If you have any difficulty in running "sdr" or audio/video tools, please consult with LAN manager of your department.

NOTE -2: The installation package "Mbone-Tools" are copyrighted. Please read the copyright text in the next page.

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MBONE TOOLS

Internet Video Conferencing Software for Microsoft Windows platforms

[Installations](#)[Updates](#)[F.A.Q.](#)[Changes log](#)[Feedback](#)

Note: The [UCL Networked Multimedia Research Group](#) is responsible for the development of these tools on both Windows and UNIX operating systems.

Installation files for the Windows95/98/NT4 Mbone video conferencing tools can be downloaded from this page (via the FTP site). FTP mirrors are available from [CRC, Canada](#), [Funet, Finland](#) and [Microsoft Research](#).

Remember to read the [copyright text](#) before downloading anything!

Mbone tools: [download installation \(4,332KB\)](#)

The basic 'Mbone' tools are required for multicast video conferencing. The installation package includes an audio tool (RAT), a video tool (VIC), a shared whiteboard (WBD), a shared text editor (NTE) and a session directory tool (SDR).

Note: Changes to these tools are frequent, as they are still being developed. Please check the updates page for the latest versions. Installation updated: 14th Jan. '99.

Intergrated Interface: [download installation \(1,307KB\)](#)

The intergrated interface provides a single interface (in a 1024x768 frame) for all the Mbone video conferencing tools. It requires that the Mbone tools **from this site** have been installed, it will **not** work with Mbone tools from other sources. Installation updated: 14th Jan. '99.

Supporting installation files

Ghostscript: [download installation \(3,502KB\)](#)

Ghostscript is required to import and show Postscript files in the shared whiteboard (WBD). If you already have ghostscript installed, make sure that you set the GS_LIB environment variable to the location of your ghostscript program files. Installation updated: 29/04/98.

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