GlobalMMCS

Commumity Grids Lab at Indiana University

Global Multimedia Collaboration System

The goal of the globalMMCS project is to build a service-oriented collaboration system based on the Web Services framework, which can providescalable, reliable, pervasive and persistent multimedia collaboration services to heterogeneous clients. Collaboration tools include audio video conferencing, instant messaging, stream archiving and replay, whiteboard, and shared display.

Applications

A/V conferencing

Support for H.323, SIP, and Access Grid protocols

Audio and video mixing services combining streams for

clients like PDA's and Polycom that only support one stream

Stream archiving

Instant replay allowing annotation and rewind/forward of real-time streams

Bridge the gaps between different protocols, standards, servers and clients

Codec version to RealVideo

Use of NaradaBrokering for both control and data streams
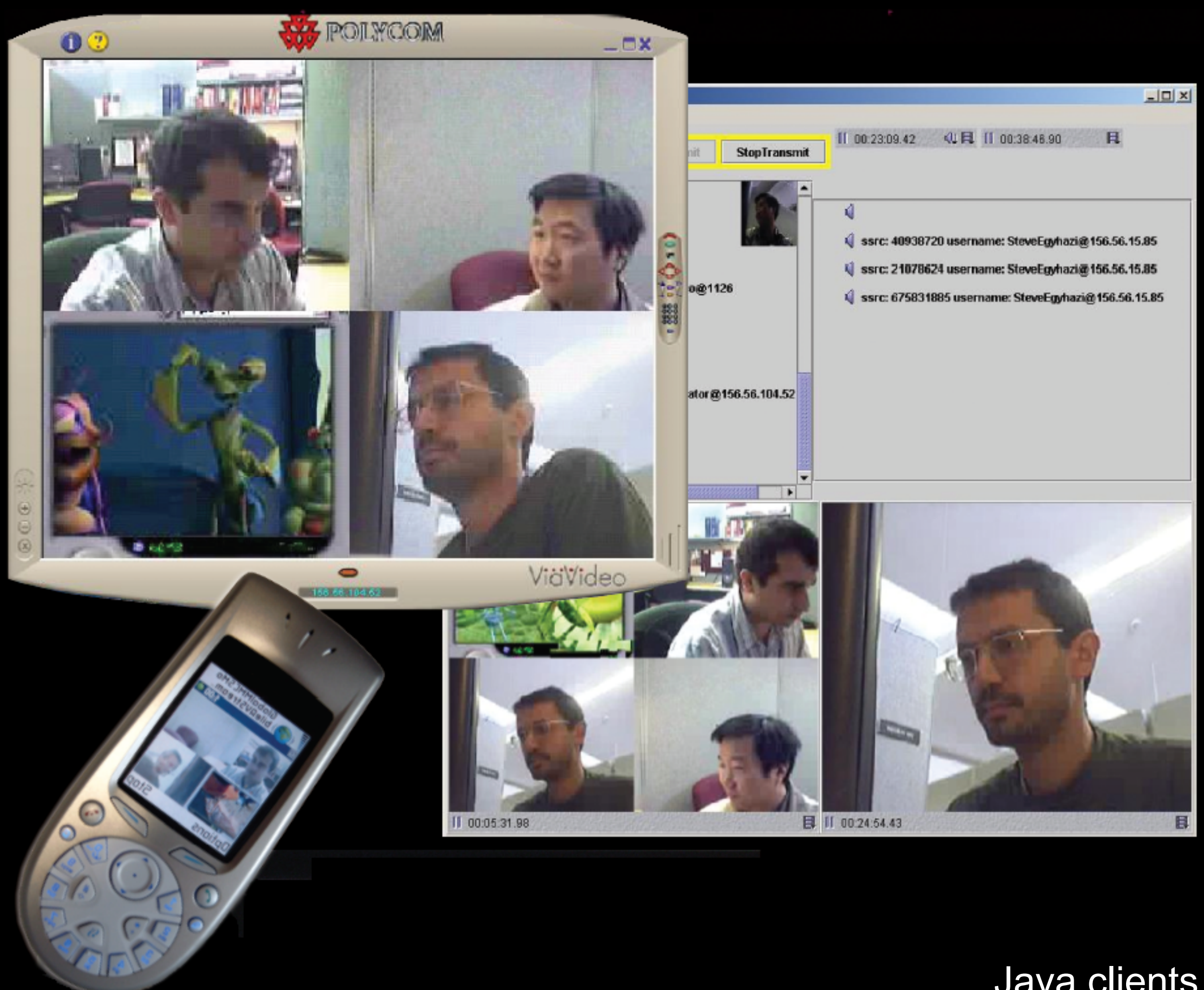
XGSP, a generic XML-based session management system

eSports

Shared display

Whiteboard

Instant Messaging

eLearning

The GlobalMMCS integrates video from desktop screen, web camera, Polycom ViaVideo and PDA camera feeds. Cellular phone display shows four live video feeds. PDA and PC with shared and scalable whiteboard.

Java clients

Servers support several hundred clients per Linux server

Servers are scalable indefinitely using NaradaBrokering's distributed network

Geoffrey C. Fox (gcf@indiana.edu)   Wenjun Wu (wewu@indiana.edu)   www.globalmmcs.org

501 N. Morton St., Suite 224   Bloomington, IN 47404   Phone: 812-8567977   Fax: 812-8567972