

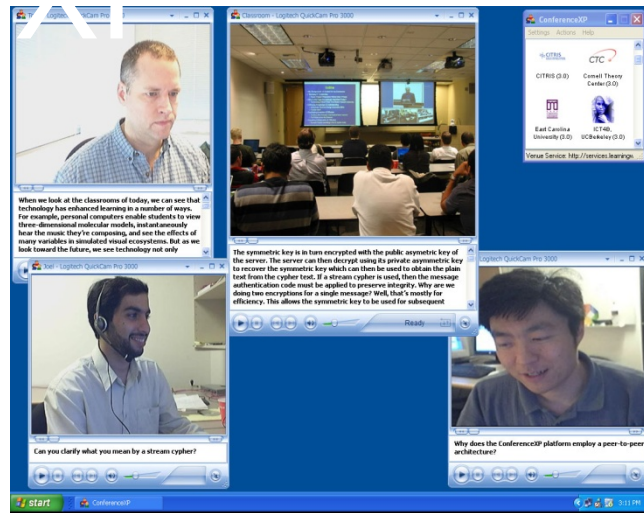
Todd Needham  
Sr. Program Manager  
Microsoft Research

[todd.needham@microsoft.com](mailto:todd.needham@microsoft.com)

# What Keeps Me Excited!

- Scalable, High Fidelity, Multi-party, Real Time Conferencing
- Capture and Archive for Multi-party
- Instructional Opportunities
- High Definition content support

# Conference



<http://research.microsoft.com/conferencexp>



- Advanced Collaboration
- Distance Learning
- Broadcast quality audio & video

# The Breadth of RTC Scenarios

- One-to-one: Live Messenger, Office Communicator...
- Netcasting Video: Windows Media Server Services
- One-to-many w/PowerPoint & audio: Live Meeting
- Many-to-many: ConferenceXP, Access Grid, inSORS...

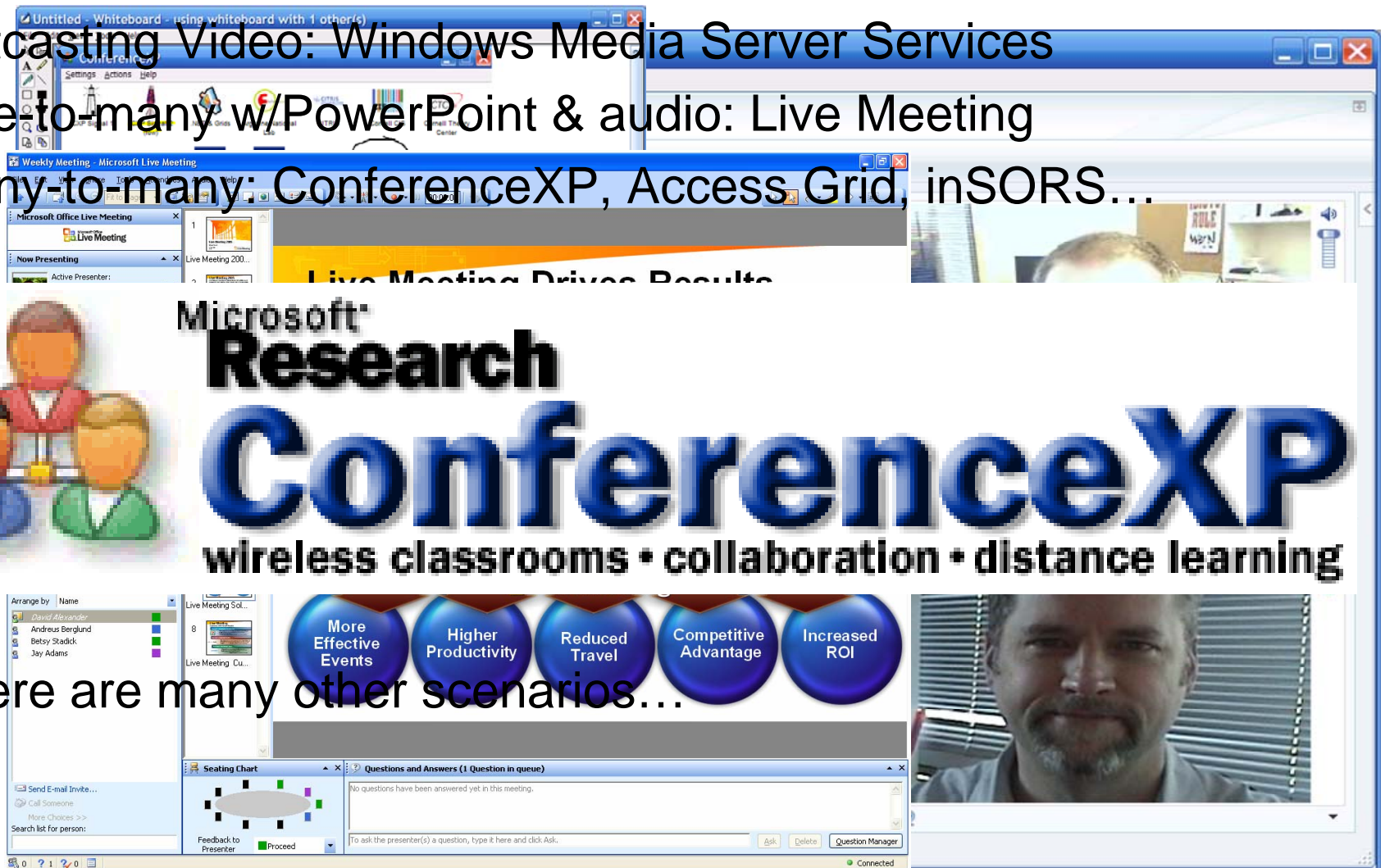


Microsoft  
**Research**

# ConferenceXP

wireless classrooms • collaboration • distance learning

- There are many other scenarios...





- Ease of:
  - Use
  - Installation
  - Configuration
- Flexibility
- Managed Code & Windows MM
- Infinite Scalability\*
- Broadcast-Quality Conferencing\*

# ConferenceXP is for Research Government Academic Networks

- Multicast dependency
  - Internet2 and similarly MC-enabled networks
  - Scalability limitations on unicast service\*
  - No commercial deployment of multicast\*
  - Fixed IP addresses in multicast deployments
- High end node requirement
  - Fastest dual-core or multi-processor
  - 3+ displays not unusual
- A Microsoft Community Source Project

# ConferenceXP Components

The screenshot displays the ConferenceXP application interface. On the left is a sidebar with various icons and logos, including .CXP Signal 1, .CXP Signal 2 (low), East Carolina University, Florida State University, MIT iCampus, MSR TAB, Open Room, Penn State, UC San Diego, and UC Santa Cruz. The main window is titled "Recorded Conferences" and contains two tables: "Conferences" and "Streams".

**Recorded Conferences - Conferences**

Select the conference you want to play back:

Name	Date	Time	Duration
2006 SMM General Session - Future of...	4/25/2006	7:35:10 AM	00:47:44
2006 SMM Library of Congress Busines...	4/25/2006	12:04:05 PM	00:52:33
2006 SMM Middleware futures	4/25/2006	5:48:52 AM	01:16:50
2006 spring member meeting web 01	4/26/2006	6:00:01 AM	01:15:36
2006 Spring Member meeting Wed 02 c...	4/26/2006	7:30:00 AM	01:15:36
2pm	4/3/2006	10:50:00 AM	01:15:36
afternoon	4/3/2006	11:00:00 AM	01:15:36
d1	4/10/2006	5:40:00 AM	01:15:36
d1	4/10/2006	5:40:00 AM	01:15:36
ll	4/10/2006	5:40:00 AM	01:15:36

**Recorded Conferences - Streams**

Select the streams you want to play back:

Participant	Stream	Type
<input checked="" type="checkbox"/>	bob riddle - 1394 Desktop Vide...	dyn
<input checked="" type="checkbox"/>	bob riddle - Intel(r) Integrated A...	dyn
<input checked="" type="checkbox"/>	bob riddle - Intel(r) Integrated A...	dyn
<input checked="" type="checkbox"/>	bob riddle - Osprey-100 Video ...	dyn
<input checked="" type="checkbox"/>	bob riddle - Osprey-100 Video ...	dyn
<input checked="" type="checkbox"/>	peterg - Logitech QuickCam M...	dyn
<input checked="" type="checkbox"/>	peterg - USB Audio Device	dyn
<input checked="" type="checkbox"/>	staff@MOBILECO... - Hauppauge WinTV USB Pro ...	dyn

**Configure Reflector Services**

Reflector Service host name or IP address:

For example: my.reflectorservice.com, 192.168.0.1, or 2000::1:212:79ff:fed2f77 [More Information](#)

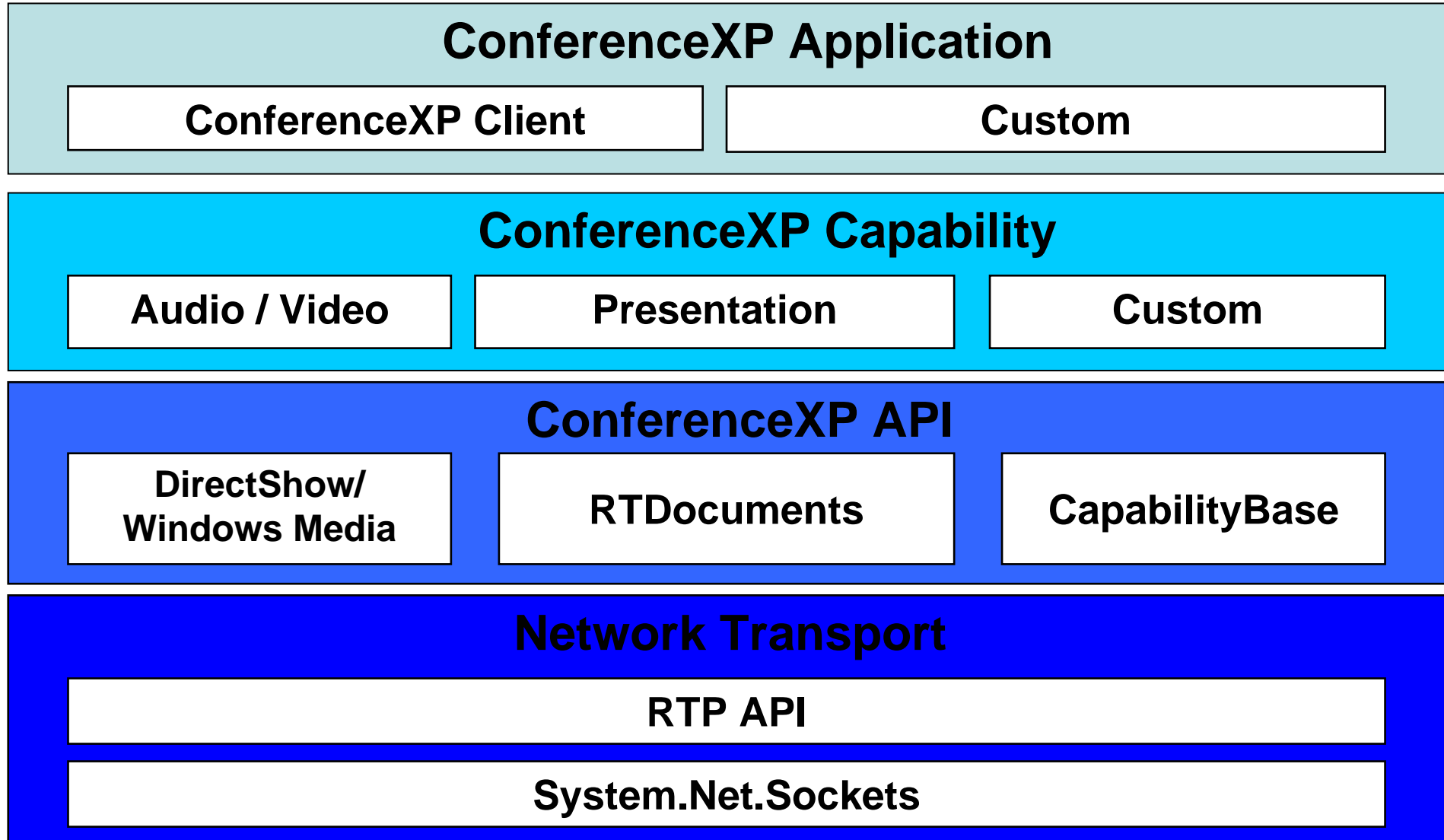
My Reflector Services:

Buttons: Add, Replace, Delete, OK, Cancel

Bottom buttons: Select, Cancel

Reflector enabled (Unicast Mode): conferenc

# ConferenceXP Architecture





# University Engagements

**Purdue:** *Immersive Mentoring Using Mixed-Reality Tabletop; A Tablet-PC Based Teaching Platform for Portable Mixed-Reality Concept*

**UC Davis:** *Smart Classroom: Next Generation Collaborative Teaching and Learning over ConferenceXP*

**Michigan State:** *Wireless ConferenceXP with Intelligent Congestion and Rate Control; Peer-to-peer Multi-reflector Networking for ConferenceXP*

**UCSD:** *A Tiered Approach to Evaluating and Exploiting the Effects of Multi-modal Communication on Expression and Learning in the Classroom*

**UW:** *The Teacher Experience Project; Windows Media Transcoding using CXP Archive Service ; An Ink Enabled Curriculum for Data Structures*

**University of Virginia:** *Investigating the Effective Use of Tablet PCs in CSE Education; A Comparison of Educational Outcomes when Teaching Electronic Commerce Using Traditional vs. Tablet PC-Enhanced Methods*

**MIT:** *Classroom Learning Partner*

**UIUC:** *Mentoring and Assessment Both Inside and Outside the Classroom; Visual Information Manager*

**IIT, Kanpur, India:** *Health Information Delivery*

**Brown University:** *ReMarkable Texts*

**NTU, Argentina:** *Mathematical Whiteboard Using ConferenceXP*

**U Missouri:** *Enhancing Reliability by Supporting Path-Diversity Overlay Retransmission*

**Pace University:** *Utilizing the Tablet PC to Enhance Lectures and Team Work Project*

**U Nebraska:** *Supporting and Enhancing Cooperative Learning with ConferenceXP-powered I-MINDS*

**Southwest Missouri State:** *Proposed Uses of Microsoft's ConferenceXP by the Missouri Virtual School*

**UC Davis:** *Smart Classroom: Next Generation Collaborative Teaching and Learning over ConferenceXP*

**Saint Louis:** *Connecting Saint Louis University Campuses via Conference XP*

**U Mass, Amherst:** *Implementing ConferenceXP In A Multi-cultural, Collaborative, Academic Environment*

**Vanderbilt:** *Improving Formative Assessment and Research Planning with ConferenceXP*

**UCSC:** *Advanced Classrooms Exploiting Tiled Displays and Student Computers; TeleEducation / TeleCollaboration and Streaming Multimedia*

**University of Tennessee:** *ConferenceXP and NetSolve Usage*

# Academic Research Projects

## **2005 ConferenceXP Projects**

Enhancing Reliability by Supporting Path-Diversity Overlay Retransmission

Visual Information Manager

Supporting and Enhancing Cooperative Learning with ConferenceXP-powered I-MINDS

Windows Media Transcoding Using ConferenceXP Archive Service Data

Advanced Classrooms Exploiting Tiled Displays and Student Computers

The Classroom Learning Partner: Electronic Support for Student Learning

Classroom Presenter Development and Deployment

Peer-to-Peer Multi-Reflector Networking for ConferenceXP

Implementing ConferenceXP in a Multi-cultural, Collaborative, Academic Environment...

## **2004/2003 ConferenceXP Projects**

Health Information Delivery

Immersive Mentoring Using Mixed-Reality Tabletop

Mathematical Whiteboard Using ConferenceXP

Mentoring and Assessment Both Inside and Outside the Classroom

ReMarkable Texts

A Remote Teaching Assistant Support System

Responsible Conferencing: Congestion Control for High-Quality Media

Smart Classroom: Next Generation Collaborative Teaching and Learning over

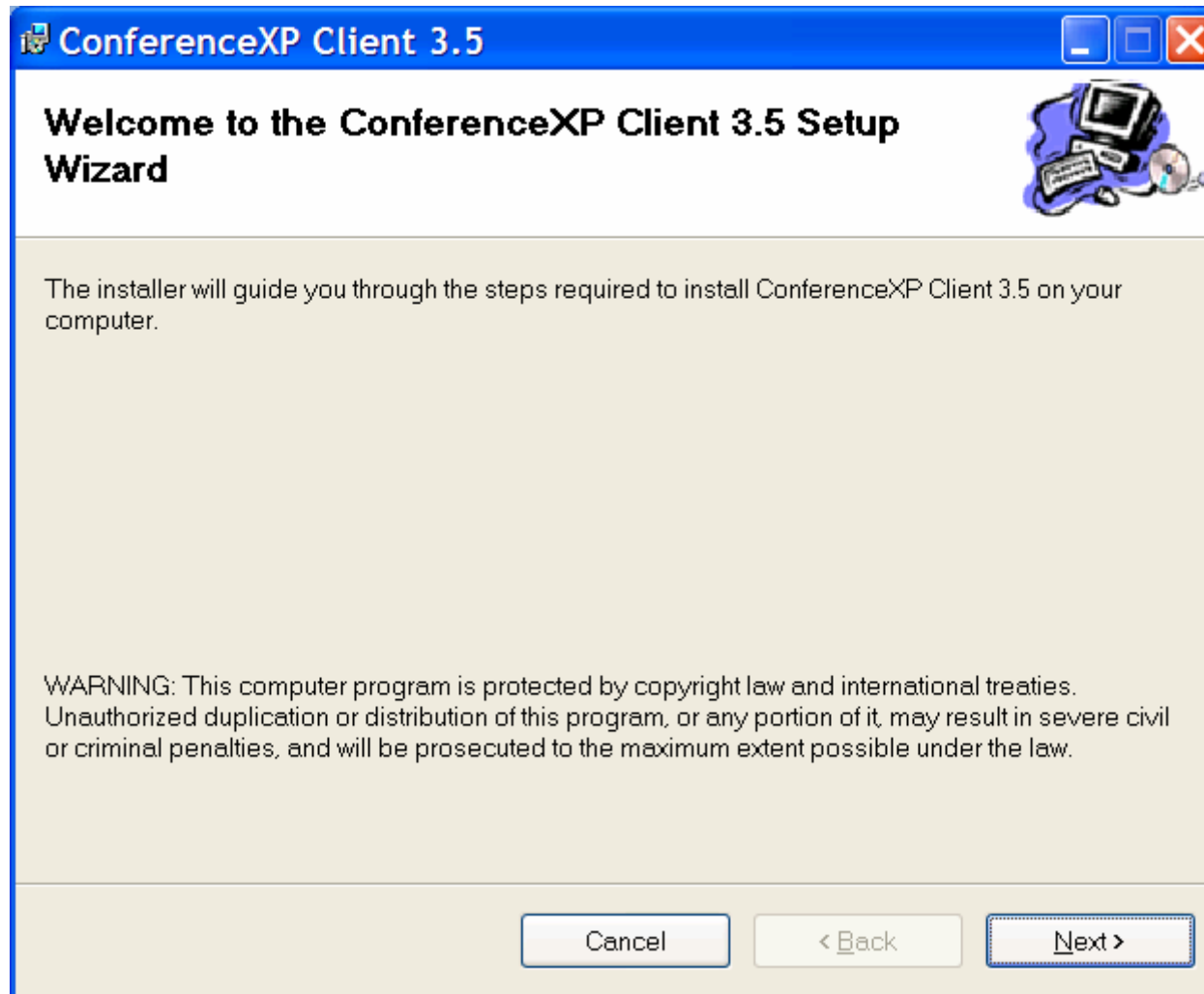
ConferenceXP

The Teacher Experience Project

TeleEducation/TeleCollaboration and Streaming Multimedia

Wireless ConferenceXP with Intelligent Congestion and Rate Control

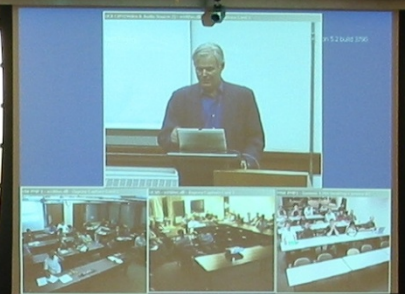
# Demo - Installation





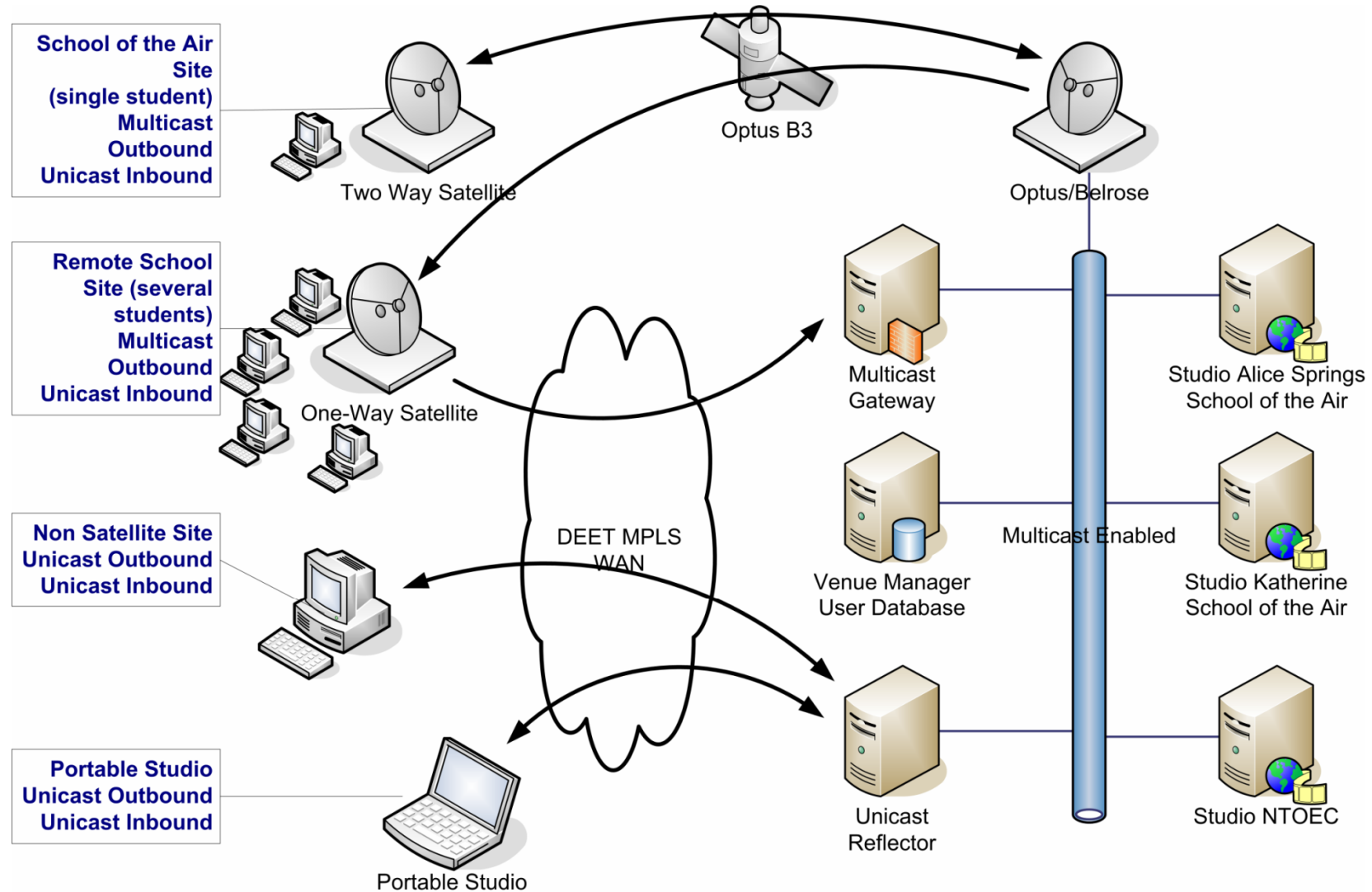
## Outline

- ◆ My Background—A Context for my Comments
- ◆ "Berkeley's" Credentials
  - ◇ People → Impact → Reputation → Brand Value → People
- ◆ Why is this Topic Increasingly Important Today?
  - ◇ The Evolving (Critical?) Role of the Modern Research University
- ◆ Diffusing Knowledge & Understanding
  - ◇ An Example: Electronic Design Automation (EDA)
  - ◇ Transfer what?
- ◆ Facilitating Invention & Diffusion
  - ◇ The Moon Shot Principle—Use-inspired basic research
  - ◇ The Priests versus the Shamans
- ◆ Impeding Collaboration & Diffusion
  - ◇ Example: Faculty consulting in the UC system today



# Australian School of the Air

Australian Northern Territories Education Department





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## NEW PROGRAMS ::



### 3D Reconstruction

[University of Kentucky](#)

Discover a new way to view exciting 3D displays. Ruigang Yang, computer science professor at the University of Kentucky, uses an array of cameras and technology to capture and transmit objects in 3D.

## NEWS & EVENTS

[SC06](#)

November 11 —17, 2006

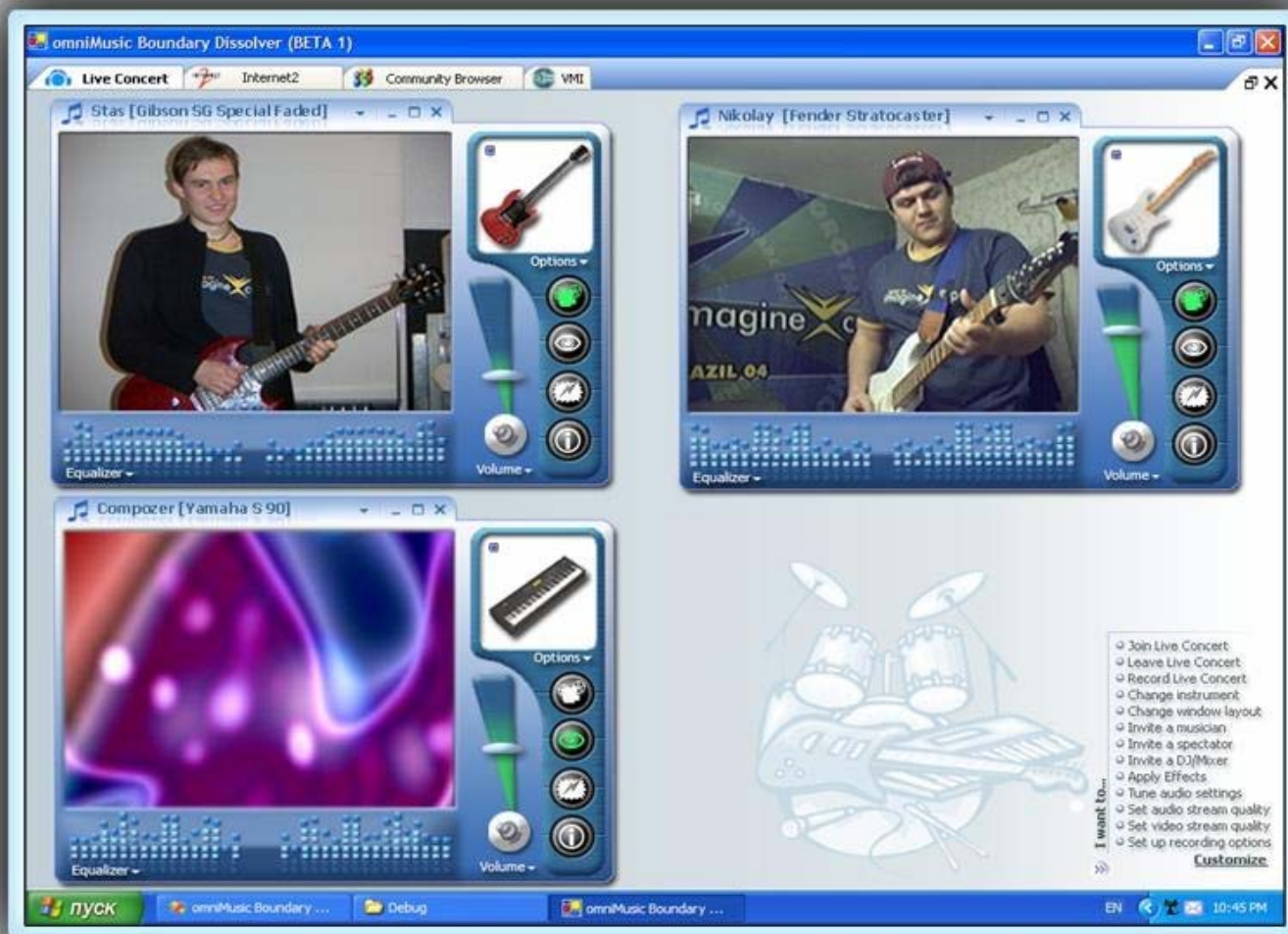
[EDUCAUSE Partners with ResearchChannel for College Student Video Contest](#)

Aug. 15, 2006 — [ResearchChannel Programming Available on Charter VOD](#)

[More News and Events](#)

# Live, Distributed Musical Performance

Moscow Institute of Physics and Technology; Moscow State University

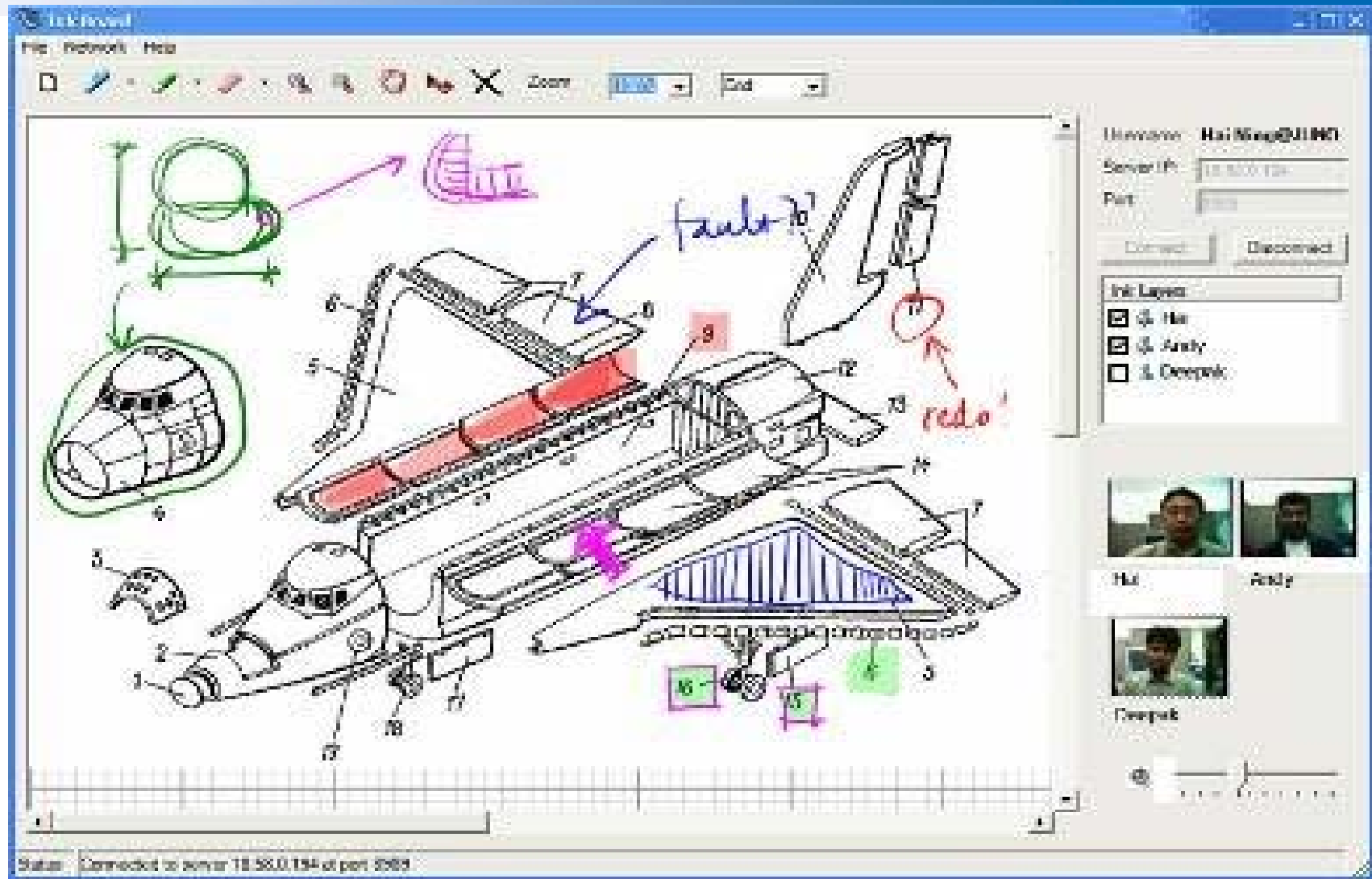


omniMusic Application

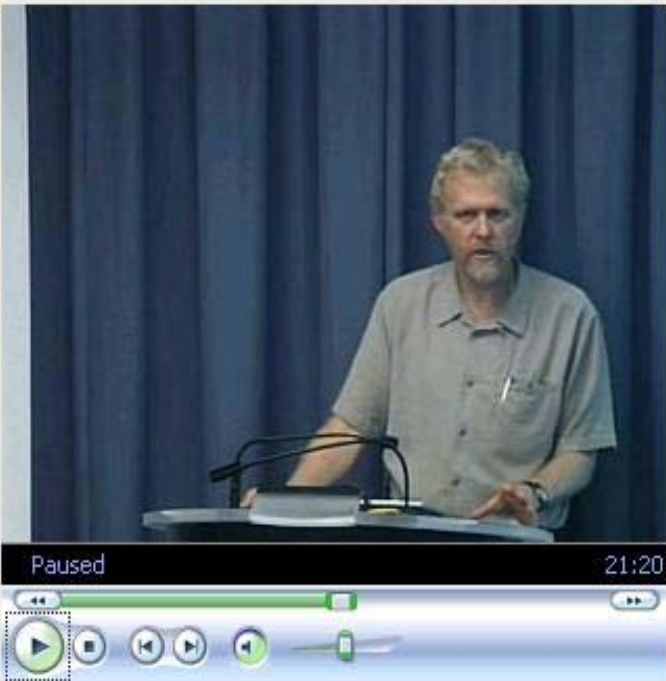


# Engineering Design Sketching

Massachusetts Institute of Technology



InkBoard Application



Play

Table of Contents for Current Media

- 0:00:00.0 - 1. CSE 421 Algorithms
- 0:01:48.4 - 3. A closer look
- 0:04:35.9 - 4. Algorithm under specified
- 0:06:56.2 - 5. Proposal Algorithm finds the best possible solution
- 0:09:37.0 - 6. Proof
- 0:10:02.9 - 5. Proposal Algorithm finds the best possible solution
- 0:10:11.8 - 6. Proof
- 0:12:34.3 - 7. Best choices for one side are bad for the other
- 0:15:15.3 - 8. But there is a stable second choice
- 0:15:46.0 - 7. Best choices for one side are bad for the other
- 0:18:27.4 - 10. M-rank and W-rank of matching
- 0:20:17.1 - 7. Best choices for one side are bad for the other
- 0:21:34.1 - 11. Suppose there are n m's, and n w's
- 0:23:13.8 - 12. Random Preferences
- 0:25:09.3 - 13. Expected Ranks
- 0:30:06.3 - 14. Expected M rank

# Best choices for one side are bad for the other

- Design a configuration for problem of size 4:

- M proposal algorithm:
  - All m's get first choice, all w's get last choice
- W proposal algorithm:
  - All w's get first choice, all m's get last choice

size n

$$\frac{n^2}{2}$$

m <sub>1</sub> :	w <sub>1</sub>	w <sub>3</sub>	w <sub>4</sub>	w <sub>2</sub>
m <sub>2</sub> :	w <sub>2</sub>	w <sub>4</sub>	w <sub>3</sub>	w <sub>1</sub>
m <sub>3</sub> :	w <sub>3</sub>	w <sub>1</sub>	w <sub>2</sub>	w <sub>4</sub>
m <sub>4</sub> :	w <sub>4</sub>	w <sub>2</sub>	w <sub>1</sub>	w <sub>3</sub>
w <sub>1</sub> :	m <sub>2</sub>	m <sub>3</sub>	m <sub>4</sub>	m <sub>1</sub>
w <sub>2</sub> :	m <sub>1</sub>	m <sub>4</sub>	m <sub>3</sub>	m <sub>2</sub>
w <sub>3</sub> :	m <sub>4</sub>	m <sub>1</sub>	m <sub>2</sub>	m <sub>3</sub>
w <sub>4</sub> :	m <sub>3</sub>	m <sub>2</sub>	m <sub>1</sub>	m <sub>4</sub>





### ConferenceXP to Windows Media Gateway

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The Conferencing Experience Project is fully described here: <http://www.conferencexp.net/>

## Introduction

The ConferenceXP to Windows Media Gateway is an adjunct to the Microsoft Research Conferencing Experience Project.

ConferenceXP implements a live interactive distributed classroom. The ConferenceXP to Windows Media Gateway encodes a ConferenceXP event such that it can be distributed live to desktop, and/or archived for asynchronous use. A typical user of this type of delivery would be a student, who is not able to attend a live or remote classroom site but yet wants to view the live class. The student has available a PC with broadband network. The goal is to permit the student to watch a class in progress using standard tools such as IE and Windows Media Player. There should be no (or minimal) special software to install on the client. In addition to the program audio and video, PowerPoint, whiteboard, and other supporting materials may be delivered to the student's desktop. Due to the lack of interactivity, this would not be recommended to students as a primary means of taking a course, but would be available for occasional emergency use, for review, or for use by casual participants, such as course auditors.

The Windows Media Gateway implements a special type of ConferenceXP listening node. The operator configures the application to gather multicast RTP audio, video and presentation streams originating from the appropriate ConferenceXP venues and nodes. Streams are transcoded using the Windows Media Format SDK, and delivered to a Windows Media Server for distribution to clients.

## Current Status, Downloads and Revision History

(Most recent first)

- **[WMGateway 2.7.msi](#)** 4/3/2006. Supports the CXP 3.5 Screen Streaming capability. (Consider this to be Beta for now)
- **[WMGateway 2.6.0.msi](#)** 3/27/2006. Compatible with CXP 3.5 and Presenter 2.x.
- **[WMGateway 2.5.3.msi](#)** 1/5/2005. Compatible with CXP 3.0/3.2 and Presenter 1.0.08 (or later). This version will work with CXP 3.5

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**commons.internet2.edu**

Megaconference VIII is taking place today! [Watch the live netcast](#) from 8am to 11pm EST (GMT-5). Join hundreds of participants from universities, K-12 schools, and organizations around the world using advanced networks to discuss current projects and developments. This year's theme, *Breaking Down the Barriers: Global Connections*, focuses on improving understanding between individuals and cultures, using videoconferencing tools. Interactions will discuss and demonstrate how groups use videoconferencing in real-world applications, and actual end-users will be presenting; technical presentations will be limited. All presentations--including musical performances, cultural discussions, cooking demonstrations, and more--will be fully interactive, engaging multiple sites and the audience.

The Megaconferences and their spinoffs were among the recipients of the first-

The Internet2 Commons **Remote Collaboration Services** provide a large-scale deployment of tools for one-to-one, one-to-group, and group-to-group collaborations enabling the Internet2 research and education community to hold distributed working groups, classes, meetings, and events.

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# CXP-Powered I-MINDS

HOME	CURRENT STATUS	CXP+I-MINDS CAPABILITIES	TEAM
HISTORY	PUBLICATIONS	SOFTWARE DISTRIBUTION	CONTACT

Most computer-supported collaborative learning (CSCL) systems have in general three key weaknesses. First, the collaboration among students are not monitored, measured and analyzed automatically. Vital information on an individual student's collaborative performance and behavior is lost. Further, even when the students' collaborative activities are tracked, real-time analyses are not available automatically to support students or teachers. Second, the collaboration is free-formed and thus not structured. Often times, teachers design various cooperative learning activities using different models to structure how students should collaborate and to target different collaborative strategies to measure. Third, the collaboration among students is not *actively* supported: the CSCL system does not alert the instructor about a student of his or her lack of participation, does not encourage a student to increase his or her participation, and so on.

I-MINDS is a software solution to intelligent management of virtual classrooms or groups, to support real-time and offline activities by *facilitating group work, seamlessly tailoring to individual user needs and backgrounds, and assisting group moderation and management*. Its technology is built upon intelligent software agents that interact on behalf of the users autonomously. In addition to collecting data and information on the users' activities and preferences, the agents also make decisions such as evaluating and ranking questions, supporting group discussions, match-making compatible group members, and learning useful heuristics to better support the users.

Specific applications of our technology include distance education support systems, active learning support systems, and corporate training support systems. By synchronous learning, I-MINDS is to provide intelligent support for a teacher in managing a classroom at real-time (including audio/video, real-time Q&A, real-time student profiling and ranking), and for a student to participate in group activities real-time (regardless of where the student is, remote or in-class). By asynchronous learning, I-MINDS is to provide automated digital archival, Q&A, and student support groups outside the classrooms. But now, after our discussions in terms of marketability, we are looking at probably "focus group support systems" as outlined above.

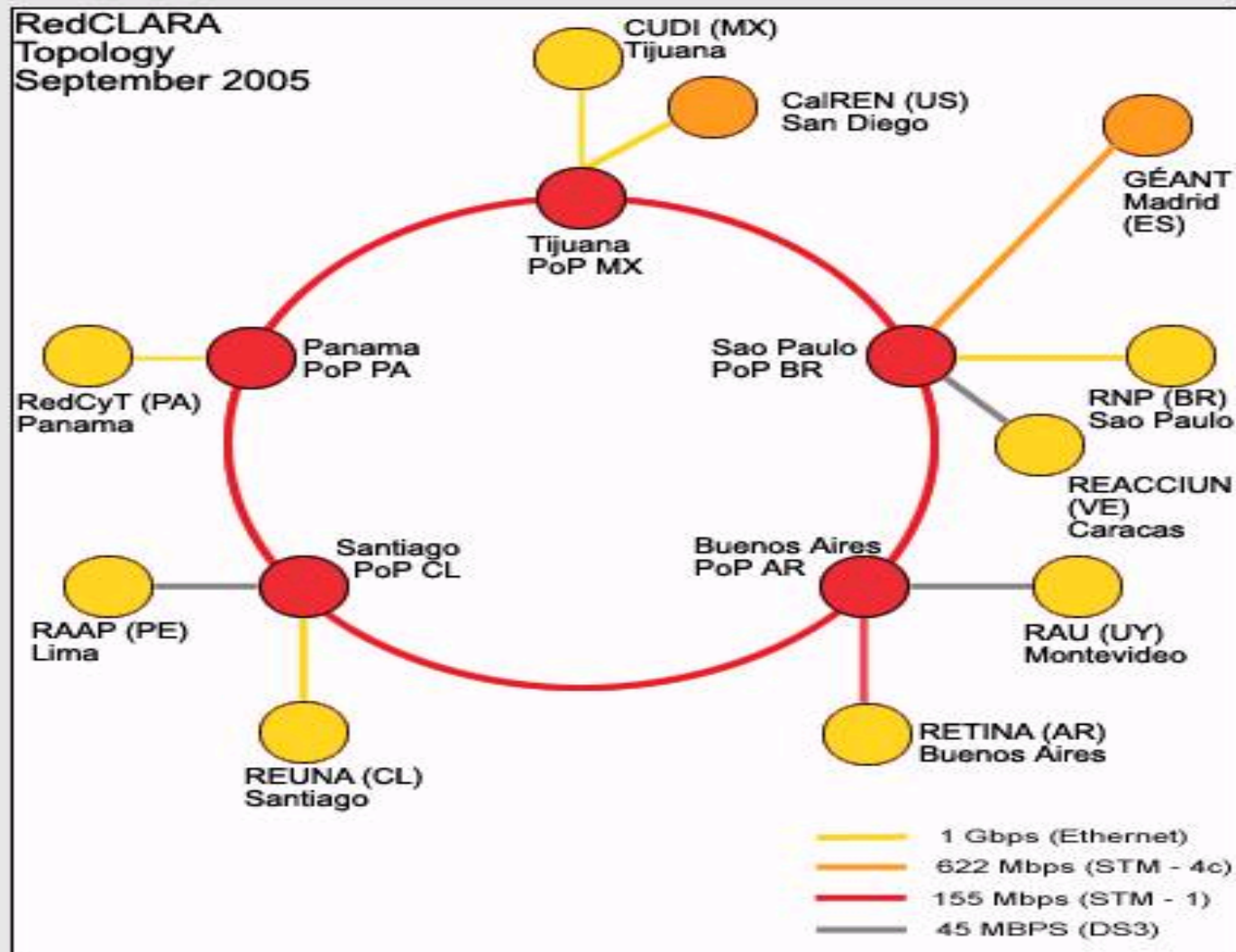
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## Use Situations for CXP-Powered I-MINDS

The CXP-Powered I-MINDS system can be used as an off-the-shelf capability in a CXP venue as well as a research tool. Its design is flexible such that users can add to the design to collect additional data or information, or create additional GUI components, or to customize features to more appropriately suit the needs of the users.

# LatAm Virtual Institute

Backbone of RedCLARA and current LA-NRENs connected





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Welcome, today is 02 Nov 2006 4:04 PM UTC

Unanswered



Forums	Last Post	Threads	Posts
<p> <a href="#">Conference XP Project</a></p>			
<p> <b>Conference XP Client</b> Post questions and find answers about ConferenceXP Client</p>	<p><b>Re: Windows Media codecs</b> by Jason Van Eaton 31 Oct 2006 3:14 PM UTC</p>	9	38
<p> <b>Venue Service</b> Post questions and find answers about the ConferenceXP Venue Service</p>	<p><b>Re: Please Adam. Need...</b> by Adam Eck 13 Sep 2006 5:40 PM UTC</p>	2	22
<p> <b>Archive Service</b> Post questions and find answers about the ConferenceXP Archive Service</p>	<p><b>Re: PowerPoint Present...</b> by Jason Van Eaton 26 Oct 2006 2:17 PM UTC</p>	3	6
<p> <b>Reflector Service</b> Post questions and find answers about the ConferenceXP Reflector Service</p>	<p><b>Re: Get CXP to work in...</b> by Frank Verduin 27 Oct 2006 1:51 PM UTC</p>	5	13
<p> <b>Conference XP Applications</b> Post questions and find answers about 3rd party ConferenceXP applications, utilities and projects</p>	-	-	-
<p> <b>Hardware</b> Discuss the hardware you're using with ConferenceXP (Cameras, Computers, Microphones, TVs, FireWire devices, Video capture)</p>	<p><b>Re: Camera crashing Co...</b> by Todd Needham 12 Sep 2006 8:20 PM UTC</p>	3	6
<p> <b>Networking</b> Post questions and find answers about networking, multicast, bandwidth issues and more</p>	<p><b>Re: Reliable multicast...</b> by Adam Eck 11 Oct 2006 4:03 AM UTC</p>	2	13
<p> <b>Developer Discussions</b> Discuss ConferenceXP source code, RTP, Conference API, and capabilities</p>	<p><b>Re: AudioCapability in...</b> by Jason Van Eaton <b>Yesterday, 5:20 PM UTC</b></p>	8	28
<p> <b>Conference XP Wishlist</b> What would you like to see in the next release of ConferenceXP? (The development team is listening...)</p>	<p><b>Re: Post 4.0 features ...</b> by Jason Van Eaton 03 Oct 2006 5:50 PM UTC</p>	1	6
<p> <b>General Discussion</b> Discuss topics that aren't covered by any of the other forums, share a tip you've discovered or get help troubleshooting a problem</p>	<p><b>Registration is now op...</b> by Todd Needham 28 Sep 2006 5:11 PM UTC</p>	2	5

Forum Statistics

37 threads and 138 posts have been posted.

Top 10 Answerers in past 30 days

- 1) Jason Van Eaton (1)
- 2) Adam Eck (1)



### New Projects

- [TigerDkp](#)
- [Social Tagging features for SharePoint](#)
- [MobileTalk](#)
- [NObjectDb](#)
- [Team System Source Control Client](#)

### Latest Releases

- [DataGrid Atlas Extender Control](#)  
0.9.5 ReleaseCandidate - 11/3/2006
- [Super Copy](#)  
0.4 ReleaseCandidate - 11/3/2006
- [MeiRou - A Flickr Photo Management Tool](#)  
0.2.1 SpecialBuild - 11/2/2006
- [Web Application Project Libraries](#)  
1.1 Production - 11/2/2006
- [SameDesk](#)  
SameDesk 0611020333  
NightlyBuild - 11/2/2006
- [Open SSH for Windows CE](#)  
0.0.1 Alpha - 11/2/2006
- [VSSConverter GUI](#)  
1.0 Production - 11/1/2006

### About CodePlex

CodePlex is Microsoft's community development web site. You can use CodePlex to create new projects to share with your fellow developers around the world, join others who have already started their projects, or use the applications on this site and provide feedback. [More...](#)

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## 3 - 4 Year Vision

1. ConferenceXP broadly used in academia for multi-institutional education, archiving.
2. Academic conferences and workshops routinely enable remote participation / attendance.
3. University classes and guest lectures are routinely recorded and broadcast via Windows Media *but remote participation is enabled via ConferenceXP.*
4. ConferenceXP localized in a dozen languages.
5. High Definition collaboration is the default in distance education and research.

# ConferenceXP FY07 Priorities

- Growing the Community
  - CodePlex, Microsoft Forums, Newsletter
  - ConferenceXP User and Developer Workshops
  - Internet2 Activities; Regional ‘Content’ Workshops
  - International Infrastructure
- RFP: “Center for Collaborative Technologies”
- Focused R&D Projects:
  - Real time High Definition encoding: U Washington
  - UW Medical School: WWAMI Classroom
  - UK eScience Grid conversion
  - Global ConferenceXP Infrastructure & Localization

# Questions?

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ConferenceXP community sites:

- <http://research.microsoft.com/conferencexp>
- <http://commons.internet2.edu>
- <http://forums.microsoft.com/msr>
- <http://www.codeplex.com/conferencexp>