

DAYALBAGH EDUCATIONAL INSTITUTE



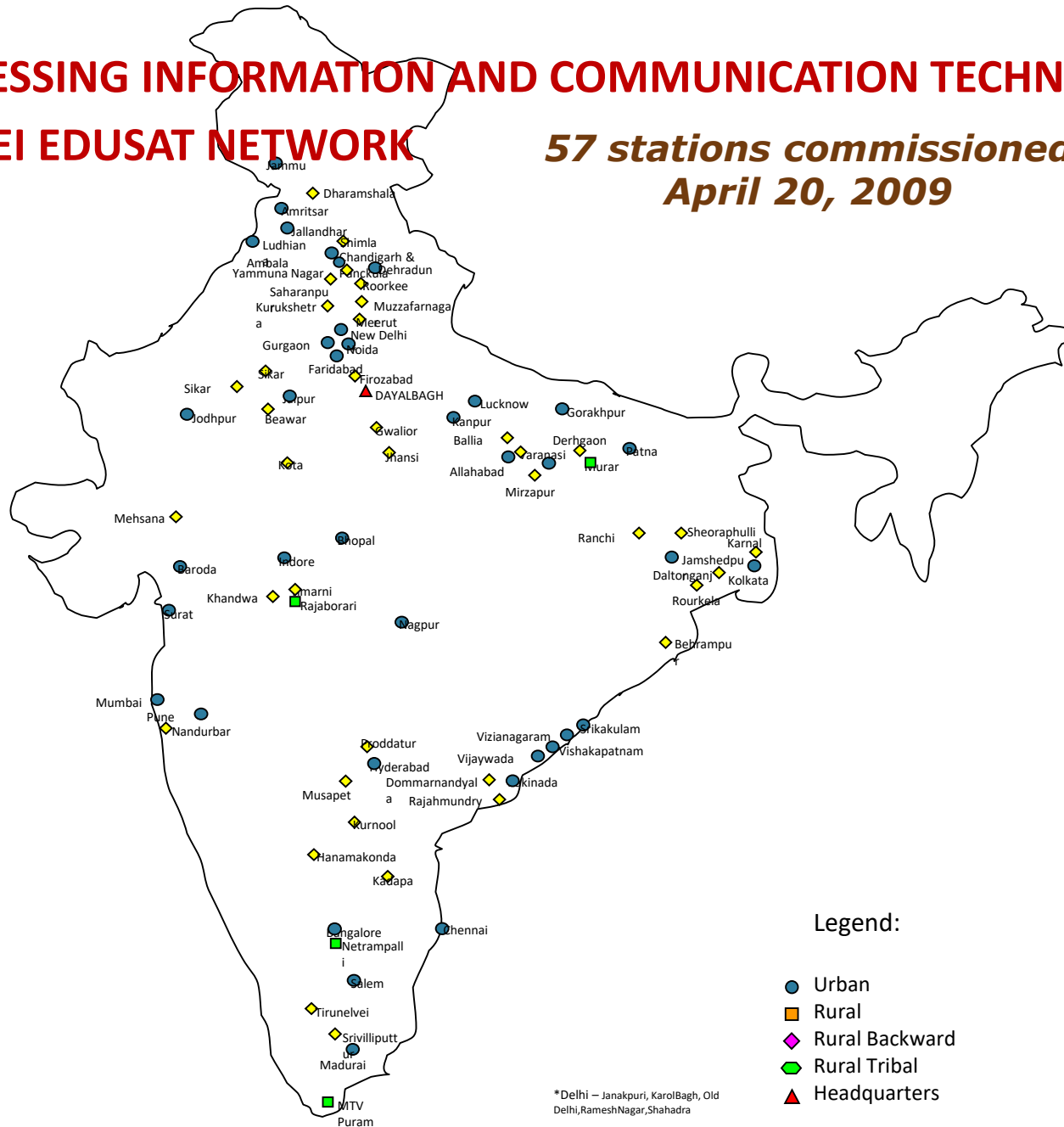
MULTIMEDIA LABORATORY INITIATIVES

UNIVERSITY LEVEL INFORMATION AND COMMUNICATION TECHNOLOGY SERVICES

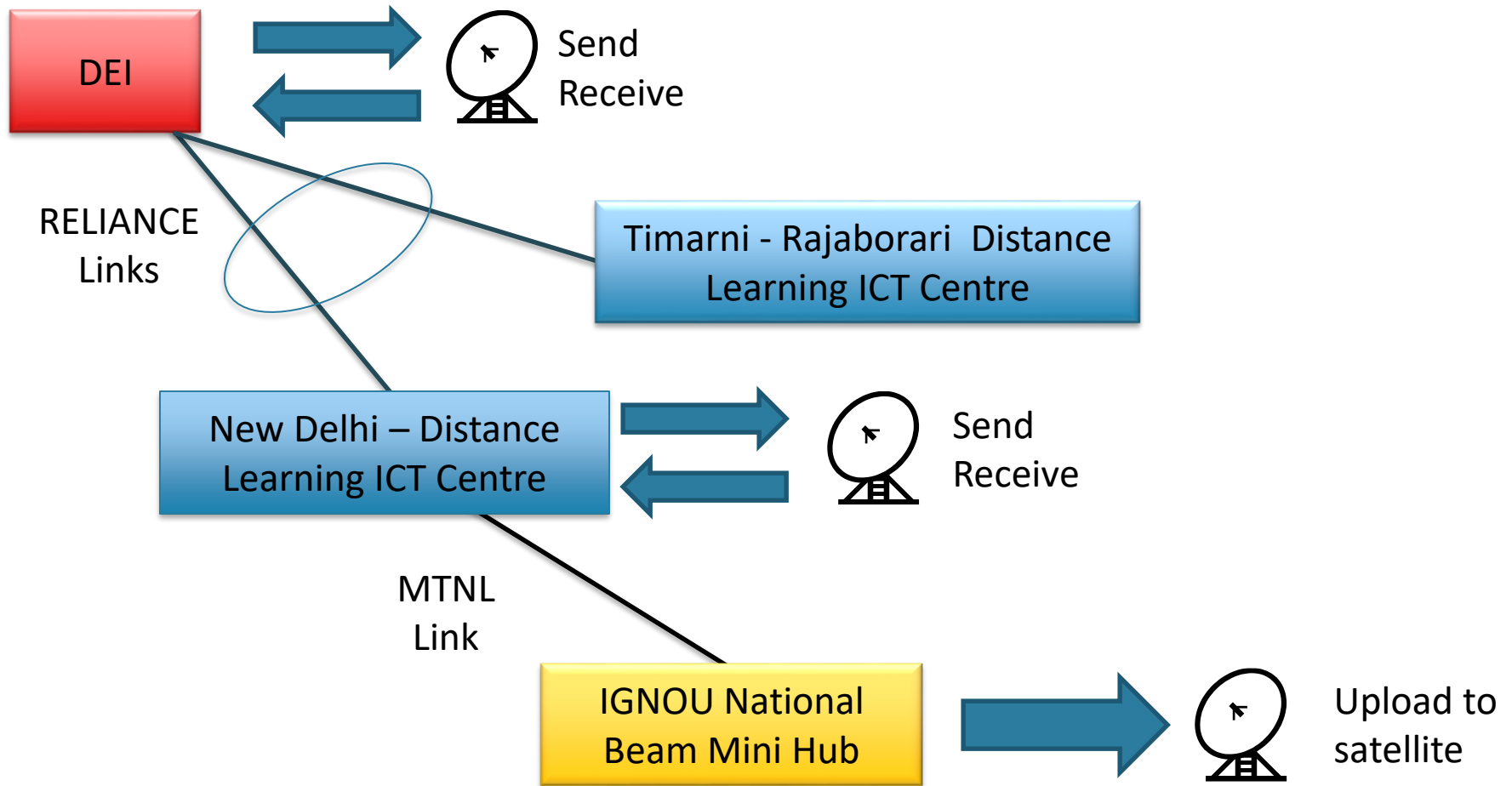
- Multimedia Laboratory
 - EDUSAT Teaching End
 - Video Conferencing
 - Video Streaming
 - Generation of e-content
 - Video Archiving facility
 - Web support services
 - Data Centre Facility
 - Technology tracking

HARNESSING INFORMATION AND COMMUNICATION TECHNOLOGY: THE DEI EDUSAT NETWORK

*57 stations commissioned
April 20, 2009*



HARNESSING INFORMATION AND COMMUNICATION TECHNOLOGY: BACKHAUL LINKS FOR EDUSAT AND VIDEO CONFERENCING CLASSES



DEMO

EDUSAT INTERACTION

HARNESSING INFORMATION AND COMMUNICATION TECHNOLOGY: CURRENT CAMPUS VIDEO CONFERENCING FACILITIES

MML VSX 8000 6-way conferencing



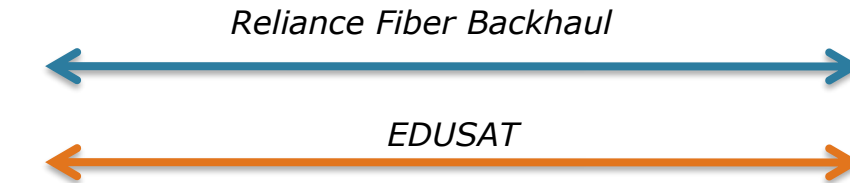
WPT E-Classroom VSX 7000
TC E-Classroom VSX 7000



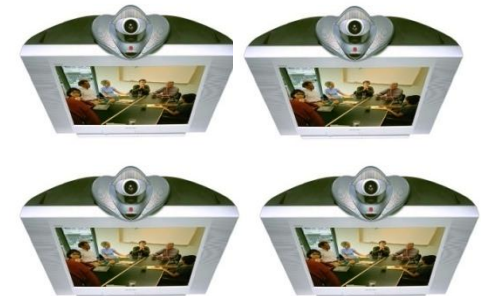
PCS E-Classroom 1 VSX 7000
PCS E-Classroom 2 VSX 7000



Engg. E-Classroom Ipela
DES E-Classroom Ipela



DEI ICT Centre Delhi VSX 7000



DEI ICT Centre Timarni-RB (MP) VSX 7000



DEI ICT Centre Bangalore VSX 7000 (July 2011)

DEI ICT Centre MTVP puram (TN) VSX 7000 (July 2012)

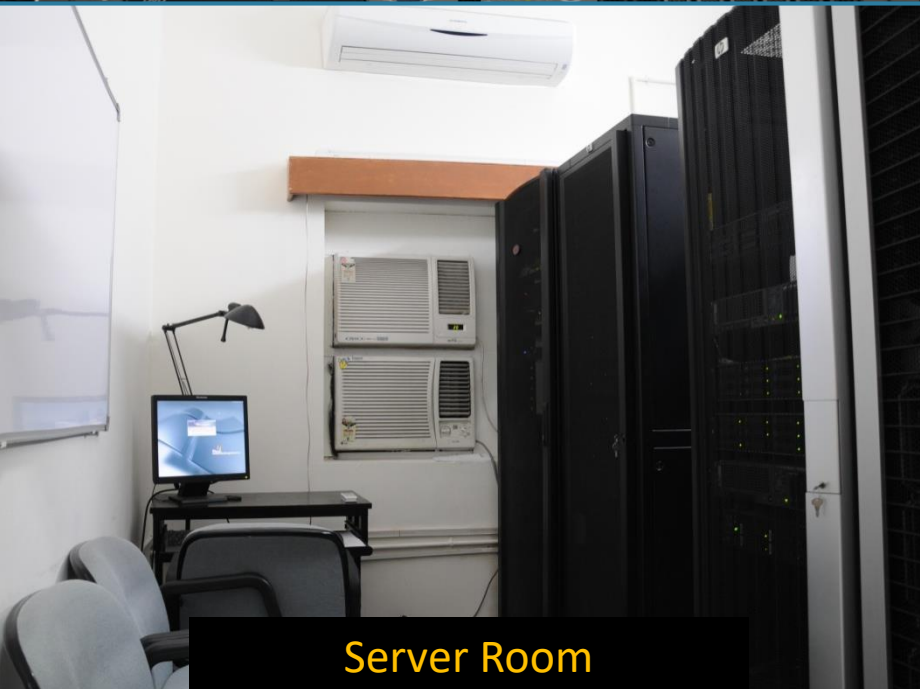
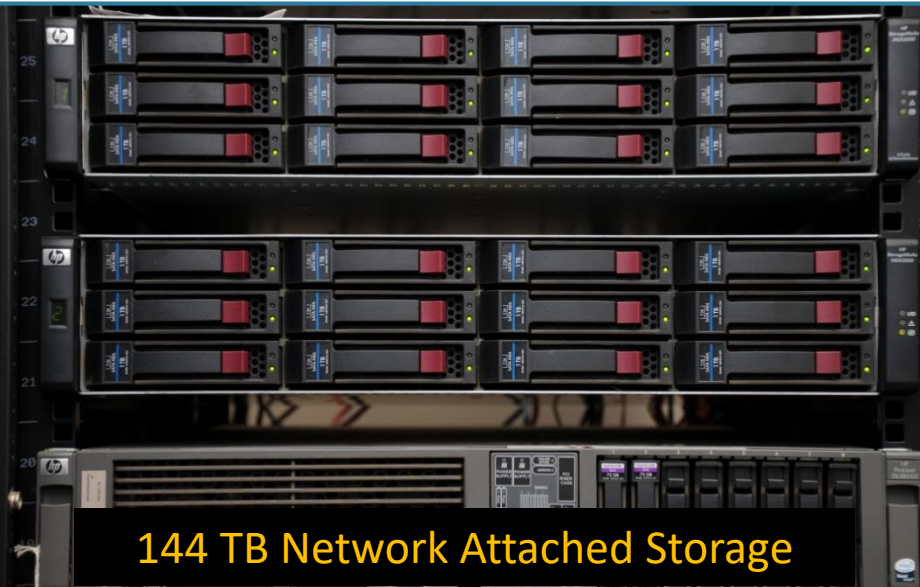


DES E-Classroom Inela
QC Lab VSX 7000



MGT E-Classroom VSX 7000
Com E-Classroom VSX 7000

Live Delivery Infrastructure



Capability and Infrastructure

- 1000 client live stream reception
- 100 client platform-free HD video conferencing with Polycom CMA Software
- 5 classroom simultaneous recording (expandable to 15)

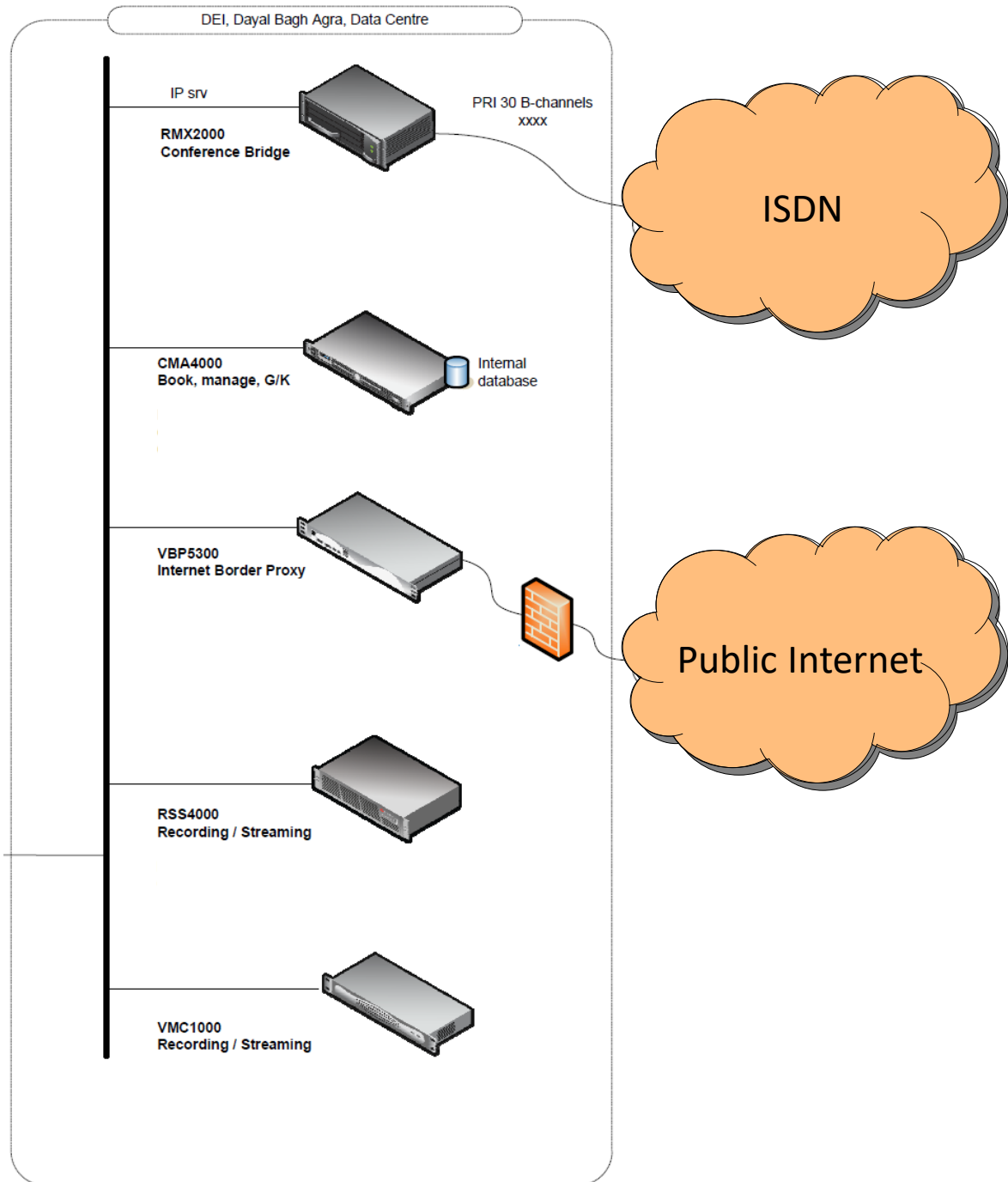
RMX2000
Conference Bridge

CMA4000
Book, Manage

VBP5300
Internet Border Proxy

RSS4000
Recording / Streaming

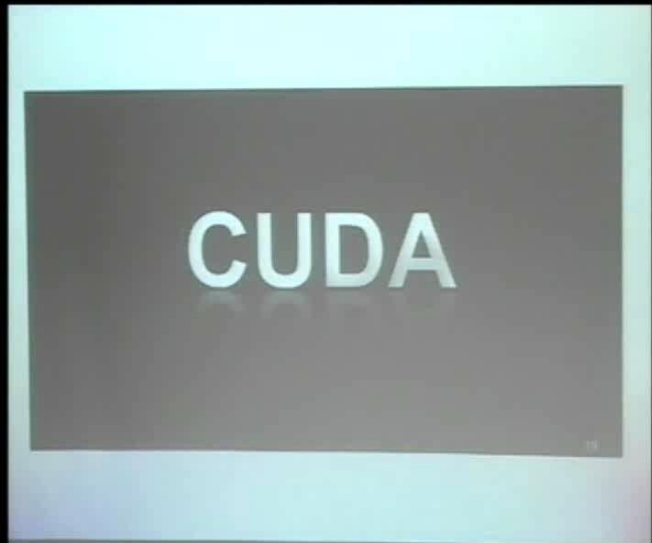
VMC1000
Recording / Streaming



DEMO

LIVE DEMONSTRATION: E-CLASSROOM

Live Interactive Sessions



VIDEOCONFERENCING SERVICES FOR MOU SUPPORTED PROGRAMMES

Joint Courses via LIVE Video Conferencing offered to IIT Delhi and DEI

- **Intelligent Information Processing**
- **Media Processing**

- ***M. Phil. Electronics/Computer Science***
- ***Graduate Computer Science***
- ***UG Engineering***



Prof. Huzur Saran, Dept. of Computer Science and Engg., IIT New Delhi

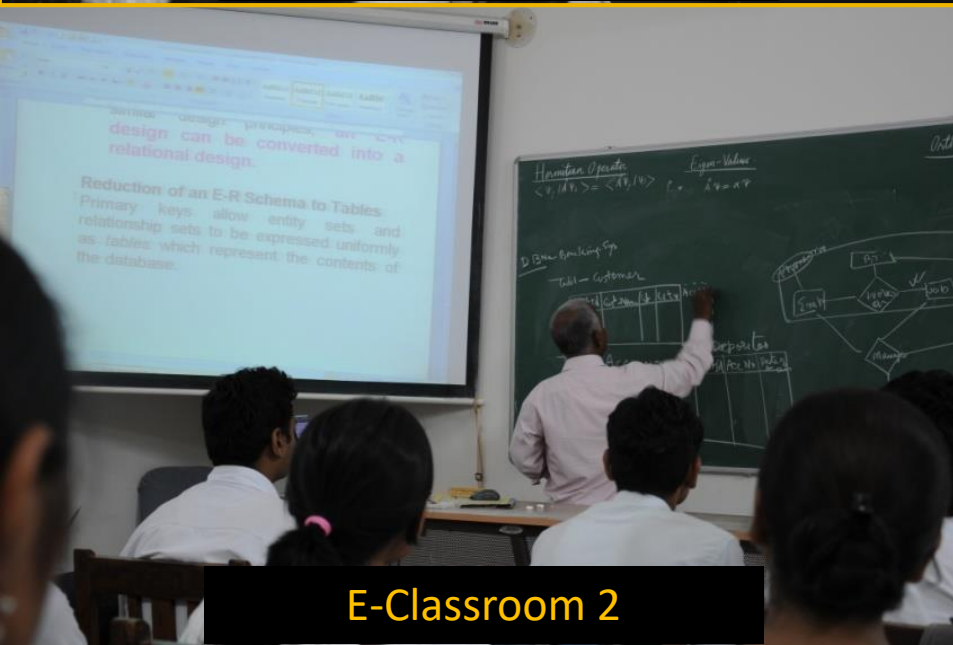
E-Classroom Infrastructure



E-Classroom - MML



E-classroom - 1



E-Classroom 2

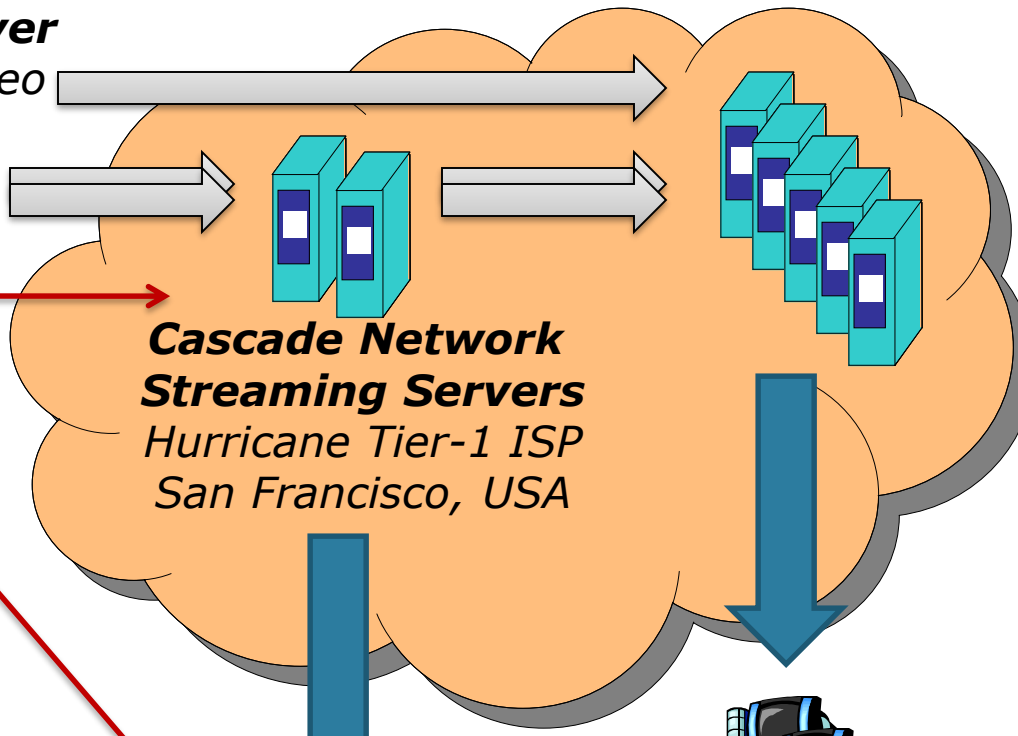
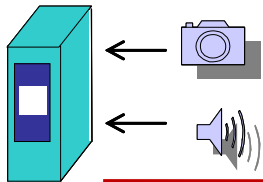


DEMO

E-CLASSROOM-1 PANORAMIC VIEW

Pioneering Research 2004-2007: Live Streaming Cascade Network

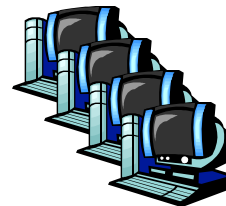
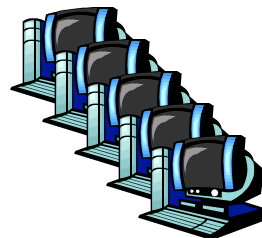
DEI Media Server
28-282 Kbps video



**Cascade Network
Streaming Servers**
Hurricane Tier-1 ISP
San Francisco, USA

SOS Servers:
New York (5)

Client
Authentication



DEMO

LIVE STREAMING VIA ANDROID EVO BOX (MINIMUM SETUP)

Additional Streaming Facility

- Lecture recordings of all major programmes placed on Web
- Real Media Streaming Server 12 (Helix) via San Francisco Server
- Video Lectures that can be streamed at any time
 - Support for Distance Learning Home Based Programmes
 - Lectures for review by local students



Search...



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Education through Technology

Course Portal

Access our course material including videos, question banks, assignments, seminar topics

Video-on-Demand

Search our video repository to quickly access content relevant to your interests

Live Webcast

Join one of our live class transmissions and take the course on the move

Read an e-Book

Read an e-Book of Course Notes on the subject of your interest

Welcome to *VidyaPrasar, Dayalbagh Educational Institute's* on-line collaborative learning, live web cast and content management system. In its present state of development, VidyaPrasar provides course web publishing, file storage and sharing facilities through a web based connection to the Internet thus providing you with full portability. VidyaPrasar will presently host course websites and material, and Wiki for courses in Computer Science and Engineering. As part of future development of the system, live streaming services, interactive seminars, e-Books, on-line self-examination facilities, and video-on-demand services, will go on the web by the second quarter of 2011. Sponsored by the National Mission on Education through Information and Communication Technology (NMEICT) under the project "Teachers Empowerment, Students Empowerment, Integration of Tools for Empowerment (Synchronous Delivery)". This project is part of a tri-institute collaborative initiative coordinated by the Indian Institute of Technology, Bombay, and with the Amrita University as the third partner.



Logout

- Home
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- Resources
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- Tests & Quizzes
- Gradebook
- Drop Box
- Discussion Room
- Presentation
- Site Info
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- Messages
- Help

Scientific Computing

Options

Scientific computing is the field of study concerned with constructing mathematical models and numerical solution techniques and using computers to analyse and solve scientific, social scientific and engineering problems. In practical use, it is typically the application of computer simulation and other forms of computation to problems in various scientific disciplines.

The field is distinct from computer science (the mathematical study of computation, computers and information processing). It is also different from theory and experiment which are the traditional forms of science and engineering. The scientific computing approach is to gain understanding, mainly through the analysis of mathematical models implemented on computers.

I welcome feedback from you which will help improve this web site and the distance learning experience. In a couple of days I will set up a forum where your comments can be posted on the web site.

Good luck!

Quick Downloads :

Recent Announcements

Options

There are currently no announcements at this location.

Discussion Room Messages

Options

Calendar

Options

January, 2009

< Today >

DATA CENTRE FACILITY

- Network Access Storage Devices (NAS) – 140TB
- Video Servers
- Course delivery (LMS) server
- Web Servers for Vidya Prasar
- Institute ERP server
- 24 blade Dell Cluster
- Polycom enterprise solution for multimedia content distribution, streaming and recording



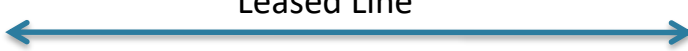
EDUSAT

Context Aware Eco-Forest-Village Community Network for e-Education and Telemedicine Applications

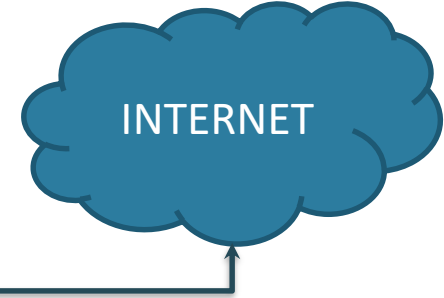
Rajaborari



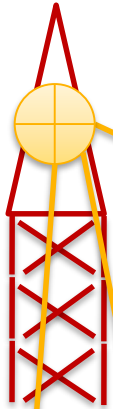
Leased Line



DEI

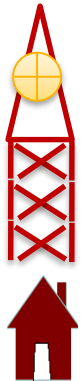


INTERNET



- *Setting up a disruption tolerant rural content distribution network*
- *Developing context sensitive e-Education and Telemedicine applications*
- *Setting up collaborative study group between students in different villages*
- *Integration of the content distribution network with NMEICT's Talk-to-a-Teacher Project*

Buddhahana



Ratamati



Mohagaon



Salai



Sahibnagar



Marapadol



Temrubahar



Mogradhana



THANK YOU !

