

# Status of Collaborative Tools at CERN

Shaping Collaboration  
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# "Under one roof"

- IT-UDS-AVC Section created early 2005
  - Videoconference activities
    - User support in the rooms (VRVS, H323)
    - Maintenance of the videoconference HW in the rooms
    - Advice on videoconference room equipment
  - Audiovisual service
    - Filming (and editing) of CERN and experiments
    - Maintenance and Support in CERN main auditoria
    - Committees recording
    - Audio and video archiving
  - Event management software
    - Indico (and CDS Agenda)
    - Mail and Web (Internet Services)
    - Audio conferencing (Telecoms)
  - Webcasting
- Remote Collaboration Task Force



# Service: H323 infrastructure

- Choice, deployment and operation of a videoconference MCU in collaboration with IN2P3, CNRS and INSERM
  - **Hermes Service** hosted by the ccIN2P3 in Lyon
    - <http://cern.ch/it-multimedia/HERMES.htm>
  - 40+12 ports (soon an additional 20 with INRA joining the collaboration)
  - VC recording (with INRA)
  - CERN user support done by AVC
  - Integration of the booking interface in Indico
    - Web booking interface on the IN2P3 servers
  - Integration with VRVS, CERN phone conf (ESnet)



# Service: VRVS Infrastructure

- Manage 4 VRVS reflectors
  - 2 for internal CERN
- Support, operation and integration with other systems provided by CERN/Caltech agreement
  - PJAS: World-wide VRVS system operation
- EVO migration


VRVS Meetings for HEP Collaborations up to Dec-2006			
Collab. (keyword)	2004	2005	2006
<b>CMS</b>	758	1676	1842
<b>ATLAS</b>	336	357	488
<b>LHC</b>	339	400	512
<b>GLAST</b>	216	364	357
<b>DO</b>	467	251	186
<b>ALICE</b>	46	129	180
<b>CLEO</b>	193	189	160
<b>LHCb</b>			105
<b>PHOBOS</b>	218	225	100

# Service: Audio Conferencing

- Alcatel PBX and **eDial** system (IT-CS)
  - Automatic audio conference system (24/7)
- Integration of the booking in Indico
- Integration with VC via SIP gateway
- Ad-hoc meetings



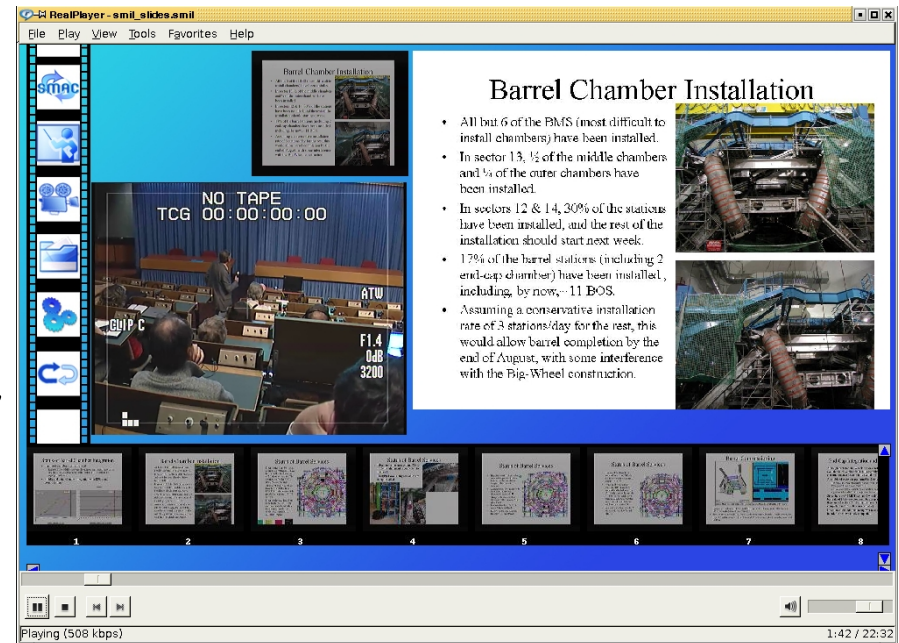
# Service: Event Management

- Indico deployed at CERN 2004 
  - CDS Agenda migration completed (almost)
- Integration of VC features **ongoing**
  - VRVS **done (released mid-Aug)**
  - HERMES and eDial booking **soon**
  - CRBS: Physical room booking **under develop**
- World-wide installations
  - FNAL, IN2P3, ILC
  - Collaborative developments
    - e.g. Time-zone awareness



# Service: Event Recording

- **SMAC (Smart Multimedia Archive for Conferences)**
  - Developed with the EIF (Ecole d'Ingénieurs de Fribourg)
  - Tests of the SMAC system at CERN for the automatic creation of web lectures
- **Deployment in Main Auditorium**
  - Study for the deployment in other conference rooms (IT Auditorium, Council Chamber, Training Auditorium)
- **Management interface to be embedded into Indico**
- **Collaboration with WLAP**



# Service: Webcast & more

- Webcast
  - Study of the replacement/improvement of the existing CERN webcasting infrastructure
    - Replace current HW with newer, redundant, more performant HW
    - Review the choice of download format
- Room Management
  - Standard PC environment: CMF
  - Remote monitoring under investigation
    - VC endpoints, projection devices, ...





# Select/Recommend: VC rooms

- Goal: to refresh and standardise
  - Same equipment for audio and video confs
- Refining requirements
  - RCTF monthly meetings with experiments
- Supplier contacts
  - Tandberg, Polycom, Aethra
    - Balance budget and quality of service
  - Physical infrastructure (carpets, walls, lighting)
- Test and supervise installation
  - Pilot projects:
    - 40-4-C01 for ATLAS (since May)
    - 40-R-B10 for CMS
- Study the possibility of recording the VC sessions and play them back on demand



# Select/Recommend: DeskTop

- Desktop videoconference
  - Tests of webcams in view of standardization and distribution through the stores
    - Add these webcams to the CERN stores catalogue and advertise
  - Tests of desktop videoconference applications (eg. Polycom PVX, Tandberg MOVI)
    - Possible discussion for group licences



# Auditoria

- Study the refurbishing of the CERN auditoria; main auditorium, council chamber, salle B and 6th floor
  - Proposal for funding submitted to the management



- Study the refurbishment of auditoria in basement of bd 40 with regards to videoconferencing



# Conferencing Resources

## ■ Personnel

### ■ Videoconference service:

- Operator/technicians: 1 staff, 1 service contractor
- VRVS support and integration: 1 project associate
- VC equipment engineer: 1 consultant until Dec ★
- Documentation and training: 1 fellow

### ■ Retransmission and Webcast:

- TechEng: 1 staff

### ■ Indico and SMAC:

- Support & SW development: 1 fellow, 1 technical student ★

## ■ Materials

- Started with room owners (ATLAS and CMS)
- Need O(500kCHF) for the 11 B.40 rooms
  - (and matching increase in operator coverage)



# Links

- <http://cern.ch/it-multimedia/index.htm>
- <http://cern.ch/it-multimedia/MeetingRooms.htm>
- <http://cern.ch/it-multimedia/HERMES.htm>

