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UNIVERSITÉ PIERRE ET MARIE CURIE

Integrating a videoconference system in a university portal

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EUNIS 2010



Common Project EVO / UPMC

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UPMC



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Agenda

- Presentation of EVO
- Our goals:
 - A new tool: EVO-Learning
 - Integration in the portal
- EVO-Learning
- Integration
- Demonstration



The basis: EVO-International

A unique real time collaboration tool, stable and efficient, at worldwide scale.

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Why EVO ?

Three main components:

1. The network
2. The collaboration services
3. The client side



Why EVO ?

Most difficulties arise from:

1) The client:

- installation
- configuration problems
- use

2) Interruptions and/or traffic congestions in the network



Panda: the EVO server

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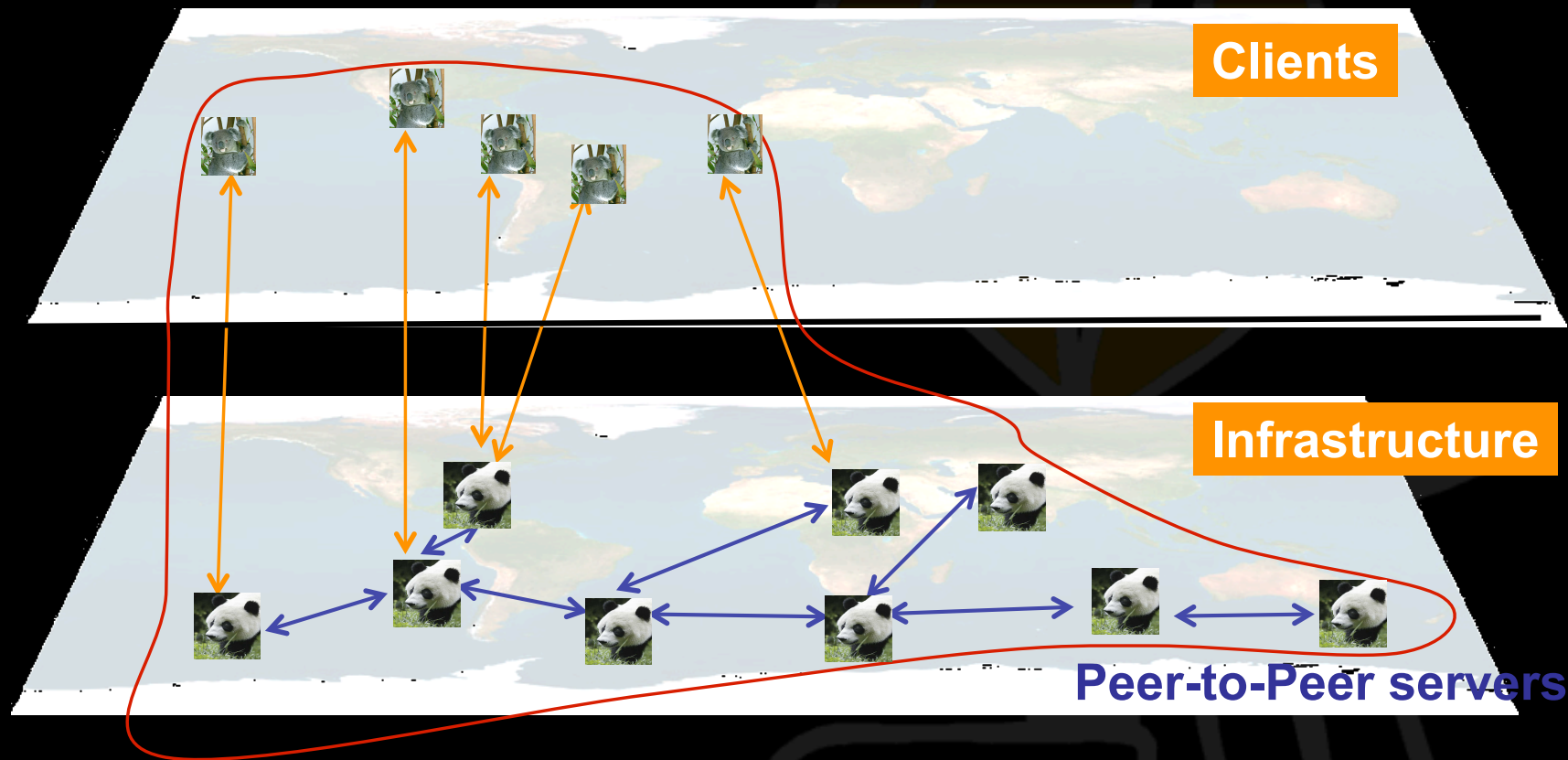


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EVO Architecture



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World topology!

View from MonALISA



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NO LIMIT!!

No limits in the number of participants in a meeting!
No limits in the number of simultaneous meetings!

Examples:

1250 users for the
« LHC Start » in
September 2008.

198 users
participating in the
« All CMS Meeting »
in February 2009.

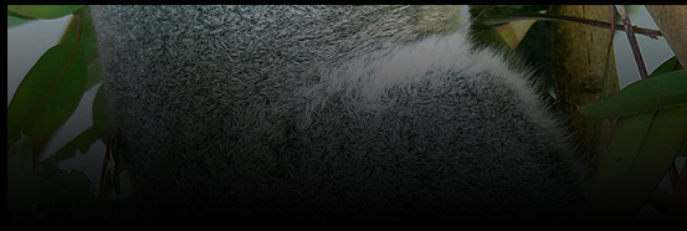


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EVO : Application Client

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KOALA

EVO.CALTECH.EDU



The client: the burden

- Full Java application
- Compatible with any platform (Windows, MacOS, Linux)
- No installation, no update



VIDEO...

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ViEVO

Multi-Video Client



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EVO.CALTECH.EDU



Comparison

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	H.323/ SIP	Tel.	File sharing	Chat	Record	Multipoint video	Webcast	Multi platform
Alcatel My Teamwork	✗	✓	✗	✓	✓	✗	✗	✗
Adobe Connect	✓	✓	✓	✓	✓	8	✗	✓
Vidyo	✓	✓	✗	✗	✗	✓	✓	✗
EVO	✓	✓	✓	✓	✓	✓	✓	✓
WebEx	✓	✓	✓	✓	✓	6	✓	✓
Skype	✗	✓	✗	✓	✗	3	✗	✓



Documentation

F.A.Q. : <http://evo.caltech.edu/evoGate/FAQ/>



Tutorials videos:

<http://evo.caltech.edu/evoGate/videosTutorials.jsp>

Documentation :

[http://evo.caltech.edu/evoGate/Documentation/
EVO Manual EN.pdf](http://evo.caltech.edu/evoGate/Documentation/EVO Manual EN.pdf)

Support : EVOSupport@VRVS.org



Goals: EVO-Learning

- System to provide a real time distance learning platform
- Real Time media : Text, Audio, Video, Desktop, Whiteboard, Files, Recordings.
- The system is based on the EVO technologies
- It is adapted to the constraints linked to learning scenarios : Professor / Students



Goals: integration

- Use the portal authentication system to identify the participant into EVO-Learning and EVO-International:
 - Automatic registration into EVO from the university directory
- Forward the user information from the portal to the EVO learning system:
 - Full ID and role
- Retrieve EVO information into the portal:
 - Class and meeting management



Integration

- Both Evo portlets are compatible with ESUP Portal which is a derived version of U-Portal.
- Authentication via Portal in CAS.
A Shibboleth version will come soon
- User information retrieved via local LDAP



Advantages

- Avoid **management of the user** registration.
- Manage, Control **of the lawful users**
- No additional Authentication **required to join a virtual class.**
- **The web interface modules (portlets) will become open source soon**



Real Time Distance Learning

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 **EVO**
-Learning

-reaw!ud

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Specific EVO Features

New meeting type:

Class Room



2 specific user types:

Professor and student

For each user type:

- Different Abilities
- Different Graphical User Interfaces



Professor (1)

from the Portal



- Create a class room reservation and attach some students to it
- Modify, Duplicate, Cancel a class room
- Add a moderator to the class room
- Protect a class room via a password
- Join any ongoing class room



Professor (2)

in the class room (virtual)



- Send / receive: audio / video
- Broadcast the desktop
- Send files to students
- Allow a student to speak via a dedicated “Raising Hand” widget
- Ban a student from the class room
- Increase the class room duration



Student (1)

from the Portal

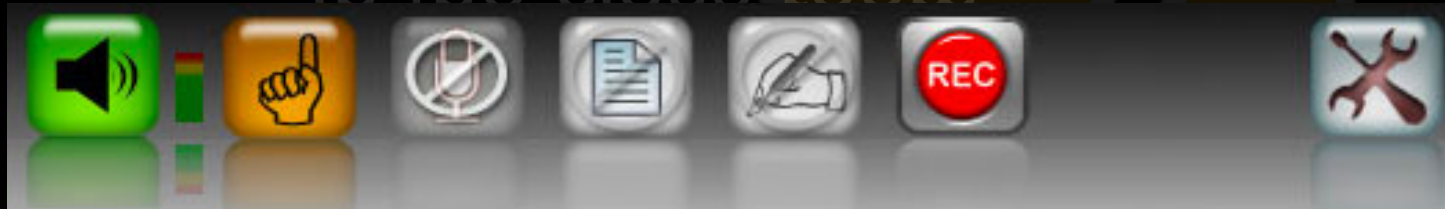


- Ongoing Class rooms (can be joined)
 - Public classes (with no list of attendees)
 - Classes in which he/she is attached to (previously by the professor)
- Calendar
 - List of all the class rooms that he/she will be able to join per month
 - Calendar view (cells) of the class per month



Student (2)

In the class room (virtual)



- Receive: audio / video
- Receive professor desktop
- Access to files
- Interactive Chat
- Can raise hand, when request is accepted:
 - Send audio, video, desktop to the class room
 - Send file to the professor



Digital Raising Hand

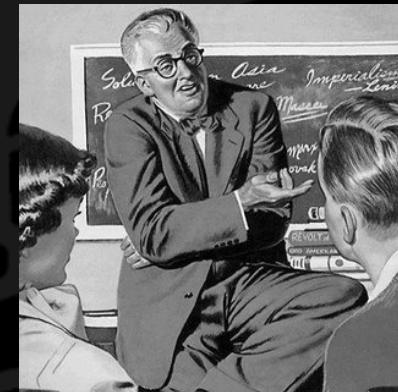
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Students

A simple interface to require to speak

A simple widget to moderate a class



Professor



Request to Speak

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Students



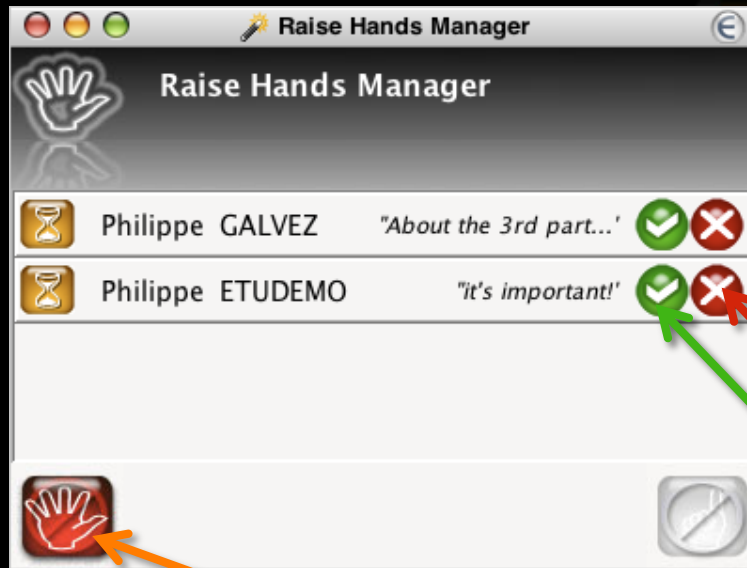
Widget for the Professor



The student can cancel his/her request at any time via a click on the same button



Allow / Deny Request

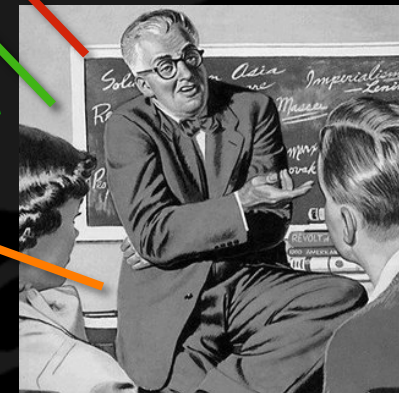


Block any Raising Hand

Refuse

Accept

A powerful widget to manage the requests



Professor



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The start



EVO-Learning

- Tests with students and teachers validated end of April 2010
- Starts next semester i.e. September 2010



EVO-Learning

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monUPMC Grégory DENIS Intranet Aide Plan Options Se déconnecter

Mes outils Mes actualités Mes documents Mes outils de communication Ma bibliothèque Mon profil EvoLearning Ma Visio

EvoLearning

Ce service a été mis en place avec l'aide de la ville de Paris dans le cadre de l'UNR Paris IdF

Classes en cours Calendrier Gérer mes classes virtuelles

Classes virtuelles du mois : mars 2010 << **avril 2010** >> mai 2010

Afficher sous forme de liste

	DIMANCHE	LUNDI	MARDI	MERCREDI	JEUDI	VENDREDI	SAMEDI
Semaine 13					1 = 11:00 Detection de type d'utilisateur = 11:03 Pour étudiants 2 = 11:07 Sans toi 2	2	3
Semaine 14	4	5	6 = 11:00 Greg la cloche de Paques! = 15:00 blabla = 15:00 Essai corrections horaires... = 16:00 test	7	8 = 16:00 prochain cours	9 = 10:00 classe publique du jour = 12:00 PIPO	10
Semaine 15	11	12 = 14:00 classe a venir = 15:00 Démonstration = 15:50 TipTop	13 = 10:00 Avec étudiant 3 = 17:00 classe journaliere	14 = 09:40 My first try = 10:16 Refused Moderation = 15:15 test mic	15 = 09:35 1 2 3 = 14:00 hebdo ven/sam (avec étudiant)	16 = 08:00 hebdo ven/sam	17 = 08:00 hebdo ven/sam

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EVO-International



- Opened since September 2009
- 470 users in the UPMC community
- Use for virtual meetings as well as link to “real” videoconference rooms
- Part of the UPMC strategy: increase in the number of rooms as well as in the use of EVO






EVO International

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































EvoPortlet

Réservations en cours Gérer mes réservations

En ce moment :

Intitulé	Type	Accès	Communauté	Descriptif	Date de fin	Joindre
 Présentation Plénière			UPMC	pour prototype Evo-Learning		
 UPMC TV			UPMC	Télévision 24h/24h pour tester sa réception audio et vidéo		
 ES Group Meeting			Universe	E5 Group Meeting	lun. 31 mai 10 12:00	
 Einstein			Universe	EPPOG Masterclasses		
 EVO TV			Universe	Television 24/24 to test receiving audio and video		
 HadSpecTUM			Universe	Hadron Spectroscopy	lun. 31 mai 10 12:00	
 IFAE ATLAS MEETING			Universe	IFAE ATLAS MEETING	lun. 31 mai 10 13:00	
 jets			Universe	Discussion on jet studies	lun. 31 mai 10 12:00	
 LivreLHC			Universe	Livre LHC	lun. 31 mai 10 11:00	

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demo



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And now?



A European Infrastructure?

- EVO-Learning: one university, one server
- For European studies (Tempus...) build a European MonaLisa infrastructure
- Cooperation with National NREN and TERENA?



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*With a grant from the city of Paris to the universities Paris 2 and UPMC-Paris 6
through UNR Paris IdF*



EVO-Learning

- Start: September 2010
 - Software + initial installation 15 000\$
 - Additional server (more than 100 simultaneous links) 10 000 \$
 - Portlet installation and fee 10 000 \$/y
 - + local Linux server

Contact: Philippe Galvez
galvez@caltech.edu



EVO-International

- A Panda server for each university unless agreement through NREN: in France infrastructure supported by RENATER
- Software installation 15 000 \$
- Additional server installation 10 000 \$
- Portlet and connectivity 10 000 \$/y

Contact: Philippe Galvez
galvez@caltech.edu