

The Virtual Unified Office VUO

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Agenda

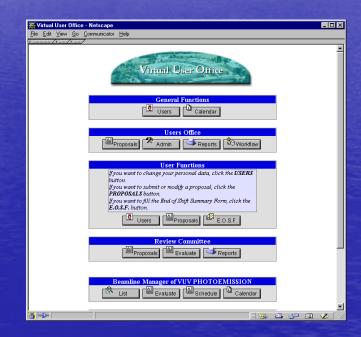
- History
- Technology
- Some applications
 - Proposal for applications beamtime
 - Access requests

– ...



History

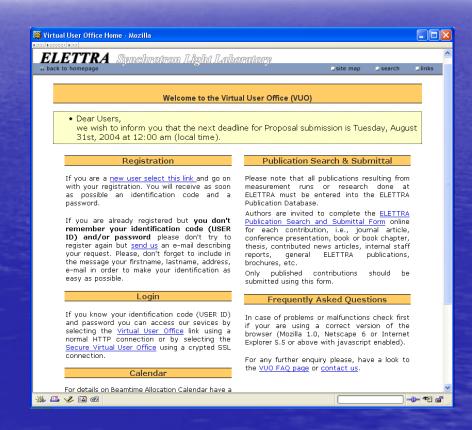
- First release: "Computerization of the Users' Office".
- The VUO is working since 1997 with all the history of beamtime applications.
- The initial platform was: Oracle8 on Window NT





The VUO platform technology

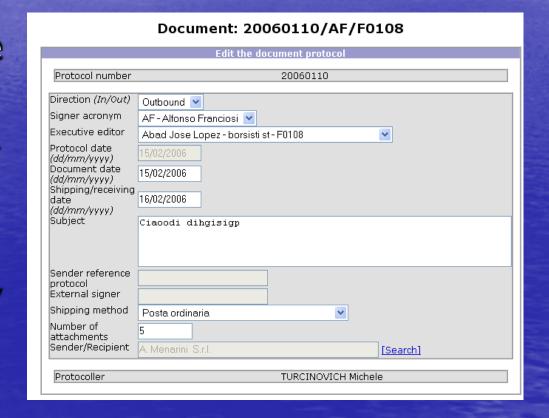
- Linux (Scientific Linux)
- Oracle 9i → 11g
- Apache + modplsql→mod_owa
- Pl/sql
- Python
- Java





The technology: iuulib

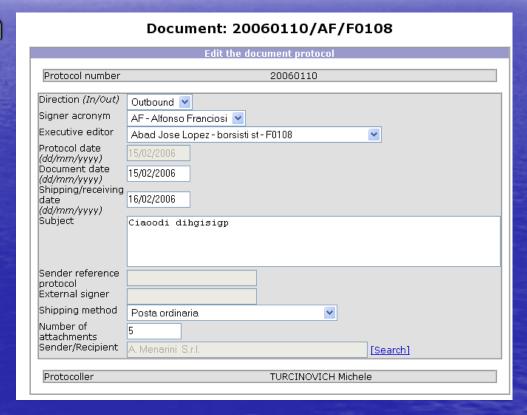
- Allow automatic composition of the html form starting from a simple SQL select.
- List of values,
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 defined in a
 separate support





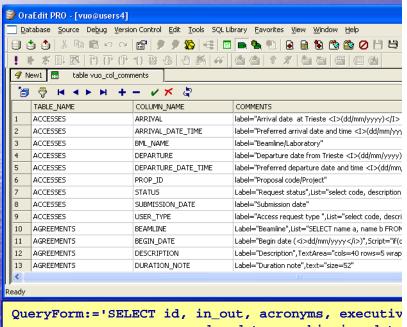
The iuulib

- First version was in Pl/sql
- Now we have the java version





The iuulib



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Beamtime applications proposals

- This is the main section of the VUO
- Each semester the proposal are collected via internet and then the Scientific Committee select the bests, that will be scheduled on Elettra beamlines.
- The VUO allow the management of all the phases: collecting data via web,
 the evaluation and the scheduling of the beamtime applications.
- Users roles:
 - The proposer, that submits the proposals
 - The participant, that need to came to Elettra
 - The technical reviewer
 - The scientific committee
 - The users' office.





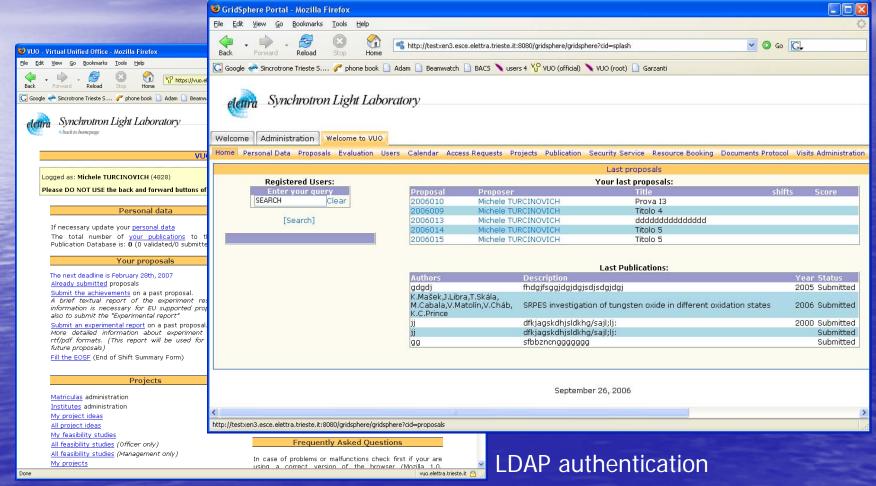
Proposals: workflow

- The proposal workflow
 - submission
 - validation
 - Technical evaluation
 - Scientific evaluation
 - Scheduling
 - Closing (EOSF and experimental report)
- The workflow now is managed using a state machine





VUO initial page





- Beamtime application is based on a wizard metaphor
- The user is guided during the whole submission process
- Proposal description/experimental report documents can be submitted both in rtf and pdf format
- The system performs many consistency checks both on the proposal and in the attached documents (title, proposal id, proponent, protection, number of pages, size, ...)





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Safety form submission

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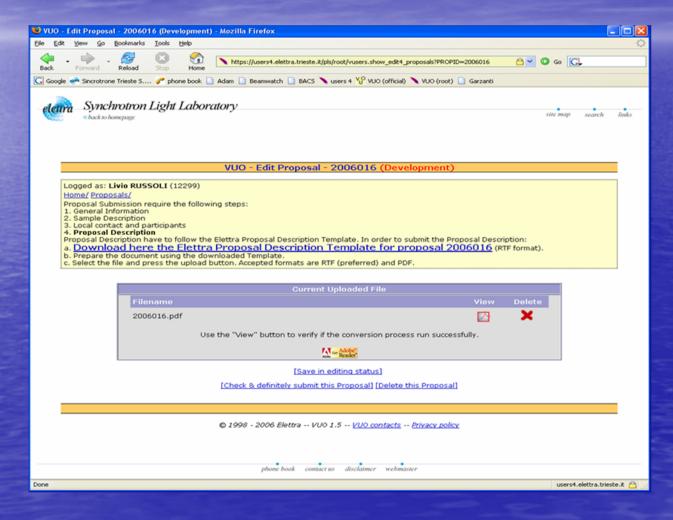


Participant and local contact

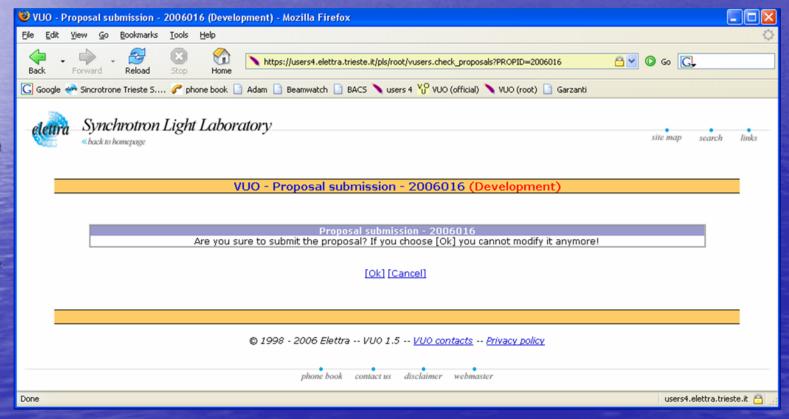
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Jpload description file







Finally saving



Document transformation

- The system has a document transformation engine based on OpenOffice (the old version use Ted)
 - Allow trasformation from .rtf (possible also from other format like .doc, .odt) to PDF or to ASCII





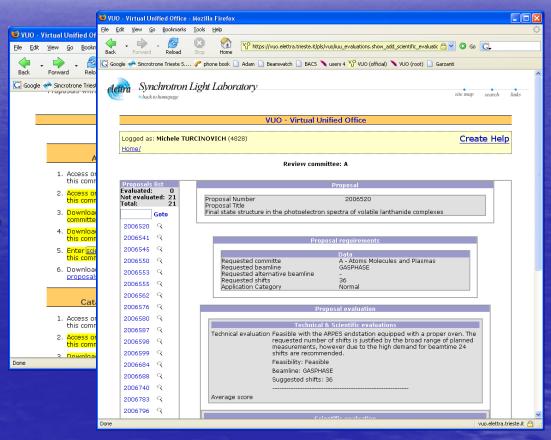


Export tables in csv format to allow the Users'
 Office autonomous handling of the data
 (statistics ...)



The Reviewer Perspective: usability

 We have studied the navigation (count the clicks) to accomplish the evaluation in order to make the process faster

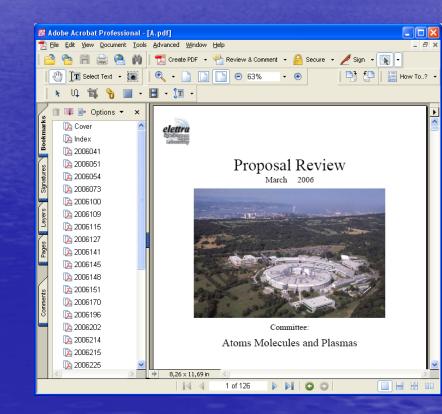




The Reviewer Perspective: the book of the proposals

PDFbook

- The reviewer need to work also off-line so need a single file with all the information necessary to evaluate the proposal
- A java application makes a book in PDF format for each scientific committee using all the description files and some data extracted from the database. All is completed adding cover and index.





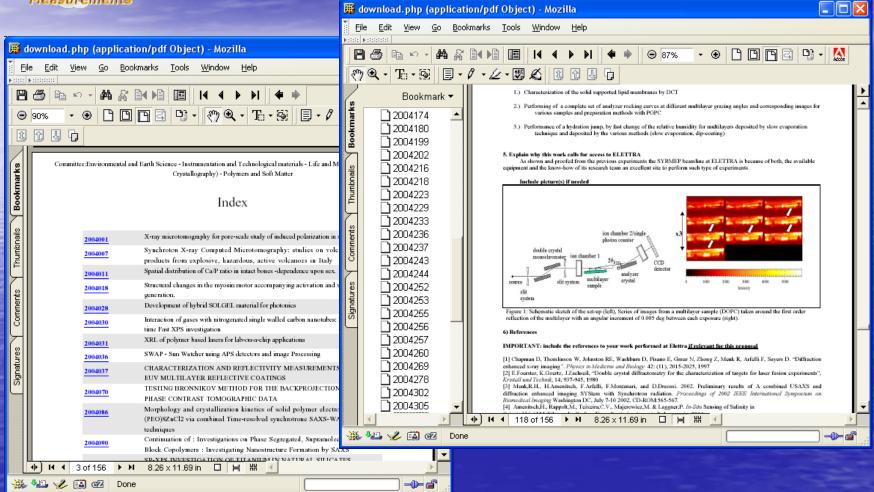
PDF books



- Using the java technology "iText" the books are created automatically:
 - From database we get the list of proposals for a specific committee
 - We create the cover
 - We make the index (taking into account the number of pages of each document)
 - We join all the documents scaling them to fit the page
 - We generate the new page numbers
 - We create the back cover
 - The book is then published and available for download

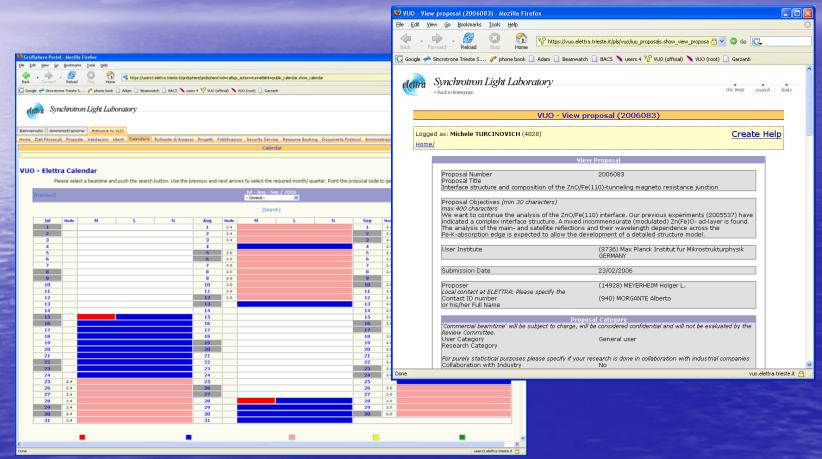


PDF book for reviewers





Schedule calendar





Access request

- The user submit its access request on-line, removing a lot of paper/faxes ...
- This allow to fill automatically the database for the EU funded access under the IA-SFS FP6 project.

	SINCROTRONE TRIESTE S.C.P.A. Users' & European Relations Service S. S. 14, Km. 163.5 in AREA Science Park 1-34012 Basovizza TS E-mail: useroffice/feeltert artisets it Fax: +39.040.375.8565
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Access request workflow

- The user submit an access request.
- The system sends an e-mail to the "User office"
- The UO checks the request
- The system sends back an email to the user to confirm that the request is accepted.
- A PDF form is created for printing for the administration office



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Other application: visits@ELETTRA

- The VUO portal is also used for other applications not strictly related to the beamline users.
- One of this application is the visit@ELETTRA that allow the public to request a visit to our campus



- The OpenVUO permission is based on the concept of role.
- All the people that have a role can do specific action.
- For instance for this application it is defined the "Visits manager" role that can view, modify, ... all the visit information.
- The "Visits manager" also can extract data using the csv format to make statistics.



visit@ELETTRA workflow

- The user submit a request
- The system send an e-mail to all "Visit managers".
- One "Visit manager" handles the requests, choose a guide and approve the visit
- The system notify via e-mail to the visit responsible and to the guide(s)









Other sections...

- Publications
- Security hutch access: Keysafe
- Industrial proposals administration
- Customer relationship management (EOSF, FAQ, ...)
- Phonebook

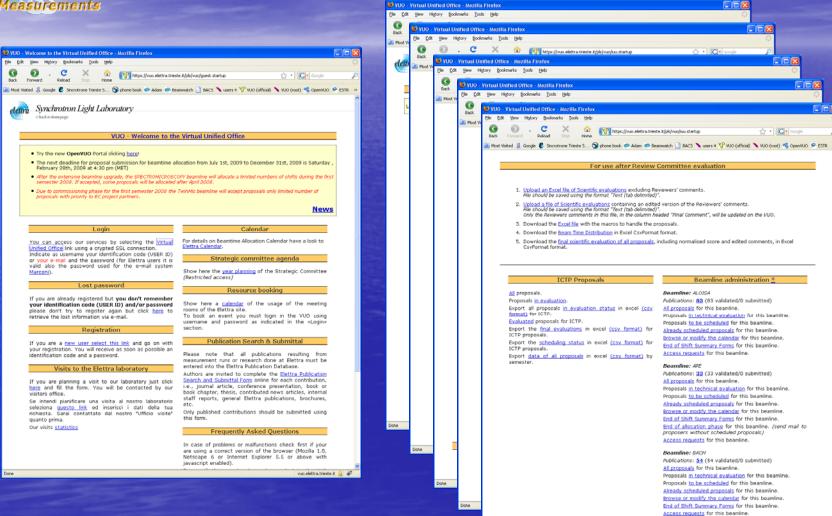


Even other sections...

- Project management
 - Project idea
 - Feasibility Studies
 - Running Project → EU reporting
- Resource management
 - Rooms
- Document protocols
- Integration with company ERP (Zucchetti)



tra Home and the big first page





Conclusion

- The VUO is a stable web application running since '97.
 - Was the first U.O. web application for a synchrotron facility.
- This platform it is used also for many other internet/intranet applications
- The Sincrotrone Trieste uses an ERP to solve all the standard administrative, financial and human resource issues.
- On top of this the VUO solves all the Elettra specific IT issues, all the scientific business management tasks and integrate with the eScience platform.
- The VUO is so complex and connected to Elettra "life" that it is no so simple for us to move to other systems.