The Open Virtual Unified Office OpenVUO

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Agenda

- The OpenVUO
  - Goal
  - Technology
  - Status
- The submission workflow
  - The remote submission

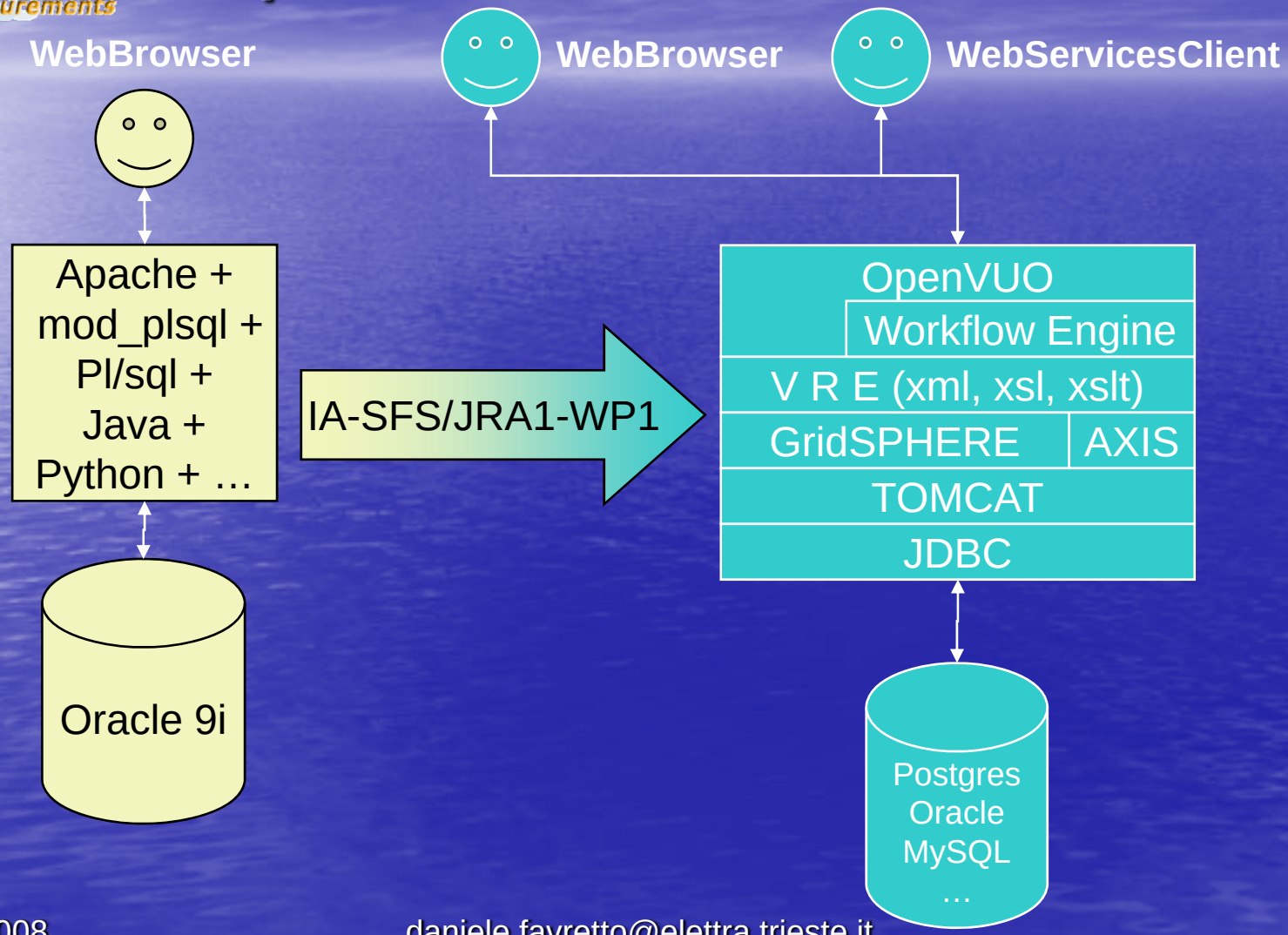
OpenVUO goals

- Move to open source technology
- Implement functionality of export/import of beamtime application
- Implement webservices to interchange data between the other similar applications
- The migration must be smoothly

The OpenVUO platform

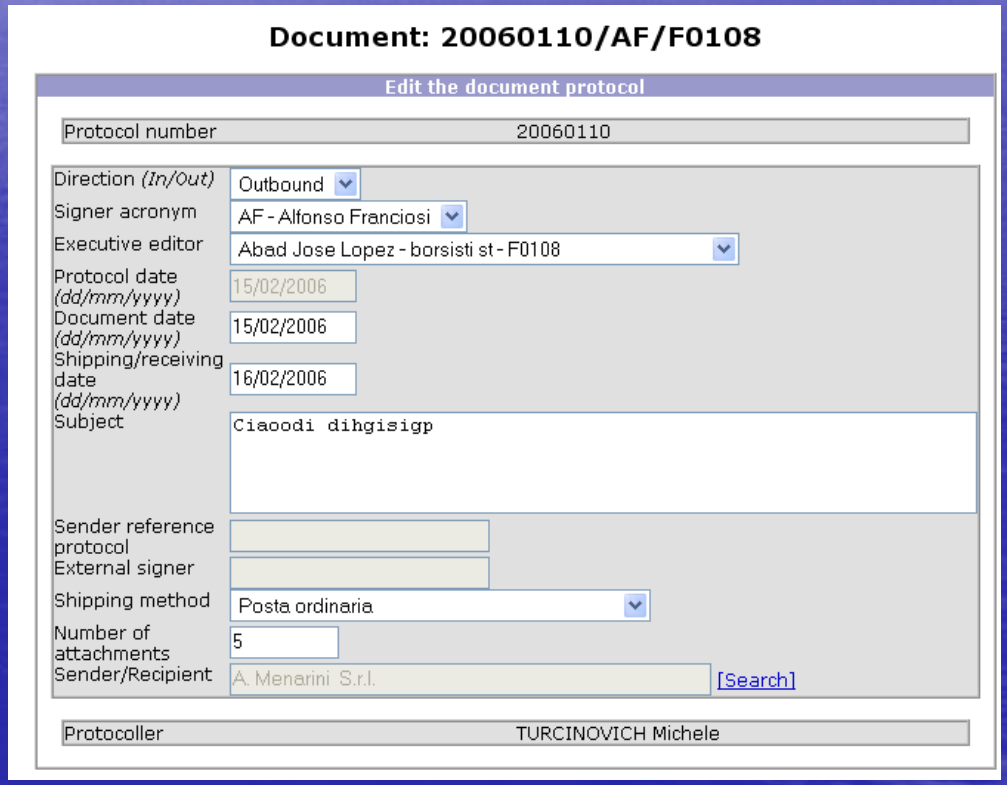
- Portlet container: gridsphere
- Behind: apache/tomcat
- Database: Oracle/PostgreSQL
- Language: java
- Rendering: XML/XSLT

OpenVUO Architecture



The iuulib

- First version was in Pl/sql
- Now we have the java version
  - The information can be stored in a table (compatible with pl/sql version)
  - The information can be stored in a XML file



OpenUserOffice a testbed for IA-SFS/JRA1-WP1

- The OpenUserOffice will become a proof of concept and a testbed for WP1
- Using webservices technology, facilities with an already working application need only to implement a set of webservices for compatibility

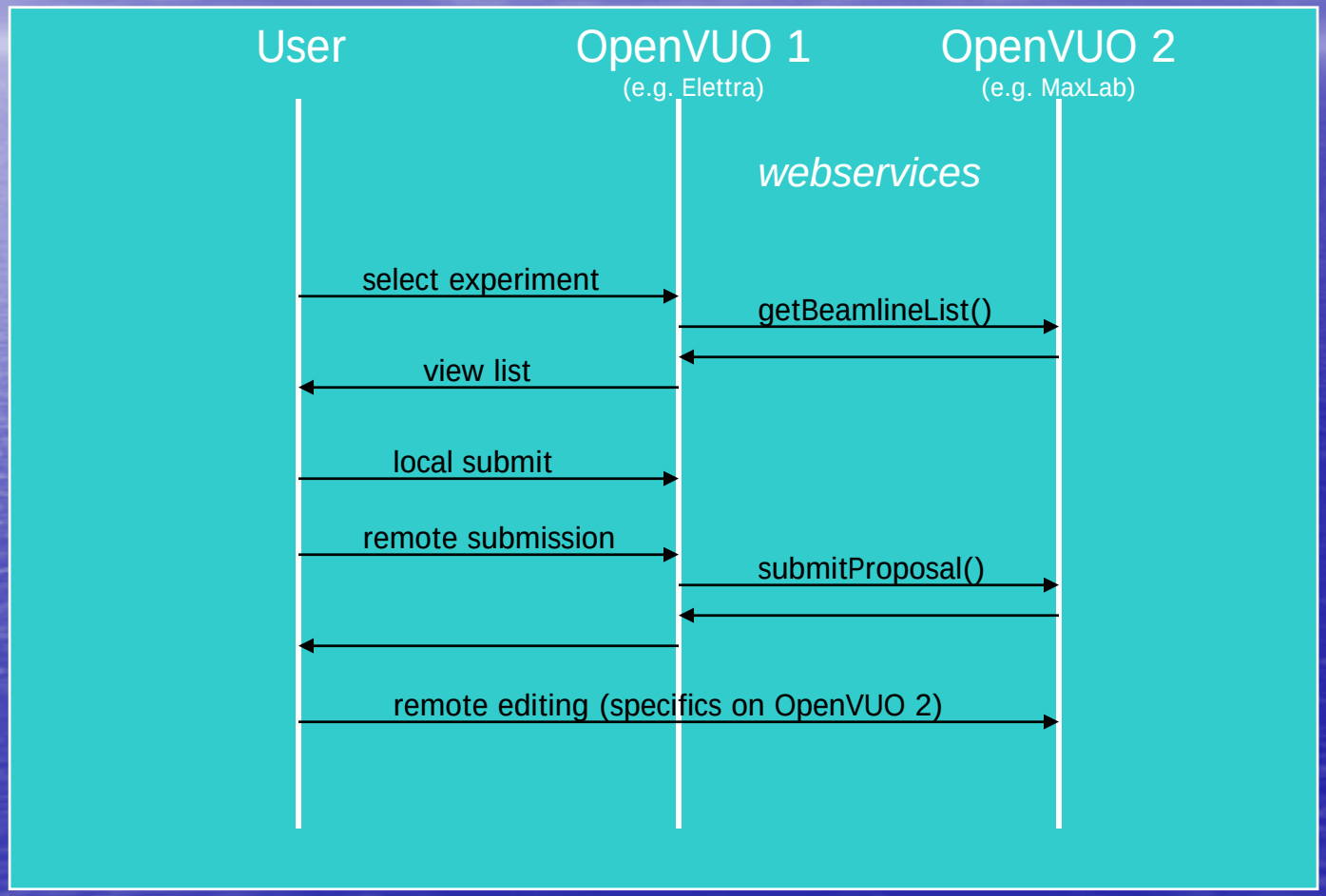
Interchanging data

- Define a set of common minimal information need to submit a proposals.
- Define a XML to store this information
- What can I do with this XML?
  - The user can save the data and then submit the proposal later to Elettra but also to another facility
  - The OpenVUO can send or receive data via webservices to a similar system of another facility.

Webservice definition

- Authentication
- List of beamline/experimental stations
- Remote submission
  - Upload proposal XML

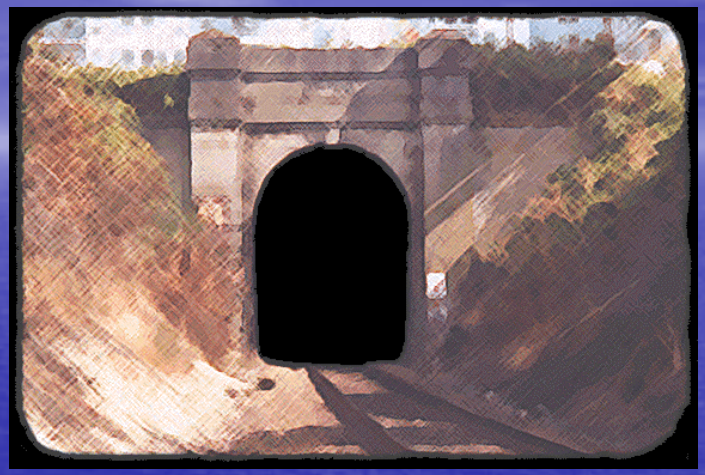
Remote submission using webservice (timetable)



Smoothly porting

- Some VUO figures:
  - 75k rows of code pl/sql
  - 6k rows of code python/java/C
  - 184 tables
  - 8105 users
  - 6060 proposals/2096 publications/3320 access requests
- Is not possible to port all the software at the same time
- The users are using the VUO and it is not acceptable a downtime

VUO-tunnel



- Not all the applications are ported into the OpenVUO
- VUO tunnel
  - Allow to access in the OpenVUO all the functionality of the VUO that are written in pl/sql and that are not already ported to java.
  - Using this technique it is not necessary to migrate in one shot all the software, but the migration can be done gradually.

Beamtime applications proposals

- This is the main section of the OpenVUO
- Already ported in java
- Other application (Projects and visits)

Future technologies

- Workflow engine
  - The usage of the VUO also for internal application need to go over the simple state machine model and move to a “workflow engine” to handle complex activities

Conclusion

- The OpenVUO is the open source version of the VUO financed by the IA-SFS FP6 project.
- The IA-SFS/JRA1-WP1 define also a XML format for download/upload beamtime application requests.
- A set of webservices will allow the integration between the VUO and other similar systems
- This platform it is used also for other intranet application
  - Projects
  - ...