

The Multipurpose Virtual Laboratory: Client User Manual

DRAFT VERSION

Executive Summary

The primary goal of this document is to provide a description of the *Multipurpose Virtual Laboratory* (MVL) from the point of view of the client user with specific details for the First Prototype Test. The document will explain the basic steps needed to use the web application. The document refers to the First Version of the MVL prototype.



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01.00.00	06/05/05	Claudio Scafuri, Roberto Pugliese	First Version: MVL prototype 1

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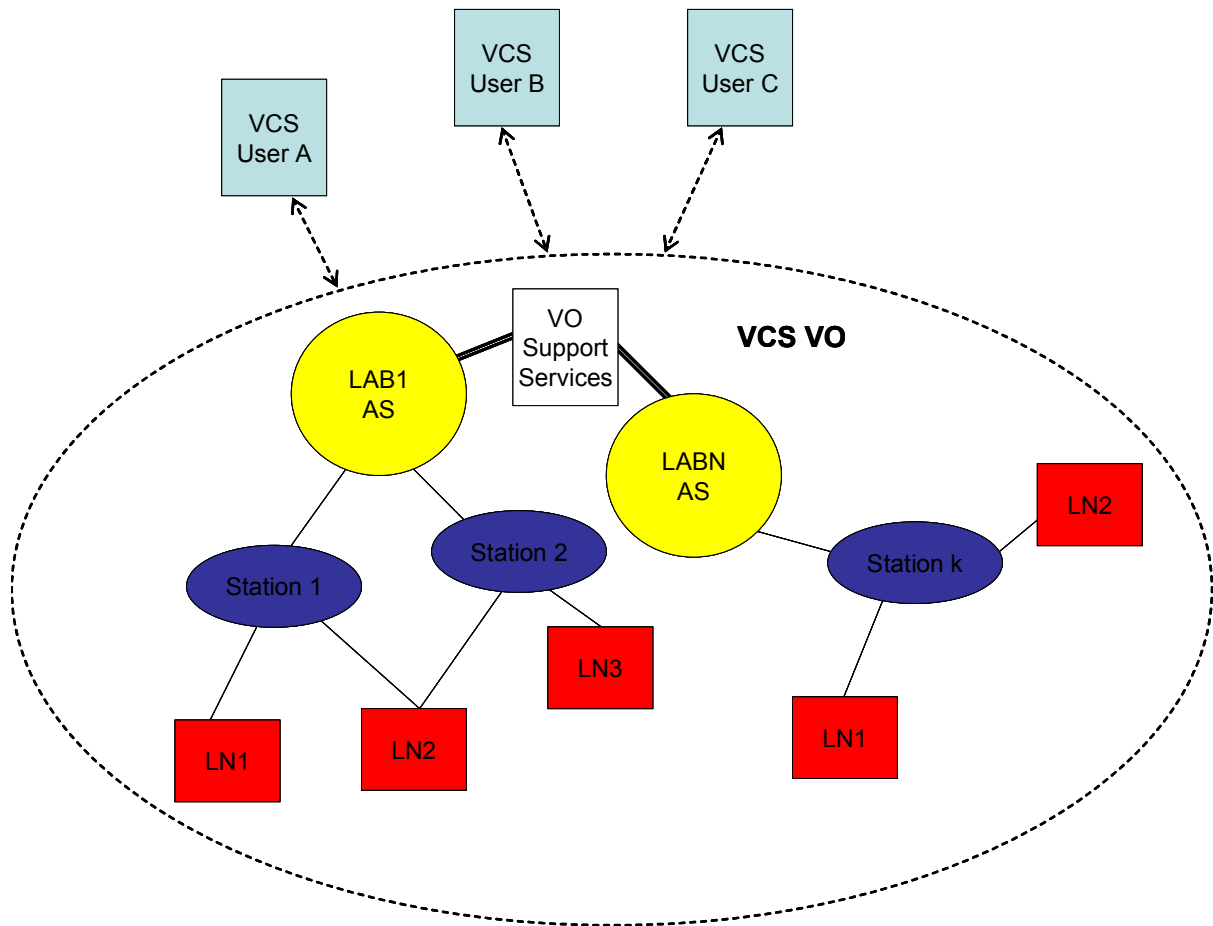
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1 THE ARCHITECTURE OF THE MVL

The MVL can be used to implement a widely distributed Virtual Organisation (VO) connecting all the stations and laboratories involved in a multi-institutional collaboration. The MVL presents a multi tier architecture: one MVL node for each institution plus some centralized service to support the connection of the different MVL nodes in the VO. This document focus on the use of the webclient. The MVL presents a multi-tier architecture:

- the Web Client
- the Application Server (AS)
- a set of local nodes (LN)

The AS is usually installed on a single host, running the portal application, the user and project database. The AS manages a (possibly) infinite number of nodes, and activates actions implemented by agents running in the local nodes.



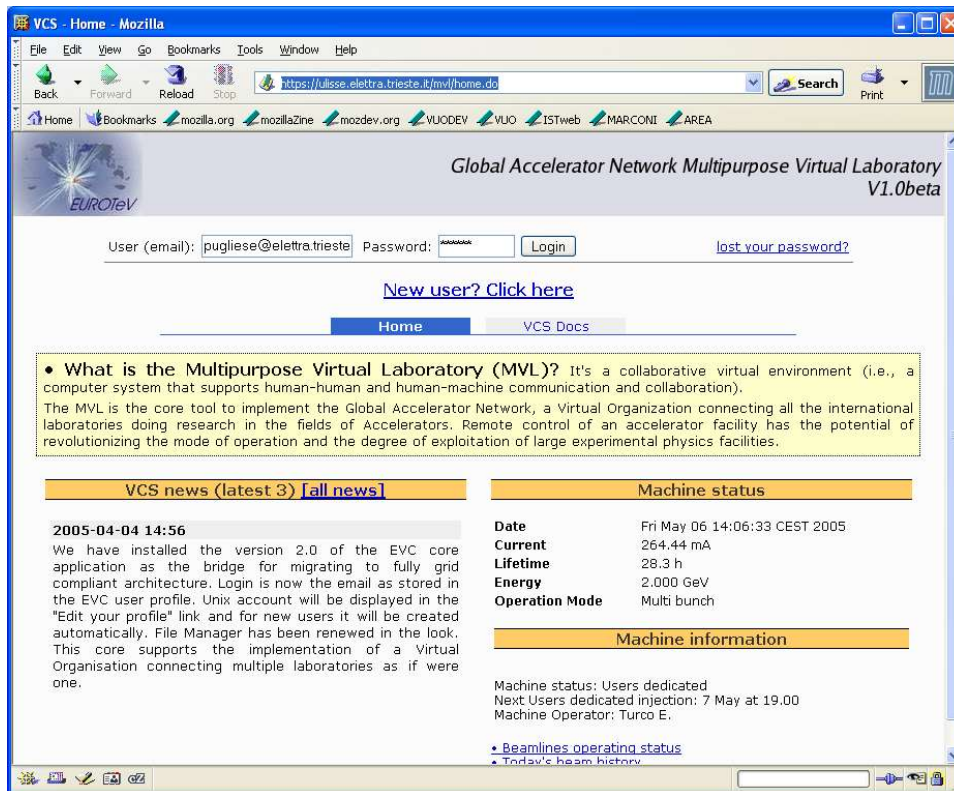
Drawing 1MVL architecture

2 INSTALLATION OF THE CLIENT SOFTWARE

There is no need to install the client software. The user needs only to use a web browser with a reasonably recent java virtual machine. For a full featured client it is also required a cheap webcam and any good combination of speakers and microphone. An audio headset will work perfectly. In order to use the MVL the user should access the URL of the selected AS.

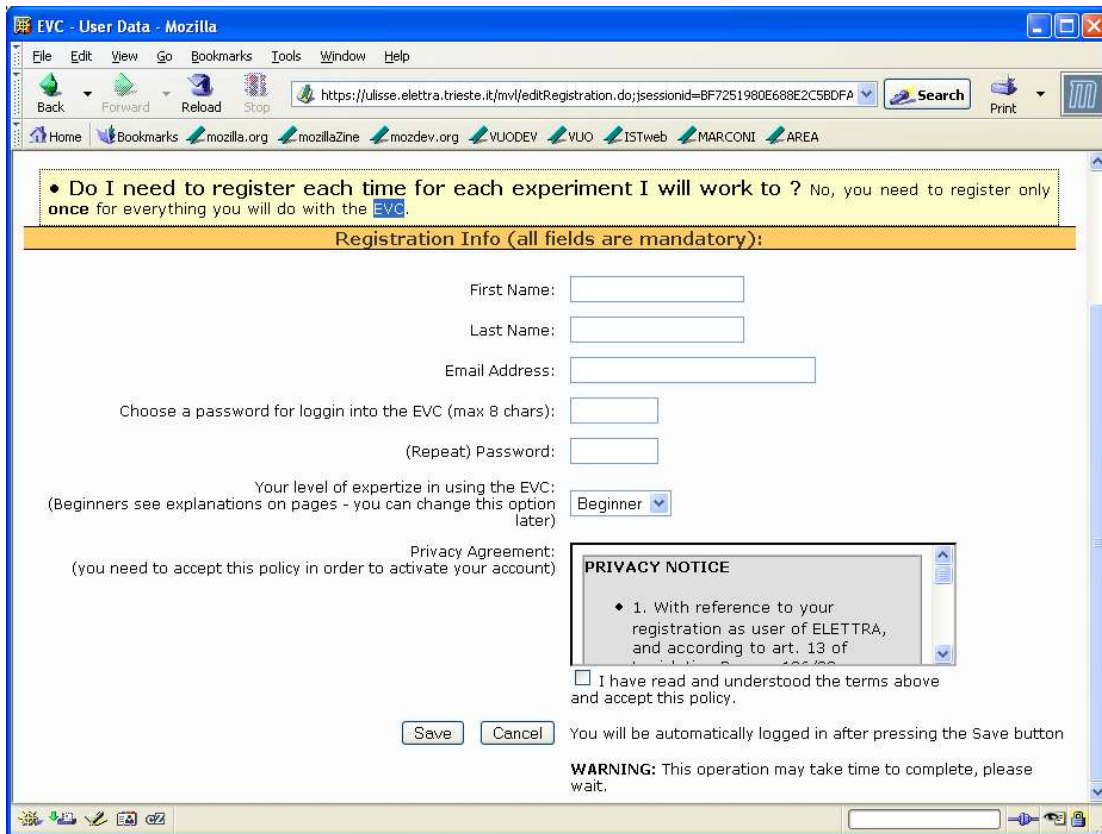
3 USING THE MULTIPURPOSE VIRTUAL LABORATORY

Lets suppose that you want to connect to Elettra MVL Application Server you will use the URL: <https://ulisse.elettra.trieste.it/mvl/home.do>



Drawing 2MVL Node Starting page

In order to access the MVL you need to login. If not yet registered you need to register in the VO: select the “New User: Click Here” link.



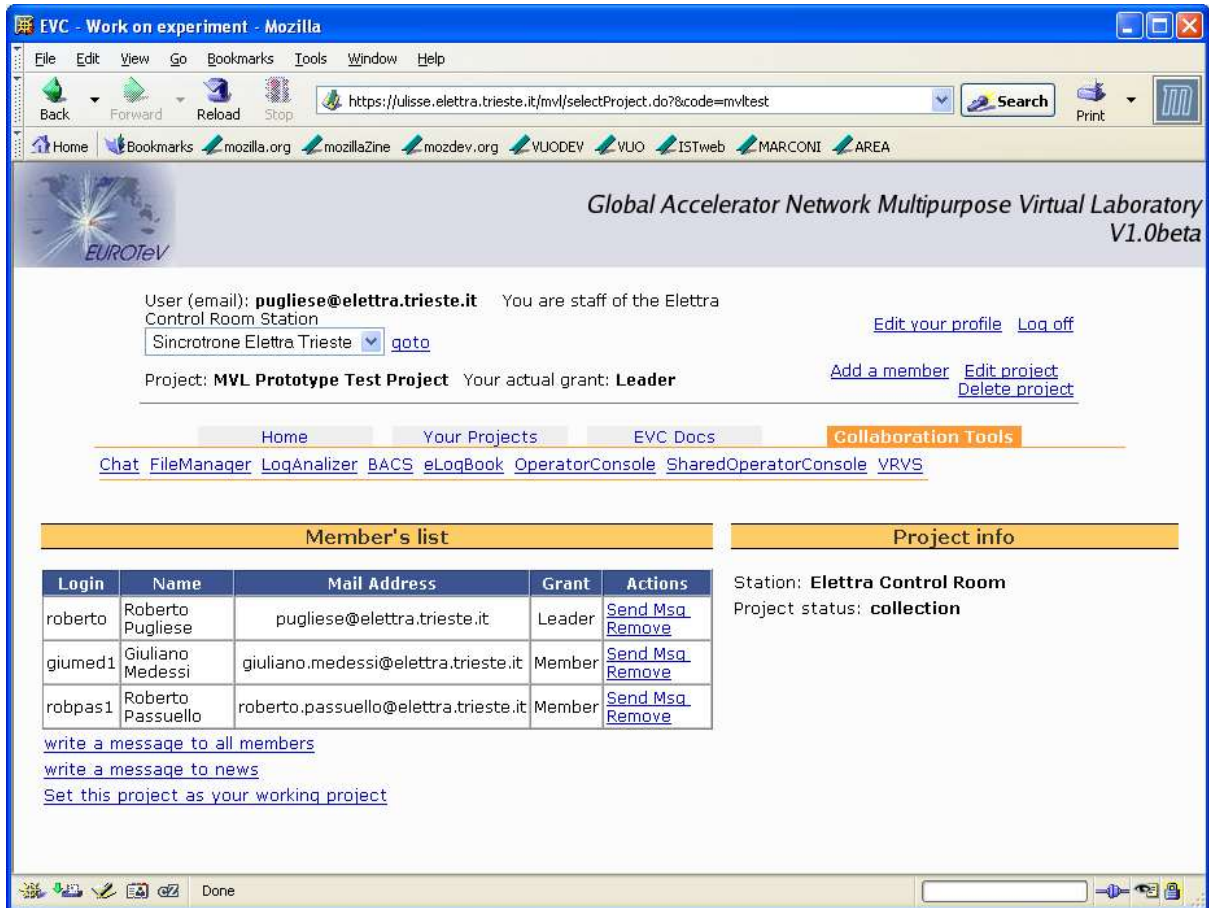
Drawing 3 Registration page

Please fill all the mandatory field of the registration page and press “Save”. This will create your account. The system will also generate a binding of your account with a unix login. After login select “Your projects” tab and you will access the list of all projects in the VO in which you are involved. In order to use the collaborative environment you have to select an already created project or create a new one. For security reasons a project on an MVL Node can be created only form inside the LAN of the MVL Node.

4 MVL PROTOTYPE TEST PROJECT

To test the prototype select the “open” link of the project "MVL Prototype Test Project". An new window will appear on the Station “Elettra Control Room”.

The station has an associated set of collaboration tools which we will describe

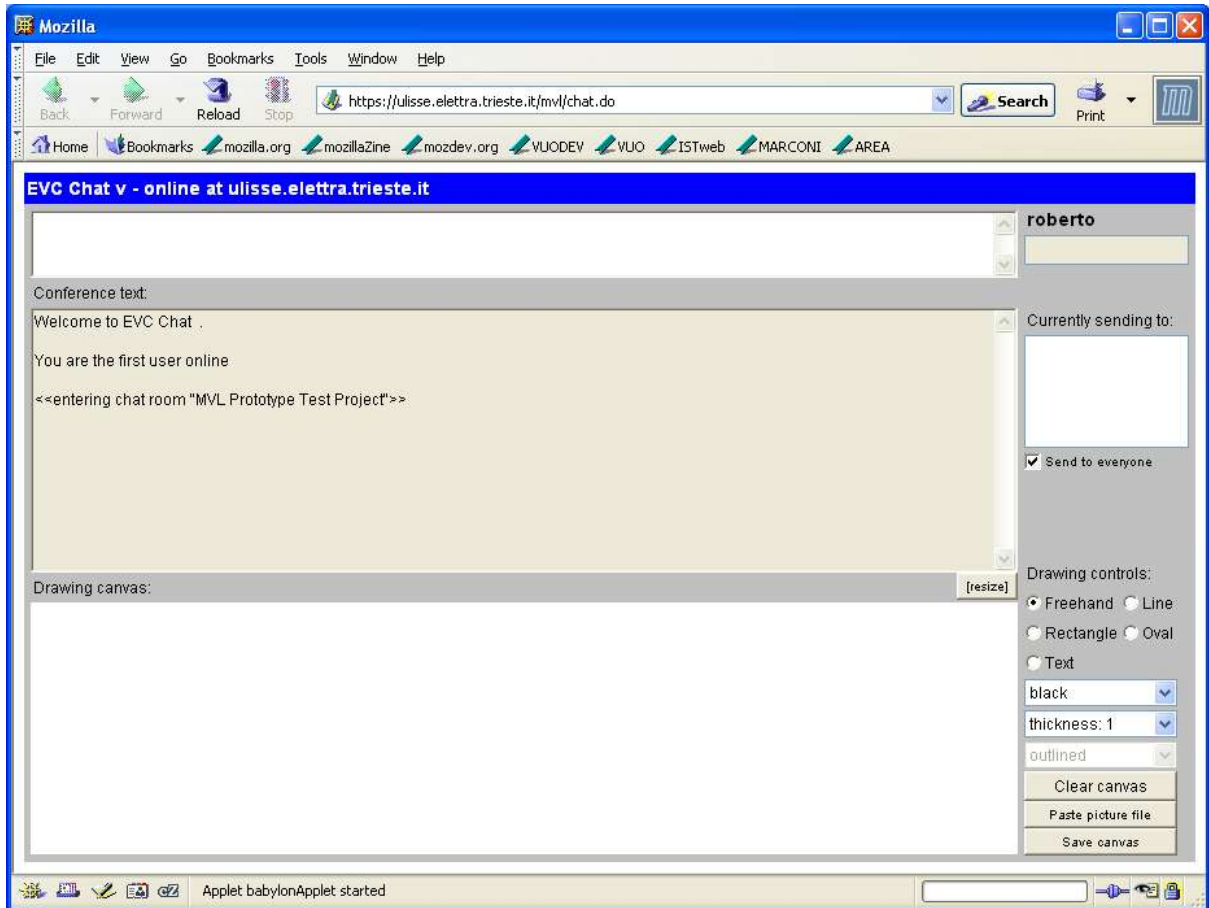


Drawing 4Elettra Control Room station

shortly. The availability of the tools depend on the station configuration which in turn depends on the resources available at the station.

Chat

This is a normal chat with the possibility to past images and limited graphics capabilities.



Drawing 5Chat

FileManager

The file manager tool can be used as a general purpose document exchange area. You can download, upload, zip and backup data.

BACS

The BACS allows you to monitor the status of the Beamline Access Control System. This tool is important in case of interlocks coming from the experimental stations which prevent the injection or dump the beam.

BACS Supervisor - Mozilla

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <http://bacs.blcs.elettra.trieste.it/bacs/> Search Print

Home Bookmarks mozilla.org mozillaZine mozdev.org VUODEV VUO ISTweb MARCONI AREA

BACS Supervisor Panel

Injection phase: **No**

	Injection	Accumulation
010	✓	✓
012	✗	✓
022	✗	✓
032	✗	✓
042	✓	✓
052	✗	✓
061	✗	✓
062	✗	✓
072	✗	✓
081	✗	✓
082	✗	✓
091	✗	✓
092	✗	✓
101	✓	✓
102	✗	✓

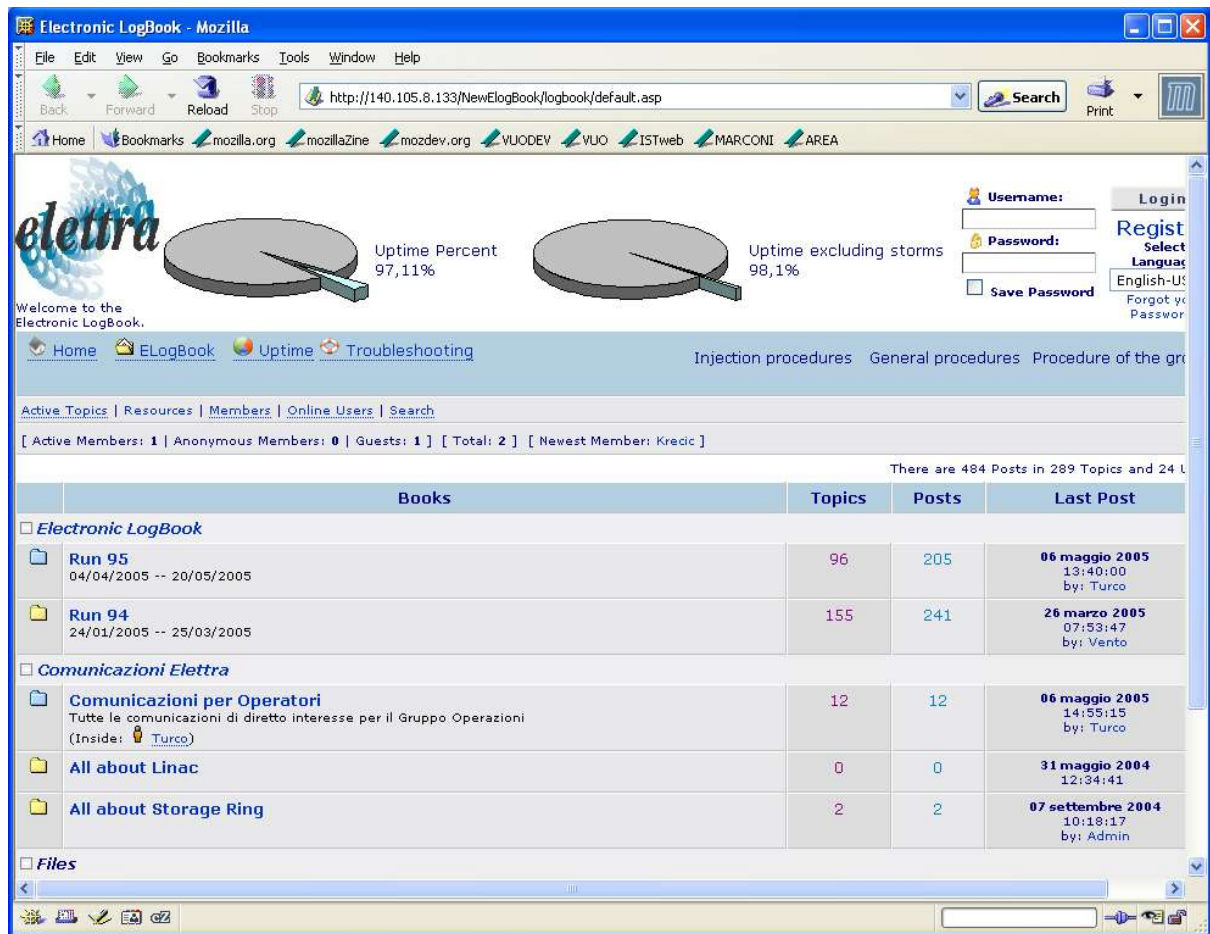
Friday, 06-May-2005 14:58:54 CEST

<http://bacs.blcs.elettra.trieste.it/bacs/right.html>

Drawing 6BACS

eLogBook

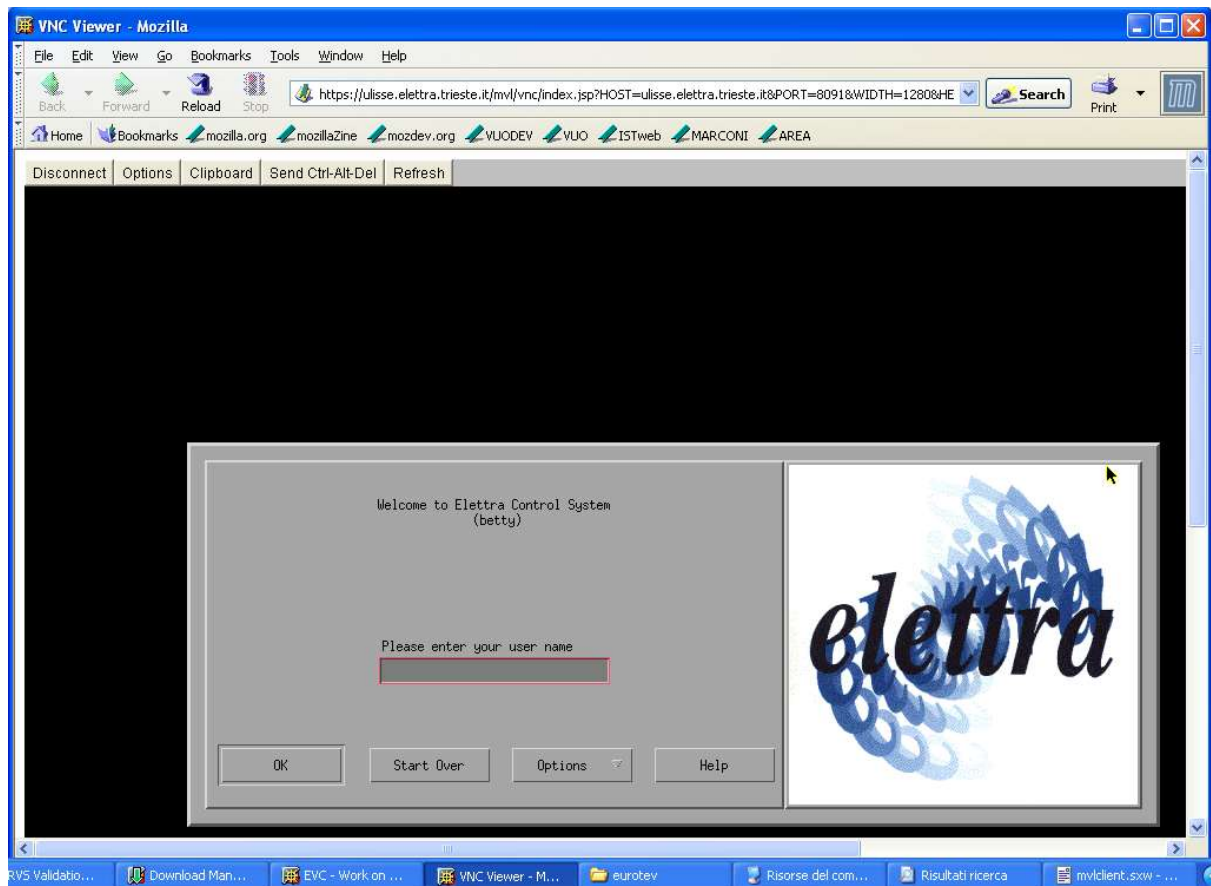
This tool is the ELETTRA control room electronic logbook. Is a sort of knowledge base for the control room operations.



Drawing 7Elettra eLogBook

OperatorConsole


The OperatorConsole tool allows you to open a VNC session on one of the control room workstations. The VNC operating mode is not shared. You need a valid control room account to access this tool.

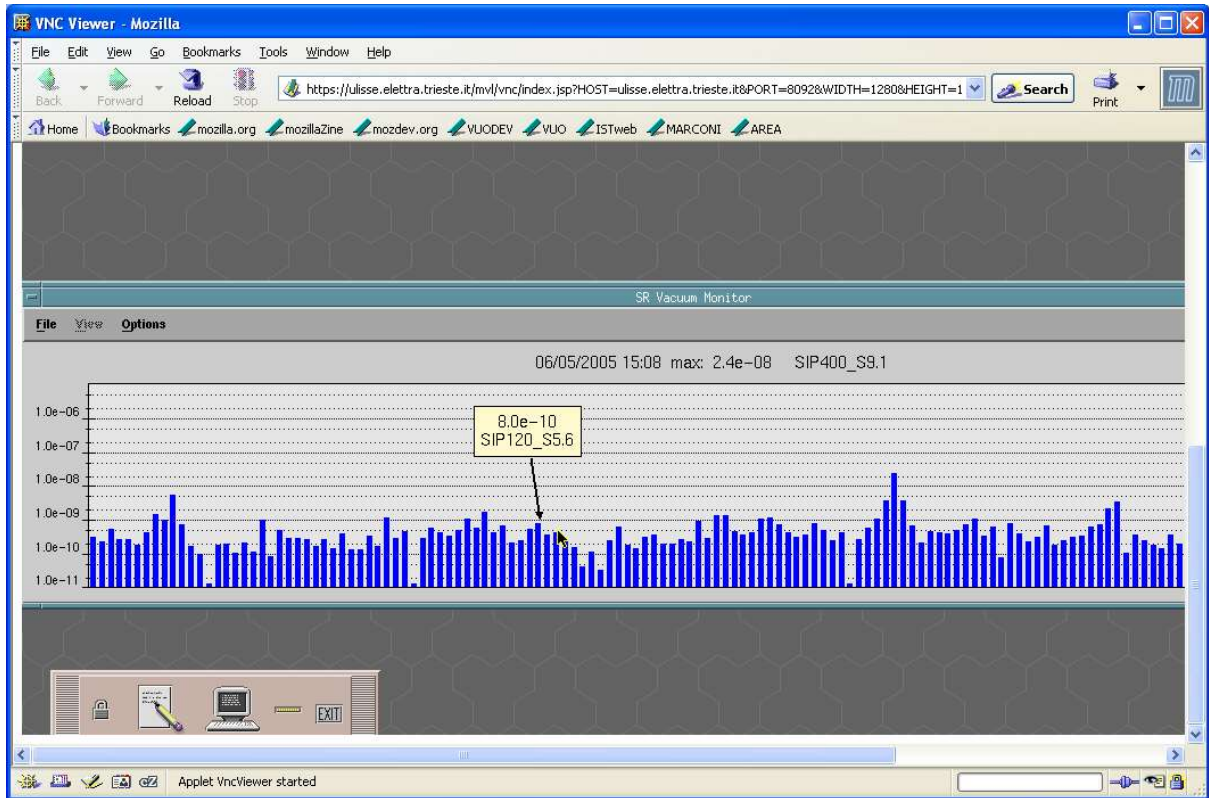


Drawing 8OperatorConsole

SharedOperatorConsole

The OperatorConsol tool allows you to open a VNC session on one of the control room workstations. The VNC operating mode is shared, which means that you share the pointer and the view of the control room operator. To access this tool use the “Betty123” password.


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Drawing 9SharedOperatorConsole

VRVS

The VRVS link allows you to access the Virtual Room Videoconference System. You need a valid VRVS account to use this tool. The booking is by now not automatic. You should agree with your collaborators on a meeting community, date and room and eventually password. For example the community can be “GridCC”, the date Monday 9th May 2005 and the room Duino with the password “Betty123”.

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Drawing 10VRVS room

5 HELP DESK

The MVL is a complex distributed system and even if we will try to make it as simple as possible it's impossible to take into account and sort out in this document all the problem which may arise in the operations of MVL.

A practical approach consist of providing a good quality help desk. This service is twofold: we have set up a discussion wiki which includes a faq (<https://ulisse.elettra.trieste.it/wiki/index.php/MVL>) and a Technical Assistance Request (TAR) service. The TAR service is accessible from the portal <http://ulisse.elettra.trieste.it/area> by selecting the TAR link on the left. In order to have you question submitted to the development staff you have to fill a form and select MVL as the target system.

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