

DIRAC Web portal development and perspectives

Matvey Sapunov, CPPM

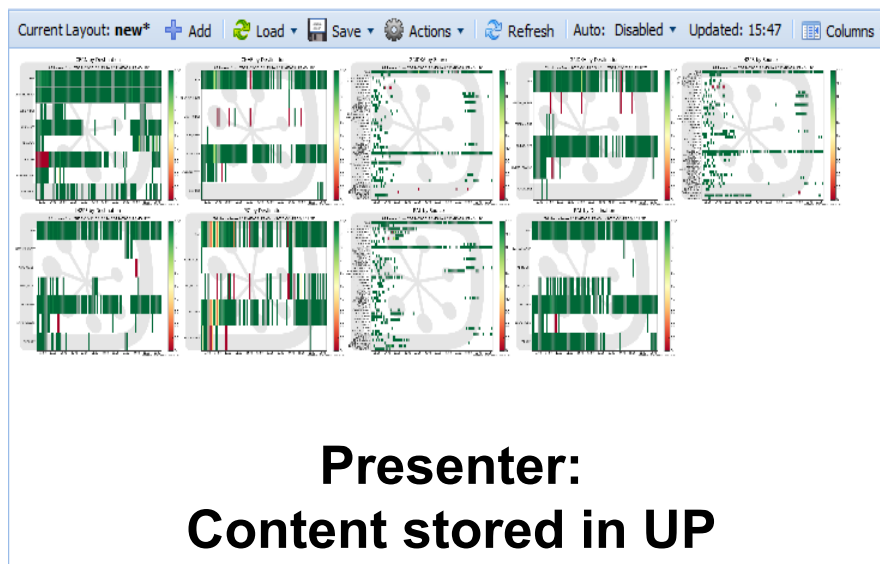


Current Tasks

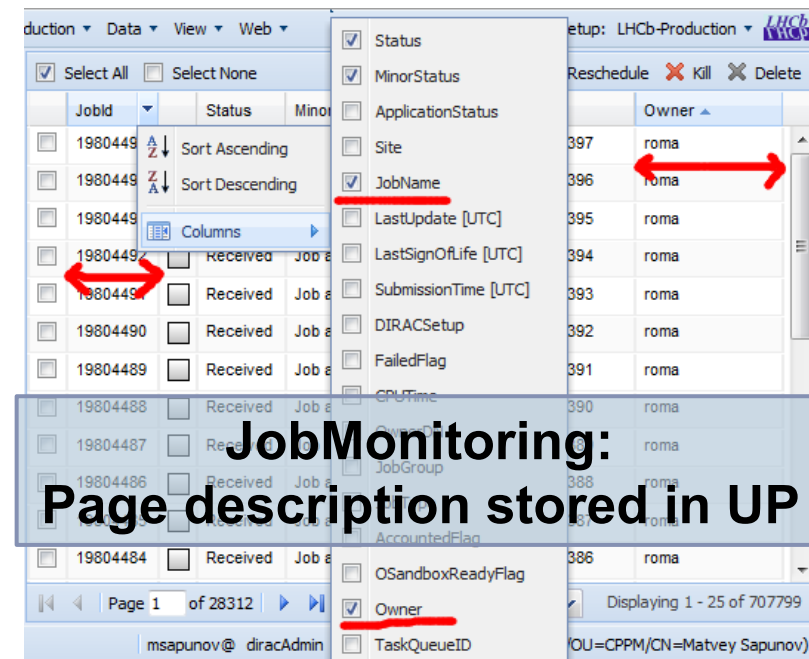
- ▶ User Profiles
- ▶ MetaData File Catalog
- ▶ Helpers for DIRAC administrators
- ▶ Administration interface
- ▶ Bug fixes and feature requests for current pages

- ▶ The main idea is to keep the state of the web page on the server side
- ▶ User could have several profiles per a page and per DIRAC group
- ▶ Availability to switch the profiles and so to change the representation of the data or the content of a page
- ▶ Users should be able to share their profiles among themselves

- ▶ Overall, user profile is just a textual information
 - ▶ Can be the description of a page like columns width or set of the selectors
 - ▶ Can store the content of the page like set of URLs for Presenter page

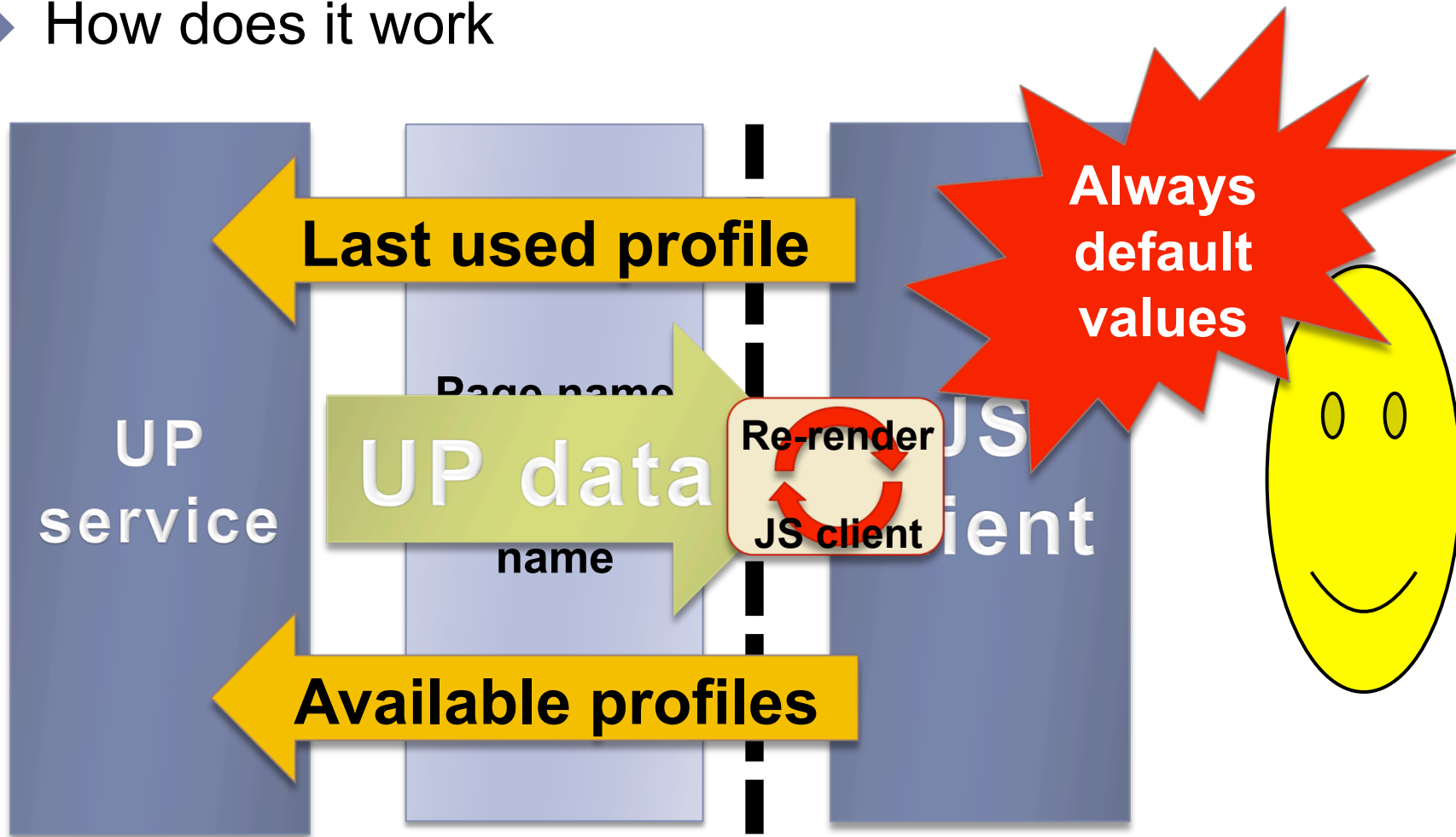


**Presenter:
Content stored in UP**



**Job Monitoring:
Page description stored in UP**

▶ How does it work



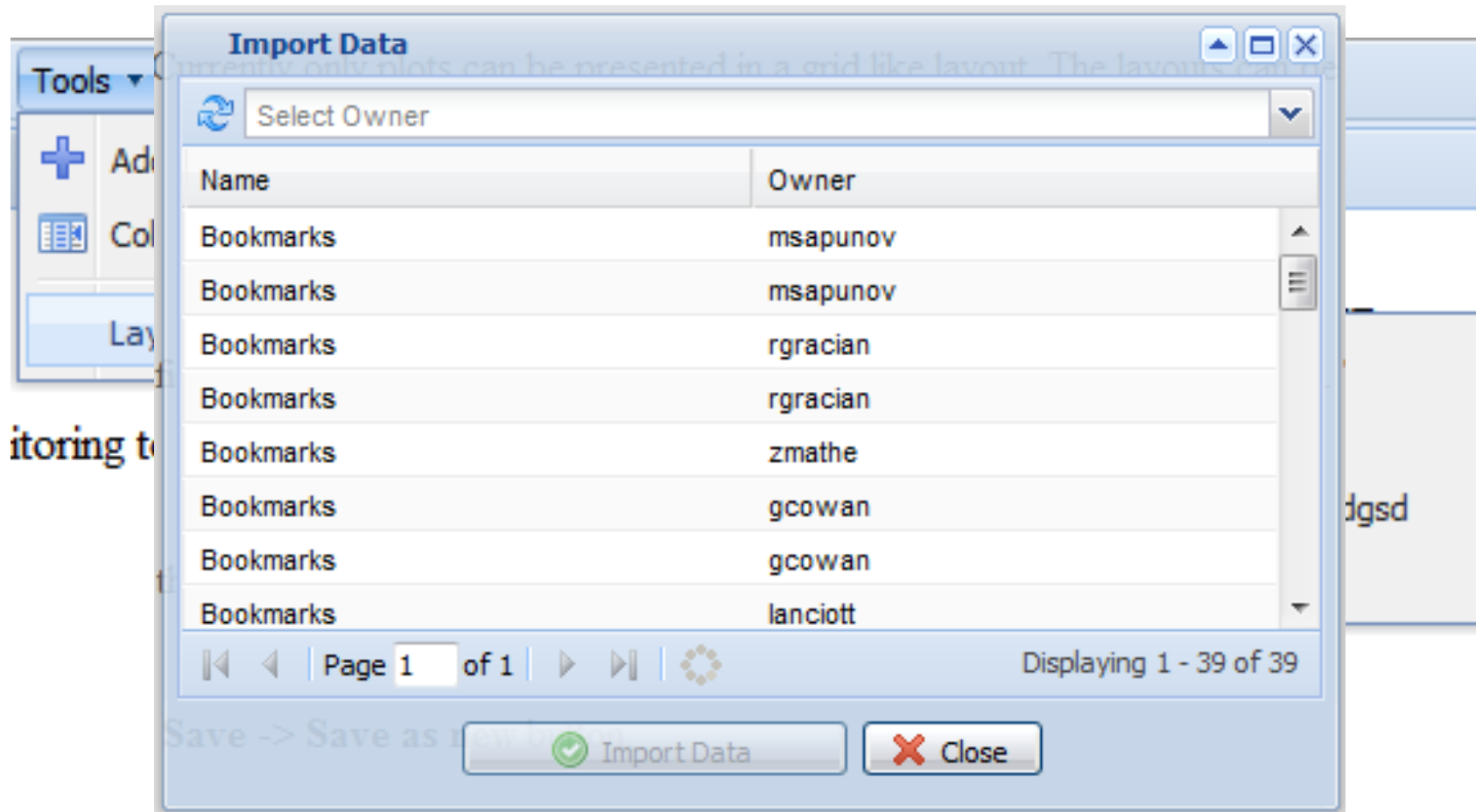
- ▶ Load of a profile is not an instant action. On slow connections loading of a profile could take several seconds before client starts to re-render itself
- ▶ If a page depends on data provided by UP service, like Presenter, the service failure effectively means an error message and the blank page



User Profiles

- ▶ Linux like access control list
 - ▶ Global read access
 - ▶ Group read access
 - ▶ User read/write access
 - ▶ VO aware
- ▶ DIRAC Administrator has no rights to read profile of a user if global read flag is not set
- ▶ Imported data has to be saved in current or new profile otherwise changes will be lost
- ▶ Profile name can be used as the profile description and it's limit up to 255 characters which is almost two times more than a tweeter message

▶ Example of import profile profiles based on ACL



The screenshot shows a software interface with a 'Tools' menu on the left and a main window. An 'Import Data' dialog box is open, displaying a table of profile data. The table has two columns: 'Name' and 'Owner'. The data rows are as follows:

Name	Owner
Bookmarks	msapunov
Bookmarks	msapunov
Bookmarks	rgracian
Bookmarks	rgracian
Bookmarks	zmathe
Bookmarks	gcowan
Bookmarks	gcowan
Bookmarks	lanciott

At the bottom of the dialog, there are navigation controls showing 'Page 1 of 1' and 'Displaying 1 - 39 of 39'. There are also 'Import Data' and 'Close' buttons.



Current status

- ▶ User Interface is ready apart from UP editor
- ▶ Actively testing all service calls
- ▶ Will be available in the new release of Web Core in two weeks (Presenter only)
- ▶ Other pages will incorporate UP ability later this summer



MetaData File Catalog

- ▶ Provide a tool to navigate, to select and to save data stored in the MetaData File Catalog
- ▶ Efficiently works with data from any place with internet connection
- ▶ Same functionality as in command line client
- ▶ Permissions aware
- ▶ Based on code of LHCb Bookkeeping web client
- ▶ Dynamically add new kind of selectors for different type of meta data



MetaData File Catalog

▶ Example of user interface

Select data

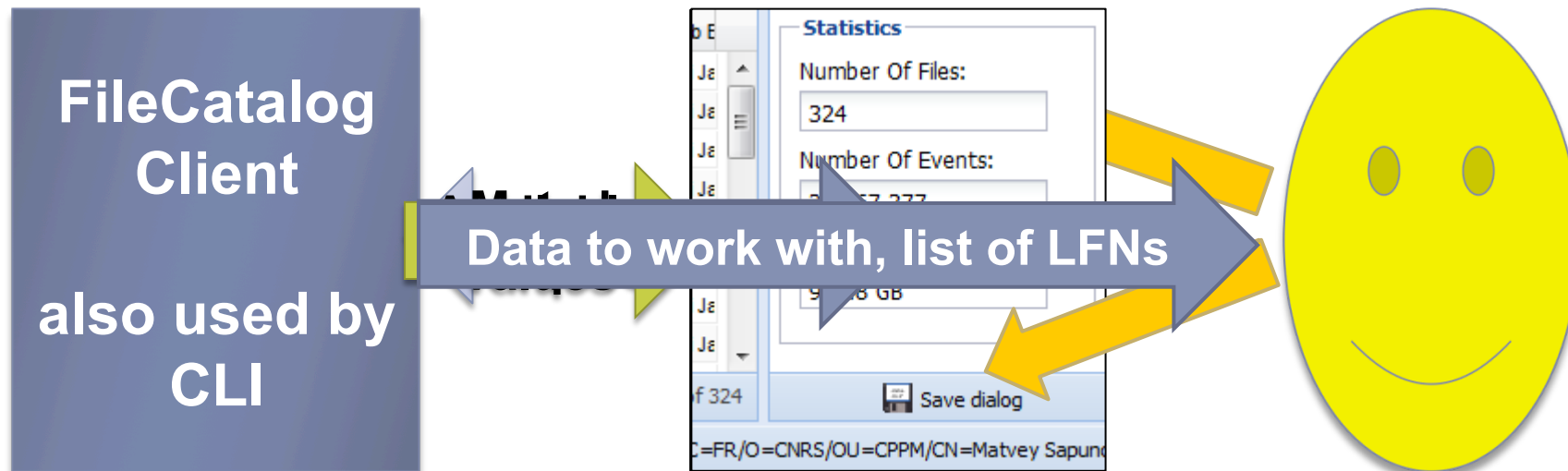
Show data

Save data

The screenshot displays the MetaData File Catalog interface. On the left, the 'Meta Catalog' panel includes an 'Add Parameters' dropdown menu with a list of filters: 'Another string', 'Int >20', and 'Int =15'. Each filter has a checkbox, with 'Another string', 'Int =15', and 'Int >20' checked. Below the filters are 'Submit', 'Reset', and a refresh icon. The central 'Show data' panel contains a table with the following content:

#	Job Start	Job End
1	Thu Apr 28 2011	Fri Apr 29
	Thu Apr 28 2011	Thu Apr 28
	Thu Apr 28 2011	Thu Apr 28
	Thu Apr 28 2011	Thu Apr 28

On the right, the 'Information' panel shows 'Statistics' for the selected data: 'Number Of Files: 324', 'Number Of Events: 26 267 377', and 'File(s) Size: 917.8 GB'. A 'Save dialog' button is located at the bottom of this panel. The footer of the interface shows '82 unread notifications', the user 'msapunov@ diracAdmin', and the path '(/O=GRID-FR/C=FR/O=CNRS/OU=CPPM/CN=Matvey Sapunov)'.





MetaData File Catalog

Current status

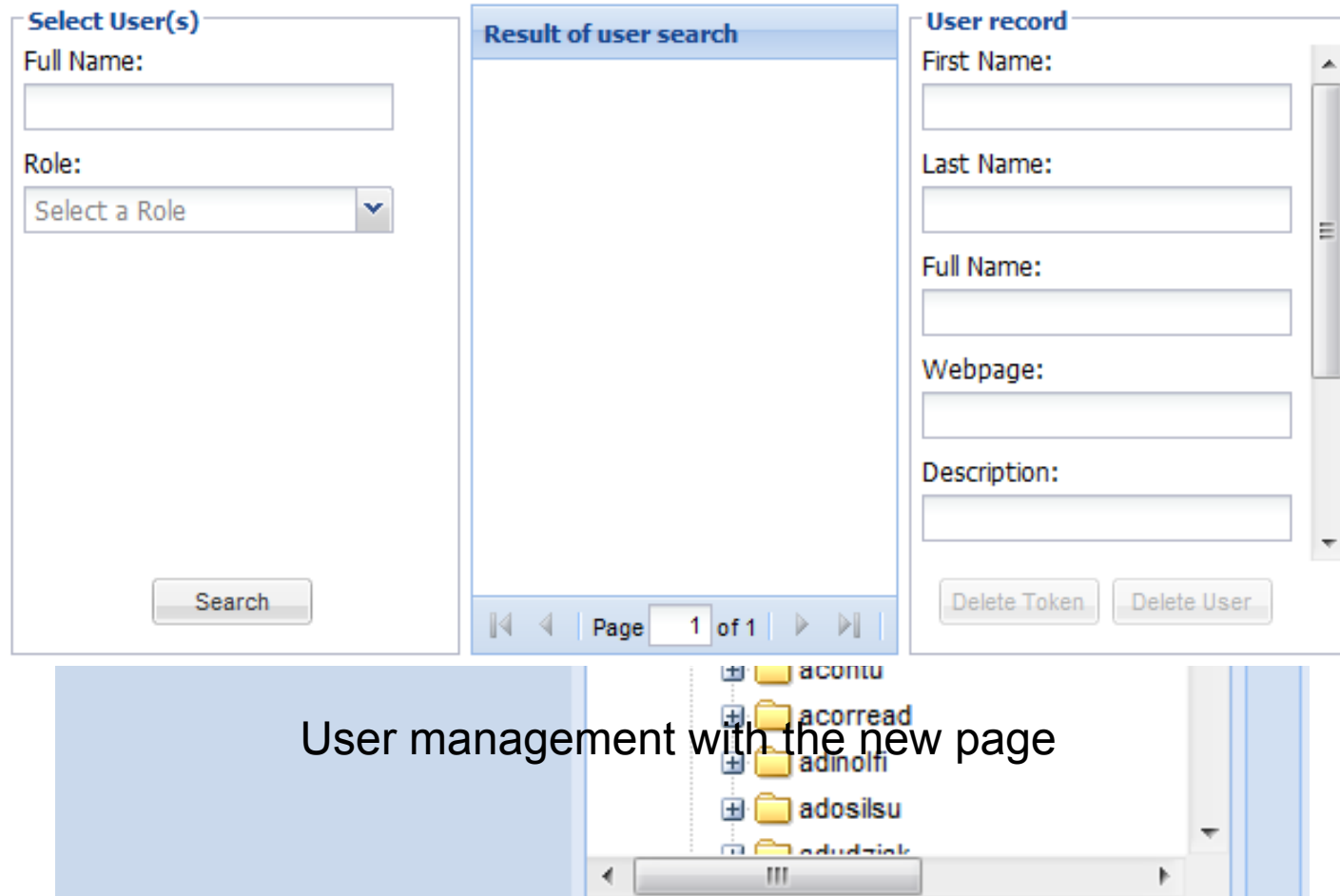
- ▶ User Interface is almost ready, in alpha testing
- ▶ Service calls are not ready
- ▶ Need to have a testing ground (ILC?)
- ▶ Will be available this summer, mid-June or so



Administrator's Helpers

- ▶ Simple interface to DIRAC Configuration System
- ▶ User-friendly front-end for CS editor
 - ▶ Lower learning curve for new DIRAC administrators
 - ▶ Clear and evident way to find and change configuration values
 - ▶ Reduce chances of errors
 - ▶ Powerful mechanism of selectors simplifies the access to the configuration data
- ▶ Helpers will be created on demand

Administrator's Helpers

A screenshot of the DIRAC Administrator's Helpers web interface. The interface is divided into three main sections: 'Select User(s)', 'Result of user search', and 'User record'.
1. 'Select User(s)': Contains a 'Full Name:' text input field, a 'Role:' dropdown menu with 'Select a Role' as the selected option, and a 'Search' button at the bottom.
2. 'Result of user search': A large empty box for displaying search results, with a pagination bar at the bottom showing 'Page 1 of 1'.
3. 'User record': Contains several text input fields for 'First Name:', 'Last Name:', 'Full Name:', 'Webpage:', and 'Description:'. At the bottom of this section are two buttons: 'Delete Token' and 'Delete User'.
Below these sections, a partial view of a file tree is visible, showing folders like 'acontu', 'acorread', 'adinolfi', 'adosilsu', and 'adudziak'.
The text 'User management with the new page' is overlaid on the bottom part of the screenshot.



Administrator's Helpers

Current status

- ▶ User Interface for the first helpers which will be used for the user administration is almost done
- ▶ Service calls are not ready
- ▶ Will be available end of May or early June



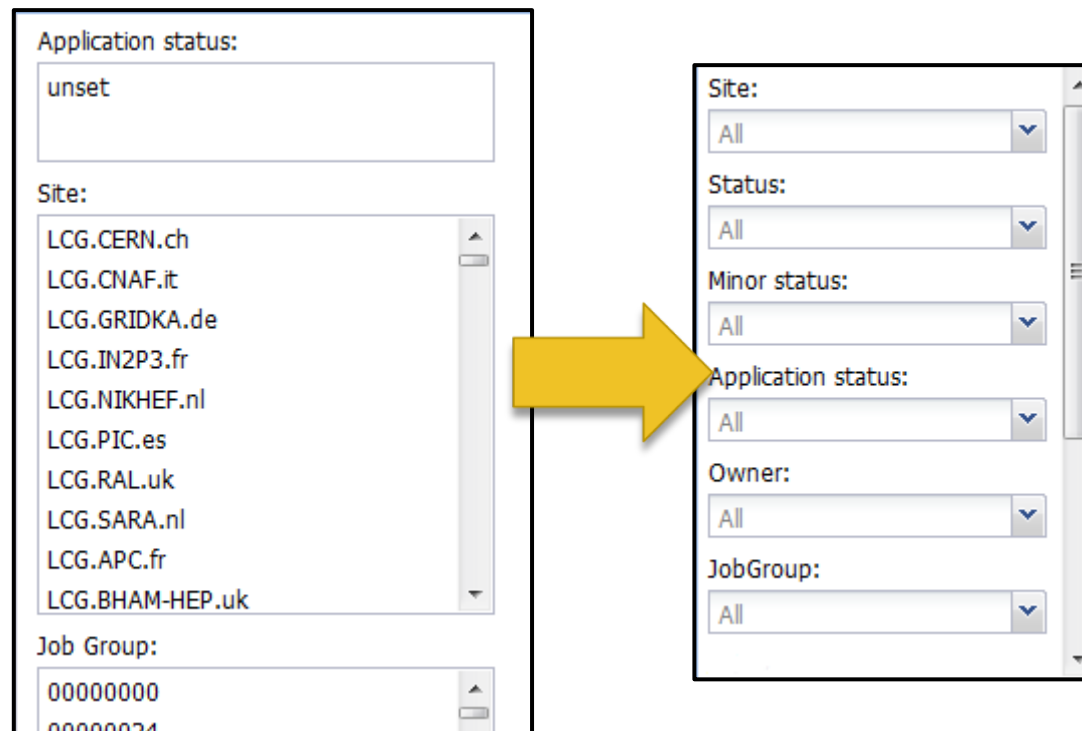
Administration interface

- ▶ User friendly replacement for CLI `dirac-admin-*` commands
- ▶ DIRAC service installation or removal in two clicks
- ▶ Ability to start/re-start/stop a DIRAC service or agent remotely
- ▶ Service or agent log file can be displayed directly in the portal webpage

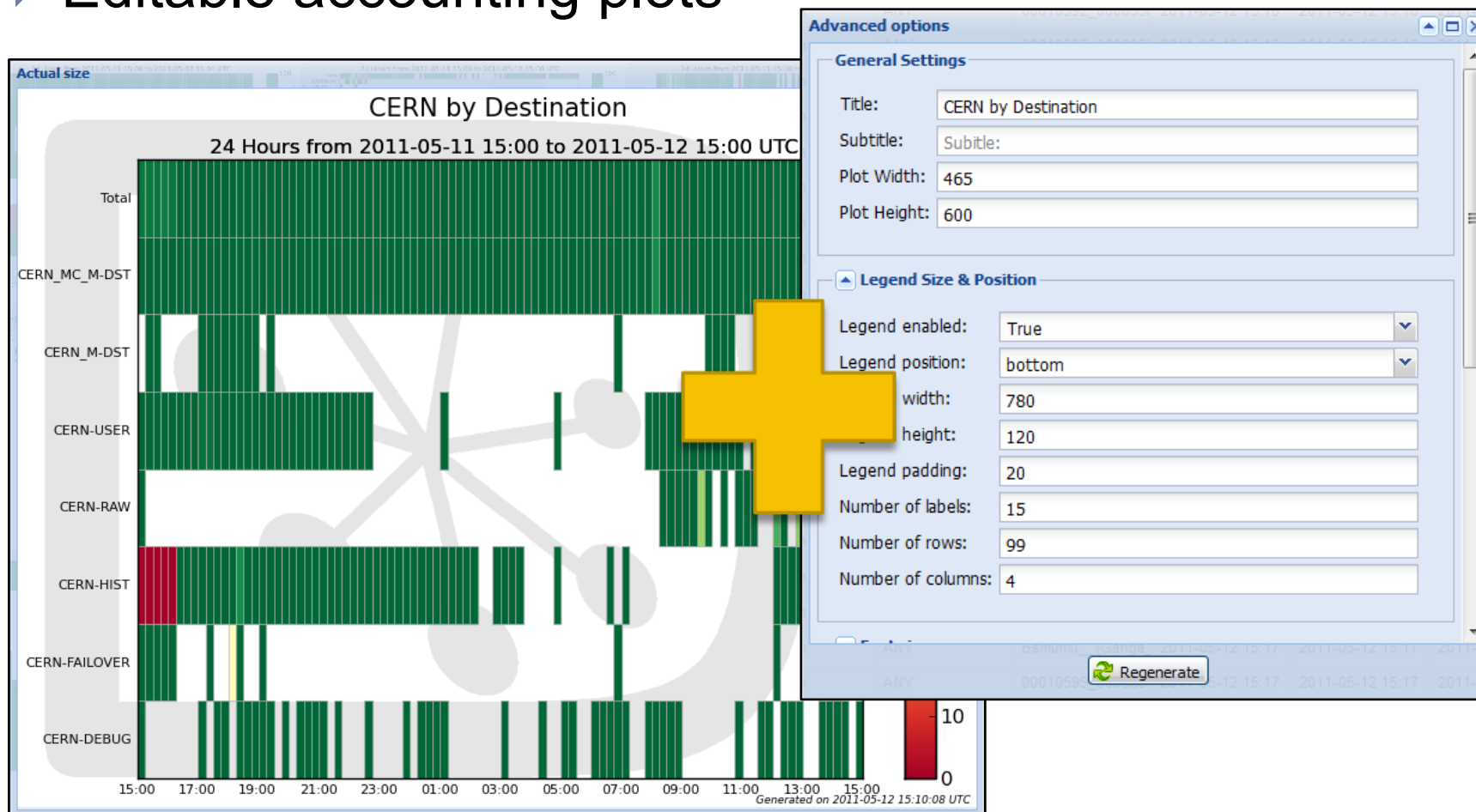
Current status

- ▶ Prove of concept is under construction
- ▶ Initial release later this summer

- ▶ Accounting pages will be fixed to have the homogeneous look-n-feel with the rest of the portal



► Editable accounting plots





Questions?
