

Operations Portal Workplan

JRA1 F2F meeting

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- The objectives defined in June are the following (MS701)
Details : <https://documents.egi.eu/secure/ShowDocument?docid=39>
- Migration of the remaining key features from the CIC portal to Operations Portal
- Provide, when possible, regional modules of these features
- Provide a systematic standard access to all information handled by the Operations Portal . Make the information available through standard format like xml for download or through API
- Provide new adapters to Lavoisier Web Service to cope with new information sources
- GOC DB harmonization

1) Migration of the remaining key features from the CIC portal to Operations Portal

- VO ID card , a candidate release is on-line since October . We are waiting the validation by UCST.
- The broadcast development is on-going . The release is expected for February .

2) Provide, when possible, regional modules of these features :

- For VO ID card this is not foreseen – this is/will stay a central feature
- For the broadcast we will deliver it in the next release
- 4 regional portals in place : IBERGRID, GRNET, NGI_BY , NGI_CZ

3) Provide a systematic standard access to all information handled by the Operations Portal .

A simple Programmatic Interface is already available :

<https://cclavoisier02.in2p3.fr:9000/LavoisierService/view/PI>

This version will be improved in the year.

4) Provide new adapters to Lavoisier Web Service to cope with new information sources

⇒ Not needed now but the migration to Lavoisier 2.0 will help this integration in the future.

5) GOC DB harmonization

⇒ It will start after the decommission of the CIC portal .

- Several factors have affected the initial roadmap :
 - Validation /discussion about the VO ID card developments with UCST is longer than expected
 - The time spent on the support for the Regional packages has been underestimated.

- New tasks have been introduced :
 - Important changes in the COD view
 - Integration of a security dashboard

- Additional tasks to take into account :
 - Integration of Lavoisier 2.0
 - Decommission of the CIC Portal

COD View : From sites to NGI

- Sites should be grouped by ROCs/NGIs
- COD will be creating tickets for NGIs/RODs so there should be a box where tickets will be listed
- Notepad per NGI/ROC only for COD

Ticket creating:

- Templates

https://wiki.egi.eu/wiki/Operations:Escalation_for_operational_problem_with_ROD

- The message should be generated from the templates according to problems on marked sites appropriate data should be replaced in the template according to problems from marked sites
- COD shifter should have possibility to edit the mail content before it will be send

Ticket modification:

- Status of the ticket: 1st step, 2nd step, 3rd step, solved
- Sending reply without escalation
- Changing expiration date

Goal : detect and inform sites about security incidents and vulnerabilities. Propose an adapted display and workflow to open tickets against sites in the Operations Dashboard.

- Define/adapt/implement/ the XML (CSV,...) format of the reports for Nagios and Pakiti and make them available for Dashboard.
- Correlate and consolidate Pakiti and Nagios information
- Define and implement the mechanism of passing this information to the Dashboard.
- Extend the dashboard with the capability of displaying the information in the site view
- Establish the work-flow of the ticket creation (templates , assignment, RTIR ticket system integration)
- Integrate an additional ACL model => Make sure proper authorization is applied (based on GOC DB and EGI SSO) and make sure that EGI CSIRT/operations people can access all the data collected.

Efficiency

- **engine optimizations**
 - optimized plug-ins chaining
 - in-memory/on-disk caches
- **plug-ins optimizations**
 - Event based

Reusability

- **of development efforts**
 - plug-ins
- **of data (thanks to cache)**
 - Raw data
 - Transformed data

Reliability

- **persistent cache of views**
- **data validation**
- **error management**

Maintainability

- **users not impacted**
 - by technology changes
 - By performance tuning
- **split competencies / roles**

A first study has been made :

https://forge.in2p3.fr/projects/opsportaluser/wiki/Harmonization_with_GOCDB

Vision and objectives

- Modularity: We want “independent tools working together” rather than “one single tool”.
- Transparency: users should not have to care about how this is done in the backend. To end users, the solution will be seen as “one single tool”.
- Example: something like the Google tools: gmail, googledocs, picasa... are different applications that work well together. You can just use one of them, but if you want to use all there is a great homogeneity.

Needs and constraints

- Do not propose a bulk tool (keep modularity)
- Allow one part of the system to be installed and operated without the other
- Reuse the legacy wherever possible (no time, no money to redo everything)

Considerations on the legacy

- GOCDB and the Operations Portal different backend: Oracle vs mysql
- Different DB schema and principles (use of PROM for GOCDB)
- Also different scope: regional+central, or central only

Solution A:

- Merged front-ends and interconnected back-ends
- Keep separated:
 - GOCDB database backend and low level interfaces
 - Operations Portal backend and low level interfaces
- Group:
 - High level interfaces
 - Web front ends

Backends will still interact with one another on joint information, this being based on the principle of views (e.g. cross-querying services and VOs)

- Benefits
 - Reuse the legacy backend
 - Provide a single top level interface
 - Great modularity (can only install one backend or the other)
- Downsides
 - Failover can be complicated

Solution B: Fully merged front-ends and back-ends¹

- Design a database model integrating data currently handled between GOCDB and CICDB
- Provide the interfaces to this database, and provide a single front-end

- Benefits
 - Provide a single top level interface
 - Easier failover
 - Easier to cross-query the information
- Downsides
 - Bigger tool, more complex, difficult to maintain and operate
 - Not scalable (no modularity)
 - Complete redesign of the legacy

- Conclusion : solution B seems to be very complicated and needs a huge work.
Moreover with this solution there is no modularity and possibility to deploy only one tool .

Objectives : The core portal framework will be extended to support a service-oriented model allowing the information contained within the portal to be integrated into other systems.

- Preliminary steps :
 - A complete Programmatic Interface : this work will be done during the whole year to improve step by step this PI with new data sources and with new formats (Json for example)
 - The Lavoisier service will be the main component of this PI and the evolutions coming with Lavoisier 2.0 will extend the possibilities of the PI
- Next steps (2012)
 - Adapt the technologies to external applications (widgets, google applications)
 - Provide mobile versions

▪ **Release 2.5 (February 8th)**

- New Homepage
- Migration of the Broadcast tool
- Integration of Nagios (Pakiti?) for the security dashboard
- Migration from cic.gridops.org to cic.egi.eu

▪ **Release 2.6 (March)**

- New COD view : NGI view
- Metrics for non Ok alarms
- Display of security information in the dashboard
- Start of the decommission of the Portal :
 - Migration of the User tracking
 - Integration of external Tools in the Operations Portal : Bazaar and Yaim VO Configurator

| Feature | Expected date of release |
|------------------------------|---------------------------------|
| Broadcast tool | February 2011 |
| COD Dashboard requirements | End of February 2011 |
| Decommission of CIC Portal | April -> June 2011 |
| Security Dashboard | 1st prototype - April 2011 |
| Integration of Lavoisier 2.0 | April – June 2011 |
| GOC DB Harmonization | June 2011 – December 2011 |