



EGI-InSPIRE OTAG-13 Meeting

Meeting:	OTAG-13 Meeting
Date and Time:	24 September 2012 at 14PM-17:00PM (CEST)
Venue:	Colocated with the EGI-TF12 in Prague
Agenda:	https://indico.egi.eu/indico/conferenceDisplay.py?confId=1162

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Participants

Name and Surname	Abbr.	Organisation	Membership ¹
Giuseppe Misurelli		NGI_IT	Member
John Casson		GOCDB dev (NGI UK)	Member
David Meredith		GOCDB Dev (NGI UK)	Member
John Gordon		NGI UK	Member
Claire Deveroux		NGI_UK	Member
Alison packer		Accounting Reporitory developer (NGI_UK)	Member
Will Rogers		Accounting System developer (NGI_UK)	Member
Torsten Antoni		GGUS Dev (NGI DE)	Member
Gunter Grein		GGUS Dev (NGI DE)	Member
Marian Babik		SAM Dev (CERN)	Member
Emir Imagic		SAM Dev (NGI_HR)	Member
Alessandro Usai		NGI_CH	Member
Cyril L'Orphelin		Ops Portal Dev (IN2P3)	Member
Gilles Mathieu		NGI_FR	Member
Alvaro Simon		Metrics/Accounting Portal Dev (CESGA) and IBERGRID	Member
Iván Díaz Álvarez		Metrics/Accounting Portal Dev (CESGA)	Member
Tiziana Ferrari		EGI.eu	Member
Kostas Koumantaros		NGI_GRNET	Member
Malgorzata Krakovian		EGI.eu/SA1	Member
Tadeusz Szymocha		COD(NGI_PL)	(delegated by Marcin Radeck)
Miroslav Ruda		NGI_CZ	Memembr
Ulf Tigerstedt		NGI_FI NGI_NDGF	Member
Mats Nylén		NGI_SE	Member
Daniele Cesini		EGI-JRA1	Member(chair)

Attending: 24Members – Quorum: 21

¹ Member, Observer, Attendee, Secretarial Support



AGENDA BASHING

No comments to the agenda – one main topic: regionalisation of operational tools.

Discussion will focus on: GOCDB, Ops Portal, Accounting Repository and Portal.

After the coffee break: review and prioritisation of main SAM RT requirements.

Daniele will introduce the discussion with summary slides.

Slides from the TF12 Wednesday Ops Tools workshop attached to the agenda for future reference.

ITEMS OF BUSINESS

- Introduction
- Discussion on regionalization to finalize its roadmap
- Review of main SAM RT requirements
- AOB

Item 1 – Introduction and discussion on regionalisation

Daniele Cesini presents summary slides about the DoW and RT requirements about regionalisation of GOCDB, Accounting Repository and Portal, Ops Portal – slides available on the agenda page.

SAM regionalisation according to the DoW requirements is completed, but new NGIs requirements were raised (not always directly connected to regionalisation) and will be discussed in the second part of the meeting.

GGUS regionalisation is not requested by the DoW for TJRA1.3 but “customisable views” are requested in TJRA1.2. xGUS seems to cover the regionalisation needs of the NGIs that do not have a custom solution for their local ticketing system and will not be discussed during this meeting. A GGUS advisory group was established during a TF12 Friday morning session: new requirements will be discussed there before reaching the OTAG.

An important action from the review outcome is that regionalization should be completed by the end of PY3 in a way that satisfies the DoW requirements (considered still achievable by the EC experts) but also the NGIs needs if compatible with the available effort.

Slides contains also a list of ongoing activities and requirements not directly linked to regionalization. This list will be used to discuss priorities when finalizing the regionalization roadmap.

The updated list of NGIs requesting regionalized versions of the tools is also provided. The list was created in 2011 and updated via email before the TF12.



GOCDDB

Discussion about the porting to MySQL (or DBMS different from Oracle) requested by the DoW and the requirements coming from the regionalization task force which identified possible use cases for the regional GOCDDB (more info and detailed definition available at <https://wiki.egi.eu/wiki/GOCDDB/Release4/Regionalisation>):

- 1) Regional views in the central instance (scoped sites GOCDDB)
- 2) Stand alone regional GOCDDB without synchronization (currently available but based on Oracle)
- 3) Regional GOCDDB synchronizing with the central instance

The porting to different DBMS was considered important by the OTAG, in particular in the case of adoption of the tool by other independent (from EGI) infrastructures. Concerning the other requirements all the NGI attending the meeting considered use case 1 – scoped sites GOCDDB – sufficient to address their needs. The development for scoped sites is already almost completed. It was not possible to investigate the NGI_AEGIS position that originally requested a deployable GOCDDB because not attending the meeting and didn't provided feedback through the mail survey. All other NGIs that requested a regional GOCDDB are satisfied by the scoped sites GOCDDB.

Discussion on which is the best DBMS for the tool – DoW requires MySQL but the OTAG approves the developers suggestion of porting to PostgreSQL.

To complete the porting to PostgreSQL before the end of PY3 it is necessary to prioritize it against other developments (slide6 of the introduction) – the OTAG approves the postponing of glue2.0 rendering as suggested by the developers since this activity is slowing down, waiting for the final definition of the glue2.0 schema. Glue2.0 rendering development is postponed to July 2013.

It is reported by JRA1 that use case 3 – synchronizing GOCDDB – is probably unfeasible by the end of the project given the current level effort available to the PT. Since no NGIs attending the OTAG and participating to the mailing list survey showed interest in this version, this development is suspended and removed from the roadmap.

From the discussion it was raised the need for ipv6 compliance – JRA1 reported that this activity is ongoing and there are no showstopper in adding ipv6-ready fields in the tool db and web interface.

In summary for the regionalization roadmap of the GOCDDB: GOCDDB will support scoped sites to address NGIs regionalization needs. A standalone deployable version will be available and the porting to PostgreSQL for its backend will be completed by the end of PY3 postponing the glue2.0 rendering developments. GOCDDB developments for a synchronizing regional instance is removed from the roadmap since not needed by the NGIs.

Operations Portal

The DoW requirements were analyzed: “provide a standalone deployable instance” is addressed and even superseded by the synchronizing deployable regional package for the tools available since 2010.



The DoW also requests that the central operation portal will be a catch-all instance providing NGI-customised views at a central level.

The regionalization TF requirements were analyzed:

- 1) "The possibility to switch on and off new alarms: as required by an NGI within the ROD scope only. Regional alarms added to the dashboard (RT #2794)."
 - The development for this requirement is almost completed. It is in production for the Polish NGI – will be available for all NGIs by the end of 2012.
- 2) "The integration of local non-EGI sites and services into the dashboard - Manage alarms for non EGI sites in the dashboard (RT #2796)"
 - The development for this requirement exploit the "scoped sites" mechanism provided by the GOCDB. It will be in production by the end of 2012.
- 3) "The direct integration with local helpdesks"
 - This requirements will not be met. A common interface is under study.

Discussion on the effort needed to maintain the regional package of the ops portal. Now that the number of functionalities and modules requested and developed for the tool are increasing, the development team proposes to drop the regionalized version in order to maintain the high level service provided by the central instance. The regional package is currently deployed in 4 NGIs – three of these NGIs reported (via mail survey or directly at the OTAG) that the added value is not that big and their needs could be addressed also by the regional views hosted in the central instance, but RT #2796 (point 2 of the previous list) is required to be addressed.

The decision about dropping the regional package is postponed to 2013 to allow those 4 NGIs to try the new regional views on the central instance (with RT#2796 addressed). In the meanwhile the PT will support both central and region instances.

No other NGIs (attending the OTAG or participating to the mail survey) are interested in a regional deployment of the tool.

In summary the regionalized roadmap for the Ops Portal: DoW requirements are addressed. By the end of 2012 RT#2794 and rt#2796 (coming from the regionalized TF) will be addressed. This will allow NGIs that are currently interested in the regional deployment to test the improved regionalized views in the central instance. The decision about dropping the support to the regional package is postponed waiting for these tests.

Accounting Repository and Portal

The regional accounting repository and portal are requested by the DoW in TJRA1.3, moreover the regional repository is useful for what concerns the scalability of the accounting system. The regionalization TF made almost no requirements to the regional accounting repository, the only one is about "the possibility for a regional portal to publish centrally only data for international VOs keeping private those about national VOs" (RT #2798) which seems to be unfeasible given the current level of effort available to the PT. If it is still required, should be reprioritized when the regional accounting system will be delivered.



The timeline for the regional accounting repository is discussed. The version currently in development requires the new EMI3.0 SSM based APEL sensors to be deployed in production, this means that the regional account repository can go to production after Feb/Apr2013 so probably after the PY3 EC review. SA1 asks if it would be possible to have a regional repository that works with old and new clients and data are consumed by both region and central instances. This proposal is rejected by the development team since it means to develop twice the system. It is discussed if this is an high priority requirements for the NGIs represented at the OTAG compared to the other developments streamlines: local jobs, mpi jobs, storage accounting, cloud accounting. The possibility to stop all other developments and focus only on the regional accounting repository working with old clients is discussed but rejected by the group.

A roadmap is then discussed: a first implementation of the regional repository will be in any case released before the deployment of EMI3.0 APEL clients, the current roadmap foresees this for PQ11, but it's agreed to move it to PQ12. Until the release of EMI3.0 clients this regional instance could be exploited only by external (to APEL) clients, currently available in NGI_IT, NGI_NDGF, and NGI_DE, if needed (some NGIs have their own solution for the repository). In the meanwhile the work currently done to support new types of accounting will continue. Local jobs accounting needs EMI3.0 clients.

SA1 raises the point of accounting of failed jobs that is needed to have more accurate figures of the farm exploitation as requested by the EC experts. Discussion on the definition of failed jobs – infrastructure vs application failures – we need to account jobs that experience infrastructure failures after having run for a while. Discussion if the current usage record can be used or if it needs an extension and new files. The issue will be discussed internally by the PT before being included in the roadmap. (ACTION ON JRA1)

The regionalization of the Accounting Portal does not present any criticalities since the code is the same used for the central instance with few customisations. It will be packaged with the same timeline of the regional accounting repository (PQ12)

In summary the regionalized roadmap for the Accounting System: a first implementation of the regional repository will be released before the deployment of EMI3.0 clients, in PQ12. It could be exploited only by external (to APEL) SSM based clients if needed. The regional accounting portal will be packaged with the same timeline of the regional accounting repository (PQ12)

Regionalization roadmap summary

GOCDDB: GOCDDB will support scoped sites to address NGIs regionalization needs. A standalone deployable version will be available and its porting to PostgreSQL will be completed by the end of PY3 postponing the glue2.0 rendering developments. GOCDDB developments for a synchronizing regional instance is removed from the roadmap since not needed by the NGIs

Ops Portal: DoW are addressed. By the end of 2012 rRT#2794 and RT#2796 coming from the regionalized TF will be addressed. This will allow NGIs that are currently interested in the regional deployment to test the improved regionalized views in the central instance. The decision about dropping the support to regional package is postponed waiting for these tests.



Accounting System: a first implementation of the regional repository will be released before the deployment of EMI3.0 clients, in PQ12. It could be exploited only by external (to APEL) SSM clients if needed. The regional accounting portal will be packaged with the same timeline of the regional accounting repository (PQ12)

SAM: Regionalisation completed. Discussion on new requirements reported in the next section

GGUS: xGUS seems to cover the regionalisation needs of the NGIs that do not have a custom solution for their local ticketing system and was not be discussed during this meeting.

Item 2- SAM Requirements review

Regionalisation requirements from DoW

DoW SAM regionalisation requirements for TJRA1.3 are now addressed. They are:

- 1) The visualization portal MyEGI will provide EGI-specific NGI views.
- 2) MyEGI will be the place to see availability, reliability, service status of NGI resources
- 3) 'GridMap style' TreeMap views will be added, showing both regional and global views of the stored data.

Further requirements

Further requirements were raised in the past and at the regionalization TF. They were reviewed by the group:

- 1) Monitoring local sites and services NOT recorded into the GOCDB (RT#2791)**
 - If the sites are recorded in the gocdb as "scoped sites" they can now be monitored by SAM
 - JRA1 to verify if proper documentation is available for this (ACTION on JRA1)
 - monitoring sites not recorded at all in any GOCDB cannot probably be met by the end of the project given the current level of effort available to the PT. Discussion on the priority given by the NGI to this requirement: the monitoring of sites completely outside GOCDB is rejected in agreement with the NGIs, while is accepted the scoped sites monitoring.
- 2) Adding custom probes to the regional instance (RT#2793)**
 - This requirements is now addressed thanks to the release of the POEM profile manager (SAM-Update17.1, Sept2012)
 - JRA1 to verify if proper documentation exists for this topic (ACTION on JRA1)
- 3) Using different VOs for different services – Multi VO SAM (RT#2792)**
 - This requirements is now addressed thanks to the release of the POEM profile manager (SAM-Update17.1, Sept2012)
 - JRA1 to verify if proper documentation exists for this topic (ACTION on JRA1)
- 4) Moving from gLite-UI to EMI-Nagios and integration of SAM into the UMD release**



- In SAM-Update20 if EMI will release the new probes metapackage in time (foreseen Oct2012)
- 5) **Integration of QCG/MAPPER probes**
 - Available in next Update (SAM-Update19, 18 is internal)
 - 6) **Integration of UNICORE Job and unicore6.StorageFactory**
 - Available in next Update (SAM-Update19)
 - 7) **Glue2.0 and support to multiple endpoints recorded in GOCDB**
 - Multiple endpoint support needed because of the same requirement for the GOCDB
 - Not doable given the current effort level available to the PT
 - Is rejected but a workaround was already identified to allow the GOCDB PT to proceed with the development needed to support multiple service endpoints on their side
 - Effort was estimated in a document that was previously created by the PT: person months: 10, if learning cost needed: 2 months more per person
 - 8) **Extension of the standard OPS site availability profile** (considered part of the handling virtual sites requirements RT#988)
 - The use case is described here: https://wiki.egi.eu/wiki/New_Availability_Reporting
 - This is addressed by POEM released in SAM-Update17.1
 - 9) **NGI Availability reports and EGI.eu availability reports computed centrally for NGI services and tools** (BDII, WMS, LB, SAM, etc..) (considered part of the handling virtual sites requirements RT#988)
 - The use case is described here: https://wiki.egi.eu/wiki/New_Availability_Reporting
 - Not doable given the current effort level available to the PT
 - Is rejected
 - It was already decided to move most of these reports on the **availability module of the Operations Portal**
 - If should be developed by the SAM team the effort was estimated in a document previously created by the PT: person months 16, if learning cost needed: 6 months more per person
 - 10) **Regionalized NGI availability reports** (considered part of the handling virtual sites requirements RT#988).
 - The use case is described here: https://wiki.egi.eu/wiki/New_Availability_Reporting
 - This requirements **implies a regionalized version of ACE** (Availability Computation Engine) possibly ported to MySQL (now is based on Oracle). This development is not in the plans of EGI (ACE is not an EGI product).
 - Not doable given the current effort level available to the PT
 - Is rejected
 - If it should be developed by the SAM team the effort was estimated in a document previously created by the PT: person months 12, if learning cost needed: 6 months more per person
 - Estimation of effort may vary depending on how services will be defined out of GOCDB (if their monitoring is required as presented into the use case definition)



Discussion on prioritization of requirements that were rejected from the previous list:

- 1) Monitoring sites outside GOCDB (point 1 of the previous list) – scoped sites can be monitored
- 2) Regionalized/customized NGI availability calculations and development of a regionalized ACE (point 10 of the previous list)
- 3) NGI and EGI.eu availability reports (point 9 of the previous list) -workaround exists, moved to Ops Portal
- 4) Support for glue2 and multiple services endpoint (point 7 of the previous list) – Workaround exists to allow gocdb development

NGIs attending the meeting unanimously agreed that the most important and useful requirement from the rejected list is the regionalized availability calculations one. NGI_PL, NGI_IT, NGI_CH and NGI_UK stressed its importance. As discussed previously the implementation of this requirements implies the regionalization of the ACE system that is currently outside the JRA1 mandate. How to support this development should be investigated in the future in collaboration with the project management. SA1 suggested the idea of moving SAM to an open project, allowing external contributions to the development: will be investigated.

Summary of actions opened during the meeting

- 1) JRA1 to verify if proper documentation is available about monitoring GOCDB scoped sites
- 2) JRA1 to discuss internally how to implement the accounting of failed jobs
- 3) JRA1 to verify if proper documentation exists for adding custom probes to SAM
- 4) JRA1 to verify if proper documentation exists for configuring a multiVO SAM

Item 3 – Open Actions Review

Actions not discussed. In the following table the open actions from the previous meetings are reported.

01/08	SAM	Documentation will be provided for the migration to EMI-UI (fresh installation needed). We had a meeting with EMI guys yesterday. They deployed a box on which they will put EMI probes metapackage. They will provide documentation for that part. Afterwards we will provide configuration/documentation for the SAM side. EMI UI will not be used, this was agreed in Lyon
01/10	DC	Harmonize GGUS requirements workflow (OTAG and USAG) Not done yet see previous comment on 01/02
01/12	JRA1	info on last status registered needed : input from other NGIs requested



please cf https://gus.fzk.de/ws/ticket_info.php?ticket=66851

About myEGI action legend and action legend timestamp – also tracked in an rt (1830 – in the wrong queue) – NGI_FR is verifying if it's still a valid requirement – leave open Helene is checking

01/13	JRA1	JRA1 to verify if proper documentation is available about monitoring GOCDB scoped sites
02/13	JRA1	JRA1 to discuss internally how to implement the accounting of failed jobs
03/13	JRA1	JRA1 to verify if proper documentation exists for adding custom probes to SAM
04/13	JRA1	JRA1 to verify if proper documentation exists for configuring a multiVO SAM

AOB

No AOB discussed

Date for Next Meeting

Not discussed, doodle will be circulated.

Minutes prepared by: Daniele Cesini

Group Chair:

Daniele Cesini

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