# Continuous activities

The following permanent activities will be continued during 2011:

1. Coordination of deployment of operations tools will be continued in 2011. The coordination is crucial for tools which depend on each other functionalities and interfaces.

2. All operations tools central and regional instances will be upgraded according to respective release plans. In case of messaging infrastructure minor upgrades of ActiveMQ version 5 are planned.

3. During the 2011 deployment of regionalized versions of operations tools will be continued and the activity will be closely tracked. The following tools will provide first regionalized versions:

* Accounting portal and accounting repository
* GOCDB will provide first version based on MySQL database

Deadlines for these releases will be defined in JRA1 roadmap. Details on NGI’s deployment plans are documented on wiki page: https://wiki.egi.eu/wiki/Operations\_tools\_deployment\_plans.

# Planned activities

The following activities will be finalized during 2011:

1. Migration from gridops.org domain to egi.eu domain. Majority of addresses have already been migrated and dynamic DNS load balancing has been put in place. The remaining ones require changes in other operations tools (e.g. GOCDB PI address). This activity will be finalized by the end of March 2011.

2. Definition of operations procedures relevant for operations tools. The following are currently being defined: announcing central operations tools unavailability (<https://rt.egi.eu/rt/Ticket/Display.html?id=537>), adding new tests to SAM instances and adding new tests for site’s availability and reliability calculations. This activity will be finalized by April 2011.

3. Monitoring of operations tools will be further developed. The specific Nagios instance for monitoring operations tools is deployed at CERN: <https://ops-monitor.cern.ch/nagios/>. Currently three tools are monitored: SAM/Nagios instances, ActiveMQ brokers and subset of functionalities of GOCDB programmatic interface (PI). Development of probes for other tools already started. Development can be followed through EGI RT ticket: https://rt.egi.eu/rt/Ticket/Display.html?id=79. In the first quarter of 2011 we expect to have probes for remaining operations tools. The deadline depends on JRA1 plans of individual tools.

4. Operations tools availability should be calculated and monthly league tables should be provided. This functionality needs to be developed within availability calculation framework (GridView/ACE). Discussion with the team will start in first quarter of 2011. Actual implementation will depend on the ACE team roadmap and outcome of the discussion.

5. Operations tools need to be implemented in high available manner. Current status and plans for individual tools are:

* Operations portal achieves high availability by using HA components: web and MySQL cluster. In addition backup of configurations is kept in SVN repository.
* GGUS uses Oracle database cluster and further improvements in failover are planned in 2011 (see SA1.5 plans).
* GOCDB plans to reestablish failover instance at Fraunhofer institute in Germany in first half of 2011. Failover is performed manually by using dynamic DNS updates.
* SAM team will provide release with support for deploying failover instance in the first quarter of 2011. This feature will enable NGIs to deploy additional “hot standby” SAM/Nagios instance which can take over monitoring in case of failure of primary instance. Failover will require manual steps by administrators.

Once HA solutions are installed proactive testing will be performed (e.g. shutting down the primary instance) in coordination with global service providers.

6. The current production ActiveMQ broker network does not provide authorization for specific topics or queues. Various security mechanism schemes will be investigated and implemented in order to assure secure and reliable transport of data over messaging infrastructure. In addition access to administrative interfaces of ActiveMQ brokers will be further limited to administrative staff and others will be provided with read only access. This work will be done in coordination with EMI messaging team. First implementations are expected in first half of 2011.

7. Installation and configuration of brokers in the current ActiveMQ network requires manual tuning. Mechanisms for automating maintenance will be deployed in first half of 2011.

8. The old CIC portal (cic.egi.eu) will be decommissioned between April and June 2011. The main remaining functionalities which need to be migrated to Operations Portal are broadcast and VO ID cards.

9. The development of Integrated Operations Portal will start after decommission of the old CIC portal and finalization of Operations Portal. Releases of Integrated Operations Portal will be deployed according to the development and release plans.

10. Central MyEGI instance which provides access to data from all NGIs will be deployed at CERN. In addition SAM team will provide specific version of SAM which will enable easy installation of such central MyEGI instance. This activity will be finalized by February 2011.

11. Monitoring of sites is performed by using OPS virtual organization. At the end of 2010 it was agreed that CERN will continue running the VOMRS service and that the management of VO will be transferred to EGI. Scheme with group and manager per NGI, equivalent to dteam VO, will be implemented. This activity will be finalized by March 2011.