

TIMEPLAN for migration of SAM services to CNRS, GRNET and SRCE

[AP1] (by beg. of January) Setup of SAM central testing instance at CNRS following <https://tomtools.cern.ch/confluence/display/SAMDOC/SAM-Gridmon+Administrator+Guide>
Document all issues faced to have a ready to go installation guide for the production instance.
Announce this timeplan to the EGI OMB.

[AP2] (by end of January) Finalize validation of the of the SAM central testing instances focusing on throughput and workload. CNRS test instance will connect either to Croatia or Greece broker. Decommission the testing instance at CNRS. Setup production SAM central instance (if possible, if delayed then setup postponed to AP3, see Risk 2.1).
At the same time decommission SAM nightly validation infrastructure and other applications using the validation broker (like OSG preprod) - only the production broker network should be used from now on.

[Risk 2.1] Delaying setup of testing instance automatically delays the entire process and we risk missing the EGI OPS deadline to establish production instance at the beg. of February. If the delay grows to 4 weeks, we won't be able to meet even the second deadline (beg. of March).
[Workaround 2.1] If we're unable to meet beg. of March deadline, the only possible workaround is to migrate history of the Oracle DB. This requires advance planning and is quite complex task. We should therefore avoid this at all cost and do everything possible to have testing instance by beg. of January.

[AP3] (by end of February) Setup and test operations of the production level SAM central instance at CNRS. If needed, organize training session on how to operate SAM central instance (focused on monitoring and debugging possible problems, setup of alarms and procedures to act on alarms, generation of reports, performing recomputations, etc.).
At the same time, compare and validate availability results between CERN and CNRS instances (both connected to the same PROD network but to different brokers).
Ensure regions are no longer using CERN WMS to execute SAM tests - inform regions that still use CERN WMS that it will be decommissioned in April.

[Risk 3.1] Stable operations of the broker network with two SAM central instances connected to different brokers is needed - this hasn't been tested before and might require additional tuning (related document for EGI Network of Brokers migration [1])
[Workaround 3.1] Re-connect CNRS and CERN to the same broker and resolve any possible issues with the network of brokers ASAP.

[AP4] (by end of March) Setup ops-monitor instance at SRCE and connect it to the production level SAM central instance running at CNRS.
At the same time establish 3rd line SAM/EGI support unit in GGUS (needs to be announced in advance to match GGUS release schedule), migrate documentation and JIRA, decommission

preproduction SAM central instance (grid-monitoring-preprod OPS-part only) and ops-monitor-preprod instance at CERN.

[AP5] (by end of April) Compare ops-monitor results between CNRS and CERN and prepare to transfer all aliases to the CNRS/SRCE setup (this includes grid-monitoring.egi.eu). Inform TPM and SAM EGI 2nd level support to route all OPS related tickets to 3rd line SAM/EGI SU. Modify SAM recomputation policy and announce it at the EGI OMB (to make sure tickets are routed to SAM/EGI 3rd line from 1st of May). Move grid-monitoring alias to CNRS/SRCE.

[Risk 5.1] As grid-monitoring, gridops and ops-monitor were hosted at CERN since the beginning, it's very likely that those entries will be hardcoded in some of the clients. At the same time, we can't simply forward grid-monitoring and gridops to another host, as they will continue to be used by WLCG.

[Workaround 5.1] We will establish an alias mon.egi.eu and instruct all EGI regions to change their configuration (we will also add this to UP-22 release notes to make sure regions that will install UP-22 will get the correct configuration).

[AP6] (beg. of May) Decommission SAM central instance (grid-monitoring OPS-part only) at CERN and ops-monitor. In particular this means disabling OPS consumers and closing access to internal APIs for ATP and POEM from outside of CERN on the SAM central instance as well as shutting down ops-monitor.cern.ch. The alias grid-monitoring will keep working and providing interfaces to WLCG.

Points to consider:

- POEM namespace is now ch.cern.sam and needs to be kept as otherwise clients won't be able to synchronize metrics. Migration is possible, but requires moving all clients to the new namespace (implies losing local history on NGI instances).

REFERENCES

[1]https://docs.google.com/document/d/1FbKJ0D4bf7SSbHA6MH56dst_T3K5fX11kYDhpaqymaA/edit