



Enabling Grids for E-scienceE

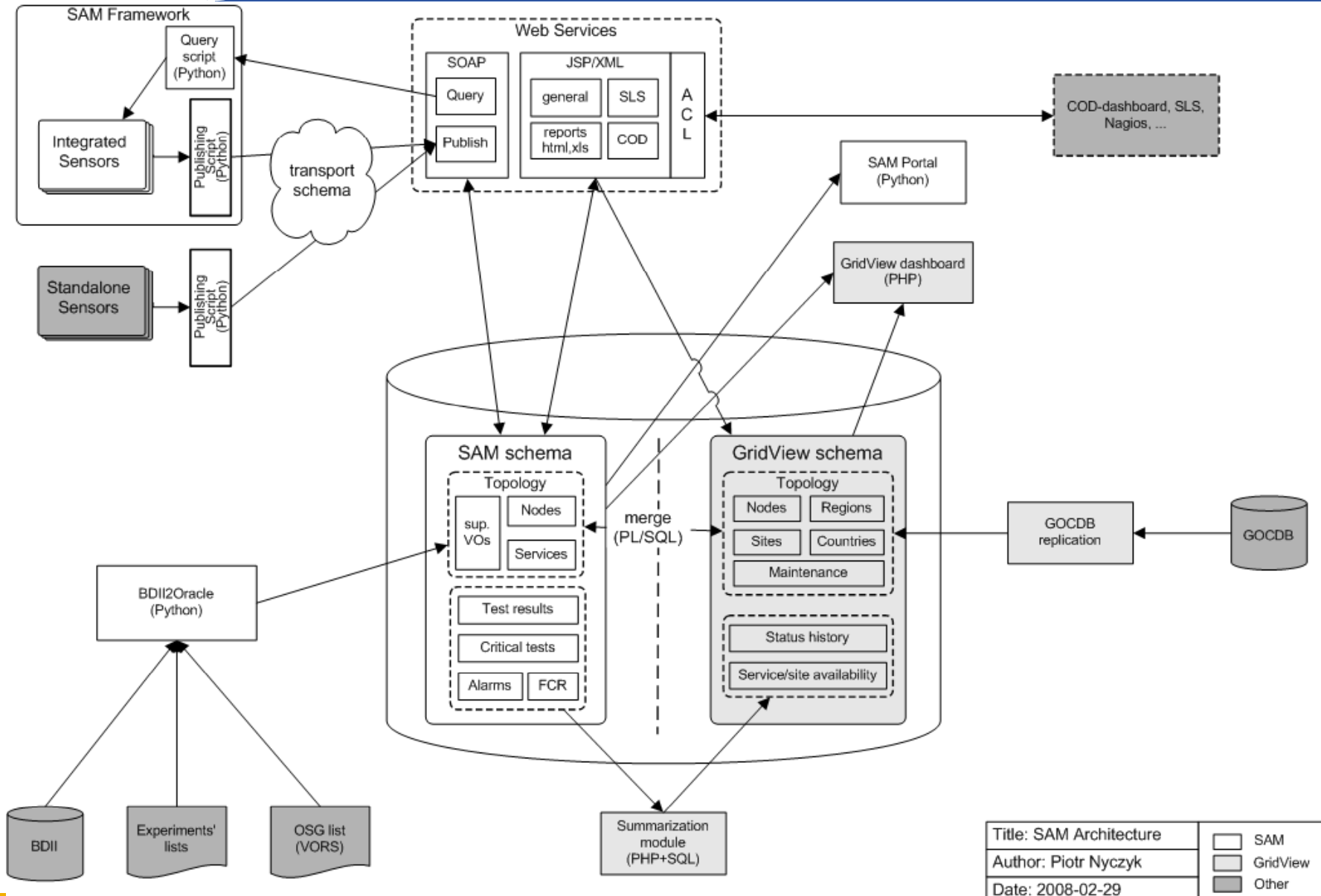
SAM - current status and plans

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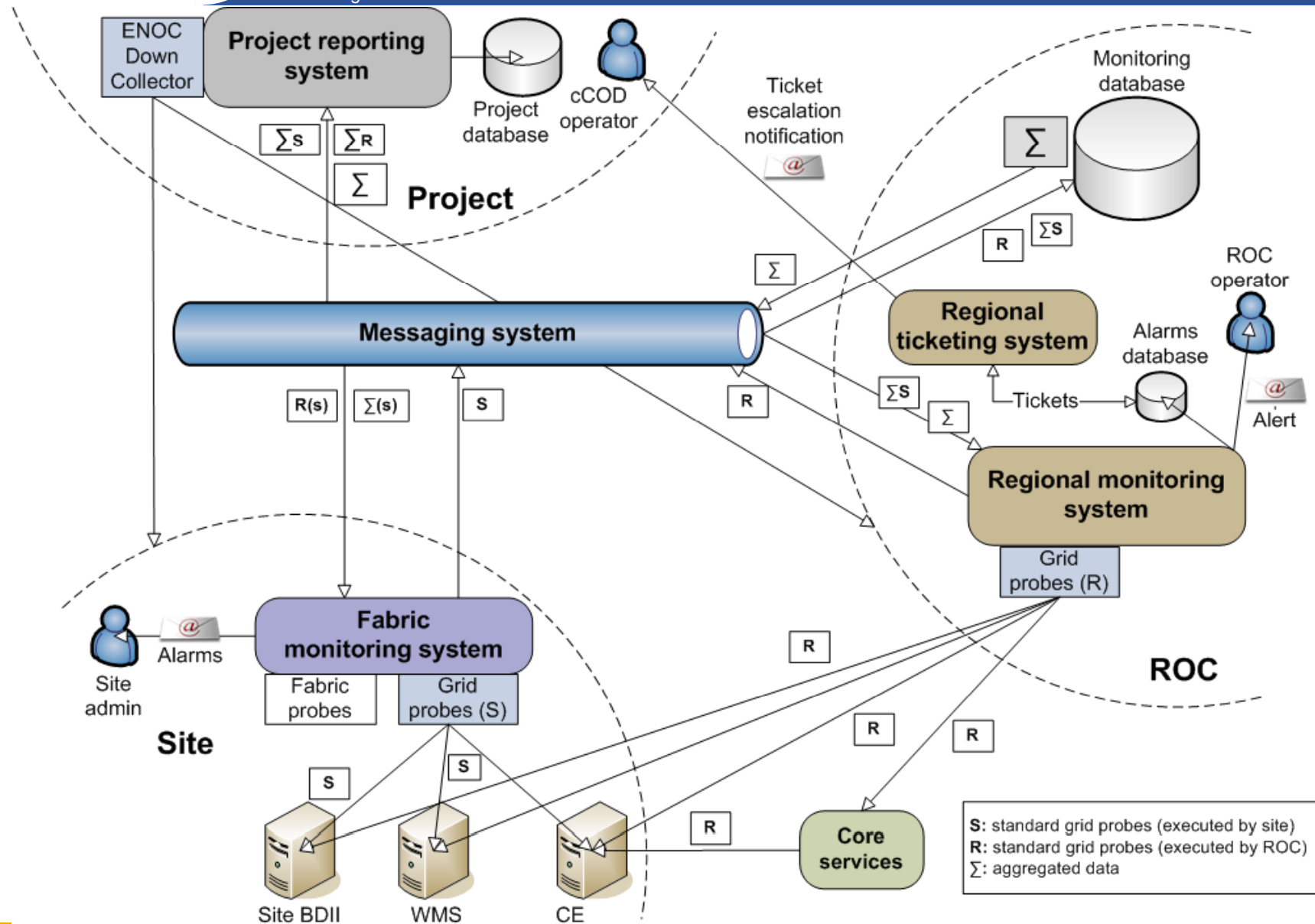


- **Current status**
- **Plans**



Title: SAM Architecture	SAM
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Date: 2008-02-29	Other

- **scalability limitations (centralised monitoring model)**
- **any SAM outage negatively impacts site availability statistics**
 - relies on a large central infra (UIs, RBs for submission; large high-end Oracle DB)
 - publishing service – SPOF
- **tests granularity is too low (for rapid problem notification and precise availability figures)**
- **“misuse” for VO specific configuration testing (rather than for healthiness and usability of services)**
 - “overload” of sensors (eg. CE sensor)
 - overload of test reporting components
 - ... due to lack of proper configuration management framework



- **SAM components**
 - Database
 - topology (local cache), probes definitions
 - tests raw data (historical; full results + state changes only (for some tests)), availability data
 - Interface DB to/from MSG - consumers / producers
 - Probes
 - **S** – standard grid probes (executed by site)
 - **R** – regional grid probes (executed by ROC)
- **SAM execution framework (as it is now) disappears. Instead:**
 - Site: Fabric Monitoring System to launch Grid Probes (**S**)
 - Region: Regional Monitoring System to launch Grid Probes (**R**)
 - Project: no tests submitted by c-COD
- **No alarms generation from SAM**

- **Alarms BD**
 - generation
 - alarm masking mechanism
 - weighing of alarms
- **Alarms interface** <http://lcg-sam.cern.ch/alarms>
 - update http://lcg-sam.cern.ch/alarms/update_alarm.xsql
 - masking http://lcg-sam.cern.ch/alarms/mask_alarm.xsql

- **Improvements in the interactions between SAM alarms mechanism and COD dashboard**
 - ***short term***
 - COD
 - *Obtain requirements from CODs*
 - SAM
 - *define masking for tests from SRMv2 sensor*
 - ***long term***
 - SAM
 - *Fase out alarms generation from SAM and move it to ROC monitoring based on probes results*