eGee

SEE Monitoring Service

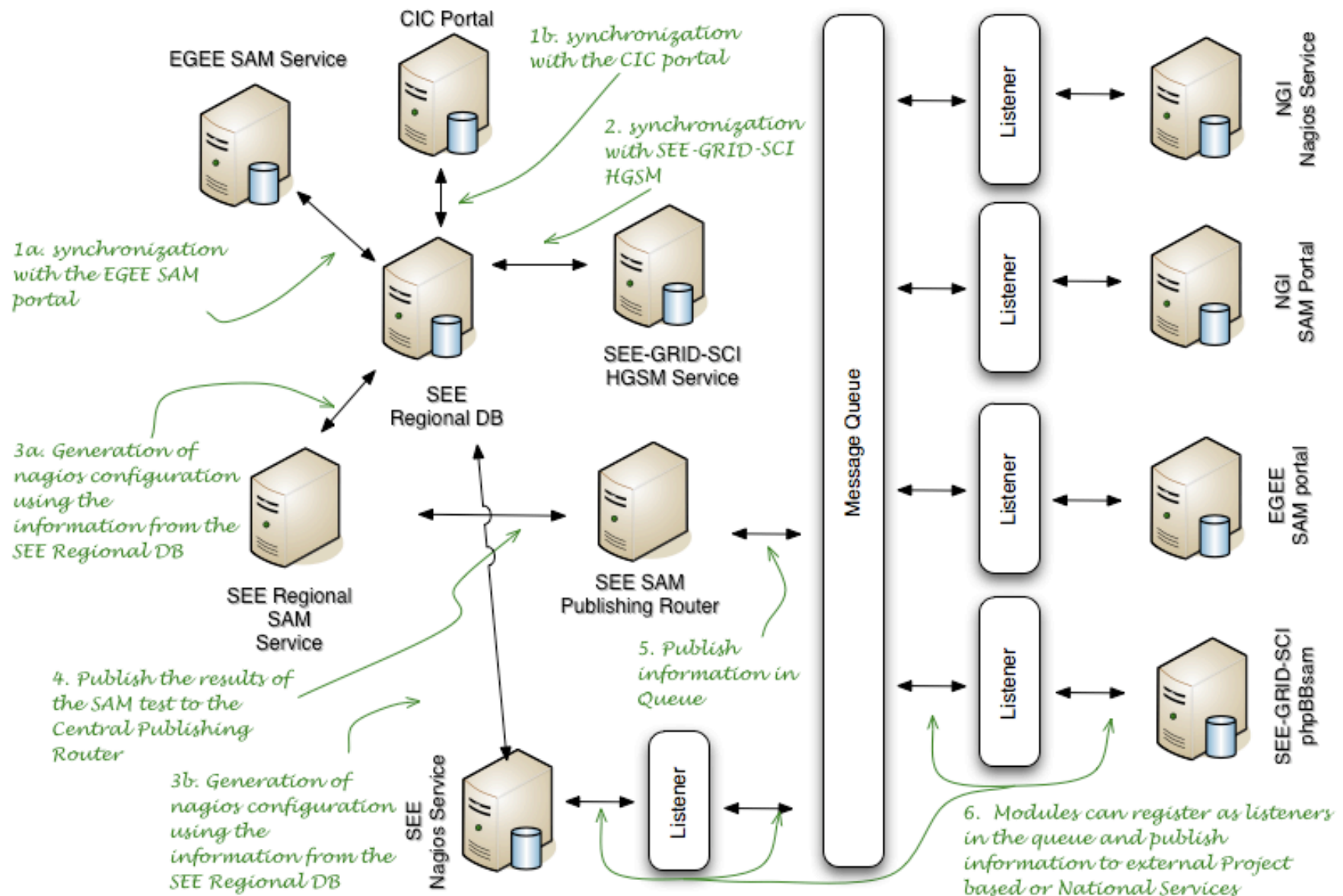*C. Triantafyllidis*

C. Kanellopoulos

www.eu-egee.org

e-infrastructure

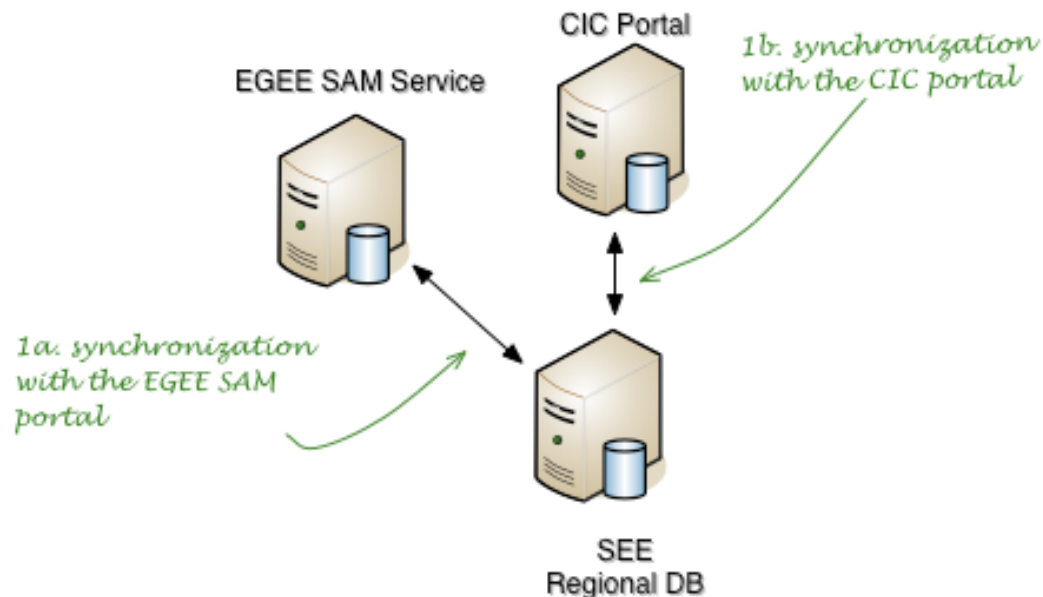**Enabling Grids for E-sciencE**

- **Drop-in replacement of the existing monitoring system (no need to modify existing SAM tests or the end points)**

- **Robust and scalable solution**

- **Monitoring results should have the ability to be consumed by multiple services**

- **Align with the new rCOD model and the transition to the EGI**

EGEE SAM Service

CIC Portal

1b. synchronization with the CIC portal

2. synchronization with SEE-GRID-SCI HGSM

1a. synchronization with the EGEE SAM portal

SEE-GRID-SCI HGSM Service

SEE Regional DB

3a. Generation of nagios configuration using the information from the SEE Regional DB

SEE Regional SAM Service

SEE SAM Publishing Router

4. Publish the results of the SAM test to the Central Publishing Router

5. Publish information in Queue

3b. Generation of nagios configuration using the information from the SEE Regional DB

SEE Nagios Service

Listener

Message Queue

Listener

Listener

Listener

Listener

NGI Nagios Service

NGI SAM Portal

EGEE SAM portal

SEE-GRID-SCI phpBBsam

6. Modules can register as listeners in the queue and publish information to external Project based or National Services
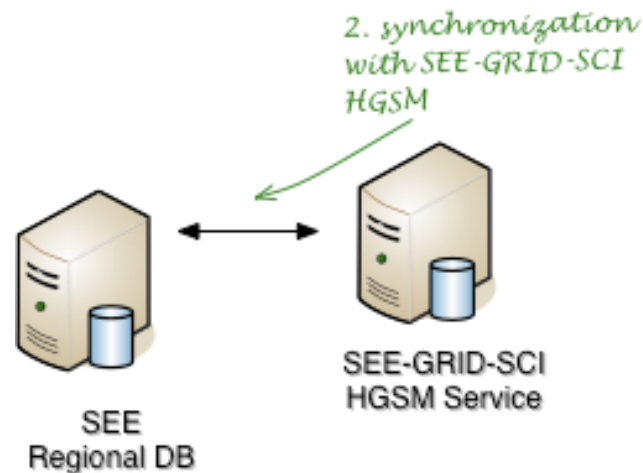
- **SEE Regional DB**
- **SEE Regional SAM Service**
- **SEE SAM Publishing Router**
- **SEE Message Queue**
- **SEE Nagios Service**
- **Existing SAM Portal**

- **A site in SEE can belong to either/both EGEE-SEE SEE-GRID Infrastructures**
  - Site information is registered to GOCDB (EGEE) and to HGSM (SEE-GRID)
- **Need to have a single authoritative point of information regarding all the sites in the region. Can be consumed by multiple services**
- **SEE Regional DB aggregates the information found in the EGEE and SEE-GRID databases in order to provide one coherent view of the regional infrastructure**

- **EGEE site information is registered in the GOCDB**
- **No external API to access the GOCDB data**
- **We retrieve the information from intermediate sources:**
  - EGEE SAM portal (using the SOAP interface of the SAM portal)
  - CIC Portal (using the RSS feed functionality of the CIC portal)

- **SEE-GRID Site information is registered in the HGSM**
- **We retrieve the information from the HGSM XML interface**
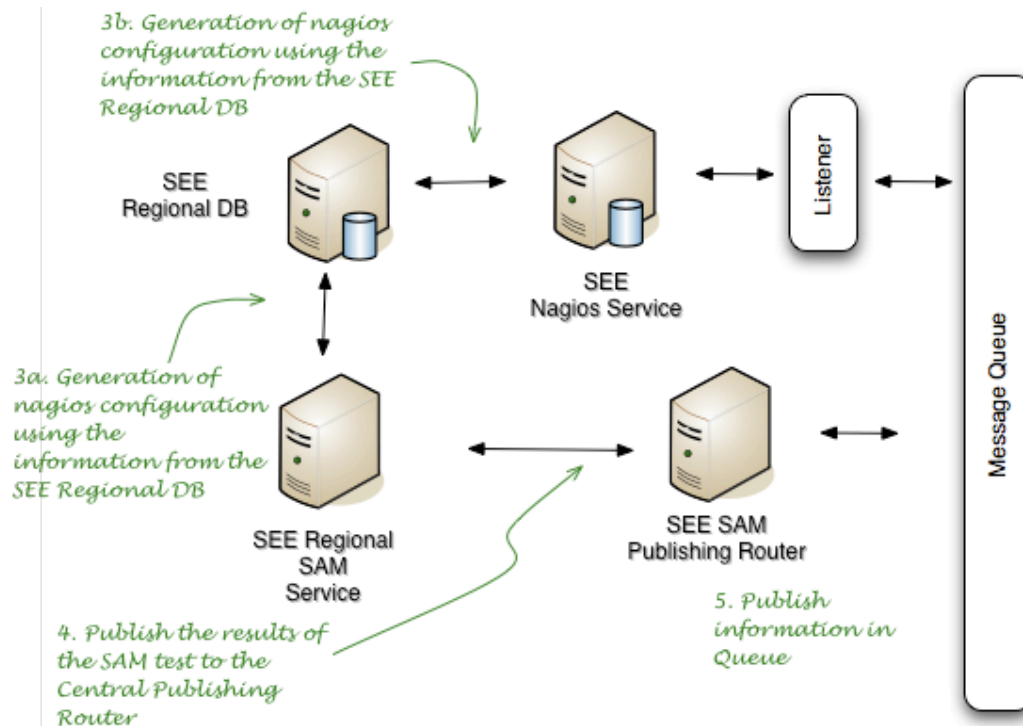
Enabling Grids for E-sciencE

- **SOAP Interface (for the SAM tests)**
- **REST Interface (for the services such as Nagios, Pakiti etc)**

- **The SAM tests run from a standalone server**
- **Currently using the existing SAM suite**
  - Fixed bug when using FQDN VOs (Savannah #43918)
  - Added configuration option to use local SE
  - Patched the code in order to use WMS instead of RB
- **SAM retrieve all necessary information from the SEE Regional DB**
- **Multiple SAM services could exist in order to distribute the load of executing SAM tests**
  - Following the NGI model, the SAM Service can be operated at the national level
- **SEE SAM results are published to the SEE SAM Publishing Router**

- **The SAM test results are published to the SEE SAM Publishing Router SOAP interface**

- **The S.S.P.R. submits the results to the Messaging Queue (it can be multiple queues if needed)**

- **The SEE Message Queue (ActiveMQ) runs as a standalone service**

- **Multiple services can be registered in order to publish and retrieve information to and from the message queue**
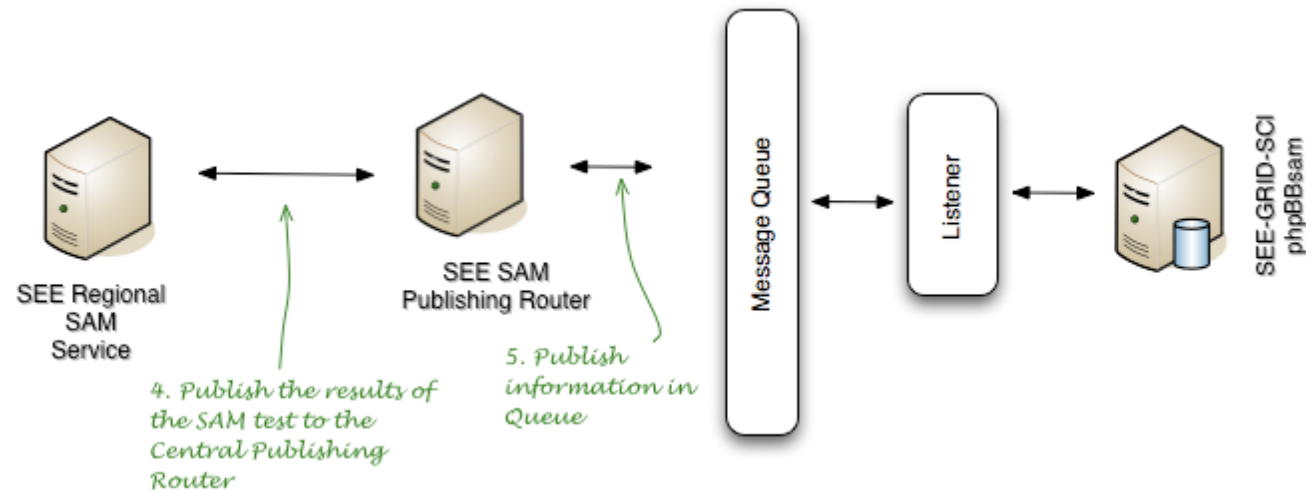
eGee

- **Creates configuration based on the information retrieved from the SEE Regional DB**
- **Tests are "Active and Passive Probes"**
- **Currently testing 4003 services on 256 hosts (80 sites)**

3b. Generation of nagios configuration using the information from the SEE Regional DB

SEE Regional DB

SEE Nagios Service

Listener

Message Queue

3a. Generation of nagios configuration using the information from the SEE Regional DB

SEE Regional SAM Service

SEE SAM Publishing Router

4. Publish the results of the SAM test to the Central Publishing Router

5. Publish information in Queue

- **ch.cern.LFC-Read**
- **ch.cern.LFC-Readdir**
- **ch.cern.LFC-ReadDli**
- **ch.cern.LFC-Write**
- **ch.cern.RGMA-ServiceStatus**
- **hr.srce.CAdist-Version**
- **hr.srce.GRAM-Auth**
- **hr.srce.GRAM-CertLifetime**
- **hr.srce.GRAM-Command**
- **hr.srce.GridFTP-Transfer**
- **hr.srce.MyProxy-CertLifetime**
- **hr.srce.MyProxy-Store**
- **hr.srce.WMProxy-CertLifetime**
- **hr.srce.WMProxy-RunJob**
- **org.nagios.BDII-Check**
- **org.nagios.GridFTP-Check**
- **org.nagios.GridICE-Check**
- **org.nagios.gsissh-Check**

- **org.nagios.gsissh-Check**
- **org.nagios.LocalLogger-PortCheck**
- **org.nagios.MDS-Check**
- **org.nagios.Tomcat-Check**
- **org.nagios.WMProxy-PortCheck**

- gr.auth.grid.SEE_SAM-CE-sft-brokerinfo
- gr.auth.grid.SEE_SAM-CE-sft-caver
- gr.auth.grid.SEE_SAM-CE-sft-crl
- gr.auth.grid.SEE_SAM-CE-sft-csh
- gr.auth.grid.SEE_SAM-CE-sft-infosites
- gr.auth.grid.SEE_SAM-CE-sft-job
- gr.auth.grid.SEE_SAM-CE-sft-lcg-rm
- gr.auth.grid.SEE_SAM-CE-sft-lcg-rm-cp
- gr.auth.grid.SEE_SAM-CE-sft-lcg-rm-cr
- gr.auth.grid.SEE_SAM-CE-sft-lcg-rm-del
- gr.auth.grid.SEE_SAM-CE-sft-lcg-rm-free
- gr.auth.grid.SEE_SAM-CE-sft-lcg-rm-gfal
- gr.auth.grid.SEE_SAM-CE-sft-lcg-rm-rep
- gr.auth.grid.SEE_SAM-CE-sft-posix
- gr.auth.grid.SEE_SAM-CE-sft-rgma
- gr.auth.grid.SEE_SAM-CE-sft-softver
- gr.auth.grid.SEE_SAM-CE-sft-vo-swdir
- gr.auth.grid.SEE_SAM-CE-sft-vo-tag
- gr.auth.grid.SEE_SAM-CE-sft-wn
- gr.auth.grid.SEE_SAM-CE-wn-sec-crl
- gr.auth.grid.SEE_SAM-CE-wn-sec-fp
- gr.auth.grid.SEE_SAM-gRB-sft-cancel
- gr.auth.grid.SEE_SAM-gRB-sft-listmatch
- gr.auth.grid.SEE_SAM-gRB-sft-submit
- gr.auth.grid.SEE_SAM-LFC_C-ls
- gr.auth.grid.SEE_SAM-LFC_C-ping

- gr.auth.grid.SEE_SAM-LFC_C-writefile
- gr.auth.grid.SEE_SAM-LFC_L-ls
- gr.auth.grid.SEE_SAM-LFC_L-ping
- gr.auth.grid.SEE_SAM-LFC-ls
- gr.auth.grid.SEE_SAM-LFC_L-writefile
- gr.auth.grid.SEE_SAM-LFC-ping
- gr.auth.grid.SEE_SAM-LFC-writefile
- gr.auth.grid.SEE_SAM-RB-sft-cancel
- gr.auth.grid.SEE_SAM-RB-sft-listmatch
- gr.auth.grid.SEE_SAM-RB-sft-submit
- gr.auth.grid.SEE_SAM-SE-lcg-cp
- gr.auth.grid.SEE_SAM-SE-lcg-cr
- gr.auth.grid.SEE_SAM-SE-lcg-del
- gr.auth.grid.SEE_SAM-SRM-advisory-delete
- gr.auth.grid.SEE_SAM-SRM-get
- gr.auth.grid.SEE_SAM-SRM-put
- gr.auth.grid.SEE_SAM-SRMv1-del
- gr.auth.grid.SEE_SAM-SRMv1-get
- gr.auth.grid.SEE_SAM-SRMv1-get-SURLs
- gr.auth.grid.SEE_SAM-SRMv1-gt
- gr.auth.grid.SEE_SAM-SRMv1-ls
- gr.auth.grid.SEE_SAM-SRMv1-ls-dir
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- gr.auth.grid.SEE_SAM-SRMv2-del
- gr.auth.grid.SEE_SAM-SRMv2-get
- gr.auth.grid.SEE_SAM-SRMv2-get-SURLs

- gr.auth.grid.SEE_SAM-SRMv2-gt
- gr.auth.grid.SEE_SAM-SRMv2-ls
- gr.auth.grid.SEE_SAM-SRMv2-ls-dir
- gr.auth.grid.SEE_SAM-SRMv2-put

- **SLA monitoring in SEE-GRID is done by the bbSAM portal**

Thank you