

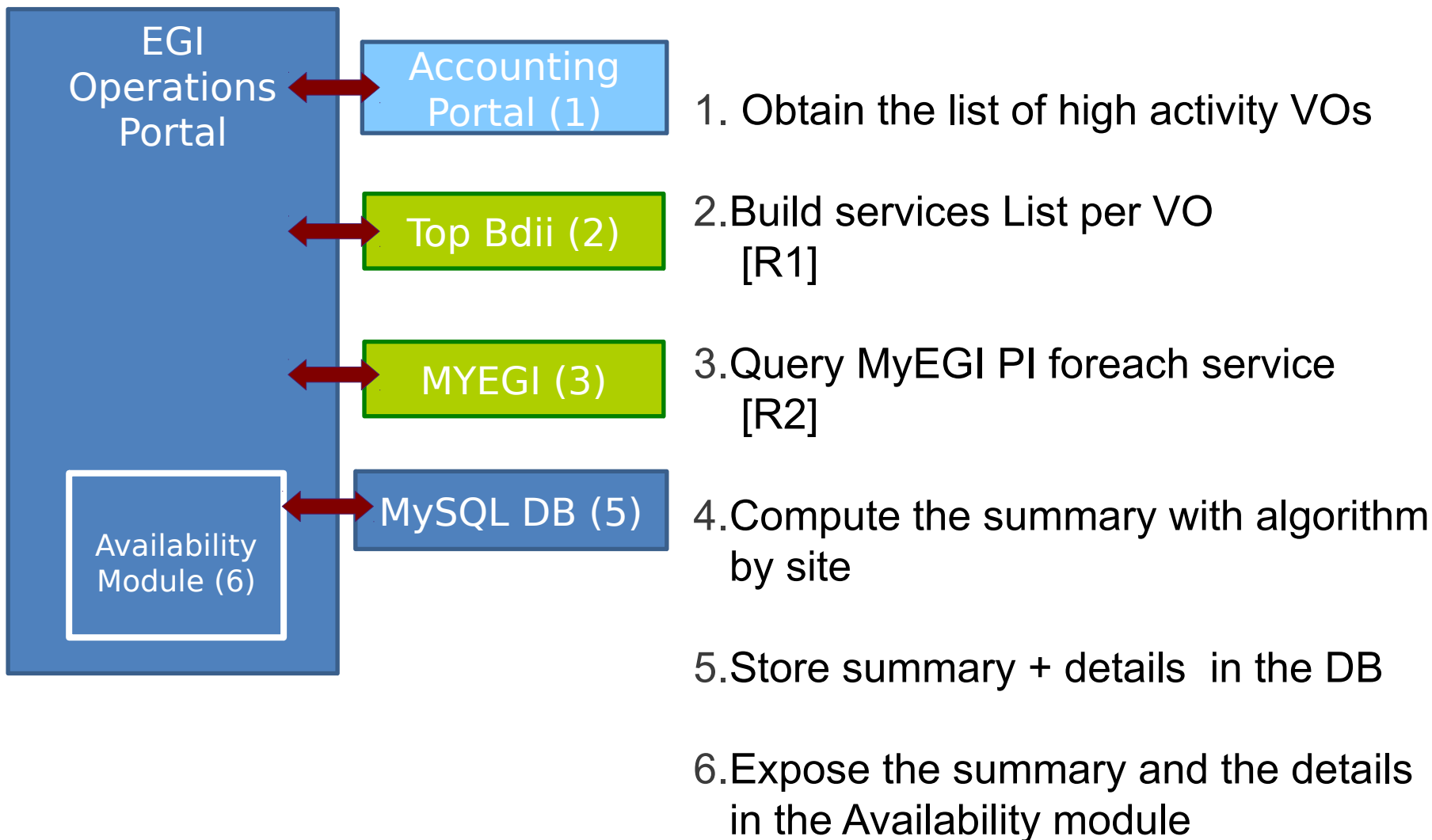
“VO monthly A/R statistics”



Requirement description

Study the feasibility of an A/R reporting system in the operations portal according the following guidelines:

- VO specific A/R reports are generated monthly, using the OPS VO (yes, this is a limitation, but we cannot rely on the existing of a VO SAM instance)
- Only reports for "high activity" VOs are generated. With high activity we can follow the definition of the accounting portal, i.e. high activity week if
CPU time consumed > 1 year/week
CPU time consumed/month > 4 year/week => needs info from accounting portal
- the list of service end points supporting VO x needs to be extracted from top-BDII (e.g. WMS, LFC, DPM, CE....) => not easy to extract properly
- availability results are summarized on hourly, daily, weekly and monthly basis as we do for top-BDII => needs to reinforce the system
- the A/R calculation algorithm needs to be exactly defined, but it could be something like that:(OR CEs) AND (OR DPMs) AND (OR LFCs) AND (OR WMS)



[R1] Example of query to retrieve the list of services per VO

```
ldapsearch -LLL -x -h cclcgtopbdii01.in2p3.fr:2170 -b  
"o=grid"  
"GlueServiceAccessControlRule=$voname"  
GlueServiceUniqueID
```

[R2] Example of query to MyEGI PI for the service A/R

```
http://grid-monitoring.cern.ch/myegi/sam-pi/service_availability_in_profile?  
vo_name=ops&profile_name=ROC&type=HOURLY&service_flavour=$service  
&start_time=$start_time&end_time=$end_time  
&service_hostname=$host
```

Obtain the list of high activity Vos
=> to be discussed with Accounting Portal

Build services List per VO [R1]
=> We need to identify if the method is working for all services.
Check if the service type declared in Bdii could be associated to the service flavour in myEGI.

Query MyEGI PI foreach service [R2]
=> Could be a problem to query with a high frequency the PI
The list of service for a VO in a site could be long. To be discussed with SAM team

Compute the summary with algorithm by site
Store summary + details in the DB
=> the system should be redesigned . The solution for Top-BDII is sufficient but I see some limitations with a huge volume of data. This part is critical .

Expose the summary and the details in the Availability module
=> No problem