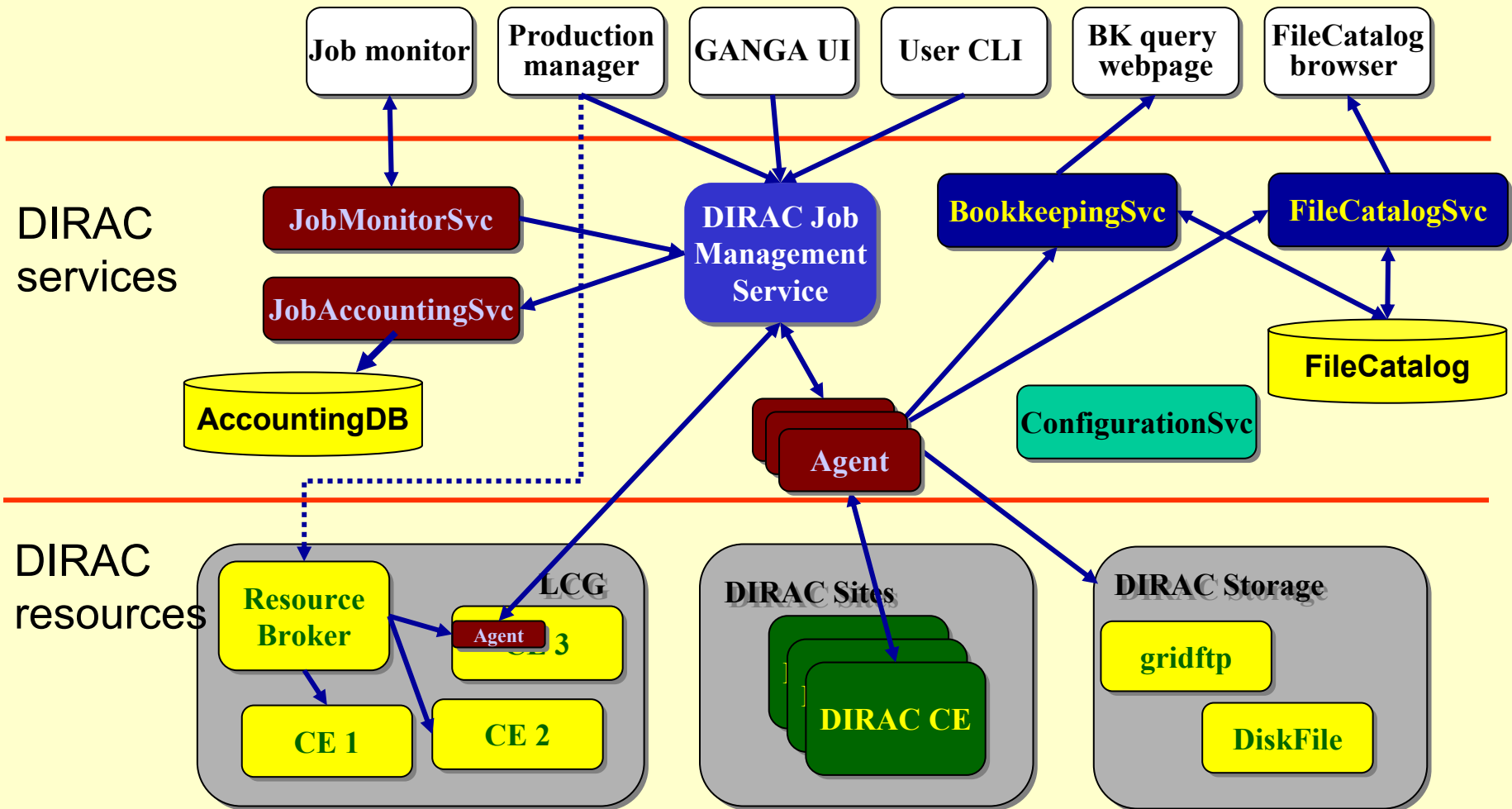


DIRAC Services and Resources



Computing Element

- ◆ CE is a uniform and single entry point to computing resources
 - ✦ Both for remote and local agents
- ◆ CE as a service should provide interfaces for both job manipulation and for access to the status information of the resource
- ◆ CE is a heavy duty service providing access for multiple workload management systems of multiple VO's

Job Manipulation

- ◆ CE job management (pseudo-)interface:
 - ✦ SubmitJob() returns local jobID;
 - ✦ KillJob(jobID)
 - ✦ GetJobStatus(jobID)
- ◆ Jobs are authenticated/authorized at the entry to CE
- ◆ Jobs identity can be changed while execution
 - ✦ To support “pilot agents pulling real jobs” paradigm

Resource status information

- ◆ CE should provide enough status information for WMS to take job scheduling decision
 - ✦ Static information
 - TotalCPUs, VO quota, Time limits
 - ✦ Dynamic information
 - Total(Running,Queued)Jobs
 - Total(Running,Queued)Jobs for a given VO
- ◆ Resource usage accounting
 - ✦ Via service interface. CE should not push this information but rather serve to incoming request