



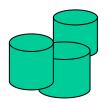
User Interface (UI): The place where users logon to the Grid



Resource Broker (RB): Matches the user requirements with the available resources on the Grid



Computing Element (CE): A batch queue on a farm of computers where the user Job gets executed

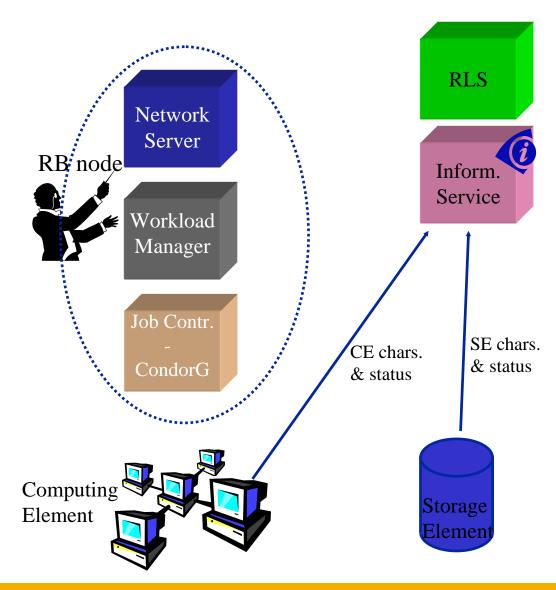


Storage Element (SE): A storage server where Grid files are stored (read/write/copy) or replicated.

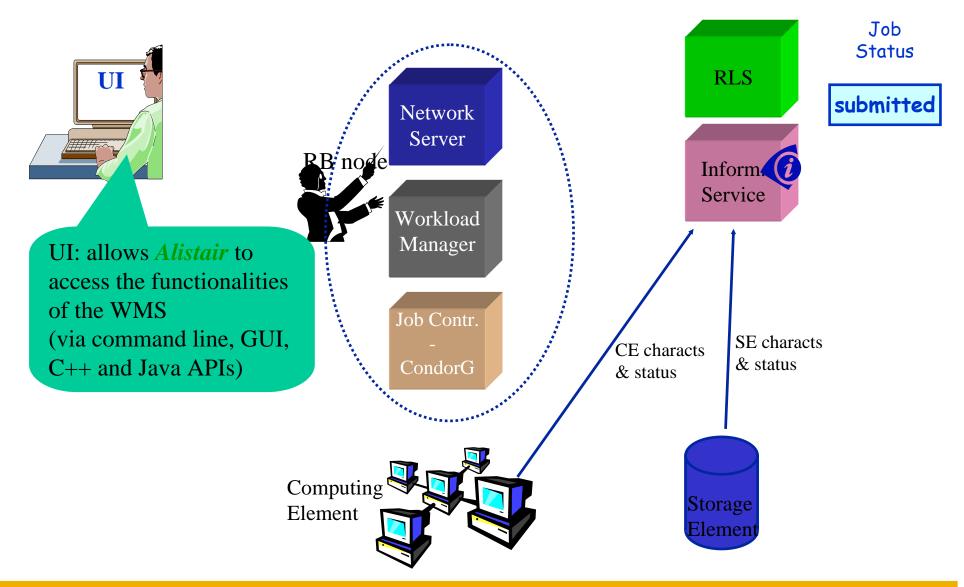


<u>Catalogues(MDS/RLS)</u>: A storage server where Grid files are stored (read/write/copy) or replicated.

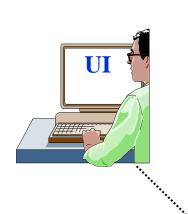


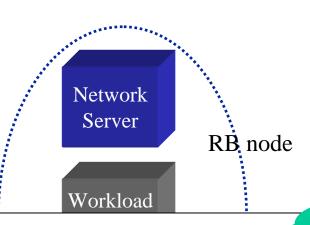












RLS

Job Status

submitted

Inform. i

edg-job-submit myjob.jdl

Myjob.jdl

JobType = "Normal";

Executable = "\$(CMS)/exe/sum.exe";

InputSandbox = {"/home/user/WP1testC", "/home/file*", "/home/user/DATA/*"};

OutputSandbox = {"sim.err", "test.out", "sim.log"};

Requirements = other. GlueHostOperatingSystemName == "linux" &&

other. GlueHostOperatingSystemRelease == "Red Hat 6.2" &&

other.GlueCEPolicyMaxWallClockTime > 10000;

Rank = other.GlueCEStateFreeCPUs;

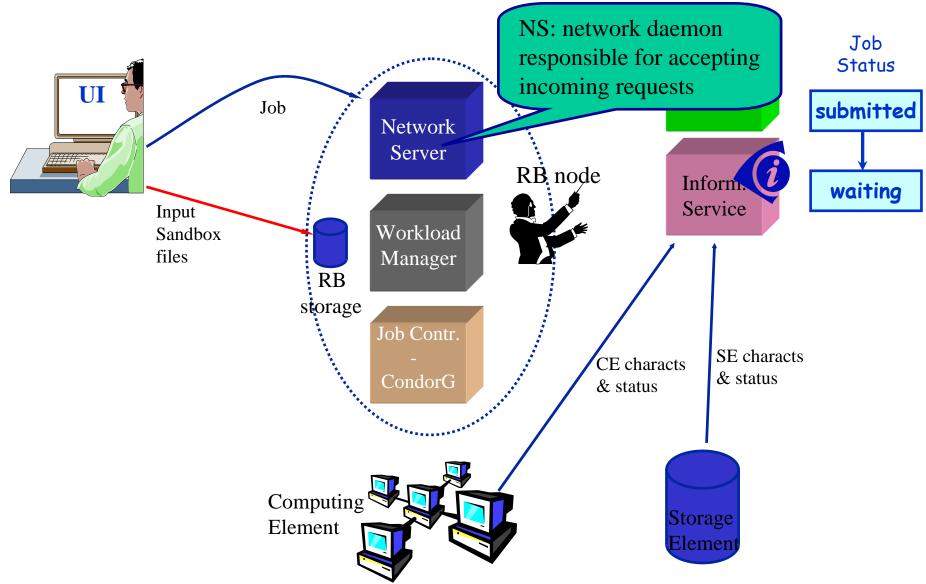
Job Description Language (JDL) to specify job characteristics and requirements

& status

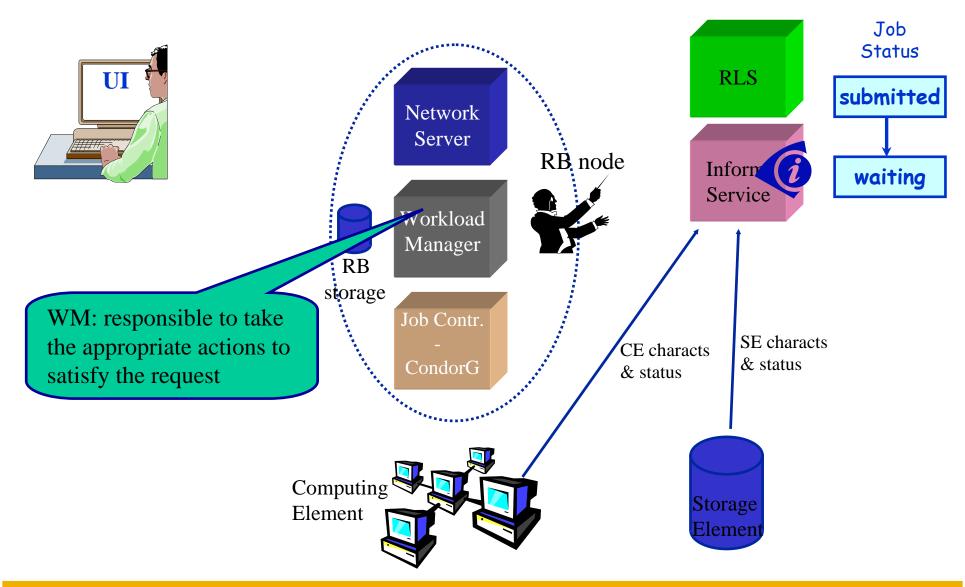


Computing Element



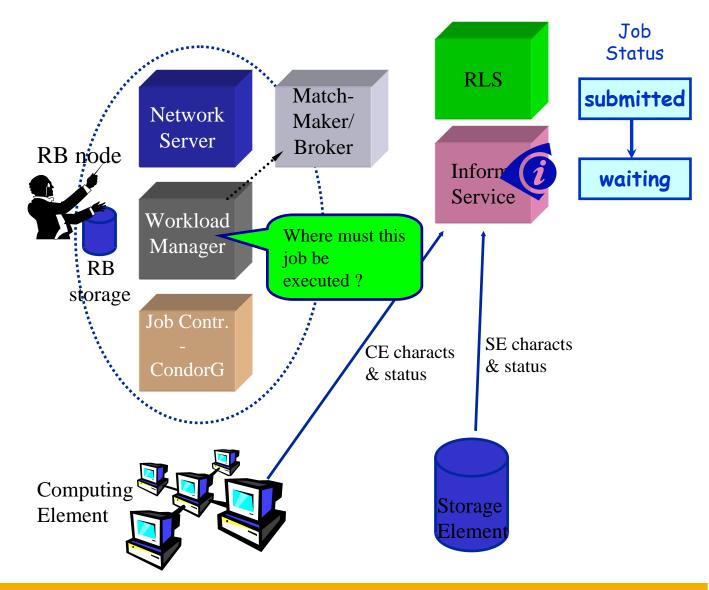




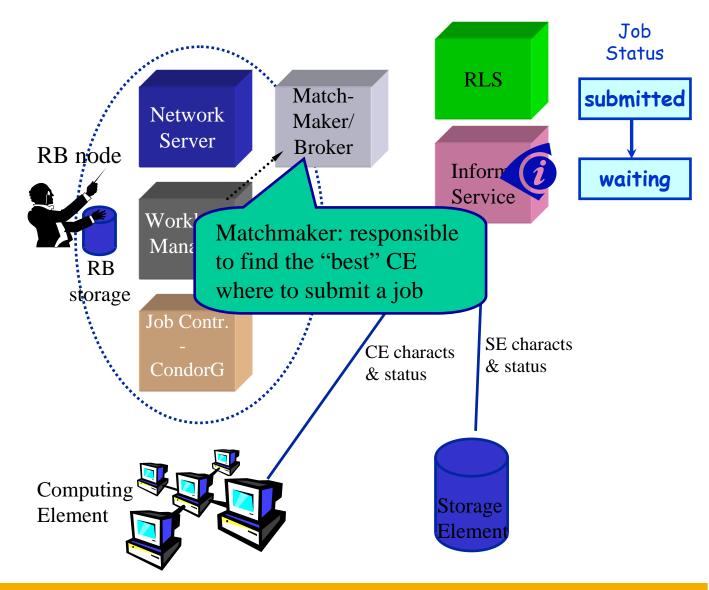


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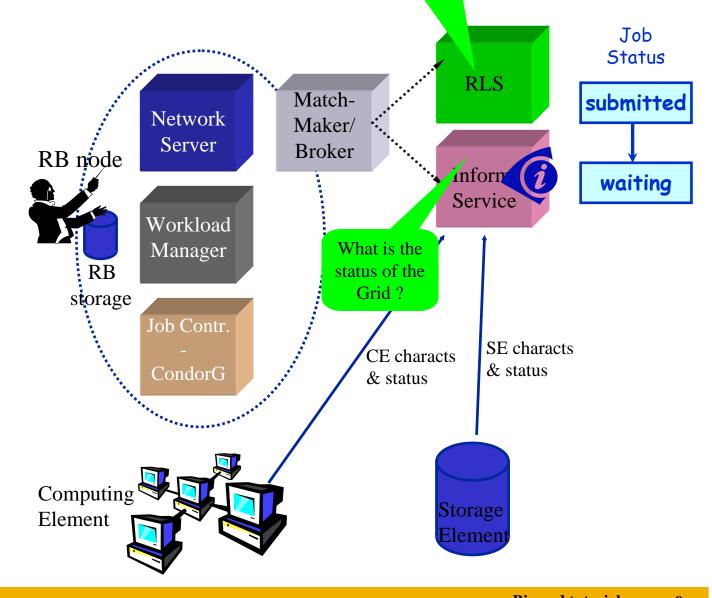




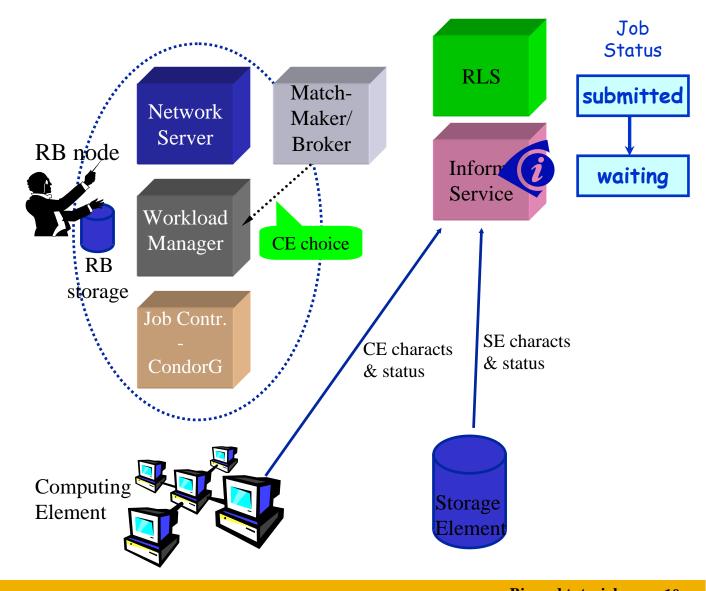




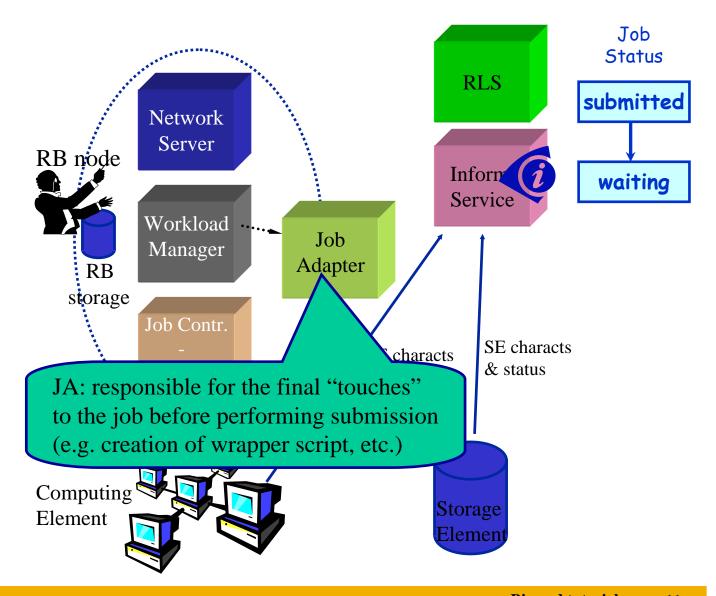




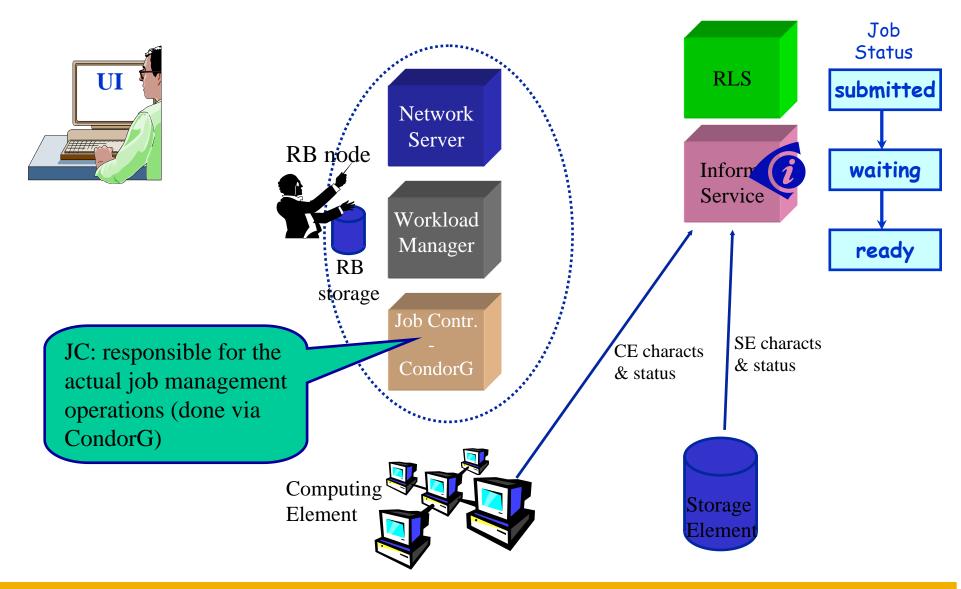




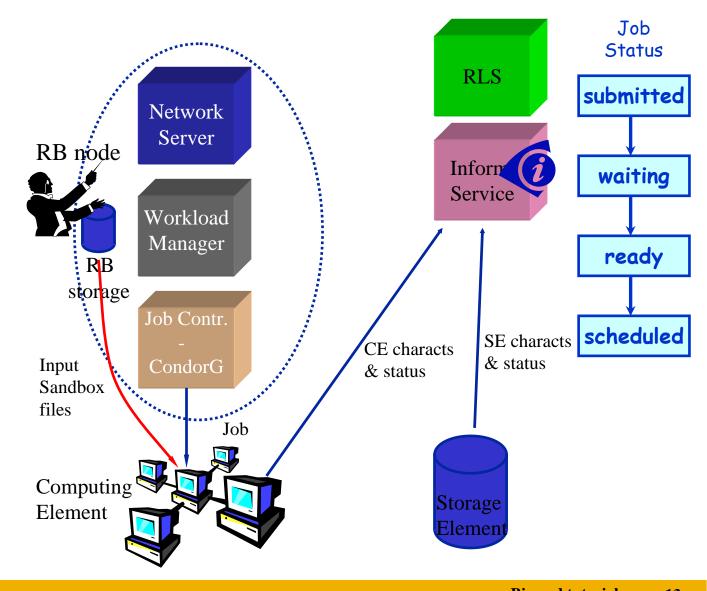






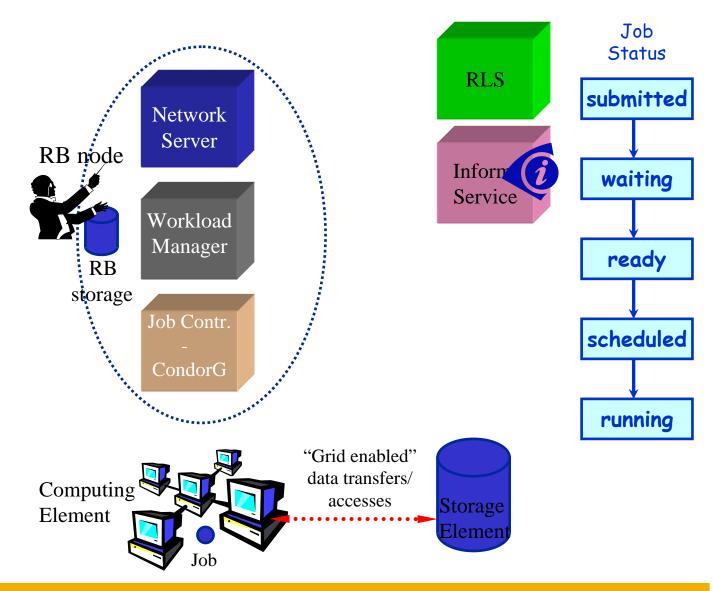






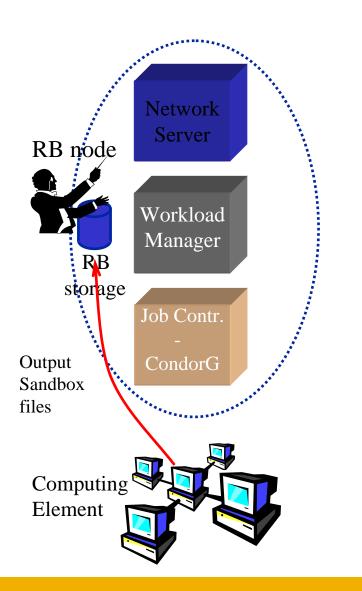


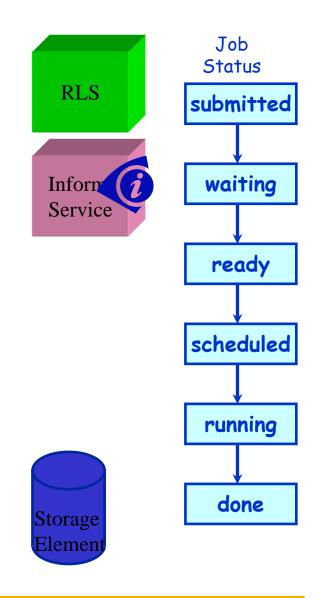




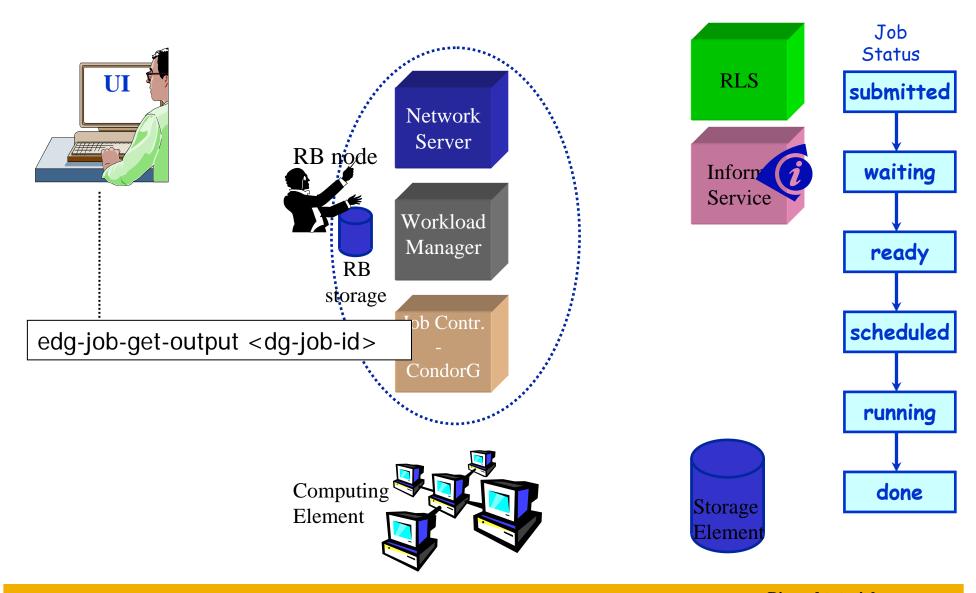




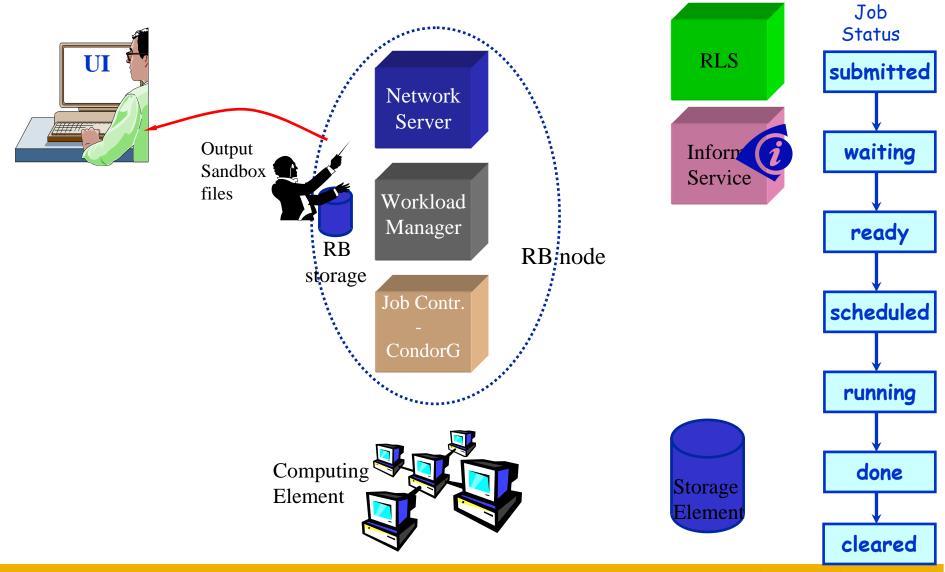




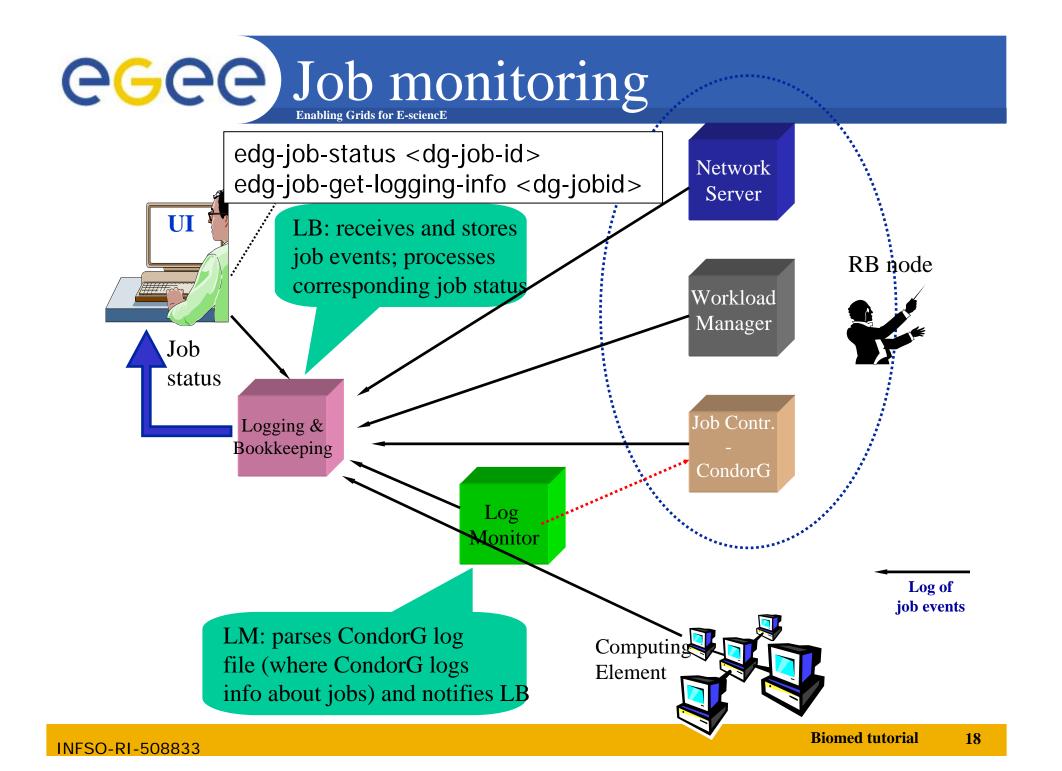








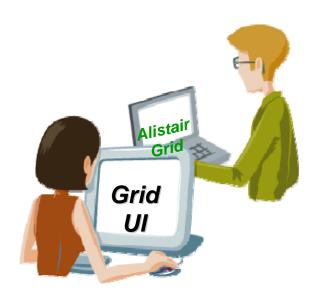
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The Grid:

Enabling Grids for E-science Authentication and authorization



Users need to "logon" only once on the Grid UI

The access to the Grid is guaranteed through the use of X.509 certificates

A service is presented with the Certificate of the User and if the Certificate is OK, the user is guaranteed access to the Grid.

Certificates are used everywhere in Grid whenever you need to identify a user. For instance, the Web Portal for Grid Support will allow access to users with valid Grid certificates.

