

Operating a Tier1 centre as part of a grid environment

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Forschungszentrum Karlsruhe is one of the largest science and engineering research institutions in Europe. The resource centre GridKa as part of this science centre is building up a Tier 1 centre for the LHC project. Embedded in the European grid initiative EGEE, GridKa also manages the ROC (regional operation centre) for the German Swiss region. The management structure of the ROC and its integration into the regional operation is explained. By discussing existing and future tools for operating and monitoring the grid, the development of a robust grid infrastructure in the German Swiss region will be shown. Experience in operating the grid from the view of a Tier 1 centre and as a regional operation centre is summarized with respect to integration of grid tools in the German Swiss federation. In addition the progress to build a stable grid infrastructure in our region of about 13 resource centres is pointed out taking into account the new support structures. The start of the support workflow can be a user specific problem as well as a problem detected by regularly performed general site functional tests. Different views of the regional grid structure will be highlighted.

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