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A virtualized Tier-3g Facility Installiation in WLCG Network of CERN

A Tier-3g Facility within the computing resources of Istanbul Aydin University has been planned and installed in collaboration with TR-ULAKBIM national Tier-2 center. The facility is intended to provide an upgraded data analysis infrastructure to CERN researchers considering the recent nation-wide projects of ATLAS and CMS experiments. The fundamental design of Tier-3g has been detailed in this work with an emphasis on technical implementations of the following parts: Virtualization of all nodes, VOMS usage for reaching fast experimental data in the WLCG network, batch cluster / multicore computing with HTCONDOR and PROOF systems, usage of grid proxies to access code libraries in AFS and CVMFS, dynamic disc space allocation and remote system mounting of EOS. We also present the performance test results that was obtained during a typical simulation of official analysis tools.

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