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LHC-OPN Network at GridKa – incl. 10Gbit LAN/WAN evaluations

Wednesday 15 February 2006 09:00 (20 minutes)

Besides a brief overview of the GridKa private and public LAN network, the integration into the LHC-OPN network as well as the links to the T2 sites will be presented in the view of the physical network layout as well as there higher protocol layer implementations. Results about the feasibility discussion of dynamical routes for all connections of FZK including all different types the LHC Network concerning links (LightPath, MPLS tunnels, routed IP) will be part of the presentation. A evaluation will show the quality and quantity of the current 10GE link from GridKa to CERN traversing a multi NREN backbone structure via a MPLS tunnel. The evaluation will be contrasted by results of first tests via the LHC-OPN point to point Lightpath GridKa - CERN. The equipment of the first 10GE test setup are based on IBM/Intel HW at GridKa and HP/Chelsio at CERN. The second testbed is more or less symmetrical, on both sites 64bit HP Itanium nodes with Chelsio 10GE NICs. It will be demonstrated a study of the ability of the nodes at Gridka revealing there limitations and the benefit of TOE will be discussed.

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