

How networks can fulfil today's and tomorrow's Grid demands

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Grid and e-Science applications from many communities have brought new requirements in terms of networking. This relates now only to more connections and more bandwidth but also to new technical, organizational and operational requirements. Based on discussions and interviews with

Grid-communities in Europe and especially in Germany during the D-Grid project many respective requirements have been identified. The talk gives an overview of these demands, draws conclusions and gives a forecast on the development concerning "networks for Grids" from a technical and an operational point of view. As an example the X-WiN network is shown, being the communication platform for the D-Grid communities in Germany and also the network to link them to the European and world-wide Grid infrastructures.