A distributed Tier1 with NorduGrid/ARC

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Abstract. The data transfer, storage and processing related to the CERN Large Hadron Collider (LHC) experiments is partitioned into a central Tier-0 center (at CERN), 11 Tier-1s and even more Tier-2 and 3. The Tier-1s are responsible for storing parts of the raw experiment data and for the first data processing. The Nordic Tier-1 will be different from the other Tier-1s in several ways. Firstly, storage will be distributed over up to 7 sites in 4 countries, still maintaining a single point of entrance to the Tier-0. Secondly, the computational production will be conducted mostly using the NorduGrid/ARC Grid middleware. This talk will cover the distributed Tier-1 setup and the different services related to running another production Grid in interoperation with the CERN gLite production service.