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Large scale data movement on the GRID

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During last few years ATLAS has ran a serie of Data Challenges producing simulated data used to understand the detector performace. Altogether more than 100 terabytes of useful data are now spread over few dozens of storage elements on the GRID. With the emergence of Tier1 centers and constant restructuring of storage elements there is a need to consolidate the data placement in a more optimal way.

We have organised and exercised the ATLAS wide data consolidation using the ATLAS distributed data management system (DQ2). Experience with the massive data movement on the GRID will be reported.

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