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An intelligent Data Delivery Service for and beyond the ATLAS experiment

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The intelligent Data Delivery Service (iDDS) has been developed to cope with the huge increase of computing and storage resource usage in the coming LHC data taking. iDDS has been designed to intelligently orchestrate workflow and data management systems, decoupling data pre-processing, delivery, and main processing in various workflows. It is an experiment-agnostic service around a workflow- oriented structure to work with existing and emerging use cases in ATLAS and other experiments. Here we will present the motivation for iDDS, its design schema and architecture, use cases and current status, and plans for the future.

Primary authors: GUAN, Wen (University of Wisconsin (US)); MAENO, Tadashi (Brookhaven National Laboratory (US)); BOCKELMAN, Brian Paul (University of Wisconsin Madison (US)); WENAUS, Torre (Brookhaven National Laboratory (US)); LIN, Fa-Hui (University of Texas at Arlington (US)); PADOLSKI, Siarhei (BNL); ZHANG, Rui (University of Wisconsin Madison (US)); ALEKSEEV, Aleksandr (Universidad Andres Bello (CL))

Presenter: GUAN, Wen (University of Wisconsin (US))

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