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An intelligent Data Delivery Service (iDDS) 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. It 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 that has been deployed to serve data carousel, hyperparameter optimization, multiple-steps DAG (Directed Acyclic Graphs) workflows and so on. Here we will present the motivation for iDDS, the architecture, use cases and current status for ATLAS and Rubin Observatory exercise, and plans for the future.

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