

Implementation of data integration toolkit for ITER Physics Data Model

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The key to developing integrated modeling and data analysis tools is to realize data exchange between different data sources (experimental database, IO for simulation code, etc.). A data integration toolkit (SpDB) was developed to access different data sources using a global unified schema defined by the ITER Physical Data Model. Data consists of the data schema and data format. The definition of data schema will change frequently as requirements are updated. However, the format of the data source will always remain stable. In the implementation of SpDB, data format conversion and data schema mapping are separated. Therefore, it not only maintains a relatively stable API with the data source but also adapts to the frequent changes in the data model.

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