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Experiment data streaming and aggregation at the European Spallation Source

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The European Spallation Source will provide a collection of instruments for state-of-the-art neutron science. To support the scientific activities, high-throughput instrument data, environment parameters and other meta-data must be timely collected, aggregated and made available for real-time and offline analysis. The data aggregation and streaming system comprises an Apache Kafka stream processing data store, collection and aggregation adapters for the different data sources, persistence adapters for the NeXus format, and integrations with the experiment control user interfaces. We present the architecture of this system, its current integration status and our latest performance results.

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