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## **FTS: Towards tokens, QoS, archive monitoring and beyond**

*Wednesday 14 October 2020 10:20 (20 minutes)*

The File Transfer Service (FTS) is a fundamental component for the LHC experiments, distributing the majority of the LHC data across the WLCG infrastructure. Tightly integrated with experiment frameworks, it has transferred more than 1 billion files and a total of 950 petabytes of data in 2019 alone. With more than 30 experiments using FTS at CERN and outside, it has steadily gained popularity in data-intensive sciences.

Playing a crucial role in data distribution, FTS is constantly evolving in preparation for LHC RUN-3 and forward. With the 2018 participation in the EU-funded project eXtreme Data Cloud (XDC) and continuous involvement within the WLCG DOMA TPC and QoS working groups, a series of developments have been performed in order to meet the requirements of the LHC experiments and community alike.

This presentation will provide a detailed overview of activities carried out for the upcoming 3.10 release, focusing on OpenID Connect (OIDC) token support, QoS functionality, Third Party Copy (TPC) support for XRootD and HTTP protocols, archive monitoring for the new CERN Tape Archive (CTA) system, service scalability improvements and the future direction of FTS.

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