



Contribution ID: 183

Type: **Poster**

## A federated Xrootd cache

*Tuesday 22 August 2017 16:25 (20 minutes)*

With the shift in the LHC experiments from the computing tiered model where data was prefetched and stored at the computing site towards a bring data on the fly, model came an opportunity. Since data is now distributed to computing jobs using XrootD federation of data, a clear opportunity for caching arose.

In this document, we present the experience of installing and using a Federated Xrootd Cache (A Xrootd Cache consistent of several independent nodes). There is some fine tuning towards and scaling tests performed to make it fit for the CMS Analysis case.

Finally, we show how this federated cache can be expanded into a federation of caches in which the caches can be distributed among computing centers.

**Primary authors:** MRAK TADEL, Alja (Univ. of California San Diego (US)); TADEL, Matevz (Univ. of California San Diego (US)); WUERTHWEIN, Frank (Univ. of California San Diego (US)); STEER, Ben (Monash University); MARTIN, Terrence (UCSD); FAJARDO HERNANDEZ, Edgar (Univ. of California San Diego (US))

**Presenter:** FAJARDO HERNANDEZ, Edgar (Univ. of California San Diego (US))

**Session Classification:** Poster Session

**Track Classification:** Track 1: Computing Technology for Physics Research