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CMS Experience with a World-Wide Data Federation

Over the past three years, the CMS Collaboration has developed the “Any Data, Anytime, Anywhere” technology to make use of a global data federation that is based on the XrootD protocol. The federation is now deployed across virtually all Tier-1 and Tier-2 sites in the CMS distributed computing system. This data federation gives workflows greater flexibility for location of execution, which has benefits at all scales of operation, from individual users accessing specific collision event records to organized production processing. In preparation for the coming LHC data run, CMS has been testing a number of applications of the data federation at increasingly large scales. In this presentation, we will discuss the applications in use and the results of the tests.

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