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Making Connections - Networking the distributed computing system with LHCONE for CMS

The LHCONE project aims to provide effective entry points into a network infrastructure that is intended to be private to the LHC Tiers. This infrastructure is not intended to replace the LHCOPN, which connects the highest tiers, but rather to complement it, addressing the connection needs of the LHC Tier-2 and Tier-3 sites which have become more important in the new less-hierarchical computing models. LHCONE is intended to grow as a robust and scalable solution for a global system serving such needs, thus reducing the load on GPN infrastructures in different nations. The CMS experiment pioneered the commissioning of data transfer links between Tier-2 sites in 2010. During 2011, and in the context of preparing for LHCONE to go into production, the CMS Computing project has launched an activity to measure in detail the performance, quality and latency of large-scale data transfers among CMS Tier-2 sites. The outcome of this activity will be presented and its impact on the design and commissioning new transfer infrastructures will be discussed.

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