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Assuming that all data will be remotely replicated in LHD, SNET, and future ITER experiments, a technical demonstration was conducted to replicate all LHD data from NIFS (Gifu) to the ITER Remote Experimentation Centre in QST (Aomori) via the SINET5 Round-the-Globe loop path. Under the high latency of 400 ms, a significant decrease in average efficiency was observed due to the transfer overhead of a large number of files, and also a faster I/O buffer will be required for the intermediate server of the relay transfer. (Hideya NAKANISHI *et al.*, Plasma and Fusion Research, Vol. 16, 2405017 (2021) <http://www.jspf.or.jp/>)