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Control and Data Acquisition of the Wendelstein 7-X Experiment

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Wendelstein 7-X is a nuclear fusion experiment based on magnetically confined plasmas. Since nuclear fusion has the potential to be a long term primary energy source, Wendelstein 7-X investigates the reactor capabilities of an advanced stellarator. In contrast to its predecessor, Wendelstein 7-X is equipped with superconducting magnets for enabling steady state plasma operation and access to data acquisition system is quite often restricted. Therefore, the remote monitoring and configuration features and the compactness of MTCA based data acquistion systems are of great advantage for the experiment operation.

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