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# Data acquisition system at APS

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A high-speed data acquisition (DAQ) system that collects large amounts of fast data from various technical systems around the storage ring has been developed for the Advanced Photon Source Upgrade (APS-U) project to provide time-correlated data for statistics, diagnostics, monitoring, and fault recording. The DAQ system uses EPICS controllers to collect data from FPGAs, uses the AreaDetector framework to create different plugins that processes the data, and publishes the data using the pvAccess network protocol to high-level applications and services. This talk will give an overview of the DAQ system, including features and high-level architecture, as well as provide examples of how the DAQ system was used during APS commissioning.

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