



Contribution ID: 68

Type: **Fast Talk (Single slide)**

Using StreamDevice to Connect Network Attached Devices to EPICS-View from an EPICS Beginner

Tuesday, September 20, 2016 3:35 PM (10 minutes)

The following is a short talk concerning a student led EPICS project and the various lessons learned. The Beam Test Facility (BTF) is a test stand for Radio Frequency Quadrupole (RFQ) conditioning and low level beam experiments. The BTF has a Protection System (PPS) that monitors radiation levels and controls entry around the accelerator equipment. The PPS uses a Farwest brand detector to alert users if there is high level radiation. Using the ASYN and StreamDevice modules, this detector can send data to EPICS. Sending the the data to EPICS allows operators, using EDM screens, to observe any radiation spikes. Also, since it communicates with the test network, any data can be recorded in the data-archiver for analysis. As a first time student user of EPICS, this network driver project was an excellent intro into the ins and outs of EPICS and its applications. This talk will go into my views on how the EPICS system functions and the various tools that helped along the way.

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Session Classification: EPICS Collaboration Meeting

Track Classification: Hardware, Driver/Device support