

Acnet/Apacs controls installation status

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- **Acnet**
 - Devices
 - Interface to DAQ
- **Apacs**
 - Devices
 - Interface to DAQ

- Slow controls in MIPP: Acnet, Apacs, and others
 - Needed for physics running, but only rudimentary version required for engineering run
 - Beam installation and drift chamber work took priority, but progress on controls, too



- Acnet devices
 - Entire beam line (coming soon)
 - JGG and Rosie (works now, but usually interlocked)
 - Drift chamber HV (a few short cables missing)
 - Ramp protection implemented
 - ...

- Acnet interface to DAQ:
 - Completely implemented by BD
 - XML-RPC interface to read and set devices
 - Standard protocol, sample implementations in Java, C++
 - We need to implement only the client, not a server

- Apacs devices
 - Gas systems
 - Valves, pressure and Temperature readings, etc.
 - Rack protection
 - ...
 - Apacs system is working, but nothing implemented in final configuration

- Apacs interface to DAQ:
 - Not available yet
 - CDF does not do this. They write Apacs data into DB, but not to DAQ stream
 - D0 has something working, very helpful, but custom protocol
 - Web interface for human monitoring exists
 - Test beam users have asked me for this already
 - Plan to use XML-RPC to make Apacs/Acnet transparent to DAQ
 - iFix access to Apacs data on Windows PC
 - MS Visual C++ library to build applications that access iFix data
 - Need to implement XML-RPC server on Windows PC
 - Either build XML-RPC server in Visual C++ or have another interface locally on the PC