

MIPP slow controls

MIPP collaboration meeting

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Holger Meyer

Content

- Device summary
 - what is working vs. what needs work
- Integration
 - how we talk/listen to devices now
 - how to merge everything into one interface

list of slow controls and monitors

	control	monitor	Acnet	iFix	direct
beam line magnets	ok	ok	x		
all gas system	(from iFix PC)			x	
pmt HV (1440s)	ok	ok			x
TPC 10kV	?	?			x
target wheel	(ok?)	(ok?)			x
chamber HV (Droges)	ok	ok	x		
JGG/Rosie power	ok	ok	x		
JGG/Rosie Hall probes	-	ok	x		
RICH HV (Glasman)	ok	ok	x		
accelerator RF/status	-	-			x
rack monitoring, etc.	-	!			x

Integration – current status

- Integration? What integration?
 - Acnet devices
 - SlowControl class (or Acnet terminal)
 - Gas systems
 - iFix PC in control room
 - LRS 1440 HV for pmts
 - through serial port box, standalone program
 - target wheel, TPC HV, etc.
 - someone working on it, not fully implemented yet
- We can do commissioning this way

Integration – why

- We can talk to most devices, but...
- Integration has benefits
 - different systems are hard to understand and use
 - solve problems once, apply to all devices
 - XML configuration
 - DB interface
 - interface from/to run control and error reporting

Integration – future

- Slow Control class presents uniform interface to all slow controls
 - one size fits all? (at least: one size fits most)
 - /online/SlowControl
 - XML-RPC interface works, needs error handling
 - other underlying device accessors can be added
 - user interface may need to be expanded/modified
- If you work on any Slow Control/Monitoring, please look at this first!