

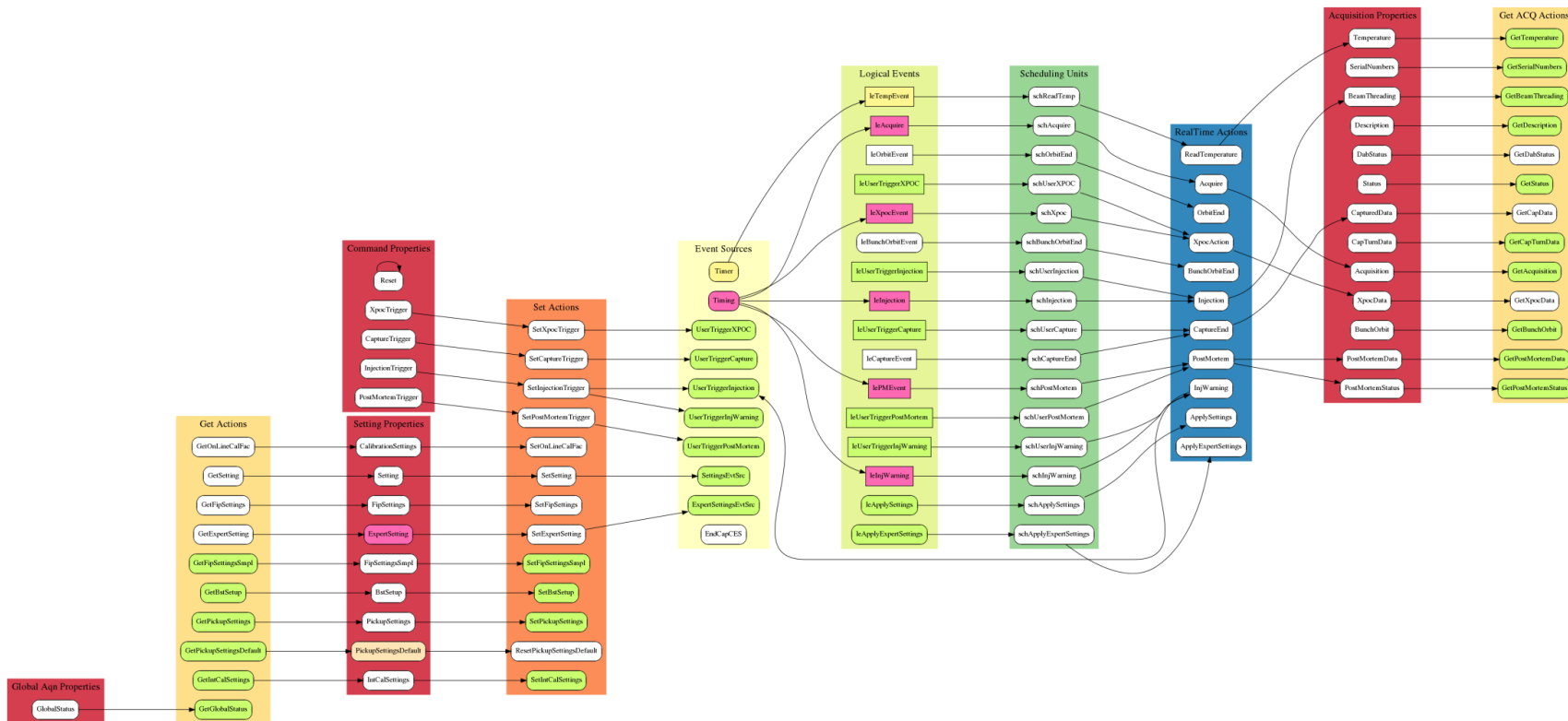
BPM software status

- 2D-algorithm and FESA3/Linux porting
- Updated documentation
- Expert applications upgrade (RDA3)
- Dry-run commissioning
- What's missing: driver upgrade

FESA3 porting

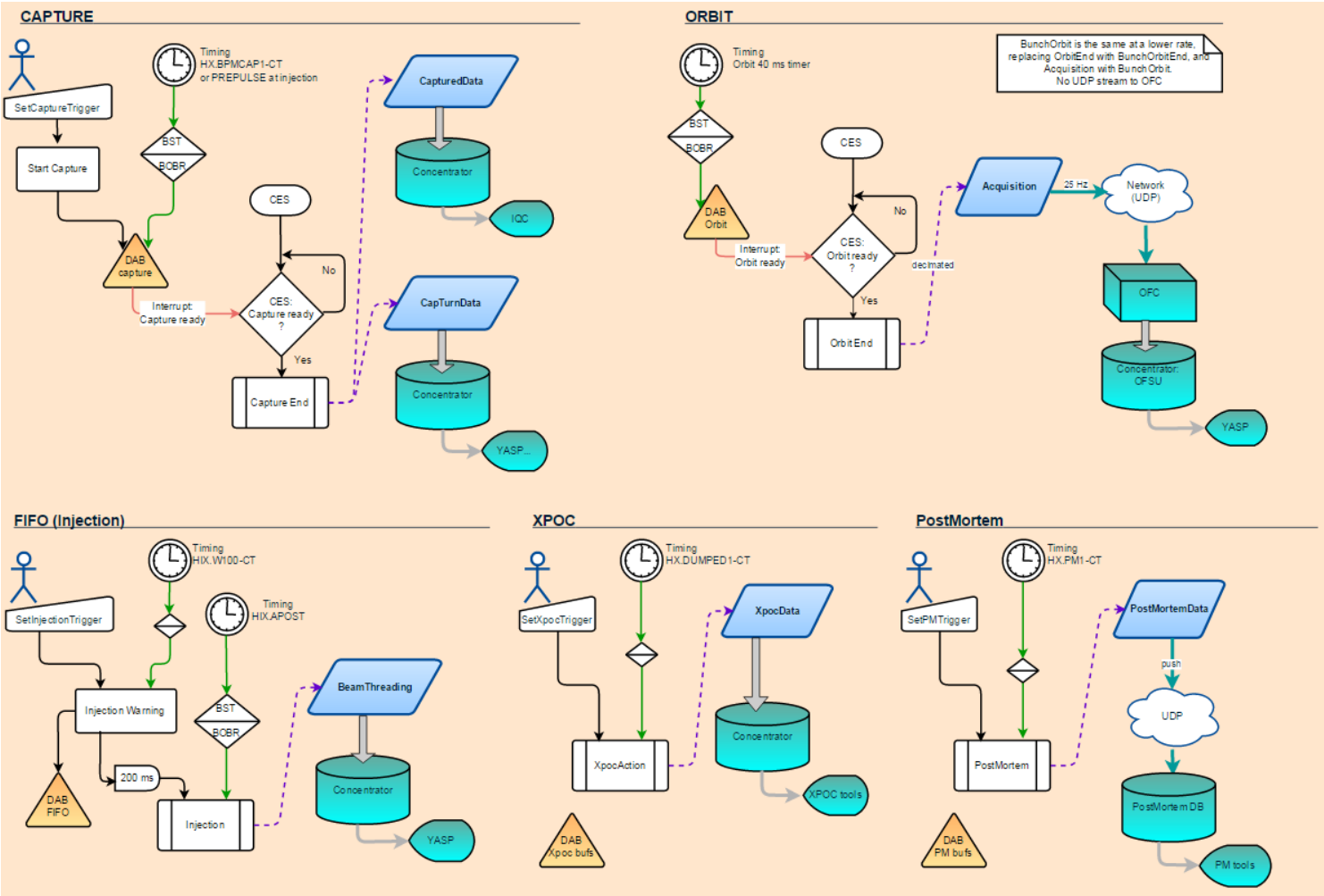
- Porting of design
- A bit of code to rewrite (class easy to migrate)

BFMLHC-1.2.3



BPM documentation

Needed to clarify Timing events needed and data path to OP visualization tools



Expert applications upgrade

- RDA3 support added to:
 - BpmCalibration_v2
 - BpmPhaseIn
 - BpmConnectivityTests (Thanos)
 - BpmPropertyManager (Thanos)

BpmCalibration_V2

- Used to check basic status of BPMs

BPM Calibration V2 (on cs-ccr-abbi5.cern.ch)

File RBA: gubaud

Calibrate All (Position) Calibrate All (Intensity)

Start Checking Point 8 Start Checking Noise Point 8 Start Calibration Point 8 Intensity Calibration Point 8

Host	clv-u8-	bpm61a	clv-u8-	bpm61b	clv-u8-	bpm62a	clv-u8-	bpm62b	clv-u8-	bpm61a	clv-u8-	bpm61b	clv-u8-	bpm62a	clv-u8-	bpm62b
FESA Server	LHC BPM	SP8 B11A	LHC BPM	SP8 B11B	LHC BPM	SP8 B21A	LHC BPM	SP8 B21B	LHC BPM	SP8 B11A	LHC BPM	SP8 B11B	LHC BPM	SP8 B21A	LHC BPM	SP8 B21B
Channel	Hor	Ver	Hor	Ver	Hor	Ver	Hor	Ver	Hor	Ver	Hor	Ver	Hor	Ver	Hor	Ver
#1	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
#2	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
#3	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Diff	OK	OK	OK	OK
#4	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
#5	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
#6	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
#7	OK	OK	OK	OK	OK	Diff	OK	Diff	OK	OK	OK	OK	OK	OK	Diff	OK
#8	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Diff	OK	OK
#9	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
#10	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
#11	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Diff	OK	OK	OK	OK
#12	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Diff
#13	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
#14	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
#15	OK	OK	Diff	Diff	OK	OK	OK	OK	Diff	OK	OK	OK	OK	OK	OK	OK
#16	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Diff	OK	OK
#17	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
#18	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

Save to FECS and LSA database...

Point 1 Point 2 Point 3 Point 4 Point 5 Point 6 Point 7 Point 8

Save ALL to FECS and LSA database...

Server Not Responding Access not granted No result Not OK Problem found Problem noise found Noise OK OK

Build Version: 20141124145424

Dry-run commissioning

- Orbit data to OFC, to YASP



Injection:

- FIFO data in YASP
- Bunch selection (SET action)
- Capture data in IQC
- Capture turn data
- Load tests for Capture



To follow-up

Dump:

- XPOC data
- PostMortem data



Not tested yet



Not tested yet

Driver upgrade

- New driver available for BPMDAB
 - Upgrade desirable to avoid maintenance issues
 - Not tested yet: had a few problems at the beginning, then focus on dry-runs
 - Not ported yet: some functionalities/registers unclear compared to previous driver
 - Upgrade should be transparent for FESA source code if all are cleared-up