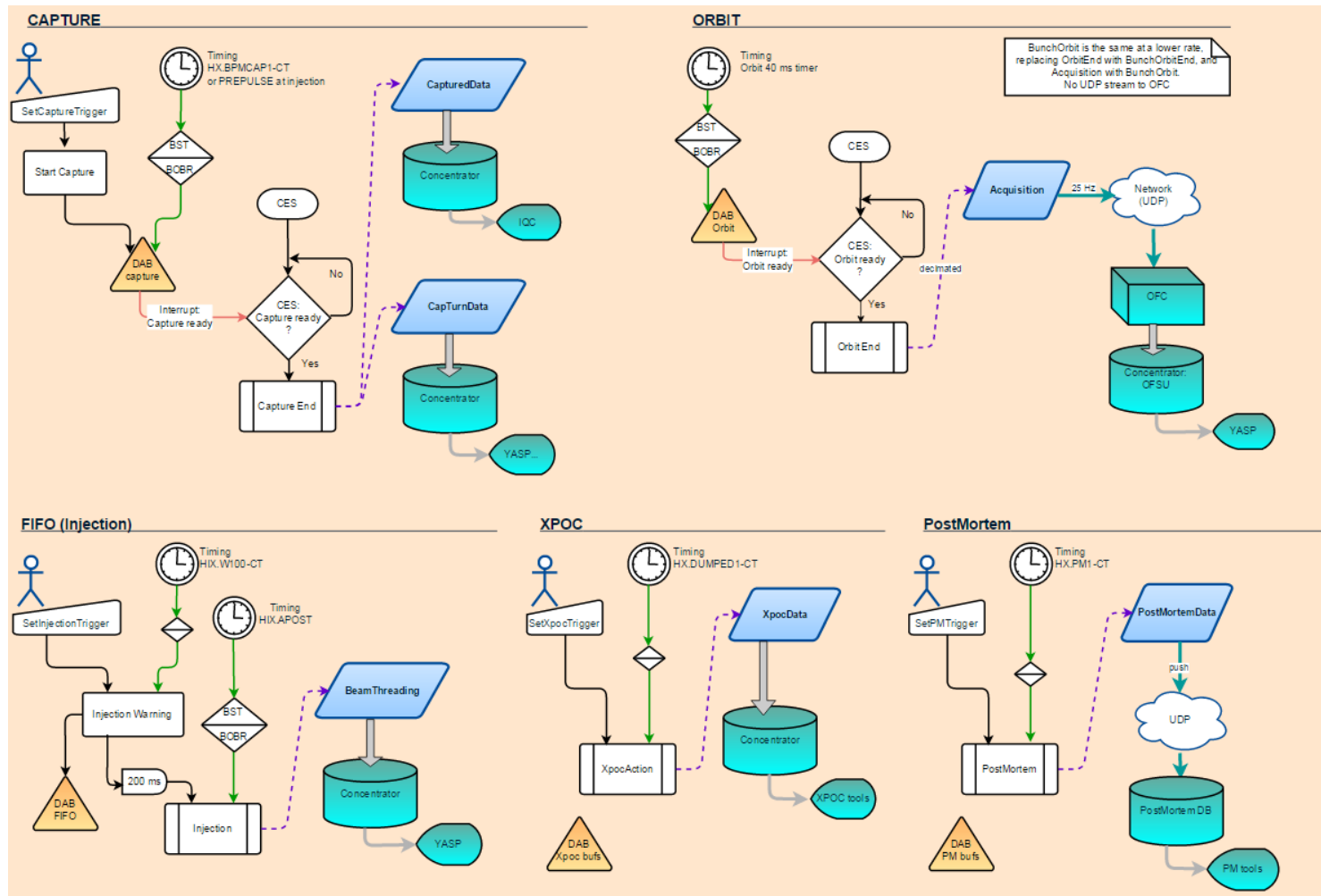


BPMLHC firmware status

- Overview of BPM modes
- Firmware upgrade status
- Next steps

Overview of BPM modes

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



Firmware upgrade

- New firmware available for BPMDAB
 - Upgrade desirable to avoid maintenance issues
 - Not used yet: had a few problems at the beginning, then focus on dry-runs
 - Not ported yet: some registers unclear compared to previous firmware (support needed)

Firmware upgrade – Next steps

- Stand-alone applications
 - FIFO mode : no interrupt
 - Capture mode
 - Orbit mode (with timing)
- Integration to FESA class
 - Wrapper class: upgrade should be transparent for FESA3 source code
 - Could deploy in one LHC point to test vs others

Dry-run commissioning

- Orbit data to OFC, to YASP



Injection:

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



To follow-up

Dump:

- XPOC data
- Post-Mortem data



Not tested yet



Not tested yet

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	bpm11a		bpm11b		bpm21a		bpm21b		bpm11a		bpm11b		bpm21a		bpm21b	
	LHC BPM	SRB B11A	LHC BPM	SRB B11B	LHC BPM	SRB B21A	LHC BPM	SRB B21B	LHC BPM	SRB B11A	LHC BPM	SRB B11B	LHC BPM	SRB B21A	LHC BPM	SRB 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	OK	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	OK	Diff
#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	OK	OK	Diff	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	OK	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

FESA3 porting

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

BPMLHC-1.2.3

