

- IPMI
  - ONSEN
  - DATCON
- SlowControl / Monitoring
  - ONSEN
- RC
  - ONSEN
  - (DATCON)

- IPMI ONSSEN – stress test
  - ATCA Shelf, Shelf Manager, IOCs
  - Needs: correctly configured network and shelf manager, IOC, PV archiver
  - As much boards as possible
  - Goal: Find performance issues in IOC, interferences with different IOCs and many boards, long term stability
  - Will (mostly) run parallel to other tests, only if problems are found I need exclusive access (esp for firmware upgrade)
  - No DAQ, no sensor, no DHH... is needed

- IPMI DATCON
  - MTCA Shelf, Shelf Manager, IOCs
  - Needs: correctly configured network and shelf manager, IOC, PV archiver
  - As much boards as possible
  - Check interferences with different IOCs (ONSEN), NAT MCH, long term stability
  - Will (mostly) run parallel to other tests, only if problems are found I need exclusive access (esp for firmware upgrade)

- ONSEN SC
  - Stable firmware setup, including correctly behaving Pvs
  - Firmware and epics in flash (autoboot)
  - Correct network setup, local IOC on ONSEN boards, epics archiver
  - Monitoring of data flow needs DHH, (pseudo) HLT, (pseudo) event builder
    - Maybe DATCON
  - Detecting unusual states needs “injection” of errors, exclusive
    - Recovery from these states
  - Can be broken down in several steps
  - ... updated list (changes since last TB) of PVs and their expected value is still missing
  - SC is mandatory for complete RC – otherwise RC cannot react on actual status

- RC
  - Needs ONSEN SC to work or Ready and Abort conditions are unusable
  - RC running locally on ONSEN board as part of SC is needed
  - DATCON RC
    - Here we need two signals (PV) from DATCON board, ready and abort
    - Apart from that, RC has been prepared already (same as ONSEN)
  - 1<sup>st</sup> step: Local RC can be tested, but is kind of toy ...
  - 2<sup>nd</sup> step: local PXD RC (DATCON + ONSEN)
  - 3<sup>rd</sup> step: global (NSM) RC
  - 4<sup>th</sup> step: global (NSM) RC with other systems, then data taking
  - Step 1-3 should be doable in 1-2 days. No need for DAQ or sensors running
  - 4 is the critical one and needs the full system