

## DIMM Comissioning

MMO  
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Comments on documentation in binder:

- Hardware Design Description is a draft version containing several "tbf" signals (like on page 10). So are several other docs. These drafts cannot be used as definitive documentation!
- The ASM DATA USER MANUAL: login info? Useful info for accessing ASM output data. No info for maintenance. No technical info.
- The ASM CONTROL SOFTWARE OPERATION MANUAL: Assumes VLT software familiarity... Gives good info on normal operation and basic problem fixing from the software side.
- CONTROL SOFTWARE INSTALLATION MANUAL: Also contains a little info on hardware setup, but not much.
- CONTROL SOFTWARE UPGRADE TEST REPORT: Most useful contents is on the last pages, things that still need fixing (like TX to Vaisala)
- Cabinet cooling system manual
- Technical CCD users manual
- Software signals leaflet
- ASM LCU Parts list
- Manufacturer's documentation for:
  - CPU card
  - Transition module and adapter board
  - Heidenhain encoder VME card
  - Acromag digital I/O card
  - Analog I/O card
  - Serial card
  - Mattke amplifiers
  - Phoenix RS232 optoisolators
  - Heidenhain encoder (mounting instructions only)
  - Neslab chiller
- Available schematics:
  - Cabinet power

- A/D card to Amps wiring
- Amp power wiring, 8i8o to init switch
- Rack to motor cables
- Motor cabling
- North-South sensor to 8i8o wiring
- North-South sensing switches
- Serial ports to optoisolators wiring (no indication of use)
- Dome interface

Missing docs:

- CCD LCU wiring schematics (It's VLT standard) (a 24V power wiring is here)
- 8+8 Optocoupler card
- Cable between VME and optocoupler card in outdoor cabinet
- VME cards setup (jumpers, DIP switches, etc)
- Soft parameter listings?
- TIM card
- Hardware user manual

Technical CCD is to be regarded as a "black box", no maintenance or repair expected from us.

NOTES for comissioning:

- The Vaisala communication problem is NOT yet solved, there is still the old workstation sending time commands.
- ACE box seems to fail quite often.