



# MAC/SAS tests and MAC distribution

# MAC/SAS tests

- ◆ We have started to test MAC and SAS framework in practice
  - ⊕ Find bugs and problems using the real and complete system -> create a robust framework
  - ⊕ Provide feedback on the OTB user interface to SAS
  - ⊕ Training in observation specification with OTB
  - ⊕ Getting used to this mode of operation (which will be standard at some point)
  - ⊕ Learn to interpret messages, logfiles, Navigator, etc.

# MAC/SAS tests (2)

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- ◆ First testday was useful for all of the above; we managed to start an observation on four stations (but not using CEP yet)
- ◆ Weekly testdays are planned to keep momentum in this process

# MAC software and configuration data distribution

- ◆ MAC software runs on Main control unit (MCU001) and all station LCUs; a change in the software needs to be distributed to the MCU001 and all stations LCUs
- ◆ We need automated mechanisms to control this:
  - ⊕ Copy build results to a central 'repository' that can keep a number of versions
  - ⊕ Order station LCUs to retrieve the new software version
  - ⊕ Keep the current and the former version at the LCU for fast rollback when there are problems. Earlier versions are in the central repository
  - ⊕ Build-in checks for completeness using checksums
  - ⊕ Requires some changes in scripts like 'swlevel'

# MAC software and configuration data distribution (2)

- ◆ Configuration files (station specific properties)
  - ⊕ Now: Station configuration files are in a central SVN repository;
  - ⊕ Changes must be made on the station itself and checked into the repository. Ok for now (only few stations).
  - ⊕ Step 5 will deliver a new distribution mechanism
    - Central administration in SAS
    - Creation of station specific configuration files on MCU001
    - Distribution to the stations using MAC framework for parset files

# Planned LCU changes

- ◆ Now there is only one user account
  - ⊕ Difficult to find out who is logged into a station
  - ⊕ Not possible to track who changed what.
- ◆ We will soon set up a more sophisticated user scheme
  - ⊕ Limited number of users
  - ⊕ Different users have different access rights.
  - ⊕ There will be one account for MAC operation, only.
- ◆ Logfile archiving:
  - ⊕ We will not archive logfiles. Some logfiles have observation-related names, so for these a cleanup mechanism is required.
- ◆ Data archiving:
  - ⊕ The station calibration processes can create lots of data, which will not be archived but need to be cleaned up.
- ◆ For all this:
  - ⊕ important that logfiles and datafiles are only written into the designated directories, only (not always the case now...). MAC operation will take care of this.