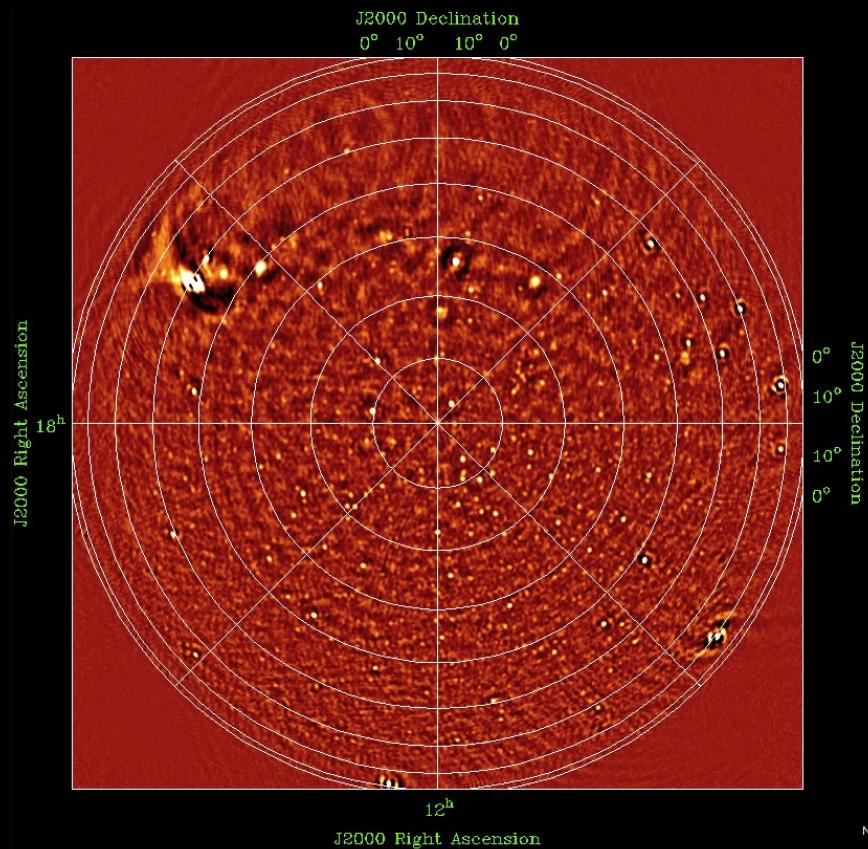


LOFAR Software Update

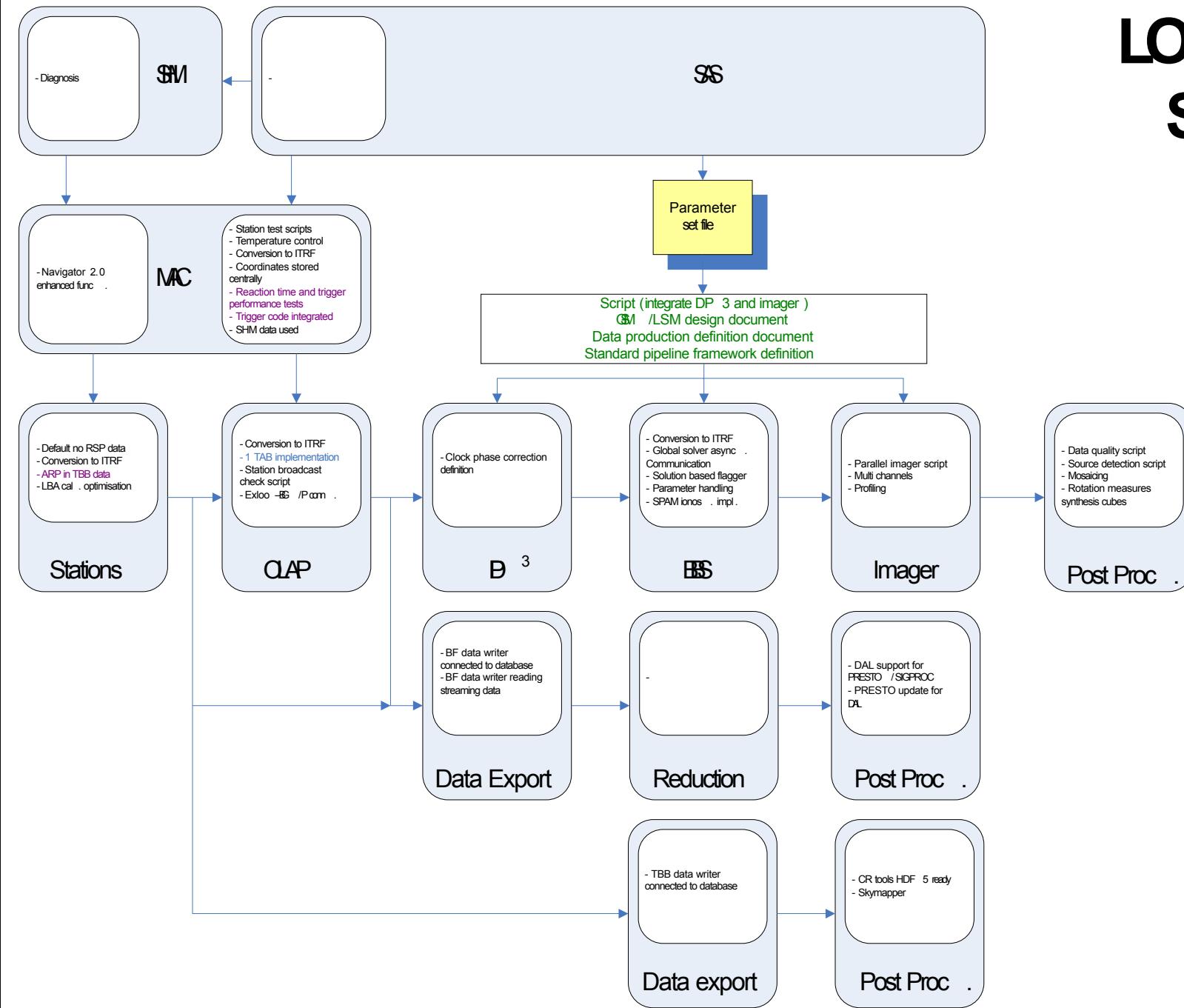
André W. Gunst



Not

LOFAR

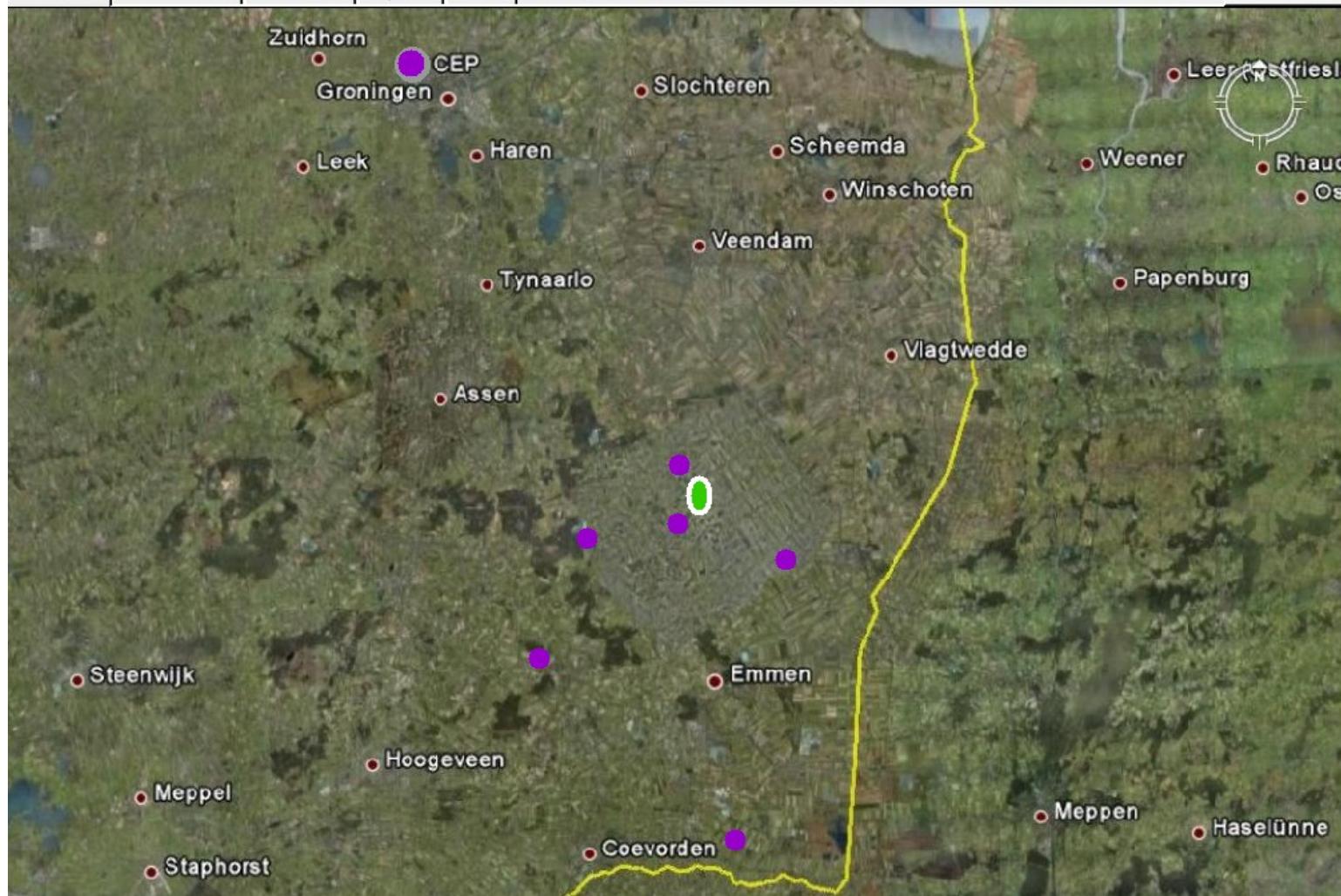
Stap 1



- ARP in TBB
- RSP data default off
- Full station mode (up to 992 subbands)
- Superstation TAB mode
- PPF bandpass
- Station – CEP under MAC/SAS

- Autonomous station temperature controller
- PVSS, controller performance meas. (1.6 ms roundtrip time)
- SHM – MAC feedback
- Navigator 2.0 improvements
- Offline pipeline: DP³ and distributed imager
- Offline clock phase correction definition
- Implementation of simple ionospheric model in BBS

- RM synthesis imaging tool specification
- Standard framework pipeline implementation
- Channelization and down-sampling in BF data writer
- Native support in DAL for PRESTO/SIGPROC formats
- DAL data classes for time series data



Hardware
CEP
Core
RS106
RS208
RS302
RS306
RS307
RS503

Processes
Processes

Hardware | Observations | Processes | Reports | Alerts | Show TestPanel

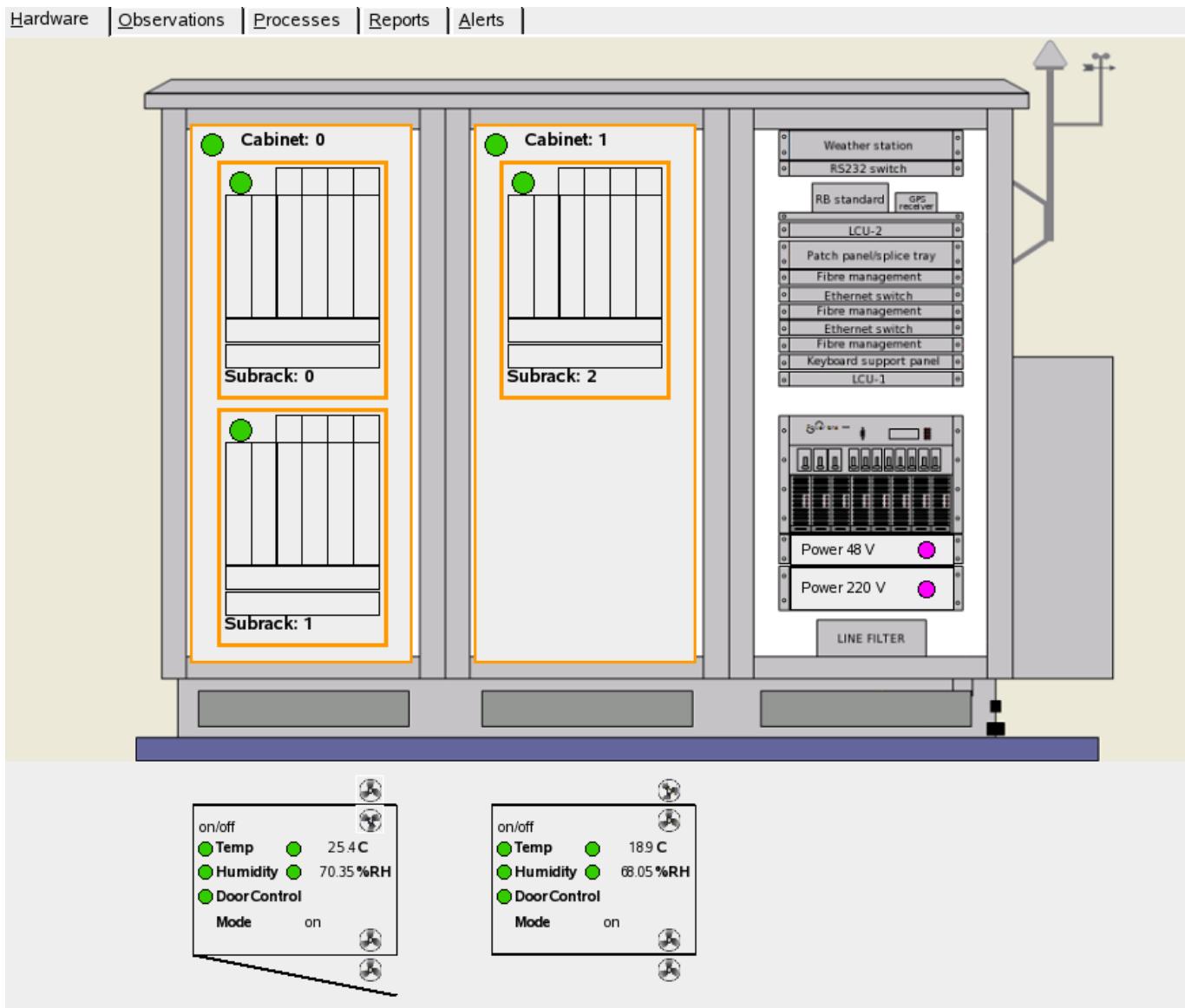
The map displays a patchwork of agricultural fields in shades of green, brown, and grey. Overlaid on the map are several data points represented by colored circles: purple dots are scattered across the fields; a cluster of purple dots is located in the center-left; four orange circles form a small chain-like pattern in the lower-middle section; and one red dot is positioned near the bottom right edge. A north arrow icon is located in the top right corner of the map area.

Hardware

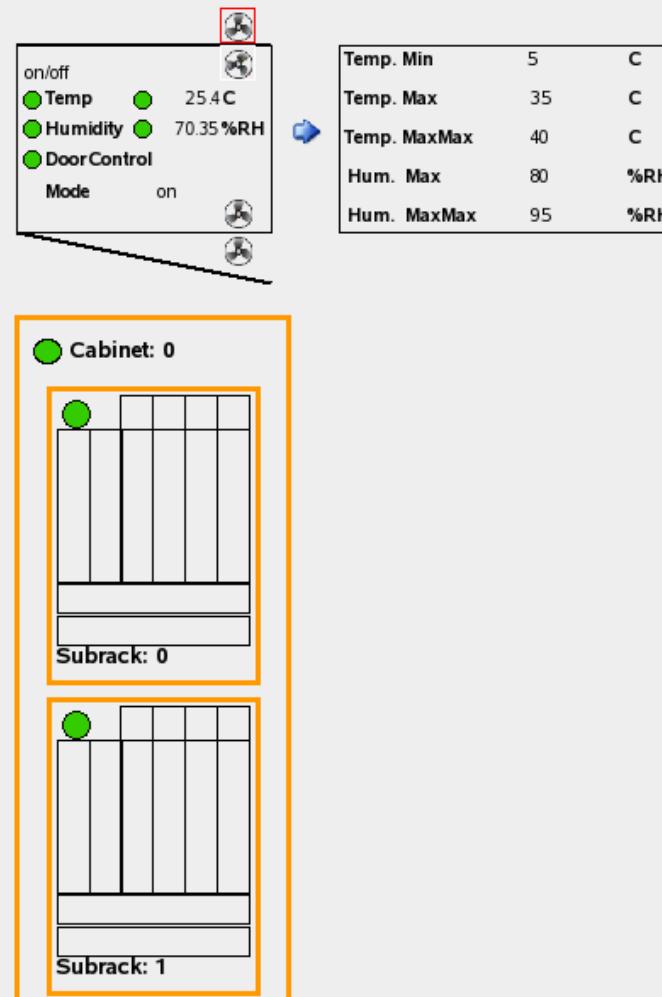
- CS001
- CS002
- CS003
- CS004
- CS005
- CS006
- CS007
- CS010
- CS012
- CS016
- CS026
- CS027
- CS030
- CS031
- CS032**

Processes

- Processes

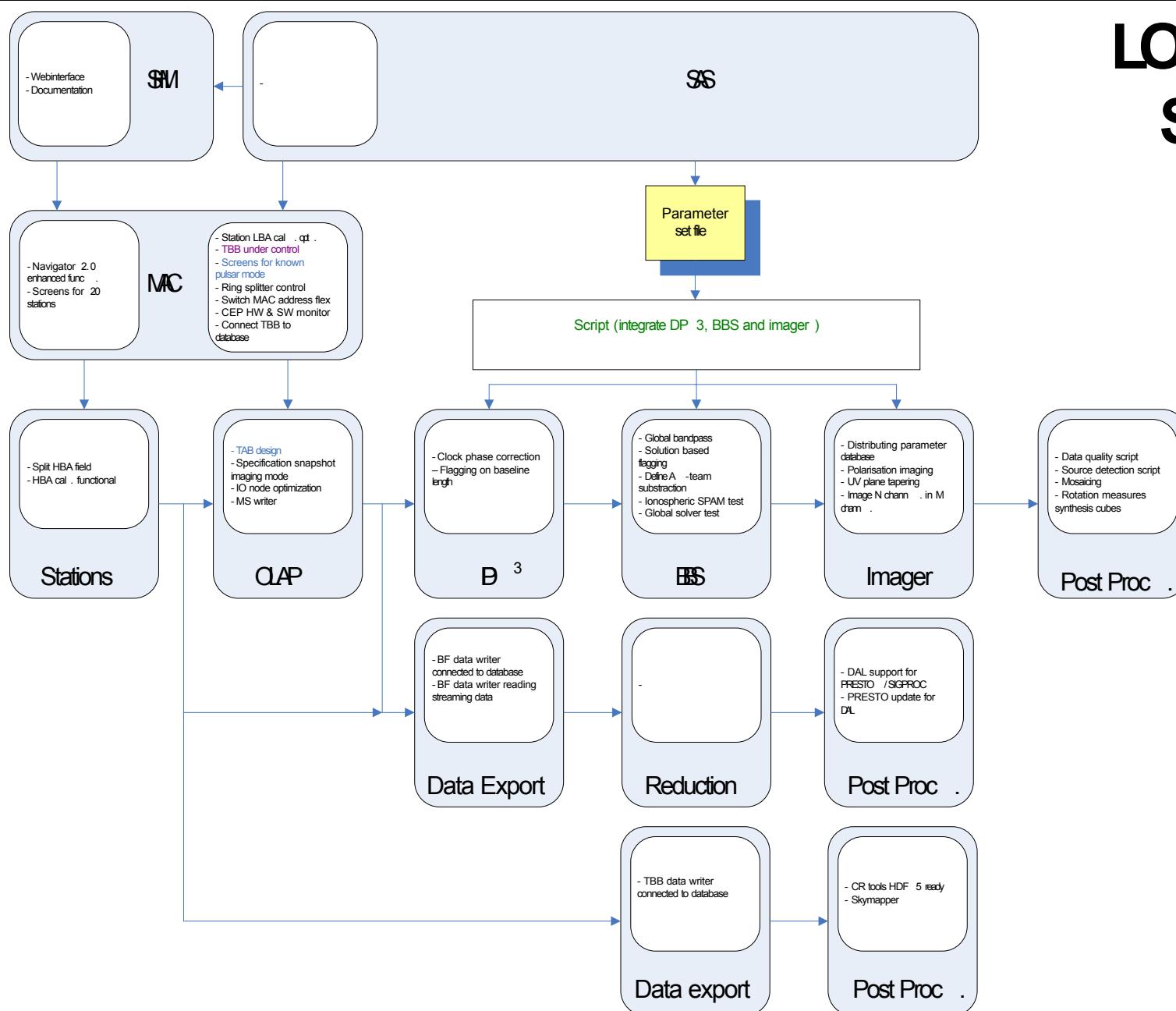


View: CS010:LOFAR_PIC_Cabinet0



LOFAR

Stap 2



- Split HBA field support
- HBA calibration functional
- Finish IO performance improvements
- Enhance storage robustness
- Tied Array Beamformer design
- TBB control under MAC/SAS

- Add CEP screens to Navigator
 - Build HW & SW CEP monitor
 - Integration of BBS in offline pipeline
 - Global bandpass correction in DP^{^3}
 - Clock phase correction in DP^{^3}
 - Solution based flagging in BBS
 - Polarization imaging
-

- UV plane taper in imager
- RM synthesis tool prototype
- GSM database implementation
- BF data writer handling streaming data
- Near field imager
- CR post processing pipeline