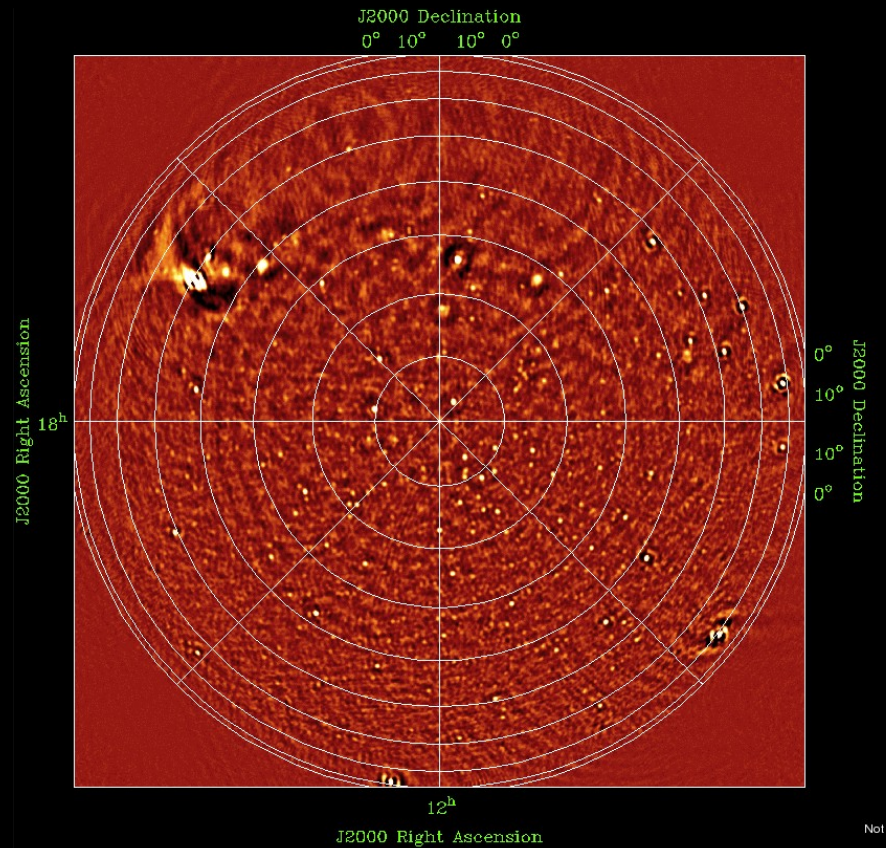


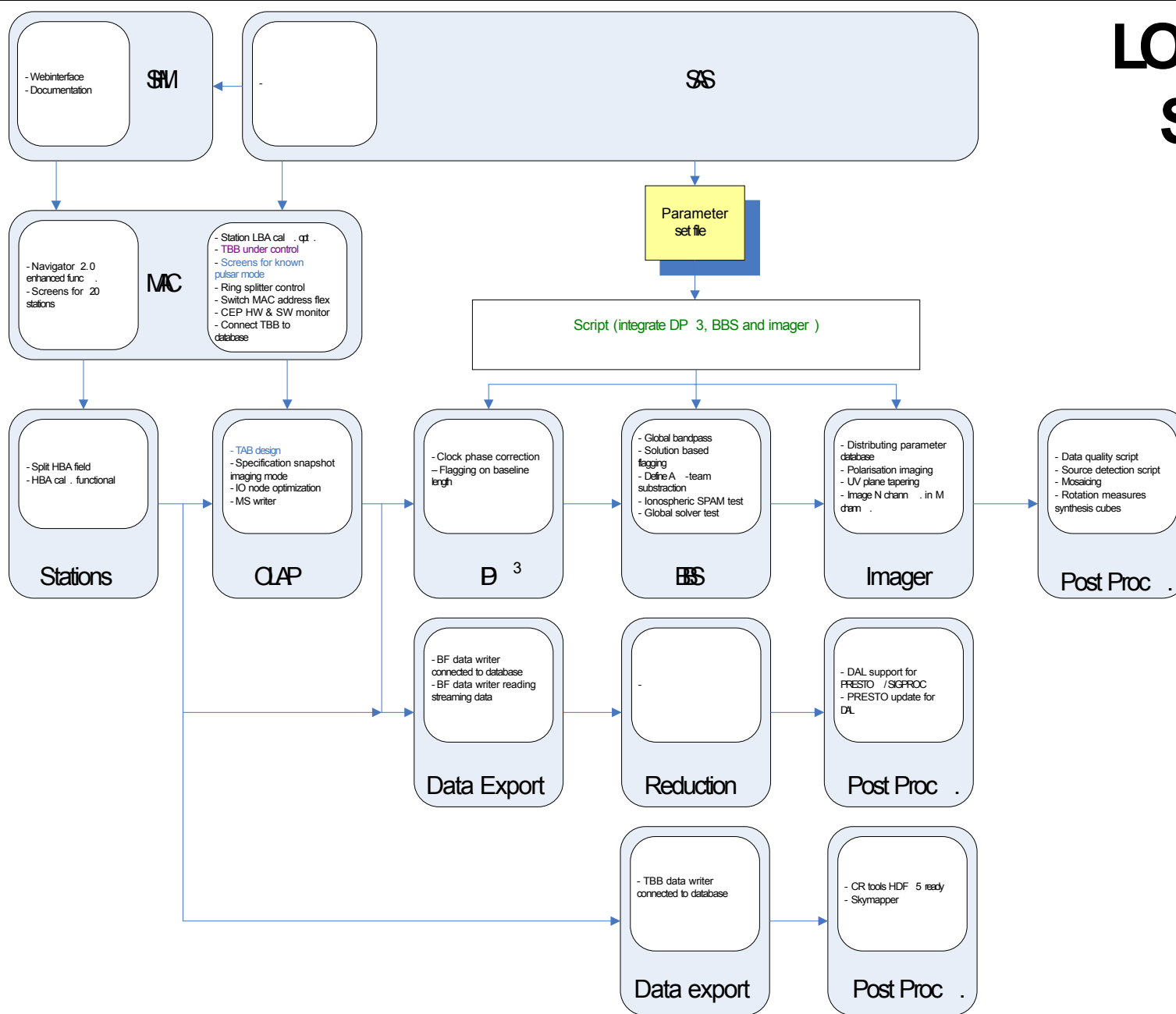
LOFAR Software Update

André Gunst



LOFAR 0

Step 2

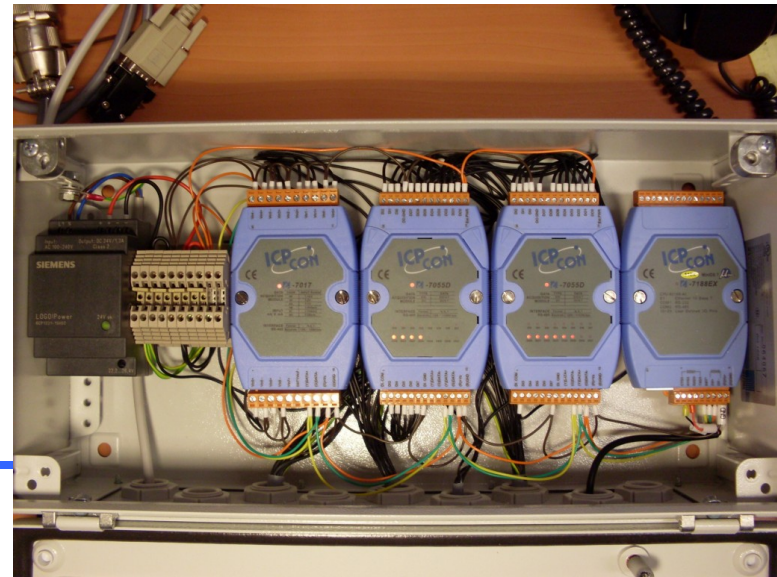


Standard
Imaging
Mode

Known
Pulsar
Mode

VHECR
Mode

- Split HBA field firmware
- TBB memory upgrade possibilities
- BG/P IO node optimization
- Tied Array Beamformer design/implementation
- Variable polyphase filter bank implementation
- Enhancement of fault tolerance
- Environment control unit
- Build software monitor
- Use of cable information in LCU
- Develop new Navigator screens



Hardware Observations Processes Reports Alerts Previous Next 10:29:47 12/01/09 Show TestPanel

LOFAR_Europe

Hardware

- Core
- Remote
- DE601
- DE602
- DE603
- DE604
- FR606
- SE607
- UK608

Processes

Processes

Hardware MCU001:LOFAR_PIC_Europe

2009.01.12 10:28:35.9	CS016:LOFAR_PIC_Cabinet0_Subrack0_RSPBoard2	SHM:http://10.144.0.1/shm/data/rsp/cs016/image/2/?ep ACK	T
2009.01.12 10:27:45.5	CS016:LOFAR_PIC_Cabinet0_Subrack0_RSPBoard3_RCU29	SHM:http://10.144.0.1/shm/data/sst/cs016/image/29/?ep ACK	B
2009.01.12 10:28:30.0	CS001:LOFAR_PIC_Cabinet0_Subrack0_RSPBoard2_RCU18	SHM:http://10.144.0.1/shm/data/sst/cs001/image/18/?ep ACK	B

58 / 69

Locabr

Ring

PVSS-II: Navigator

Hardware | Observations | Processes | Reports | Alerts | Legend | Previous | Next | 15:26:32 02/03/09 | Show TestPanel

Hardware

Hardware

- CS010

Processes

Processes

Locator

- Ring
- SmLOFAR

Hardware CS010:LOFAR

Alarms: 0

1 2 3 4 5 6 7

The interface displays a map of the LOFAR antenna array with 48 stations numbered 1 through 48. A legend below the map shows seven antenna types, each represented by a circle with four legs. The types are: 1. Black circle with black legs; 2. Red circle with black legs; 3. Black circle with red legs; 4. Green circle with black legs; 5. Green circle with green legs; 6. Red circle with red legs; 7. Green circle with red legs. The map also includes a compass rose showing a bearing of 360 degrees and a 'Select Array' dropdown menu with options for HBA and LBA. The right-hand panel shows a tree view of hardware and processes, with 'SmLOFAR' selected under the 'Ring' locator.

12^h

J2000 Right Ascension

Not

- Flagging on baseline length and station number
- Testing of ionospheric module in BBS
- DPPP & BBS VDS compatibility
- UV plane tapering
- Facet imaging
- Imager pipeline data product definition
- Initial LSM implementation
- Specification for CR particle detector
- Prototype CR post processing pipeline
- Skymapper framework operational
- Algorithm development for RM synthesis
- Installation Step 1 soft/firm ware on system
- Automatic LCU kickstart installation