

LOFAR documents

LOFAR related documents. Many have been used in the CDR of May 2007. These documents probably reflect the most up-to-date view of the system, though some parts may have been obsoleted again. many of these documents can also be found in the LOFAR document Server.

General

- [LOFAR ADD](#)
- [LOFAR paper](#) (M. de Vos, A.W. Gunst, & R. Nijboer. "The LOFAR telescope: System Architecture and Signal Processing" in Proceedings of the IEEE, Special Issue "Advances in Radio Telescopes", Nov 2009)
- [LOFAR System Requirements \(SRS-001\)](#)

WAN

- [LOFAR WAN ADD](#)

Station

- [Station ADD](#)
- [LBA ADD](#)
- [RCU signal analysis](#)
- [RSP firmware functional description](#)
- [Clock synchronisation description](#)

CEP

- [CEP ADD](#)
- [OLAP SDD](#)
- [Calibration implementation](#)
- [BBS SDD](#)
- [MAC ADD](#)
- [SAS SDD](#)
- [SHM ADD](#)
- [Harm Paas' Bootleg system document \(restricted\)](#)

Pipelines

Possible Beam Formed Observing Modes (PDF):

- [Beam Formed "Single" Observing Modes \(March 9, 2011\)](#)

- [Beam Formed All-possible Combinations of Observing Modes \(March 9, 2011\)](#)

Beam Formed Pipeline Checklist & Planning (EXCEL & PDF):

- [BF Pipeline Planning 20110419 PDF \(Apr 19, 2011\)](#)
- [BF Pipeline Planning 20110406 PDF \(Apr 6, 2011\)](#)
- [BF Pipeline Checklist v0.22 EXCEL \(Apr 6, 2011\)](#)
- [BF Pipeline Checklist v0.22 PDF \(Apr 6, 2011\)](#)
- [BF Pipeline Checklist v0.21 EXCEL \(Mar 22, 2011\)](#)
- [BF Pipeline Checklist v0.21 PDF \(Mar 22, 2011\)](#)
- [BF Pipeline Planning 20110304 PDF \(Mar 4, 2011\)](#)
- [BF Pipeline Checklist v0.20 EXCEL \(Feb 8, 2011\)](#)
- [BF Pipeline Checklist v0.20 PDF \(Feb 8, 2011\)](#)
- [BF Pipeline Planning 20110127 PDF \(Jan 27, 2011\)](#)
- [BF Pipeline Checklist v0.19 EXCEL \(Dec 9, 2010\)](#)
- [BF Pipeline Checklist v0.19 PDF \(Dec 9, 2010\)](#)
- [BF Pipeline Checklist v0.18 EXCEL \(Sept 26, 2010\)](#)
- [BF Pipeline Checklist v0.18 PDF \(Sept 26, 2010\)](#)
- [BF Pipeline Checklist v0.17 EXCEL \(Sept 22, 2010\)](#)
- [BF Pipeline Checklist v0.17 PDF \(Sept 22, 2010\)](#)
- [BF Pipeline Checklist v0.16 EXCEL \(Aug 25, 2010\)](#)
- [BF Pipeline Checklist v0.16 PDF \(Aug 25, 2010\)](#)
- [BF Pipeline Checklist v0.15 EXCEL \(July 14, 2010\)](#)
- [BF Pipeline Checklist v0.15 PDF \(July 14, 2010\)](#)
- [BF Pipeline Checklist v0.14 EXCEL \(June 16, 2010\)](#)
- [BF Pipeline Checklist v0.14 PDF \(June 16, 2010\)](#)
- [BF Pipeline Checklist v0.13 EXCEL \(May 12, 2010\)](#)
- [BF Pipeline Checklist v0.13 PDF \(May 12, 2010\)](#)
- [BF Pipeline Checklist v0.12 EXCEL \(Apr 21, 2010\)](#)
- [BF Pipeline Checklist v0.12 PDF \(Apr 21, 2010\)](#)
- [BF Pipeline Checklist v0.11 EXCEL \(Apr 7, 2010\)](#)
- [BF Pipeline Checklist v0.11 PDF \(Apr 7, 2010\)](#)
- [BF Pipeline Checklist v0.10 EXCEL \(Mar 24, 2010\)](#)
- [BF Pipeline Checklist v0.10 PDF \(Mar 24, 2010\)](#)
- [BF Pipeline Checklist v0.9 EXCEL \(Mar 10, 2010\)](#)
- [BF Pipeline Checklist v0.9 PDF \(Mar 10, 2010\)](#)
- [BF Pipeline Checklist v0.8 EXCEL \(Feb 24, 2010\)](#)
- [BF Pipeline Checklist v0.8 PDF \(Feb 24, 2010\)](#)
- [BF Pipeline Checklist v0.7 EXCEL \(Feb 10, 2010\)](#)
- [BF Pipeline Checklist v0.7 PDF \(Feb 10, 2010\)](#)
- [BF Pipeline Checklist v0.6 EXCEL \(Jan 28, 2010\)](#)
- [BF Pipeline Checklist v0.6 PDF \(Jan 28, 2010\)](#)
- [BF Pipeline Checklist v0.5 EXCEL \(Jan 13, 2010\)](#)
- [BF Pipeline Checklist v0.5 PDF \(Jan 13, 2010\)](#)
- [BF Pipeline Checklist v0.4 EXCEL \(Dec 16, 2009\)](#)
- [BF Pipeline Checklist v0.4 PDF \(Dec 16, 2009\)](#)
- [BF Pipeline Checklist v0.3 EXCEL \(Nov 18, 2009\)](#)
- [BF Pipeline Checklist v0.3 PDF \(Nov 18, 2009\)](#)
- [BF Pipeline Checklist v0.2 EXCEL \(Nov 17, 2009\)](#)
- [BF Pipeline Checklist v0.2 PDF \(Nov 17, 2009\)](#)
- [BF Pipeline Checklist v0.1 EXCEL \(Nov 5, 2009\)](#)

- [BF Pipeline Checklist v0.1 PDF \(Nov 5, 2009\)](#)

DataFormats

- [Description of the Measurement Set \(MS2\) format for LOFAR 0.5 \(Feb 2008\)](#)
- [Description of the Measurement Set \(MS2\) format for LOFAR version 2.07.02 \(15-09-2011\)](#)
version 2.07 in use since May 2011
- [Description of the Measurement Set \(MS2\) format for LOFAR version 2.08.01 \(04-04-2018\)](#)
version 2.08 in use since January 2012
- [Description of the Measurement Set \(MS2\) format for LOFAR version 2.09.00 \(08-03-2022\)](#)
version 2.09 in use since October 2022
- [Description of Image format for LOFAR version 0.03.00 \(24-03-2012\)](#) *Initial version of LOFAR image format in use since May 2012*
- [Description of the LOFAR local parameter and source table formats](#)
- [GIT repository for Interface control documents for LOFAR data products](#)
- [ICD 001 TBB Time Series](#) Updated to version 3.04 to include subband time series (22-11-2018)
- [ICD 002 World Coordinates](#)
- [ICD 003 Beamformed Data](#)
- [ICD 004 missing](#)
- [ICD 005 Naming Conventions](#)
- [ICD 006 Dynamic Spectrum Data](#)
- [ICD 007 Visibility Data](#) **outdated, use Measurement Set for LOFAR instead**
- [ICD 008 Rotation Measurement Synthesis Cubes](#)
- [Raw OLAP data formats](#) (not supported and subject to change)

Document sources:

- <https://git.astron.nl/ro/usg-documents/-/tree/master/ICD>

Archive

- [LOFAR Archive and Reprocessing Requirements](#)
- Instructions how to [install gLite on Ubuntu](#) and tune the network for GRID access.

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<https://www.astron.nl/lofarwiki/> - **LOFAR Wiki**

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