

**Pulsar Pipeline Checklist**

	<b>tasks</b>	<b>Developer</b>
<b>BG/P</b>	TAB Pipeline	John Romain, Jan David Mol, Rob van Nieuwpoort
	Design/preparatory work for BG/P 2nd transpose	John Romain, Jan David Mol, Rob van Nieuwpoort
	Implement BG/P 2nd data transpose	Jan David Mol
	Document "new" BFout stream (post 2nd transpose)	Jan David Mol
	Test and bug fix 2nd transpose	Rob van Nieuwpoort, Jan David Mol, John Romain
<b>SAS / MAC</b>	Integrate of TAB module into SAS/MAC	Jan David Mol, Ruud Overeem
	Offline Pipeline connection to SAS/MAC	John Swinbank, Ken Anderson, A2, Ruud Overeem
<b>BF2H5 online version</b>	BeamFormed Writer (1st version to OLD ICD spec)	Alwin de Jong
	Test svn externals when building LOFARSOFT with the DAL	Lars Baehren, Marcel Loose, Alwin de Jong
	Integrate DAL classes into BF2H5	Alwin de Jong
	Integrate parset reader into BF writer w/in LOFARSOFT	Alwin de Jong, Jan David Mol
	Integrate new BF H5 data format (ICD) into BF2H5 (raw data)	Alwin de Jong
Integrate new BF H5 data format (ICD) into BF2H5 (BG/P out data)	Alwin de Jong, Jan David Mol	
<b>BF ICD</b>	Create mock BF H5 files with 4 types of data storage containers	A2
	Benchmark (DAL C++) 4 storage types to choose optimum BF container	A2, L. Baehren
	Finalize BF ICD	A2, L. Baehren, J. Romain, JD Mol, J. Hessels, K. Anderson
	Identify source of metadata values (& calculations)	Hanno, R. Overeem, J. Hessels, M. Wise, Alwin de Jong, A2, B. Stappers
	Profile BF Observations (& Pipeline) for typical stats on sizes	J. Hessels, B. Stappers, M. Wise
<b>DAL</b>	Create DAL classes for BF metadata and structure (abide by ICD)	Lars Baehren, A2
	Create DAL methods to access data from BF structure (abide by ICD)	Lars Baehren, A2
	Wrap BF DAL classes and methods with Python for PyDAL	A2, Lars Baehren, K. Anderson
	Ongoing PyDAL updates and bugfixes	A2, Lars Baehren, Frank B.
	Integrate HDF5 into file I/O for Presto/TEMPO/etc	A2
<b>Pulsar Tools</b>	Daily build of USG repository on offline cluster	Arno, Mike Wise, Lars
	Integrate FFTW-3.1.2 into cmake	A2
	Integrate PPGPLOT into cmake	A2
	Integrate TEMPO into cmake	A2
	Integrate PRESTO into cmake	A2; Lars
	Integrate SIGPROC into cmake	A2
	Integrate PSRCHIV into cmake	A2
	Test software installation/components on new cluster	A2, J. Hessels, B. Stappers
	Test software installation/components on user machines	Pulsar Group
	Integrate "convert" (bf2presto) into cmake	A2
	Update/maintain/expand "convert" (bf2presto) program for BF observations	Tom Hassal, A2, Jan David Mol
Assist Pulsar Group with integration of tools/scripts into cmake & USG	A2; Lars	
<b>Pulsar Pipeline Integration</b>	Design Pulsar Pipeline for basic observing modes	J. Hessels, B. Stappers, J. van Leeuwen, A2, M. Wise
	Decide how to distribute the Pulsar Pipeline	M. Wise, L. Baehren, J. Hessels, A2, J. Swinbank
	Implement Pulsar Pipeline Design within the iPython Framework	A2, K. Anderson, J. Swinbank
	Pipeline Testing	A2, K. Anderson, J. Swinbank, J. Hessels, B. Stappers, J. Van Leeuwen
	Release Pulsar Pipeline	M. Wise
	Design Pulsar Pipeline(s) for other observing modes including survey	J. Hessels, B. Stappers, J. van Leeuwen, A2, M. Wise
<b>BF2H5 offline version</b>	Extract UDPcopy and IonProc out of LOFARSOFT	Alwin de Jong, Jan David Mol, Masaya
	Extraction process of parameterDB out of LOFARSOFT & distribute offline	Mike to assign this issue to different group
	Create standalone BF2H5 tool	Alwin de Jong, Masaya

<b>Archive</b>	Sync Archive schema with BF ICD	A. Renting, A2, L. Baehren, M. Wise, R. Overeem
	Archive Pulsar raw data	A. Renting
	Archive Pulsar Pipeline Processed data	A. Renting, A2
<b>Misc.</b>	Remove PGPLOT from PRESTO	Lars Baehren, A2
	Work with the VO on format/protocol issues for LOFAR HDF5 data	J. Swinbank, A2, M. Wise, K. Anderson

Commissioner	Expected date of readiness	remarks
Jan David Mol, Jason Hessels	Done in early 2009	
John Romain, Jan David Mol	Done	John, Jan David and Rob have completed the discussions; 4-phased for transpose prep, then transpose
Jan David Mol, Alwin	by March 2010	Rob will no longer be involved; Jan David will implement the entirety of the 2nd transpose
Jan David Mol, Alwin de Jong, Jason Hessels	1-2 days	Jan David is away until next Friday; Alwin to work with John Romain on BF TAB stream contents
	1-2 weeks	
Jan David Mol, Ruud Overeem		Need to ask Jan David for a status on this issue; rumor has it that this is working
John Swinbank, Ken Anderson, A2, Ruud Overeem		John is working with Ruud on the messaging/communication aspect
Alwin de Jong, J. Hessels	Done	Working again; can read parset file and feed keys to header; works w/o UDP
Alwin de Jong, Marcel	in process, 1-week	Lars has spoken to Marcel and emailed relevant info; Lars to touch base with Marcel to implement it
Alwin de Jong		
Alwin de Jong		
Alwin de Jong, A2, J. Hessels		
Alwin de Jong, A2, J. Hessels, Jan David Mol		
A2	Done	4 types are: 1D arrays, ND arrays, 1D tables, ND tables (note ND arrays are memory limited)
A2, Jason Hessels	1-2 weeks	DAL is missing Array/Table real() methods from sub-groups; Lars to add functionality before benchmark
A2, Lars Baehren, J. Romain, JD Mol, J. Hessels, M. Wise		John Romain's comments and James Anderson's comments integrated; moved Coord Group; may c
		Put this as an agenda item for discussion during the next BF status meeting
		should be a chart in the ICD to view typical data sizes for types of observations; waiting on Jason
	in process	implemented three highest tiers of H5 structure (not yet lowest tier where the data structures are)
The Pulsar Group		
	in process	need to formalize the to-do and bug list
The Pulsar Group		
		Mike to start up the process of asking Arno to include this in a daily build
	Done	
	Done	note, depends on system install of PGPLOT
A2 fixing seg fault & other issues on new cluster build	Done	workaround for problems with reading files with line length > 70 chars; fix requested to developer
Ben Stappers, Joeri	1-2 weeks	accelsearch seg fault (non LOFAR data); cmake external dependencies can be made smarter (Lars)
Ben Stappers		
The Pulsar Group	in process	Does not build on the Mac (needs specific version of X11)
	in process; low priority	fixing problems as they unfold
A2, Tom Hassal		Ramesh would like a copy of the software suite within cmake; TEMPO doesn't build on Mac OS 10.6
A2, Tom Hassal, Jan David Mol, J. Hessels		Tom needs to check in his version into the ISG repository
The Pulsar Group		create use-cases and map these to tools/parameter settings; start at PBW #6
		do we need to integrate the Transient S/W repository with the USG S/W repository?
A2, K. Anderson, J. Swinbank		current SH scripts pipeline described and sent to Ken; John & Ken to meet about iPython Framework
A2, J. Hessels, B. Stappers, J. Van Leeuwen		
		not needed for completion of first pipeline release
Alwin de Jong		
Masaya, James Anderson		

A. Renting, A2, J. Hessels  
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in process

meetings took place to mesh the LOFAR ICD with the Archive schema

The Pulsar Group  
?

investigate S2PLOT or some other package which can be used in general for LOFAR data plotting  
not needed for pipeline release