Computing Working Group		Main tacks and tonics		Milestones & Deliverables		Chair	Members			
		Main tasks and topics		ivillestories & Deliverables		Chair	Project		Institutes	
1	Architecture, Framework & Distrib. Comput.	- Propose the general architecture including the distributed computing	Q4 2013	Online system conceptual design note		Thorsten Kollegger	DAQ	Budapest	CERN	
		- Design the overal framework, define components and interfaces	Q2 2014	Sw fw architecture proposal	2014		HLT	Frankfurt		
							Offline	CERN		
2	Tools, guidelines, procedures	- Propose survey and evaluation procedures	Q2 2013	Procedures and policies draft prop.	2013 +	Adriana Telesca	DAQ	CERN		
		- Propose common guidelines and policies	Q3 2013	Procedures and policies proposal	when		HLT			
		- Select tools to implement procedures, policies and development environment	Q3 2013	Common tools proposal	needed		Offline	CERN		
3	Dataflow & Condition Data	- Design and develop mechanisms to exchange & share physics & conditions data	Q3 2013	Dataflow simulation	Dames	Timo Breitner	DAQ	CERN		
		- Communication, data transport, dataflow control and config, Shuttle, OCDB	Q4 2013	Dataflow design proposal	Perma-		HLT	Frankfurt		
		- Computing system simulation	Q2 2014	Dataflow demonstrator	nent		Offline	Caltech		
4	Data model	- Study the functional and performance aspects of the data model	Q42013	Data model proposal	Perma- nent	Andrei Gheata	DAQ	CERN		
		- Data format and data exchange	Q2 2014	Data model demonstrator			HLT	Frankfurt		
		- Data compression					Offline	CERN		
5	Computing Platforms	- Study parallel technologies and alternative platforms (Atom, ARM, etc)	Q3 2013	Define list of platforms and benchmarks	2014	Matthias Kretz	DAQ	Budapest	CERN	
		- Define contraints for an effective usage of parallel technologies	Q4 2013	Guidelines use of parallel plaforms hw+sw			HLT	Frankfurt		
		- Assess the advantages of sw contructions e.g. threads, processes	Q2 2014	Proposal on the use of parallelism	7		Offline	CERN		
6	Calibration	- On-line calibration	1		Perma- nent	TBD: PB, TPC, ITS	DAQ	1		
				Possible merge with PWG-PP Calibration			HLT	1		
		- Asses the feasibility of automatic calibration procedures		1			Offline	INFN	GSI	Zagreb
7	Reconstruction	- Study the online frame-based reconstruction		D 111 111 111 111 111 111 111 111 111 1	Perma- nent	TBD: PB, TPC, ITS	DAQ			
		•		Possible merge with PWG-PP Tracking and			HLT	Frankfurt		
		- Asses the feasibility of time frame based reconstruction		Alignment			Offline	CERN	GSI	Mumbay
8	Physics simulation	- Study the physics simulation inc. on time-frames and continuous readout		2 11 11 21 21 22 5 1 11 2	Perma- nent	Andreas Morsch	DAQ			
				Possible merge with PWG-PP Embedding &			HLT			
		- Physics simulation packages		Mix, Monte-Carlo			Offline	CERN	Mumbay	
9	QA, DQM, visualization	- Online and offline DQM and QA			Perma- nent	Barthelemy von Haller	DAQ	CERN		
				Possibly merge with PWG-PP QA			HLT			
		- Data visualization, event display		1			Offline	CERN	Warsaw	
10	Control, config. & monitoring	- Control: Experiment control system	Q4 2013	Survey of methods and	Perma- nent	Vasco Chibante	DAQ	CERN		
		- Configuration		tools for the exp. Control			HLT	Frankfurt		
		- Bookeeping and monitoring : Alarm system and eLogBook	Q2 2014	Tools selection + demonstrator			Offline	CERN		
11	Software Lifecycle	- Implement the complete software lifecycle : development, releases, QC	Q3 2013	Lifecycle draft proposal	Perma- nent	Peter Hristov	DAQ	CERN		
		- Implement policies defined by CWG2 on the reference system	Q4 2013	Lifecycle proposal			HLT			
		- Code quality enforcement system	Q1 2014	Reference system in production			Offline	CERN		
12	Computing hardware	- Test and recommend commercial hw			Dozena	HLT	DAQ	CERN		
		- Design and develop custom hw	Q4 2013	First tests os the key technologies	Perma- nent		HLT	Frankfurt		
		- Purchase, install and administrate the reference and production systems	Q2 2014	A few options for each hw item			Offline			
13	Analysis	- Design and develop an analysis framework and associated tools	Q4 2013	Design note	Perma-	Offline	DAQ			
		- Define an AOD data format		Demonstrate the improvement compared			HLT			
		- Study the global performances for batch and interactive		to the present framework	nent		Offline			