

WP5 introduction

M. Wing, All

- Overall status
- AIDA-2020 milestones and deliverables
- Publications
- Extension of AIDA-2020



Overall status

- We had four deliverables and three milestones due at the end of October 2017.
- We finished MS80, Common DAQ system ready for combined beam tests, due Month 36, i.e. end April 2018.
- We now have:
 - One deliverable left, D5.6, Common DAQ system used in combined beam tests, due Month 45, i.e. end January 2019 (or month 57, end January 2020).
- In general, the four deliverables and four milestones means that things are generally in place. Software and hardware is available and has been used in different beam tests.
- Rest of project is use in further beam tests and any improvements resulting from this.

AIDA-2020 WP5 upcoming deliverables

List of deliverables					
Deliverable Number ¹⁴	Deliverable Title	Lead beneficiary	Type ¹⁵	Dissemination level ¹⁶	Due Date (in months) ¹⁷
D5.1	Interface definition	30 - UCL	Report	Public	15
D5.2	Trigger Logic Unit ready	31 - UNIBRIS	Demonstrator	Public	30
D5.3	Data acquisition software	30 - UCL	Report	Public	30
D5.4	Data acquisition hardware	31 - UNIBRIS	Demonstrator	Public	30
D5.5	Online event data model	9 - DESY	Report	Public	30
D5.6	Common DAQ system used in combined beam tests	30 - UCL	Report	Public	45

All v0 parts of system to be ready by month 30, i.e. 31/Oct/2017

31/Jan/2019
(31/Jan/2020)

- ~~• D5.1 Definition of interface standards for the common DAQ system which will describe how the detector DAQ system connects to the common DAQ. (Task 5.2)~~
- ~~• D5.2 The TLU hardware, including interface to CGC, will be ready, along with first versions of firmware and software for testing and integration with detector systems. (Task 5.2)~~
- ~~• D5.3 A software, including EUDAQ interfaces, run control, data monitoring and slow control will be available for common detector test beams. (Tasks 5.3, 5.4)~~
- ~~• D5.4 As well as the TLU and software, the computing infrastructure, principally PCs, disks and networking, will be ready. (Tasks 5.2, 5.3)~~
- ~~• D5.5 Definition of the online event data model, i.e. the concept of an event for detector systems having very different integration times, compatible with the offline software and in coordination with WP3. (Task 5.5)~~
- D5.6 The DAQ system will be in use in common test-beam campaigns and the final description of the implementation and performance results will be presented in a report. (Tasks 5.1, 5.2, 5.3, 5.4, 5.5)

AIDA-2020 WP5 upcoming milestones

Number	Definition	Beneficiary	Month	Verification	
MS25	Definition of detector interface standards with common DAQ (Definition of interface standards for the common DAQ system which will describe how the detector DAQ system connects to the common DAQ, Task 5.2)	UCL	15	Report to StCom	
MS43	Trigger logic unit (TLU) design ready (This will include the design of the interface to the CCC as well as firmware block diagrams and implementation plan, Task 5.2)	Bristol	21	Report to StCom	31/Jan/2017
MS46	EUDAQ interfaces to other DAQs available (EUDAQ interfaces to other DAQs available for integrating different software and hence different detector systems into the central common system, Task 5.3)	DESY	24	Test running results	
MS47	Online event data model available (Definition of the online event data model, i.e. the concept of an event for detector systems having very different integration times, compatible with the offline software and in coordination with WP3, Task 5.5)	DESY	24	Test running results	30/Apr/2017
MS62	Development of run control ready (Development of run control ready, incorporating controls for data taking, the ability to send and receive configuration data and receive status messages, Task 5.3)	UCL	27	Test running results	31/Jul/2017
MS66	TLU hardware, firmware and software ready for tests beams (The hardware, along with the interface to the CCC, as well as the firmware and software will be ready for integration by detector systems, Task 5.2)	Bristol	30	Test running results	
MS67	Data quality monitoring tools ready (Data quality monitoring tools ready, comparing quantities as soon as possible after data taking but as accurate as possible as offline to expected distributions, Task 5.4)	UCL	30	Test running results	31/Oct/2017
MS68	Slow control system ready (Slow control system ready to monitor environmental conditions from the various detector systems, providing a synchronised picture of the conditions, Task 5.4)	Prague	30	Test running results	
MS80	Common DAQ system ready for combined test beams (Tasks 5.1, 5.2, 5.3, 5.4, 5.5)	UCL	30	Test running results	30/Apr/2018

All milestones are complete !

Publications

<http://aida2020.web.cern.ch/science/publications>

- It is very important to write up our work in journal publications, present at conferences and write up the proceedings.
- Any such write ups need the correct acknowledgement of the EU AIDA-2020 grant.
- There is a publications scorecard.
- Last time: 0 / 0 / 3.
- Shows status at time of Zürich meeting: 0 / 1 / 4.

aida2020.web.cern.ch

XFEL ▾ PDPWA ▾ HEP ▾ Admin ▾ Physics ▾ Travel ▾ Computing ▾ Apple ▾ Kino/Kultur ▾ News ▾

Publication Score Board

WP	No. of journal publications	No. of conference/ workshop proceedings	Other publications	Total
WP2	0	0	6 press articles 6 "On track" newsletter issues	12
WP3	2	3	6 presentations 3 scientific notes	14
WP4	0	0	1 poster	1
WP5	0	1	2 presentations 1 scientific note 1 poster	5
WP6	10	2	1 poster	13
WP7	11	8	2 presentations 2 posters	23
WP8	2	2	0	4
WP9	1	0	5 presentations 1 poster	7
WP13	4	2	1 presentation 3 posters	10
WP14	4	7	1 scientific note	12
WP15	0	7	6 presentations 5 scientific notes 7 posters	25
TOTAL	34	32	60	126
TARGET	60	50	-	180

Publications

<http://aida2020.web.cern.ch/science/publications>

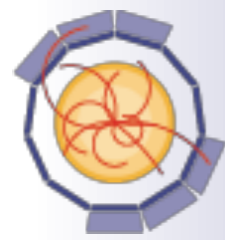
- It is very important to write up our work in journal publications, present at conferences and write up the proceedings.
- Any such write ups need the correct acknowledgement of the EU AIDA-2020 grant.
- There is a publications scorecard.
- Last time: 0 / 0 / 3.
- Shows status at time of Zürich meeting: 0 / 1 / 4.
- Now: 0 / 2 / 10. Please keep updating.
- Need journal publications on EUDAQ2, DQM4HEP, TLU.

WP	No. of journal publications	No. of conference/ workshop proceedings	Other publications	Total
WP2	0	0	7 press articles 9 "On track" newsletter issues	16
WP3	2	3	6 presentations 3 scientific notes	14
WP4	0	0	1 poster	1
WP5	0	2	6 presentations 2 scientific notes 2 posters	12
WP6	10	2	1 poster	13
WP7	12	8	2 presentations 2 posters	24
WP8	2	2	0	4
WP9	1	0	5 presentations 1 poster	7
WP13	4	2	1 presentation 3 posters	10
WP14	4	7	1 scientific note	12
WP15	2	7	11 presentations 5 scientific notes 7 posters	32
TOTAL	37	33	75	145
TARGET	60	50	-	180

Extension of AIDA-2020

- No call for detectors closing in 2018
- Most likely none in 2019, either
- Discussions for “Innovation pilot” call closing in 2020
 - Test bed for FP9
 - Will most likely have to join with other advanced community
 - Proposal preparation during 2019
 - Funding to start in 2021: 2 year gap
- Precedence EUDET
 - Originally 2006-2009
 - Follow-up DevDet failed in 2008
 - Extension till end of 2010
 - Reduced meeting activity
 - 2011-2015: AIDA

Extension of AIDA-2020



AIDA²⁰²⁰

Extension

- Need to supply to EC
 - Justification
 - Grant Amendment with postponed Deliverables
- Draft 0 circulated
- Justification
 - Delays due to external and / or unforeseen circumstances
 - Postponement for enhances scape or usage
- Deliverables: 8 of each kind
- Finalise in next days
- Format GA
 - Updated descriptions of work for postponed deliverables?
- Iterate once more with WPs
- Propose to Governance Board

Impact on WP5 and beam tests

- For WP5, this means more time to incorporate more beam tests.
- D5.6 pushed back to month 57, 31/Jan/2020.
- Potential beam tests:
 - Continue beam tests with AHCAL, including CMS HGCAL
 - SiW-ECAL and in combination with SDHCAL
 - TPC and Si tracker
 - Non-ILC ?
 - ...