

DMCS-LUT status report

Wojciech Cichalewski et. all.

26.06.2019

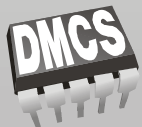


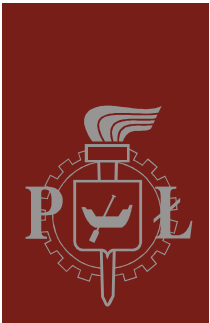
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<http://www.dmcs.p.lodz.pl>



In-Kind project scope

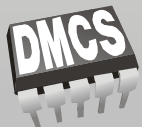
Task no.	Deliverables	Delivery Deadline / Delivery MS
WU 1	MTCA.4 RTM Carrier board integration	2020-09-01 (2019-09-11)
WU 2	icBLM and nBLM controls and realization	2020-09-01 (2019-09-11)
WU 3	IPMI EPICS integration	2020-09-01 (2019-09-11)

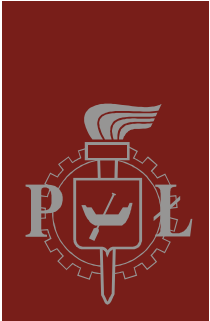




WU 1 – updated milestones (1/3)

Milestone ID	Short Description	Planned/Baseline Date	Location	Comment
MS0	Kick-off meeting	2018.03.15	DMCS, Lodz	
MS1	Specification and requirement analysis phase	2019.03.01	Video conference	
MS2	Conceptual design for software	2019.03.01	ESS, Lund	
MS3	Prototype version of the FW and software components	2019.04.01	Video conference	Driver and API for command line tools prepared for evaluation, EPICS layer missing. External dependency: BSP FW for board – to be delivered by ACC-PEG
MS5	Progress meetings	Quarterly	ESS, Lund/Partner Premises	

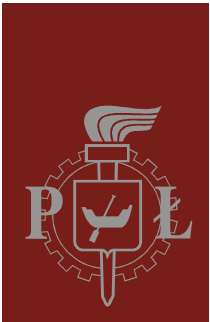




WU 1 – updated milestones (2/3)

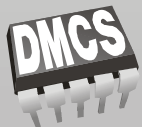
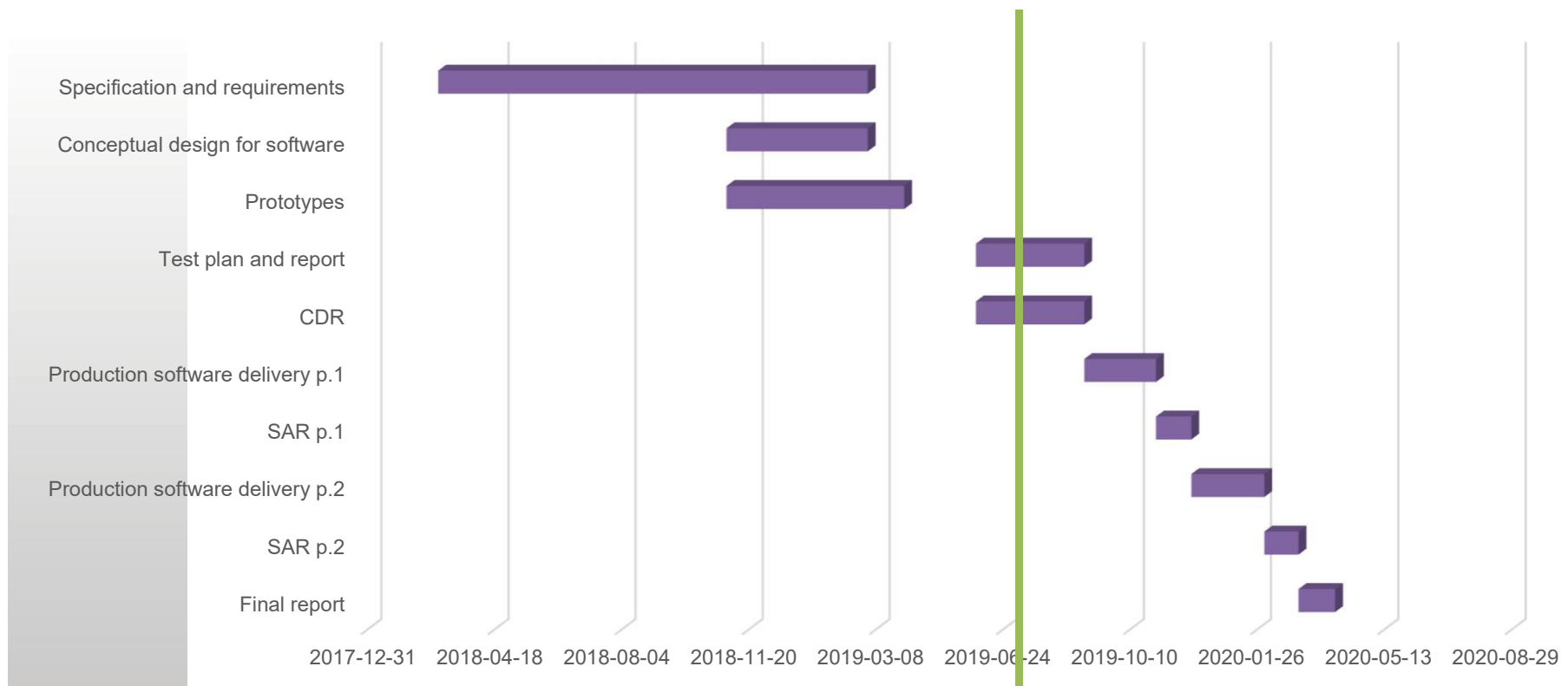
Milestone ID	Short Description	Planned/Baseline Date	Location	Comment
MS6	Test plan and report	2019.09.01	Video conference	
MS7	CDR of WU 1	2019.09.01	Partner premises	Include in the MS6
MS8	Production FW and software version delivery	2019.11.01	ESS, Lund	Software for first M-Beta LLRF systems installation
MS9.1	SAR	2019.12.01	ESS, Lund	Connects to MS8
MS8.2	Production FW and software version delivery	2020.02.01	ESS, Lund	Final version delivery
MS9.2	SAR	2020.03.01	ESS, Lund	Connects to MS8.2
MS10	Final report	2020.09.01		





WU 1 – updated milestones (3/3)

WU 1 - MS update





WU 1 – Deliverables - Status

- ⇒ RTM Carrier hardware:
 - ⇒ HW access limited – shared between different development activities,
- ⇒ Piezo Driver board (M-Beta version – in production, first batch of pre-production modules achieved),
- ⇒ Dedicated HW setup needed for „Production software and firmware delivery”
- ⇒ On-going work on BSP firmware (by NCBJ) for the RTM carrier, synchronized with FW framework (by Christian) – to be delivered by the end of June 2019,
- ⇒ Firmware development for the RTMpiezo driver in progress (firmware adjusted to first and M-beta prototypes),
- ⇒ E3 integration and EPICS layer – to be done (work starts July-August 2019)





WU 2 - nBLM controls and realization – Milestones

Milestone ID	Short Description	Planned/ Baseline Date	Location	Comment
MS0	Kick-off meeting	2018.03.15	DMCS, Lodz	
MS1	Specification and requirement analysis phase	2018.10.01	Video conference	
MS2	Conceptual design for software	2018.11.01	ESS, Lund	
MS3	Prototype version of the FW and software components	2018.12.01	Video conference	Finished - tested in Linac4.
MS5	Progress meetings	Quarterly	ESS, Lund/Partner Premises	
MS7	CDR of WU 2 nBLM	2019.02.06	Partner premises	
MS6	Test plan and report	2019.07.01	Video conference	

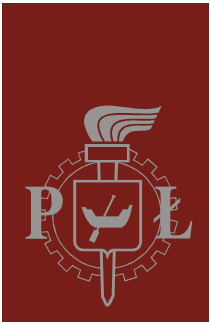




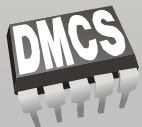
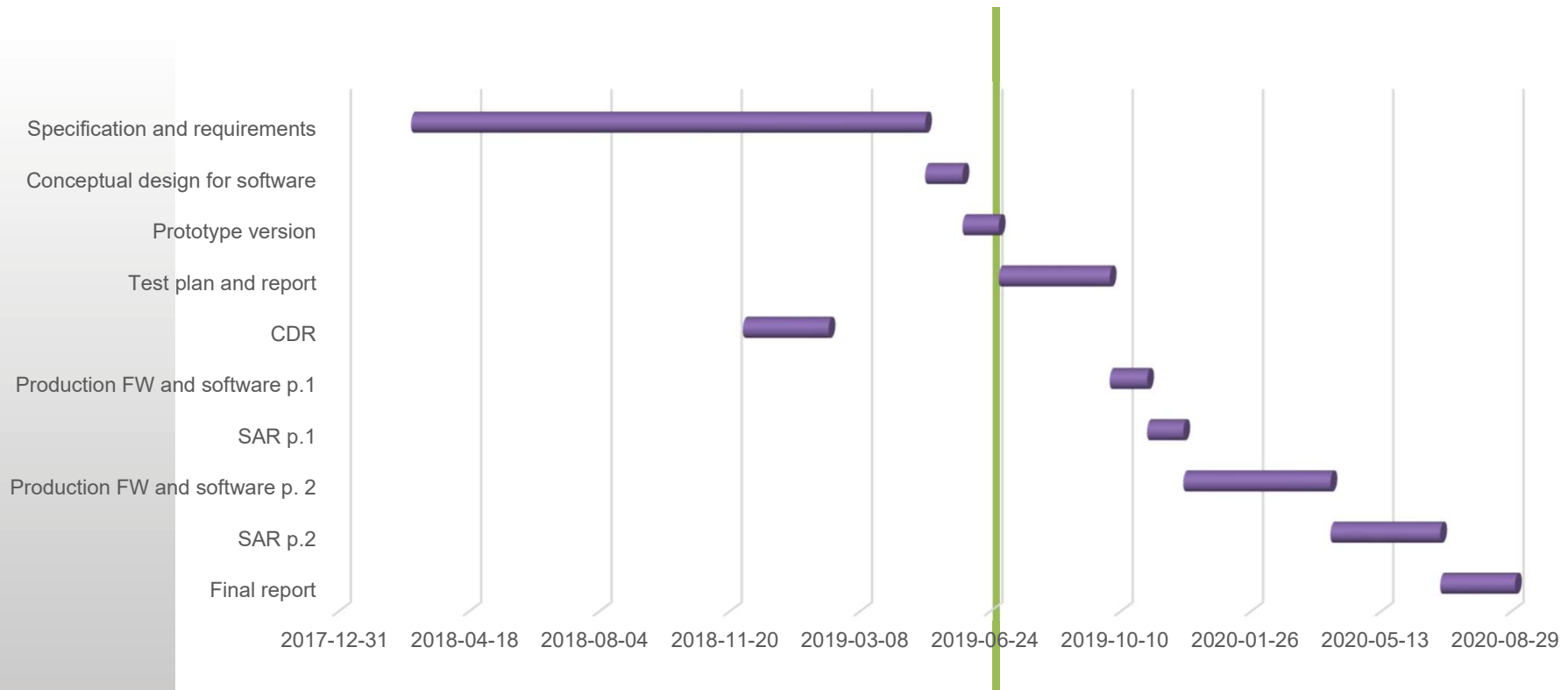
WU 2 - nBLM controls and realization – Milestones

Milestone ID	Short Description	Planned/ Baseline Date	Location	Comment
MS8	Production FW and software version delivery	2019.09.01	ESS, Lund	nBLM FW version delivery for warm accelerator commissioning
MS9	SAR	2019.11.01	ESS, Lund	nBLM FW version acceptance review for warm accelerator commissioning
MS8.2	Production FW and software version delivery	2020.01.01	ESS, Lund	Final version delivery (with adjustments from first delivery operation experience)
MS9.2	SAR	2020.02.01	ESS, Lund	
MS10	Final report	2020.09.01		





WU 2 - nBLM controls and realization – Milestones





WU 2 - icBLM controls and realization – Milestones

Milestone ID	Short Description	Planned /Baseline Date	Location	Comment
MS0	Kick-off meeting	2018.03.15	DMCS, Lodz	
MS7	CDR of WU 2 icBLM	2019.02.01	Partner premises	CDR have been done at the same time but limited to the HW platform evaluation
MS1	Specification and requirement analysis phase	2019.05.01	Video conference	
MS7.2	CDR follow-up	2019.05.01	ESS, Lund	Finalizing digitizer board integration on the carrier board.
MS2	Conceptual design for software	2019.06.01	ESS, Lund	
MS3	Prototype version of the FW and software components	2019.07.01	Video conference	
MS5	Progress meetings	Quarterly	ESS, Lund/Partner Premises	

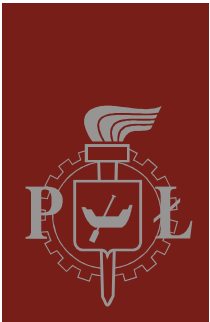




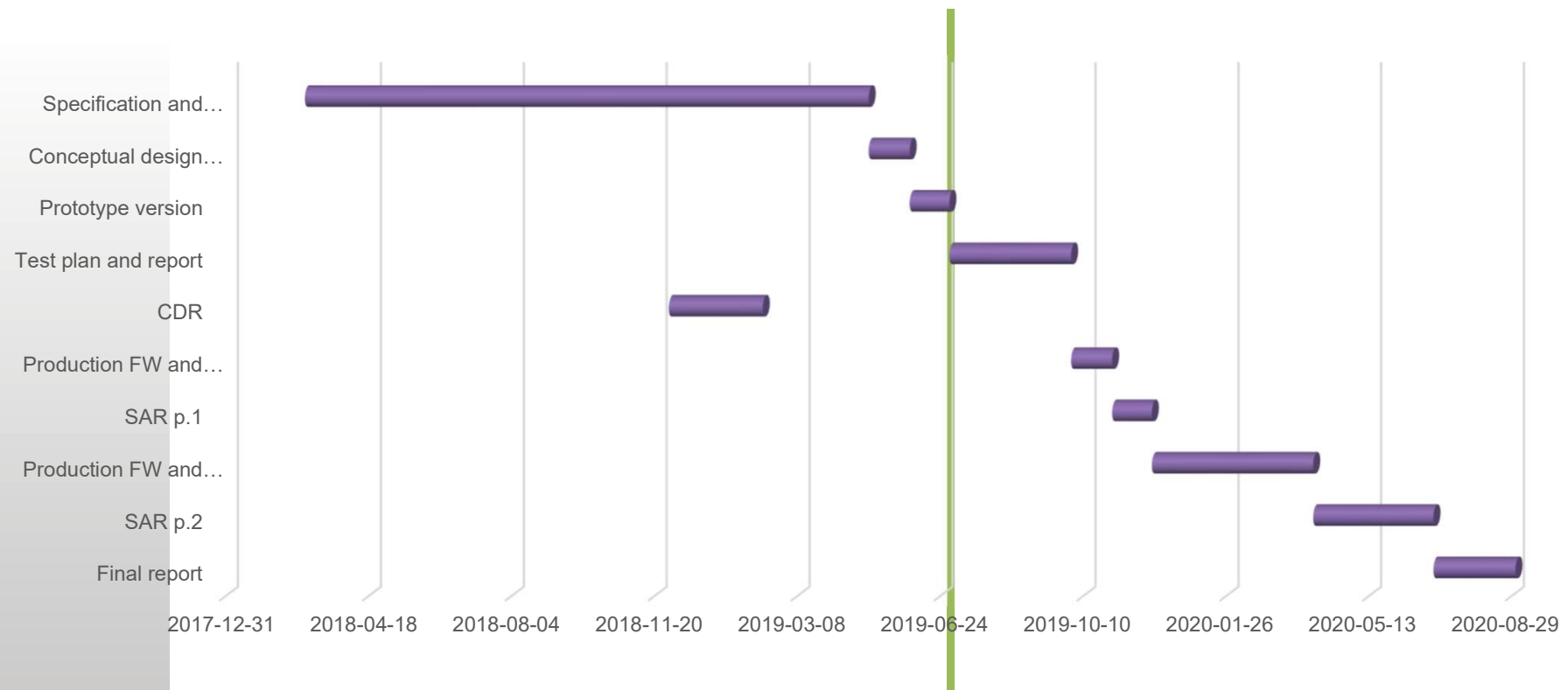
WU 2 - icBLM controls and realization – Milestones

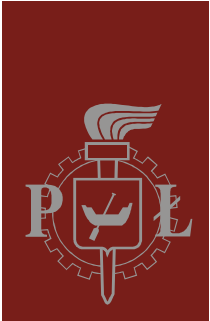
Milestone ID	Short Description	Planned /Baseline Date	Location	Comment
MS6	Test plan and report	2019.10.01	Video conference	
MS8.1	Production FW and software version delivery	2019.11.01	ESS, Lund	icBLM FW&SW version delivery for warm accelerator commissioning
MS9.1	SAR	2019.12.01	ESS, Lund	icBLM FW/SW version acceptance review for warm accelerator commissioning
MS8.2	Production FW and software version delivery	2020.04.01	ESS, Lund	Final version delivery (with adjustments from first delivery operation experience)
MS9.2	SAR	2020.07.01	ESS, Lund	
MS10	Final report	2020.09.01		





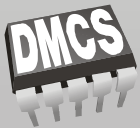
WU 2 - icBLM controls and realization – Milestones





WU 2 – Deliverables - Status

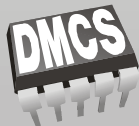
- ⇒ nBLM dedicated FW/SW development in progress,
- ⇒ FW release in git repository - feedback from ESS and CEA side, CEA in progress with EPICS layer, evaluated @ESS,
- ⇒ HW platform IFC1410 + FMC digitizers tested,
- ⇒ icBLM dedicated FW/SW development in progress,
- ⇒ IOC for icBLM – under development,
- ⇒ icBLM and nBLM GUIs unification (guidelines) needed,
- ⇒ Unresolved issues: smart trigger, timing, DOD, etc...
- ⇒ Progress and issues discussed on the weekly meetings





WU 3 – IPMI EPICS integration - Milestones

Milestone ID	Short Description	Planned/Baseline Date	Location	Comment
MS1	Specification and requirement analysis phase	2019.03.01	Video conference	
MS2	Conceptual design for software	2019.03.01	ESS, Lund	
MS3	Prototype version of the software components	2019.10.01	Video conference	
MS4	Progress meetings	Quarterly	ESS, Lund/Partner Premises	
MS5	CDR of WU 3	2019.10.01	Partner premises	to be clarified?

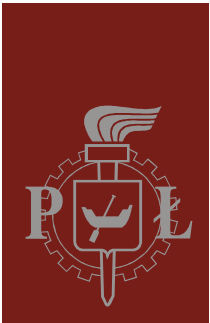




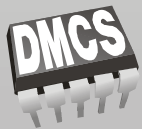
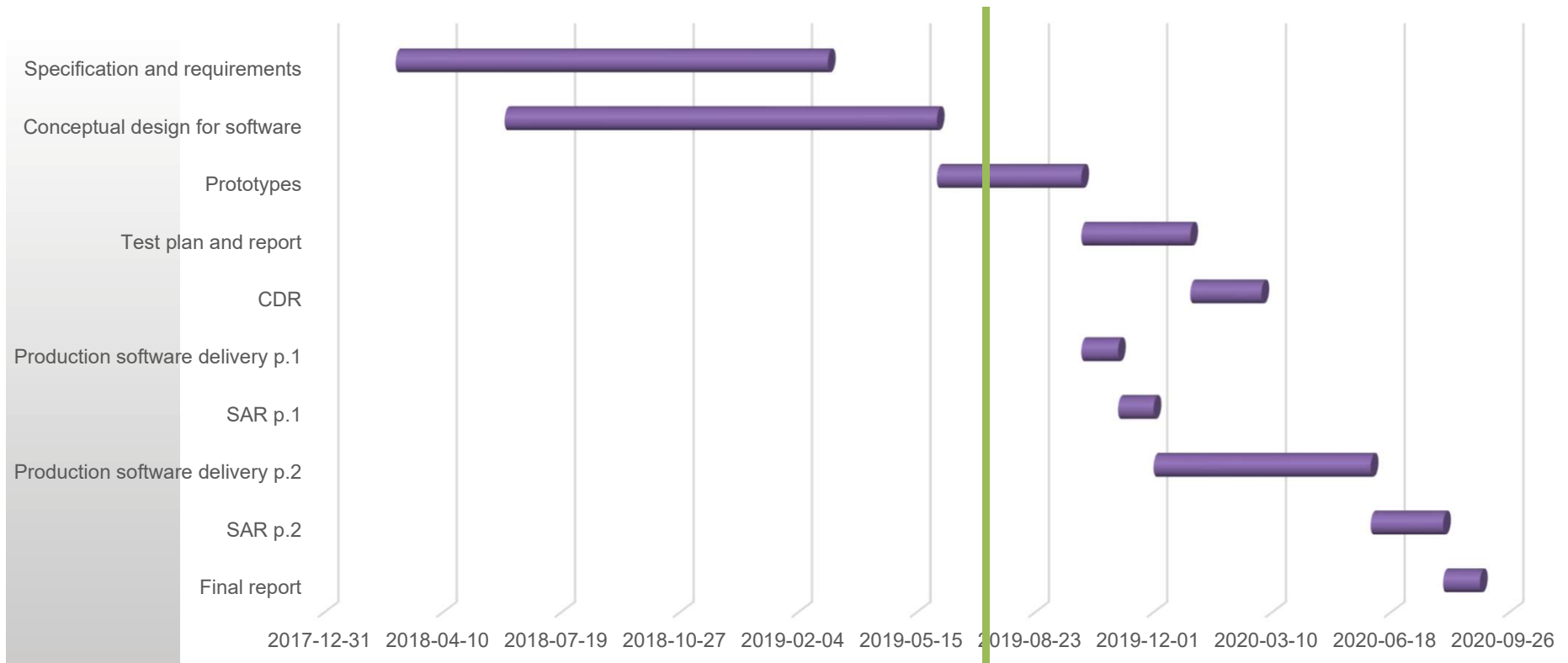
WU 3 – IPMI EPICS integration - Milestones

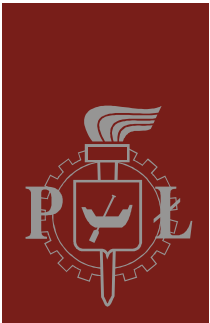
Milestone ID	Short Description	Planned/ Baseline Date	Location	Comment
MS6	Production software version delivery	2019.11.01	ESS, Lund	SW version delivery for warm accelerator commissioning – scope needs to be determined,
MS7	SAR	2019.12.01	ESS, Lund	
MS8	Test plan and report	2020.01.01	Video conference	
MS6.2	Production software version delivery	2020.06.01	ESS, Lund	Final version delivery (with adjustments from first delivery operation experience)
MS7.2	SAR	2020.08.01	ESS, Lund	
MS10	Final report	2020.09.01		





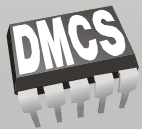
WU 3 – IPMI EPICS integration - Milestones



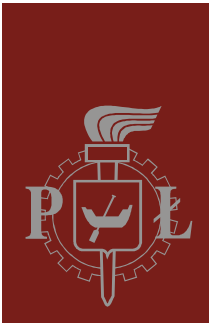


WU 3 – Deliverables - Status

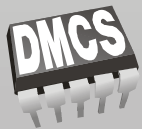
- ➔ Information, details, future plans – see presentation by Piotr Perek,



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Thank you for your attention



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