

HL-LHC computing review

DOMA

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News about the review

- Impossible to have a physical meeting ~mid May 2020
- Format has changed:
 - Keep submission date of documents for review on May 1st, with the understanding that the documents may not have received the same level of scrutiny as would normally be expected
 - Have a VIDYO meeting at the dates originally foreseen for the review. Exact day to be decided. Initial plan for this meeting:
 - A presentation of each of the 5 documents, with 20 minutes presentation + 20 minute discussion each
 - Participation: 1 or 2 people per document, panel, Frank Simon: < 25 total
 - Panel to provide feedback, also feedback for funding agencies
 - If needed dedicated follow-up meetings to address additional questions
 - Foresee one more VIDYO meeting in the early fall, to focus on particularly pressing issues. Main idea here is to keep the process moving
 - Longer perspective: in-person review meeting pushed back by ~ 1 year, to take place in ~ Q2, 2021
- This is a draft, might change again
 - We did not discuss for example the common software review planned for Q3 2021

The DOMA document

- <https://docs.google.com/document/d/1KglUSvYm2l7GT2qkKSTrNTSrpXsWezQsl9dRYc-1rU/edit#>
- Structure:
 - General intro
 - One section per Working Group (TPC, ACCESS, QoS). Each of those sub-structured:
 - Background, Current Status and Findings, Medium 2 years) and Long Term (5 years) plan
 - One section on Network R&D, one section on DOMA related aspect of non-grid resources (Cloud/HPC)
 - Conclusions, Outlook, overall Program of Work

General intro

- STATUS: Done, needs cosmetics
- Description of DOMA project (WGs, activities)
- Description of the view to address the HL-LHC computing challenge
 - Manage operational cost (storage consolidation, simplification of facilities and services, reduce TotalCostOwnership of storage)
 - Optimize hardware cost (QualityOfService including use of LowCost-HighLatency technologies, “virtual data” - data can be easily re-created with low impact on analysis community, new “compressed” data formats – Mini/NanoAOD)
 - Improve sustainability (modernize services, protocols, AAI, ..., leverage common tools – say Rucio, FTS, ...)

WG sections – TPC, ACCESS, QoS

- All in place + some technical material as Appendix.
- Need some finalization, to be done in the next 2 weeks
- All to be reviewed by DOMA community
 - My opinion: findings are solid. Plans are for discussion, but good proposals are in place

Other sections

- Network in very good shape
 - Describes R&D. There is a parallel discussion on network needs, possibly more for the “Facilities” document
- Integration of non Grid facilities in progress – will be there in 1 week time

To Be Done – and how CMS can contribute

- First, CMS already contributed a lot, both in DOMA activities and on the actual documents
 - Frank W. and Brian B. are among the drivers of the WG activities
- The different sections need to be finalized within 1 week
 - We will have a DOMA meeting to organize this tomorrow Wed 25th March
 - People should start going through the material and comment starting from now. Everyone is invited to do so.
- What is really missing is the Overall Program of Work in the next 5 years
 - Slide 4 presents the view. How do we implement that view and measure the benefits
 - We planned a special discussion on this (with some preparation) on Wed 8th of April
 - We will write the last section based on that and review the full document in the last 2 weeks of April
 - Would be very useful to see the ATLAS and CMS docs (even if they are drafts) in early April as well, to harmonise
- Reminder: deadline remains May 1st