Planning Workshop Preparation

DAQ CT, 22.04.24

Alessandro Thea

Planning Workshop Goals

- Confirm / update the list of critical activities, their importance, and people involved

- Identify overlaps and clashes

- Establish priorities

- Define a work plan

- Proposed dates : 2-3 1/2 days, between May 13th and May 17th
  - ‣ Optimal dates from doodle poll: Tue, Wed, Thu

Main areas of work

- **Operations for NP04 (+NP02)**
  - ▸ Remaining "missing features" for NP04
  - ▸ Remaining integration work in prep of NP02

- **Transition to OKS-based configuration (v5.x)**

- **PRR preparation**
  - ▸ timing, readout network and daq servers

- **Other critical path developments planned for '24**

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Operations and Integration

- **NP04**
  - ‣ Confirm the list of missing features
  - ‣ Identify who is going to work on them, on what time frames

- **NP02**
  - ‣ Confirm what missing for detector integration (assuming v4 as baseline)
  - ‣ Confirm what is required for transitioning to v5 (see OKS slide)
  - ‣ Identify who is going to work on them, on what time frames

- **Reference person: Wes**

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Transition to OKS

- **Detailed understanding of work required to deploy OKS-based system as DAQ-default still missing**

- **Key question that need answering before the workshop**
  - ‣ Are the subsystems configuration representation sufficient?
  - ‣ Are the interfaces to the Run Control sufficient?
  - ‣ Are the interfaces to Conditions / Historical databases sufficient? (is there a plan..?)
  - ‣ Are the integration tests ready to support the transition?
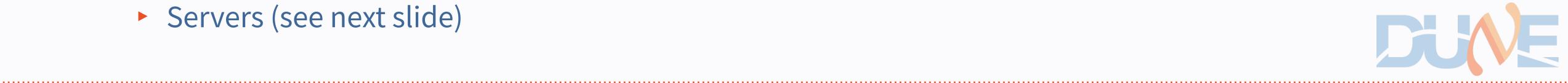 - ‣ Is the configuration management/generation ready for detector operations?

Transition to OKS

- **Preliminary answers need to be collected, digested and summarised before the workshop**
  - ‣ Workshop in 3 weeks, initial feedback needed by next week

- **This requires investing time in the next 1-2 weeks to familiarise ourselves with OKS and the system model**
  - ‣ Are the configuration representation sufficient (to operate NP02)?
    - **Readout - Roland/Alessandro, Trigger - Artur/Josh, Dataflow - Kurt/Eric, Timing - Stoyan/Diana (?)**
  - ‣ Are the interfaces to the Run Control sufficient?
    - **CCM - Pierre/Alex**
  - ‣ Are the interfaces to Conditions / Historical databases sufficient? (is there a plan for..?)
    - **CCM (?) - Alex/Pierre/?**
  - ‣ Are the integration tests/regression tests ready to support the transition?
    - **Release Coordination - Kurt**
  - ‣ Is the configuration management/generation ready for detector operations?
    - **Run Coordination - Wes**

- **Can we do it?**

- **Giovanna agreed to collect and summarise these inputs for the workshop**

PRRs

- **Detailed understanding of work required to prepare the PRRs still missing**

- **2 main aspects**
  - ‣ Clarifying the procurement process details across the consortium
  - ‣ Technical specifications preparation ⬅ Focus of the workshop

- **Inputs to the planning workshop**
  - ‣ Timing : preliminary list of documents, hardware testing status and work plan leading up to the review
    - **Stoyan, David**
  - ‣ Readout Network : preliminary list of documents, testing status and plan leading up to the review
    - **Adam + Roland/Alessandro**
  - ‣ Servers (see next slide)

DAQ Servers PRR

- **Inputs to the Planning Workshop**
  - ‣ preliminary list of documents, testing status and plan leading up to the review

- **Baseline goal for the PRR: review of procurement of all DAQ servers: readout, general infrastructure, dataflow/storage, ccm, dqm, trigger and data filter**

- **What is going to run on each class of servers? and how do we estimate its footprint to inform technical specifications? What measurements are required?**
  - ‣ Understanding of readout server requirements fairly advanced: focus on performance measurement work
  - ‣ Missing crucial input for other server groups: **general infrastructure, dataflow/storage, ccm, dqm, trigger and data filter**
    - What do we need to do and how do we get there?

- **Reference person: Roland**

Other critical path items

- **K8S rollout at EHN1 : report on status and close out**
  - ‣ Alex/Pierre/Tiago

- **Network requirements document**
  - ‣ Adam/Roland: Missing inputs to FNAL networking and what measurements are required

- **Application framework review implementation**
  - ‣ Eric : Workplan update - **probably requires a dedicates session**

- **Timing SW/FW completion**
  - ‣ Stoyan/David: Activities not covered by Timing PRR prep (e.g. timing as service?)

- **DAQ deployment model**
  - ‣ Already covered by general infrastructure servers specs for server PRR.

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Summary

- **Preparing the Planning Workshop requires an significant effort from all of us**
  - ‣ Can we devote the required effort in the next couple of weeks?

- **What can we fruitfully discuss in the workshop?**
  - ‣ And what will we have to postpone?

- **What are our priorities?**