Day 2 Recap

16.05.24

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DEEP UNDERGROUND NEUTRINO EXPERIMENT





From Day 1

- NP02 schedule clarified
 - October earliest date for start of fill
 - Limited external requirements on DAQ system
- Possible v5 release schedule
 - 3 releases in 2024 (optimistic)
 - v5.1: June/July, v5.2: September (pre-fill), v5.3: end of November/December
 - Scope of each release to be clarified
 - Dominated by OKS deliverables
 - Giovanna preparing a proposal of OKS deliverables for v5.1
 - Follow up with Core SW/CCM/Release coordination





From Day 1

• Drunc

- Schedule constrained by available resources
- Usable version by mid June possible
 - But not operations ready
 - What risks? of delays?
- Limited expertise available until September
 - Slow progress expected on integration with services
- Progress to be monitored closely in the next month







Kubernetes routinely used in operations

- Configuration generation and testing with broad set of setups completed
- Next step: rolling out to operation

• Timing firmware software

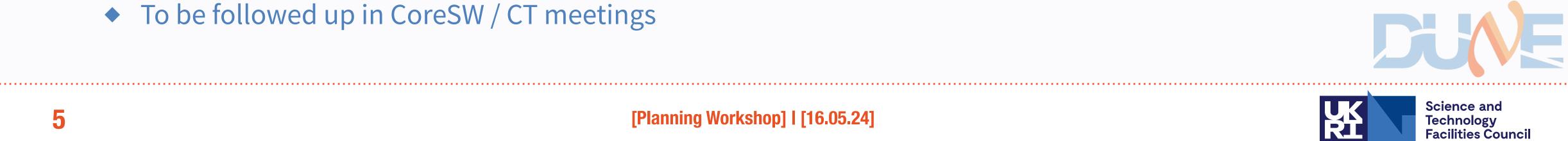
- Start of NP02 with legacy hardware, moving to uTCA system during filling
- Agreed software support for GIB/FIB/MIB in v5.0
- Limited effort required to consolidate DTS/WR infrastructure
- Input on "Timing as Service" requirements needed soon





- Operational Monitoring
 - Initial design complete and prototype implementation available
 - Progress stalled by other activities
 - Need to clarify target base release and available effort (review, implementation)
 - To be followed up in CCM / CT meetings
- AppFwk review
 - Progress generally stalled by other activities
 - Identified few relatively independent subtasks
 - Several major sub-tasks will require dedicated export
 - implementation)
 - To be followed up in CoreSW / CT meetings

Further breakdown in sub-sub tasks needed based on resource needs (e.g. problem statement, design,





NP04 & NP02

| WBS NUMBER | TASK TITLE | WHO | START DATE | DUE DATE | DURATION | PCT OI COMF |
|------------|----------------------------------|------------------------|------------|------------|----------|----------------|
| 1 | NP04 | | | | | |
| 1.1 | Wibmods update | Roger, Wes | | | 0 | 0 |
| 1.2 | daphnemodules update | Marco | | | 0 | 0 |
| 1.3 | CRT code integration | Wes, Matt | | | 0 | 0 |
| 1.4 | CRT timing integration | David, Stoyan | | | 0 | 0 |
| 1.5 | TPG commissioning | Alex, Ivana | 20/05/2024 | 22/05/2024 | 2 | 0 |
| 1.6 | TPG patches | Alex | | | 0 | 0 |
| 1.7 | Trigger commissioning | Artur, Michal, Ivana | 27/05/2024 | 31/05/2024 | 4 | 0 |
| 1.8 | CIB software integration | Wes? | | | 0 | 0 |
| 1.9 | DQM Plot generation | Wes? | | | 0 | 0 |
| 1.10 | DQM shifter web service | Bonnie? | | | 0 | 0 |
| 1.11 | DQM justintime updates | Wes? | | | 0 | 0 |
| 1.11 | K8S based-running | Tiago+Wes? | | | 0 | 0 |
| 1.12 | Prep for data challenge | Wes? | | | 0 | 0 |
| 1.13 | Data challenge | Will? | | | 0 | 0 |
| 1.13 | DAQ and shifter training/docs | Wes? | | | 0 | 0 |
| 2 | NP02 | | | | | |
| 2.1 | TDE readout integration | 2.1.3 depends on 2.1.2 | | | 0 | 0 |
| 2.1.1 | dpdk 100 config test (48ips) | Matt/Will/Danaisis | | | | 0 |
| 2.1.2 | dataformat revision | Roland/Ale | | | 0 | 0 |
| 2.1.3 | switched network test | | | | 0 | 0 |
| 2.1.4 | emulatior chain (FakeCardReader) | Matt/Will/Danaisis | | | 0 | 0 |
| 2.1.5 | TDE frame replay (DPDKlibs test) | | | | 0 | 0 |
| 2.2 | TDE timing integration | | | | 0 | 0 |
| 2.3 | TDE software integration | | | | 0 | 0 |
| 2.4 | CRT control integration | | | | 0 | 0 |
| 2.4 | CRT readout integration | | | | 0 | 0 |
| 2.4 | CRT timing integration | RS: What is this? | | | 0 | 0 |
| 2.4 | DAPHNE v3 integration | | | | 0 | 0 |
| 2.4 | DAPHNE ETH data format | | | | 0 | 0 |
| 3 | NP Timeline | | | | | |
| | NP04 cosmics | | 06/05/2024 | 22/07/2024 | 76 | 0 |
| | NP04 beam | | 17/06/2024 | 01/09/2024 | 74 | 0 |
| | NP04 stress tests | | 02/09/2024 | | -44882 | 0 |
| | NP02 TCO closure | | 29/07/2024 | 05/08/2024 | 6 | 0 |
| | NP02 cleaning | | 26/08/2024 | 29/08/2024 | 3 | 0 |
| | NP02 purge | | | | 0 | 0 |
| | NP02 filling | | | | 0 | 0 |
| | NP02 cosmics | | | | 0 | 0 |
| | Chart Updates | | | | 0 | 0 |

Gantt Chart URL

