Follow up on the WLCG review of accounting and pledge management tools

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Overview

- During June 2023 WLCG held a review, assessing our tools and procedures for accounting and pledge management:
 - One survey targeted to site admins
 - One survey targeted to people who are dealing with federation topology and pledge management
 - Feedback from VOs participating in WLCG Operations Coordination
 - Input from the WLCG project office (which is responsible for collecting and maintaining pledges of the whole collaboration).
- Results were presented at the <u>WLCG operations coordination meeting on October 12, 2023</u> and the <u>January 2024 GDB</u>
- Today, we will go through the results, giving updates on how the feedback was addressed.

Review topics

- What did we ask about:
 - o APEL
 - EGI Accounting Portal
 - WLCG Accounting Utility (WAU)
 - Accounting validation procedure and related UI
 - Monthly accounting reports
 - Overall procedure for the definition of the VO requirements and yearly pledges
 - CRIC UI for pledge and VO requirements definition



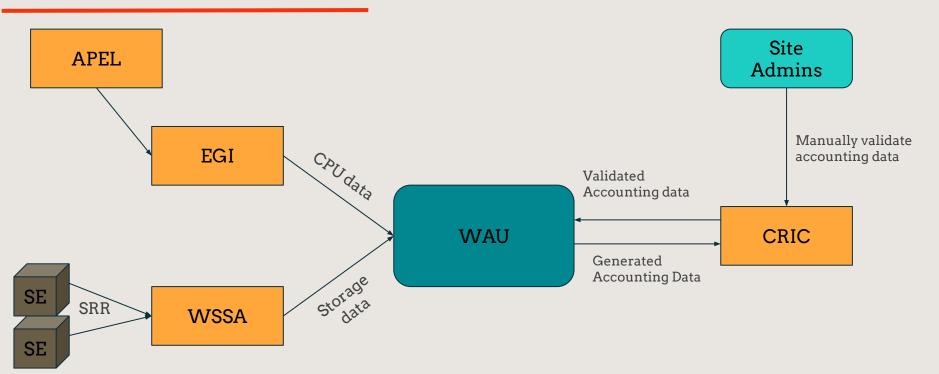
Site Survey Results

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- 23 sites participated: 5 Tier-1s, 16 Tier-2s, 1 Tier-3
- APEL
 - People are mostly satisfied by data quality (although 10% rated it poorly)
 - o 50% of participants are not satisfied with the support provided by APEL
- EGI
 - Overall, users are happy with the portal, but there were a few suggestions on how to improve site usability. These are being followed up with the portal developers.
- WAU
 - Unfortunately, not a lot of people were aware of the platform:
 - https://monit-grafana-open.cern.ch/dashboards/f/e3b5d447-4a24-44f1-aa72-39fc7f1 8b532/wlcg-accounting
- Monthly accounting validation
 - Overall very positive feedback

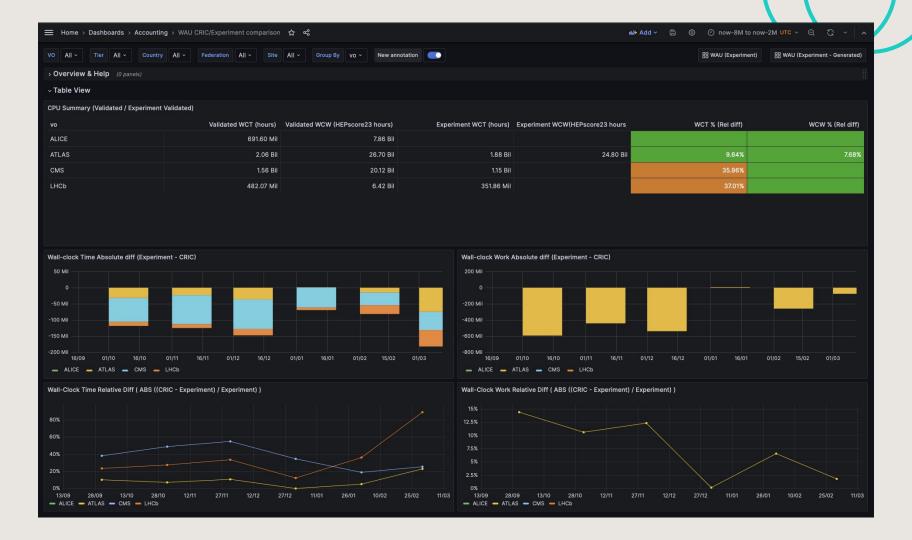
Improvements in the WLCG accounting ecosystem WAU WSSA CRIC etc





Experiment data in WAU

- One of the main requests coming from the experiments is that they would be interested to crosscheck their accounting data with data in the EGI portal
- Experiment data are now being imported in WAU and can be compared with EGI data and CRIC validated numbers:
 - https://monit-grafana-open.cern.ch/d/GIwMwM_nk/4b6c4c7a-e54f-5db7-9efc-53f84bb95 1e3?orgId=16
- There are still improvements that need to be done
 - We only have ATLAS+CMS data for both wallclock time and wall clock work, LHCb only provides wallclock time and ALICE provides no data
 - There is ongoing work on getting ALICE data into some Grafana-compatible source
 - Only ATLAS data seem to be reliable; CMS shows big discrepancy which might be true but we do need to follow up further

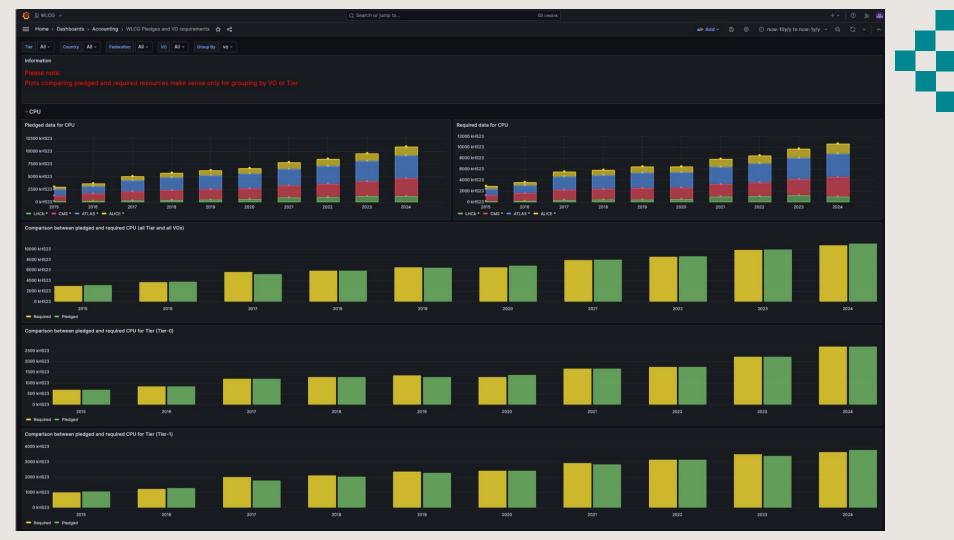


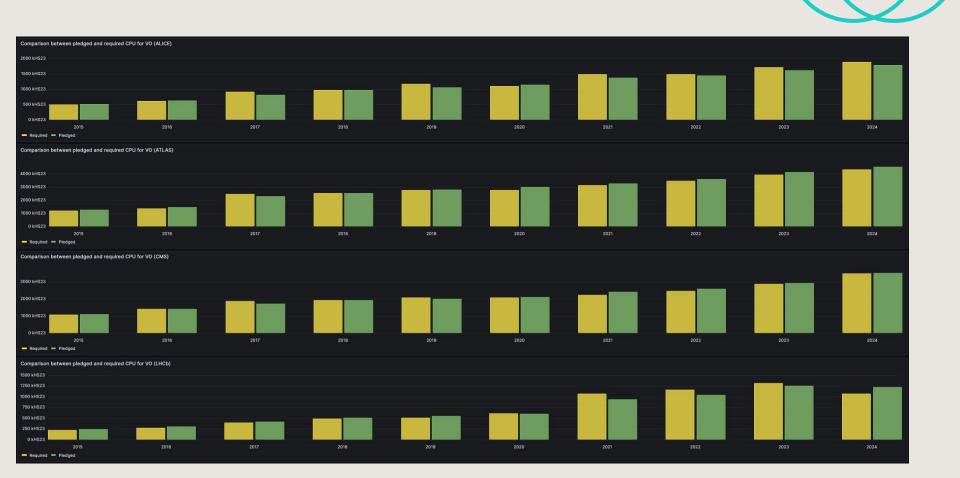
Improvements on the Pledge and VO requirements definition

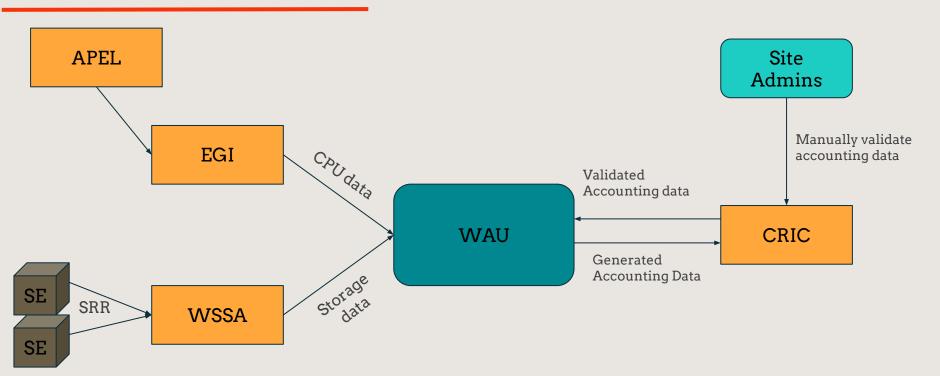


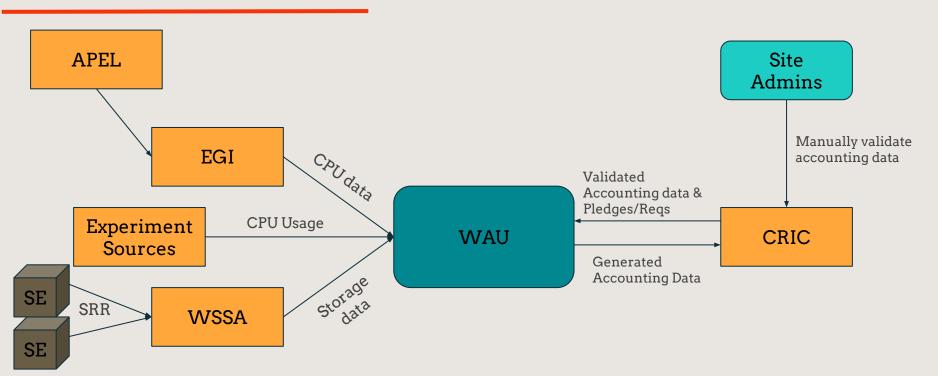
CRIC UI for pledge and VO requirements definition

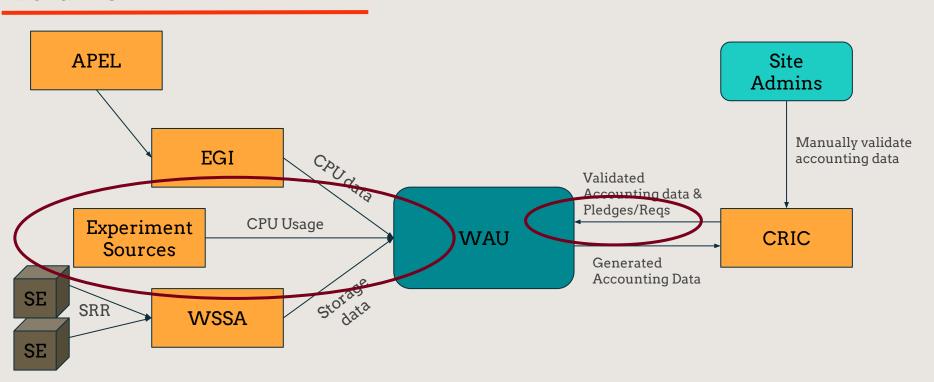
- We received a few suggestions on how to improve the CRIC UI and the workflows around pledge submission
 - Improvements to the pledge definition process were suggested
 - Many problems would be solved by implementing in CRIC a new interface where each user can only see the pledges they are supposed to edit, thus removing any confusion. This was done!
 - The main request was the possibility to see in plots the evolution over the years of pledges 0 and VO requirements together with the comparison between the two
 - All the historical data from CRIC were made available to Grafana where we now have plots that enable exploring the history of pledges and requirements
 - https://monit-grafana-open.cern.ch/d/e9c3d51f-f377-4552-bdbf-799c3b15270d/











Input of the WLCG project office



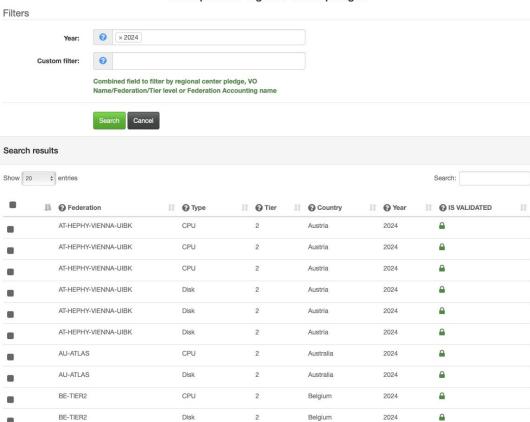
WLCG project office input



- The input was focused on CRIC functionality for VO requirements and pledge definition
- Main points:
 - Single dedicated interface to enter pledges for the new year:
 - New personalised UI for each user, which will be linked to from all appropriate places DONE
 - \circ An interface to lock/unlock pledges in bulk $\square \bigcirc N \models$
 - Many minor suggestions for UI usability improvements



Bulk update of regional center pledges



Conclusions



- The review was very helpful, to humble the all-knowing developers and bring more usability to our tools.
- WLCG Accounting Utility in now in a production-ready state and in an open Grafana instance,
 with experiment's data and historical Pledges/VO Requirements imported.
- CRIC has seen various improvements including what was suggested from the review, regarding accounting data validation and pledge submission/management.
- All the requests targeted to WLCG central ops (CRIC/WAU/WSSA) have been addressed.
- EGI and APEL have also improved their functionality based on the outcome of the review.



Thank you!

