2023-1-10 Meeting notes

Date

10 Jan 2023, 10:00 AM EST (US)

Participants

@ Scot Breitenfeld @ Vicky Moschou Scott Imlay @ David Gutzwiller @ Tobias Leicht @ Gregory Sjaardema @ David Gutzwiller @ Stephen Guzik @ dmitry.s.kamenetskiy @ Tony Garratt @ Patrick Baker (Has new represtive) @ Earl P Duque @ ZJ Wang @ Christopher Rumsey @ Matthias Möller @ Pierre-Jacques Legay Kamenetskiy, Dmitry S @ Mickael PHILIT @ Marc Poinot @ Koen Hillewaert Giorgos Strofylas (BETA CAE) David Garlisch

Steering Committee Issues

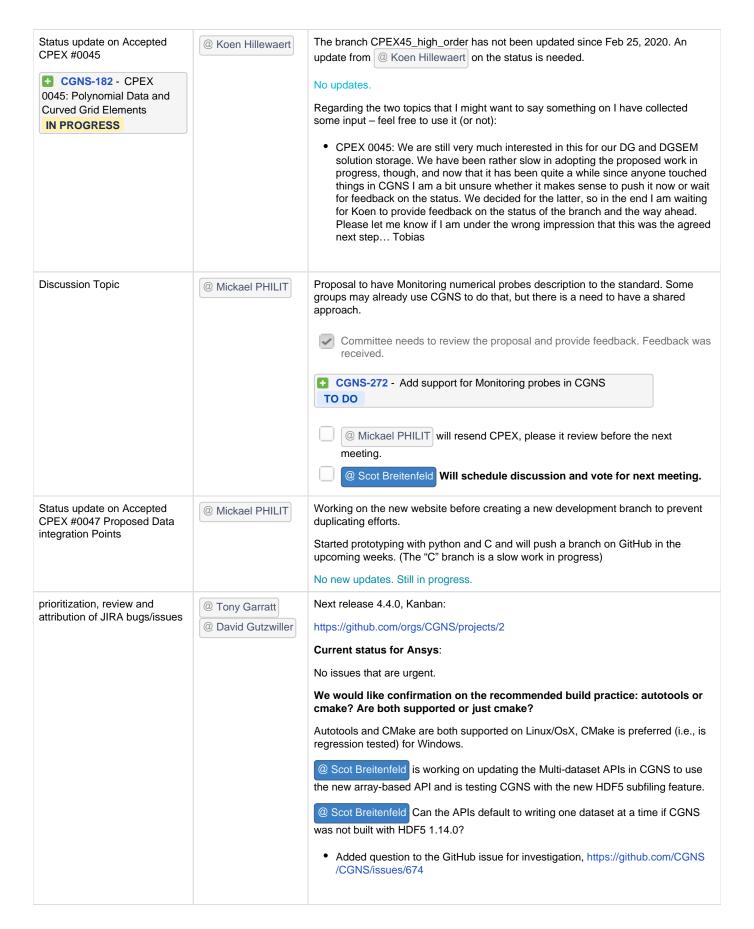
Discussion topics

Scott Imlay **

🜟 In attendance

Item	Presenter	Notes
Approve 2022/10/11 minutes.	@ Scot Breitenfeld	post the last meeting's minutes to the CGNS webpage.
		Approved

high-level editing tools for the documentation page	@ Marc Poinot	Help needed to divide the remaining tasks:
documentation page	@ Christopher Rumse	yhttps://github.com/CGNS/cgns.github.io/projects/1
		The documentation goes into the source using Doxygen. This work uses the " Doxyg en " branch. Examples are given for cg_open and cg_version. The aliases used for repeated variable descriptions are in <i>src/Doxygen/Doxygen.config</i> . We need volunteers to help with translating the remaining APIs to Doxygen.
		 A link to the new website is provided on the main cgns web page: https://cgns.github.io/cgns-modern.github.io/index.html. All the MLL APIs have Doxygen entries, the cgio APIs need to be done next. An automatic generation of the website through GitHub action is done. Still in progress. We are looking for volunteers for help.
Converting CGNSTalk archive to Github Discussion Posts	@ Scot Breitenfeld	Hope to be completed by the next meeting. Still WIP.
GitHub Issues	@ Scot Breitenfeld	Discussion moving from Jira to GitHub issues to track code issues.
		Completed move to GitHub
Added UTF-8 support	@ Scot Breitenfeld	Should CGNS support UTF-8? It can be a lot of work to support in CGNS, and could have detrimental effects on performance (sometimes seen with NetCDF).
Coupled fluid-structure standard addition	@ Scot Breitenfeld	Working on a proposal to standardize fluid-structure simulations.
Discussion Topic	@ ZJ Wang	Short discussion on past AMR CPEX (0008) and whether AMR should be revisited as a feature-supported CGNS. Some groups may be already using CGNS with AMR, but not known for certain. The need for AMR support in CGNS is unknown. ② Vicky Moschou ② Tobias Leicht ② ZJ Wang to discuss progressing CPEX
		0008.
		Wicky Moschou @ Tobias Leicht @ ZJ Wang to discuss it with interested parties before the next meeting.
		• CPEX 0008 / Adaptive Mesh Refinement: Again, we are very much interested in the topic and actively working on and with adaptation using element subdivision, leading to hierarchical representations of the mesh. Where I am unsure is whether there actually is a need to store this structure itself, i.e. essentially provide information of how to get from one mesh to another via adaptation. Any resulting mesh with hanging nodes can be represented just as is (e.g. as polyhedral). While I think that it could be beneficial to explicitly express the hanging node / hanging face connectivity (in order to allow to still recognize the elements as (for example) hexes with hanging nodes rather than just any polyhedron) I don't think it would be overly useful to have the actual hierarchical information available in an archival /exchange format like CGNS. I don't know what it would be used for outside of a specific code. But I'm certainly still very much interested in the actual discussion. If this is supposed to be a separate small group discussion (my current understanding), please invite me over Tobias



Description	Due date	Assignee	Task appears on
Mickael PHILIT will resend CPEX, please it review before the next meeting.		Mickael PHILIT	2023-1-10 Meeting notes
Wicky Moschou @ Tobias Leicht @ ZJ Wang to discuss it with interested parties before the next meeting.		Vicky Moschou	2023-1-10 Meeting notes
@ Scot Breitenfeld Will schedule discussion and vote for next meeting.		Scot Breitenfeld	2023-1-10 Meeting notes
@ Scot Breitenfeld to update the web page.		Scot Breitenfeld	2022-3-29 Meeting notes
Scot Breitenfeld will follow-up with @ Koen Hillewaert to find out the status.		Scot Breitenfeld	2022-3-29 Meeting notes
@ Scot Breitenfeld will email committee an update, and @ Tobias Leicht may take over the discussion if needed.		Scot Breitenfeld	2022-3-29 Meeting notes
Committee needs to review the proposal and provide feedback. @ Scot Breitenfeld to send out a reminder.		Scot Breitenfeld	2022-3-29 Meeting notes
Scot Breitenfeld will enter a Jira issue to make the examples provided by CGNS to be updated to reflect the best practices (in terms of CGNS format description usage).		Scot Breitenfeld	2021-3-2 Meeting notes
@ Scot Breitenfeld will enter a Jira issue to add to cgnscheck to not only validated the format, but also give a best practices analysis of the chosen CGNS format description and to suggest an alternative format if needed.		Scot Breitenfeld	2021-3-2 Meeting notes
© Scot Breitenfeld will enter a Jira issue to add to cgnsconvert the option to take the best practices suggestion from cgnscheck and convert the CGNS format description to that suggestion.		Scot Breitenfeld	2021-3-2 Meeting notes
Mickael PHILIT will create a Jira issue for remaining documentation tasks which need to be completed before switching to the new documentation so we can enlist others and to coordinate the effort.		Mickael PHILIT	2021-3-2 Meeting notes
 Mickael PHILIT and higher-order developers (Tobias Leicht Note: Tobias Leicht Tobias Leicht Note: Tobias Leicht Tobias		Mickael PHILIT	2021-3-2 Meeting notes
SIDS structure is complete in the documentation prototype but the translation process is quite slow. Help requested.			2021-3-2 Meeting notes
© Scot Breitenfeld or @ Christopher Rumsey should investigate if the cgns archive can be translated to forum posts or made available on cgns.org, which would make it viewable to web search engines.		Scot Breitenfeld	2021-3-2 Meeting notes
		Scot Breitenfeld	2021-3-2 Meeting

Scot Breiteni	Scot Breitenfeld will update the copyright information on the webpage.					
@ Scot Breitenfeld Update documentation for intel compilers (KH)		Scot Breitenfeld	2021-3-2 Meeting notes			
	ser will organize a meeting before the next committee ly even this week.	Thomas Hauser	2021-3-2 Meeting notes			
Suggest looking meeting to discu	into using Doxygen, @ Marc Poinot suggest a separate ss.	Marc Poinot	2021-3-2 Meeting notes			
archive can be to	or Christopher Rumsey should investigate if the cgns ranslated to forum posts or made available on cgns.org, which ewable to web search engines.	Scot Breitenfeld	2020-12-8 Meeting notes			
© Scot Breitenfeld will update the copyright information on the webpage.			2020-12-8 Meeting notes			
Decisions						
Page Title	Decisions					
2019-11-12 Meeting notes	▼ BETA-CAE was added to the steering committee					
	The cgio_read* will be dropped in the next release of the CGNS library					
2020-12-8 Meeting notes	Meeting notes Approved.					
	Passed: move to Github discussions when it's out of beta and retire the use of lists.nasa.gov. The notice should be posted to cgnstalk before the transition to discussions.					
	Passed: Release all cgns.org documentation into the public domain.					
2021-3-2						
Meeting notes	Passed: move to Github discussions when it's out of beta and retire the use of lists.nasa.gov. The notice should be posted to cgnstalk before the transition to discussions.					
	Passed: Release all cgns.org documentation into the public domain.					
2021-6-15						
Meeting notes	Y Passed CPEX #0047					

2021-9-7 Meeting notes

Approved to include in the CGNS's example code.

2022-10-11 Meeting notes

Approved to move from Jira to GitHub issues.

2022-3-29 Meeting notes

Removal of CU-Boulder from Steering Committee (Thomas Hauser is now at NCAR). Passed

New Business

Any new CGNS funding proposal opportunities? Nothing was identified at the meeting.

NO UPDATES

Schedule next meeting

04 Apr 2023, 10:00 AM EST (US)

Adjourn