2021-12-14 Meeting notes

Date

14 Dec 2021, 10:00 AM EST (US)

Participants

- @ Scot Breitenfeld ⭐
- @ Vicky Moschou ⭐
- Scott Imlay ⭐
- @ David Gutzwiller
- @ Simone Crippa ⭐
- @ Tobias Leicht ⭐
- @ Gregory Sjaardema ⭐
- @ David Gutzwiller ⭐
- @ Stephen Guzik ⭐
- @ dmitry.s.kamenetskiy ⭐
- @ Thomas Hauser
- @ Tony Garratt
- @ Patrick Baker ⭐
- @ Earl P Duque
- @ ZJ Wang ⭐
- @ Christopher Rumsey
- @ Matthias Möller ⭐
- @ Pierre-Jacques Legay ⭐
- Kamenetskiy, Dmitry S
- @ Mickael PHILIT ⭐
- @ Marc Poinot ⭐

⭐ In attendance

Steering Committee Issues

☐

Discussion topics

Item	Presenter	Notes
Approve 2021/9/17 minutes.	@ Scot Breitenfeld	☑ post last meeting's minutes to CGNS webpage. Approved.
high-level editing tools for the documentation page	@ Marc Poinot @ Christopher Rumsey	**Help needed to divide the remaining tasks:** https://github.com/CGNS/cgns.github.io/projects/1 The documentation goes into the source using Doxygen. This work uses the "**doxygen**" branch. Examples are given for cg_open and cg_version. The aliases used for repeated variable descriptions are in *src/doxygen/doxygen.config*. Need volunteers to help with translating the remaining APIs to Doxygen. Decided to publish the new documentation with links to the old documentation as needed.

Discussion Topic	@ Vicky Moschou	NGON sample file, issues with cgnscheck concerning NGON
		@ Vicky Moschou will provide updated sample CGNS files for review, and will also provide a PR for cgnscheck to check and flag errors currently found in the CGNS example files.
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.
		Interested parties plan on discussing the topic further in the next few months. Will need to determine who is taking the lead for this topic.
Status update on Accepted CPEX #0045 https://cgnsorg.atlassian.net/browse/CGNS-182	@ Koen Hillewaert	**NO UPDATES**
Status update on Accepted CPEX #0047 Proposed Data integration Points	@ Mickael PHILIT	Working on the new website before creating a new development branch to prevent duplicating efforts. Started prototyping with python.
Status of Future CPEX 0046 https://cgnsorg.atlassian.net/browse/CGNS-183	@ Thomas Hauser	**NO UPDATES**
Status of Future CPEX 0044 https://cgnsorg.atlassian.net/browse/CGNS-181	@ Koen Hillewaert	The current focus is on finishing and implementing CPEX 45. Tabling CPEX 0044 for now. **NO UPDATES** **ON HOLD**

| prioritization, review and attribution of JIRA bugs /issues | @ Tony Garratt
@ David Gutzwiller | Plan a release 4.3.0 in December (2021) or January (2022) with current fixes in develop branch and no new big features ? Aiming for a release early next year, which may or may not include compression. Next release 4.3.0, Kanban:

https://cgnsorg.atlassian.net/secure/RapidBoard.jspa?rapidView=4&selectedIssue=CGNS-235

General Kanban Board:

https://cgnsorg.atlassian.net/secure/RapidBoard.jspa?rapidView=3&projectKey=CGNS&selectedIssue=CGNS-190

ISSUE CARRIED OVER:

Platform proposals
Windows is under-tested. Suggest Test C and Fortran serial and parallel on Windows 10 x64 as a bare minimum

Do we test both 32bit (legacy) and 64bit API? It's a minor point, but it would a good idea to add 32bit to at least one Linux and Windows

NEW (June 2021) We need to add Intel OneAPI compilers to the list of supported compilers (note: OneAPI C/C++ compiler is very different to existing legacy one)

Bug list: https://cgnsorg.atlassian.net/browse/CGNS-176

A priority of bugs to fix in next release

#1 https://cgnsorg.atlassian.net/browse/CGNS-135

Crucial to Ansys. Although most HPC is Linux, project set-up often was done on Windows and import/export/sharing of mesh/solution done on Windows, while most runs performed on Linux clusters

#3 https://cgnsorg.atlassian.net/browse/CGNS-116
important to have parallel working
#4 https://cgnsorg.atlassian.net/browse/CGNS-166

#5 https://cgnsorg.atlassian.net/browse/CGNS-55

#6

https://cgnsorg.atlassian.net/browse/CGNS-38

https://cgnsorg.atlassian.net/browse/CGNS-162

https://cgnsorg.atlassian.net/browse/CGNS-113 |

Action items from last meetings

	Description	Due date	Assignee	Task appears on
☐	@ Scot Breitenfeld to update the web page.		Scot Breitenfeld	2021-3-29 Meeting notes
☐	@ Scot Breitenfeld will follow-up with @ Koen Hillewaert to find out the status.		Scot Breitenfeld	2021-3-29 Meeting notes
☐	@ Scot Breitenfeld will email committee an update, and @ Tobias Leicht may take over the discussion if needed.		Scot Breitenfeld	2021-3-29 Meeting notes
☐	Committee needs to review the proposal and provide feedback. @ Scot Breitenfeld to send out a reminder.		Scot Breitenfeld	2021-3-29 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 @ Koen Hillewaert) will meet to discussion the remaining issue between the CPEX0047 and higher-order methods.	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** will update the copyright information on the webpage.	Scot Breitenfeld	2021-3-2 Meeting notes
☐ **@ Scot Breitenfeld** Update documentation for intel compilers (KH)	Scot Breitenfeld	2021-3-2 Meeting notes
☐ @ Thomas Hauser will organize a meeting before the next committee meeting; probably even this week.	Thomas Hauser	2021-3-2 Meeting notes
☐ Suggest looking into using Doxygen, @ Marc Poinot suggest a separate meeting to discuss.	Marc Poinot	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	2020-12-8 Meeting notes
☐ **@ Scot Breitenfeld** will update the copyright information on the webpage.	Scot Breitenfeld	2020-12-8 Meeting notes
☐ **@ Scot Breitenfeld** will identify reviewers for the CPEX who will report before the next meeting, the CPEX is scheduled to be voted on at the next meeting. This effort should be coordinated with higher-order effort.	Scot Breitenfeld	2020-12-8 Meeting notes
☐ Change test site to: https://poinot.github.io/cgns-test.github.io/		2020-12-8 Meeting notes
☐ Tabling issue, we will look into alternatives if need arises.		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.
[2021-3-29 Meeting notes](#)	Removal of CU-Boulder from Steering Committee (Thomas Hauser is now at NCAR). Passed
[2021-6-15 Meeting notes](#)	Passed CPEX #0047
[2021-9-7 Meeting notes](#)	Approved to include in the CGNS's example code.

New Business

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

NO UPDATES

Schedule next meeting

29 Mar 2022 , 10:00 AM EST (US)

Adjourn