2023-7-11 Meeting notes

Date

Jul 11, 2023 , 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
- @Tony Garratt
- @Patrick Baker   (Has new representative)
- @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
- Scott Imlay

⭐ In attendance

Steering Committee Issues

Discussion topics

Item	Presenter	Notes
Approve 2023/4/4 minutes.	@Scot Breitenfeld	☑ post the last meeting's minutes to the CGNS webpage. Approved

Released 4.4.0	@Scot Breitenfeld	Lots of outstanding contributions, thanks all.
cgns.org owner??	@Scot Breitenfeld	Unknown, Registered through GoDaddy, who only contacts through a broker service.
high-level editing tools for the documentation page	@Marc Poinot @Christoph er Rumsey	**Help needed to divide the remaining tasks:** ⊙ Documentation Migration JIRA Task CGNS-235 · CGNS/cgns.github.io 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*. 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: 🏷 The official CGNS home page — CGNS Official Web Site. • All the MLL APIs have Doxygen entries, and the cgio APIs need to be done next. • An automatic generation of the website through GitHub action is done. ☐ @Scot Breitenfeld will define a task list or project plan with the remaining tasks.
Converting CGNSTalk archive to Github Discussion Posts	@Scot Breitenfeld	**No update.**
Coupled fluid-structure standard addition	@Scot Breitenfeld	Proposal to standardize fluid-structure simulations submitted, **No update**.
mixed element/face zones discussion	@David Garlisch	⊙ ParaView: Mixed definition of unstructured zone by elements and by faces is not valid · CGNS/CGNS · Discussion #720 ☐ @David Garlisch will post to cgnstalk files that show the issue, @Gregory Sjaardema will look into it. Unrelated, the files also cause Paraview to crash.
Status update on Accepted CPEX #0045 ⊞ CGNS-182: CPEX 0045: Polynomial Data and Curved Grid Elements **IN PROGRESS**	No Discussion	The branch CPEX45_high_order has not been updated since Feb 25, 2020. An update from @Koen Hillewaert on the status is needed. Regarding the two topics that I might want to say something on, I have collected some input – feel free to use it (or not): • CPEX 0045: We are still very much interested in this for our DG and DGSEM solution storage. We have been rather slow in adopting the proposed work in progress, though, and now that it has been quite a while since anyone touched things in CGNS, I am unsure whether it makes sense to push it now or wait for feedback on the status. We decided on the latter, so in the end, I am waiting for Koen to provide feedback on the status of the branch and the way ahead. Please let me know if I am under the wrong impression that this was the agreed next step… Tobias There is currently no one actively working on this, we will keep the project on the meeting agenda, but we don't expect any updates.
Open Discussion about backward compatibility	@Scot Breitenfeld	Discussion about backward compatibility issues discovered recently.

issues		Ansys and others, have encountered backward compatibility issues with 4.3.0. All the problems with backward compatibility will try to be addressed and fixed before the 4.4.0 release. All interested parties should create an issue or contact the CGNS developers to ensure their problem has been addressed. ☑ @Scot Breitenfeld Update the backward capability issues on the website, mentioned in the 4.4.0 Release Notes.
Discussion Topic	@Mickael PHILIT	Proposal to have Monitoring numerical probes described in the standard. Some groups may already use CGNS to do that, but there is a need to have a shared approach. ☑ The committee needs to review the proposal and provide feedback. Feedback was received. ⊞ CGNS-272: Add support for Monitoring probes in CGNS **TO DO** ☑ @Mickael PHILIT will resend CPEX. Please it review before the next meeting. ☑ @Scot Breitenfeld Will schedule discussion and vote for next meeting. ⌐ CPEX 0048 was approved with the understanding that the implementation would address the issues below with the *Sample* naming convention. …to me, the proposal looks fine. I just have a minor remark on naming, in order to avoid potential confusion. It certainly sounds as if **NumberOfSamples** gives us the number of samples. According to the proposal, this is not the case, however, since "the number of samples is equal to **NumberOfSamples** modulo **Sampling**. **Samples = NumberOfSamples % Sampling;**" So, not only is the number defined differently, but we also have three very similar names around the underlying term of sample. I propose to use more distinctive names. I'm not great at finding appropriate names myself, but things one could consider would be • Stride instead of Sampling? • MaxNumberOfSamples rather than just NumberOfSamples? • EffectiveSamples or ActiveSamples rather than just Samples? Maybe someone else has a better proposal, or perhaps others don't think it needs improvement. Let's discuss this later today.
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 and C and will push a branch on GitHub in the upcoming weeks. (The "C" branch is a slow work in progress) We may have a prototype to show at the next meeting.
prioritization, review and attribution of JIRA bugs/issues	@Tony Garratt	Next release 4.5.0, Kanban: ⍟ v4.5.0 • CGNS **Current status for Ansys**:

@David Gutzwiller	No urgent issues.
	
	 • @Scot Breitenfeld Is completing the option of using subfiling for CGNS.
	
	    ○ Targeting the 4.5.0 release, currently in the **subfiling** branch.
	
	    ○ cgnsview may be moved to its own repository, and the goal remains to release a working cgnsview for Mac, Linux and Windows for the 4.5.0 release.
	
	       ■ ⊙ v4.5.0 • CGNS

New Business

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

Schedule next meeting

 Oct 3, 2023 , 10:00 AM EST (US)

Adjourn