2024-4-9 Meeting notes

Date

 Apr 9, 2024 , 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
- @Mickael PHILIT
- @Marc Poinot
- @Koen Hillewaert
- Giorgos Strofylas (BETA CAE)
- Stavros Arestis (BETA CAE)
- J. Coulet (ONERA) ⭐
- David Garlisch

⭐ In attendance

Please note that this meeting was scheduled on short notice.

Steering Committee Issues

Discussion topics

Item	Presenter	Notes
Approve 2024/1/16 minutes.	@Scot Breitenfeld	☑ post the last meeting's minutes to the CGNS webpage. Approved

[cgns.org](#)	@Scot Breitenfeld	I meet with Thomas Hauser who is the holder for [cgns.org](#) on GoDaddy, he is going to add @Scot Breitenfeld as an alternative owner.
high-level editing tools for the documentation page	@Marc Poinot @Christopher Rumsey @Scot Breitenfeld	The Doxygen branch was merged to develop. Started to explore using Breathe and Sphinx using the *develop* branch. UPDATE 4/9: Still in progress.
NVidia	@Scot Breitenfeld	I've been meeting with NVidia about their possible use of CGNS in their Universal Scene Description (OpenUSD), [Universal Scene Description (USD) at NVIDIA](#) , for fluid modeling. They are looking for examples of unstructured time series. Contact @Scot Breitenfeld if you have simulations they can use.
Converting CGNSTalk archive to Github Discussion Posts	@Scot Breitenfeld	**No update.**
Discussion of the need to extend the standard to include identifiers and references	@Scot Breitenfeld	With more widespread sharing of CGNS data, for example, ML training, it might be helpful to standardize unique identifiers (global) for the file (maybe data, local?). Some examples: • Online Resources: creator URL, publisher URL, contributors • UUIDs, date convention, citations • Descriptive keywords • Lineage: audit trail for mods to original data @Scot Breitenfeld Submitted a DOE pre-proposal to gauge interest in funding the work.
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. ☐ @Scot Breitenfeld will follow-up with @Gregory Sjaardema ☐ @Vicky Moschou and others will draft a document to discuss hardening the specification for faces in the case of mixed meshes. UPDATE 4/9: No updates
Status update on Accepted CPEX #0045 ⊞ CGNS-182: CPEX 0045: Polynomial Data and Curved Grid Elements **IN PROGRESS**	No Discussion	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.
Status update on Accepted CPEX #0047	@Mickael PHILIT	Working on the new website before creating a new development branch to prevent duplicating efforts.

Proposed Data integration Points		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)
		
		• The first draft of the API is in the branch GitHub - CGNS/CGNS at wip_cpex-0047
		   ◦ No unit test of the API yet
		   ◦ Sample test representative of applications done and will be improved to remove the ".cgns" binary file.
		   ◦ Feedback on API is appreciated
		   ◦ Target CGNS 5.0

prioritization, review and attribution of JIRA bugs/issues	@Tony Garratt @David Gutzwiller	Next release 4.5.0, Kanban: v4.5.0 • CGNS , Targeting June.
		
		Current status for Ansys:
		
		No urgent issues.
		
		Update: 4/9
		
		• @Scot Breitenfeld Is completing the option of using subfiling for CGNS.
		   ◦ Targeting the 4.5.0 release, currently in the *subfiling* branch.
		   ◦ Needs to resolve updating the Doxygen docs into the main CGNS documentation before releasing.

Discuss adding a level below zones to avoid slowness issues due to creating many zones.	@Stephen Guzik	@Stephen Guzik will develop a CPEX for further discussion • Might post the topic on cgnstalk to reach a wider audience. Update 4/9: no new updates.

New Business

Are there any new CGNS funding proposal opportunities? Nothing was identified at the meeting.

Schedule next meeting

 Jul 9, 2024 , 10:00 AM EST (US)

Adjourn