2024-11-5 Meeting notes

Date

Nov 5, 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
- @Earl P Duque
- @ZJ Wang
- @Matthias Möller
- @Mickael PHILIT 🔶
- @Marc Poinot
- @Koen Hillewaert
- Giorgos Strofylas (BETA CAE)
- Stavros Arestis (BETA CAE)
- Mark Lohry
- Julien Coulet
- Alexandre Minot (Convergent Science) +
- 🛨 In attendance

Steering Committee Issues

Drop Colorado State University (CSU) from the Steering Committee

Y CSU is removed from the Steering Committee, and the website will be updated.

Add Convergent Science to the Steering Committee

5 Convergent Science was added to the Steering committee, and the website will be updated.

Simone no longer represents Airbus, and they are still looking into finding a replacement but have not gotten back to me. We will decide on their status at the next CGNS meeting.

1 Resolve Airbus's status at the next CGNS meeting.ergto

Discussion topics

Item	Presenter	Notes	
Approve 2024/7/9 minutes.	@Scot Breitenfeld	 Post the minutes of the last meeting on the CGNS webpage. Transferring the minutes to the new web pages. Approved. 	
cgns.org	@Scot Breitenfeld	Thomas Hauser will add @Scot Breitenfeld as an alternative owner. There are no updates; I've reached out to Thomas.	
high-level editing tools for the documentatio n page	@Mickael PHILIT @Scot Breitenfeld	Doyxgen was recently updated for usage with Breathe/Sphinx, D oxygen Updates by brtnfld - Pull Request #777 - CGNS/CGNS New PR Doxygen->Breathe->Sphinx MLL docs by brtnfld - Pull Request #6 - CGNS/cgns-modern.github.io] A few minor tasks remain before archiving the old web pages. We plan to finish and release 4.5.0 before the end of the year.	
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, such as 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 preproposal to gauge interest in funding the work. No feedback from DOE. 	

mixed	@David	ParaView: Mixed definition of unstructured zone by elements an	
element/face	Garlisch	d by faces is not valid · CGNS CGNS · Discussion #720	
zones		 @David Garlisch will post to cgnstalk files that show the issue, @Gregory Sjaardema will look into it. 	
discussion		Unrelated, the files also cause Paraview to crash.	
		O O 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.	
		The Paraview issue will be investigated at the next CGNS meeting.	
Multiple	@Vicky	A new workaround allows the API user to	
CGNS library	Moschou	support the import/export of TWO different	
version		major versions of CGNS (let's say series 4	
support.		and series 3) without the need to build and	
		maintain multiple CGNS library instances.	
		Only the latest library instance is enough.	
		@Vicky Moschou will send @Scot	
		Breitenfeld or @Mickael PHILIT proposed	
		addition for a CGNS PR.	
CPEX #0046 - O CP EX 0046 - New particl		We will move to merge to develop and the	
e extension proposal		4.5.0 release ASAP.	
· Issue #772 · CGNS/ CGNS		The documentation will be included in the	
		new web pages.	
Status update on	No Discussion	No one is currently actively working on this.	
Accepted CPEX #0045		We will keep the project on the agenda for	
CGNS-182: CPEX		the meeting, but we don't expect any	
0045: Polynomial Dat a and Curved Grid El		updates.	
ements IN PROGRESS			
Status update	@Mickael	Working on the new website before creating a new development branch to prevent duplicating efforts.	
on Accepted	PHILIT	Started prototyping with Python and C and will push a branch on	
CPEX #0047		GitHub in the upcoming weeks. (The "C" branch is a slow work in	
Proposed		progress) The first draft of the API is in the branch G GitHub - CGNS/CG	
Data		NS at wip_cpex-0047	
integration		 No unit test of the API yet Sample test representative of applications done and will be 	
Points		improved to remove the ".cgns" binary file.	
		Feedback on API is appreciatedTarget CGNS 5.0	
prioritization,	@Tony	Next release 4.5.0, Kanban: 🜍 v4.5.0 • CGNS	
review and	Garratt	Current status for Ansys:	
attribution of	@David	No urgent issues.	
JIRA	Gutzwiller	 @Scot Breitenfeld Is completing the option of using subfiling for CGNS. 	
bugs/issues		• Targeting the 4.6.0 release, currently in the <i>subfiling</i> branch.	

Discuss adding a level	@Stephen Guzik	@Stephen Guzik will develop a CPEX for further discussion	Remove discussion as an alternative solution is being investigated.
below zones to avoid slowness		• Might post the topic on cgnstalk to reach a wider audience.	
issues due to creating many zones.			

New Business

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

Schedule next meeting

Jan 21, 2025 , 10:00 AM EST (US)

NOTE: At the meeting, a vote will be made for a chairman of the CGNS committee.

Adjourn