# 2021-3-2 Meeting notes

## Date

02 Mar 2021, 10:00 AM EST (US),

## **Participants**

- Scot Breitenfeld
- Wicky Moschou
- Scott Imlay
- David Gutzwiller
- @ Simone Crippa
- @ Tobias Leicht
- @ Gregory Sjaardema
- @ David Gutzwiller
- © Simone Crippa
- @ dmitry.s.kamenetskiy
- @ Thomas Hauser
- @ Tony Garratt
- @ Patrick Baker
- @ Earl P Duque
- @ ZJ Wang
- Kamenetskiy, Dmitry S
- @ Mickael PHILIT

# **Steering Committee Issues**



# **Discussion topics**

Item	Presenter	Notes
Approve Dec 2020 minutes.	@ Scot Breitenfeld	post last meeting's minutes to CGNS webpage.
		Approved

cgnstalk: Replacement	@ Scot Breitenfeld	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.
		© 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.  © Christopher Rumsey bundled all CGNSTalk archives between 2000-2020 into one file, and posted them to the bottom of CGNS docs current/index.html
Release all CGNS documentati on at cgns. org into the public domain	@ Scot Breitenfeld	₹ Passed: Release all cgns.org documentation into the public domain.
		© Scot Breitenfeld will update the copyright information on the webpage.

Please find attached a new CGNS proposal to extend GridLocation possibilities. Current Proposed Data @ Mickael PHILIT integration Points CGNS features do not allow to store Solution data at Integration Points when using Finite Element Methods. This topic is quite important for CSM (Computational Structural CPEX #0047 Mechanics) and FSI (Fluid-Structure Interaction). Feel free to join this initiative as the CPEX is still a work in progress. Any feedback is very welcomed to improve the proposal, especially on the MLL and HDF5 mapping parts. CPEX\_CGNS\_SIDS\_...tDefinition.pdf CPEX\_CGNS\_SIDS\_...Definition.docx @ 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. Feedback from Tobias Leicht (DLR) and Berenger Berthoul (ONERA) taken into account. Very small modification listed at the end of version 2. This last version is ready for voting (without MLL API). @ Mickael PHILIT and higher-order developers ( @ Tobias Leicht @ Koen Hillewaert ) will meet to discussion the remaining issue between the CPEX0047 and higher-order

methods.

high-level editing Raw html is not an ideal format to maintain documentation; the latex version seemed easier. @ Marc Poinot tools for the It was mentioned to maybe go back to using latex, but the latex version is now out of date @ Christopher Rumsey documentation compared to the html version. Some committee members were uncertain whether the latex page format was the right way to go when compared to other documentation methods (Markdown, Readthedocs, etc...). Either way, it will involve some effort to move from the HTML versions. @ Marc Poinot will look into the latex state of documentation and will look into alternatives to raw HTML. @ Marc Poinot has prototype w/ REST (used for the readthedocs web site). It supports equations and images and should, therefore be sufficient. It is implemented / available in dedicated branch (documentation\_migration). Needs feedback before continuing action for all: check result and the actual rest code. Main concern: simplicity of edition to be checked by all in the source in a dedicated branch @ Marc Poinot push last edits in prototype on the branch (the branch is https://github. com/CGNS/cgns.github.io/tree/doc-rest-migration/CGNS-ReST-site) and the new directory is CGNS-ReST-site Change the test site to https://poinot.github.io/cgns-test.github.io/ Suggest looking into using Doxygen, @ Marc Poinot suggest a separate meeting to discuss. SIDS structure is complete in the documentation prototype but the translation process is quite slow. Help requested. 7. Grid Coordinates, Elements, and Flow Update from @ Marc Poinot : Archive all emails (I can take the action and put them back in new doc site)

New doc site, progress have been made (thanks Mickael) to have a syntax highlight on

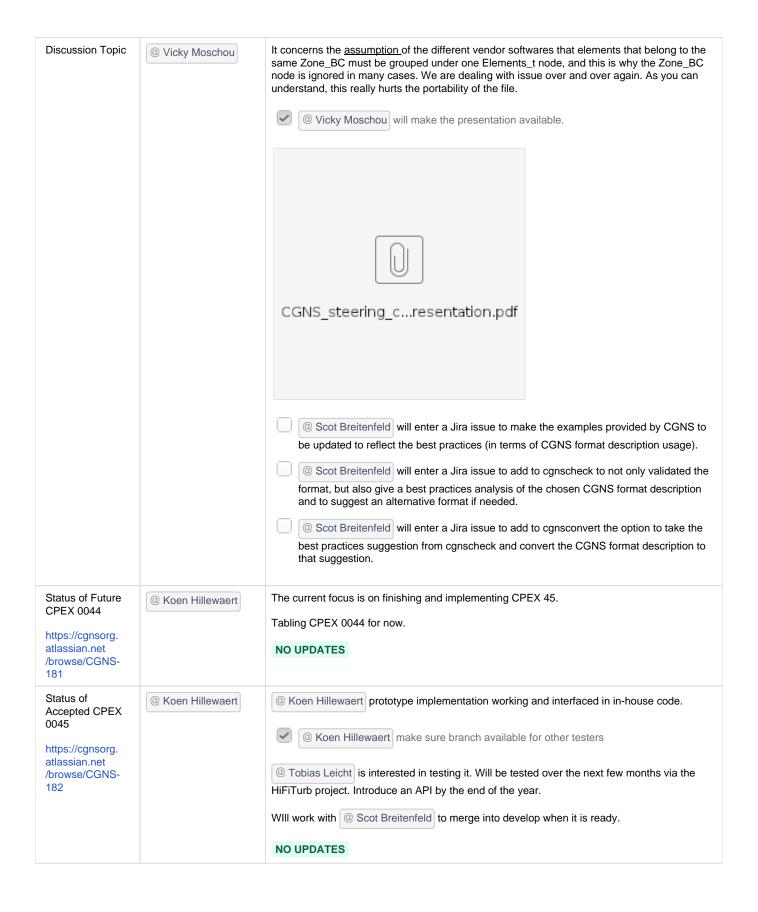
The new doc probably won't progress until next year, I put the effort on the way to write

@ 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

CGNS/SIDS data model syntax, not pushed yet

the doc and generate it first

others and to coordinate the effort.



Status of Future CPEX 0046 https://cgnsorg. atlassian.net /browse/CGNS- 183	@ Thomas Hauser	<ul> <li>@ Thomas Hauser will organize a meeting before the next committee meeting; probably even this week.</li> <li>@ Thomas Hauser will set-up another meeting in Sept.</li> <li>NO UPDATES</li> </ul>
prioritization		We would like to release 4.2 in the payt month, we would like to be oble to address
prioritization, review and	@ Tony Garratt	We would like to release 4.2 in the next month, we would like to be able to address
attribution of JIRA bugs/issues	@ David Gutzwiller	https://cgnsorg.atlassian.net/browse/CGNS-220 for the release.
		All the other issues should be moved to the v4.3 release, those bugs that can be addressed in the next month can remain.
		Updated Kanban Board for release of v4.2
		4.2 Kanban Board:
		https://cgnsorg.atlassian.net/secure/RapidBoard.jspa?rapidView=6&projectKey=CGNS
		General Kanban Board:
		https://cgnsorg.atlassian.net/secure/RapidBoard.jspa? rapidView=3&projectKey=CGNS&selectedIssue=CGNS-190
		We should consider a bug-fix only (no new features) release of CGNS to address the outstanding bugs and documentation.
		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
		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
		<b>Crucial to Ansys.</b> 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
		#2 https://cgnsorg.atlassian.net/browse/CGNS-141
		#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-55
		https://cgnsorg.atlassian.net/browse/CGNS-38
		https://cgnsorg.atlassian.net/browse/CGNS-162
		https://cgnsorg.atlassian.net/browse/CGNS-113
		https://cgnsorg.atlassian.net/browse/CGNS-147

### Action items from last meetings



#### **Decisions**

# **Page Title Decisions** 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. 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. 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.

#### **New Business**

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

## NO UPDATES

## Schedule next meeting

15 Jun 2021, 10:00 AM EST (US)

## Adjourn