

CGNS Telecon Minutes

Friday, 25 July 2017, 10:00am Eastern Time

1. The meeting was called to order by ZJ Wang. Attendees are listed in Appendix A.
2. 5 May 2017 minutes were approved as published on the website.
3. Steering Committee Issues
 - a. Earl Duque at Intelligent Light (IL) is interested in our high-order development, and will likely be the future IL representative (in place of Brad Whitlock).
 - b. Ulrike Wolf is no longer able to be actively involved on the steering Committee, so ANSYS has been removed from the Steering Committee until a replacement can be found.
4. Steering committee issues:
 - a. Committee members (telecon last date attended)

Airbus	01/2017
Boeing	01/2017
Cenaero	07/2017
Colo State	09/2016
HDF	07/2017
IL	09/2016
NASA LRC	07/2017
ONERA	07/2017
P&W	07/2017
Pointwise	07/2017
SAFRAN	01/2017
Sandia	07/2017
Tecplot	07/2017
TTC	11/2016
U Colo	01/2017
U Kansas	07/2017
5. Discussion
 - a. Software status (Breitenfeld)

V3.3.1 was recently released. The Windows build is now working; however, it still needs better documentation, and there is currently no automatic testing of Windows for CGNS.
Breitenfeld to add Windows documentation as appropriate.
 - b. Storage of high order solutions extension (Hillewaert)

Hillewaert discussed the status of this extension (CPEX). He is currently working in Google Docs. Anyone interested in contributing to this document should email him immediately. He noted that there is currently some ambiguity regarding point location for the existing higher order elements. Wang and Hillewaert to spell out required clarifications regarding high order element point locations in existing SIDS docs.
Furthermore, the current locations for some of the points appears to be different than what some people use. Hillewaert and Wang to determine if existing high order point locations in CGNS are OK.
6. Review action items
 - a. Continue to review outstanding JIRA items/tasks.
 - i. Item carries.
 - b. Breitenfeld to follow up on “too many communicators” issue.

- i. Plan to address it prior to next official release; dropped from action item list (it is active under JIRA items/tasks).
 - c. Hillewaert will complete a proposal for storage of high-order grids and data.
 - i. Item carries.
 - d. Rumsey to contact Garratt (Ansys) to let him know about the release plans, in order to try to get the Windows compilation fix in.
 - i. Done.
 - e. Breitenfeld to put out new release of CGNS.
 - i. Done.
 - f. Rumsey to post latest version of NGON fix as official CPEX 0041, and email to the committee.
 - i. Done. A discussion followed as to whether we are ready to vote on this proposal. Legay recently received a good suggestion from Sjaardema, which he plans to incorporate. Legay to update CPEX 0041 with Sjaardema's recent suggestion, then Rumsey to forward to the committee and ask for a vote by early September 2017. (The recent suggestion was also forwarded to the steering committee, in case anyone has any issues with it.)
7. New business
- a. Question about capability to translate a multiblock structured grid into a single-zone unstructured hex grid.
 - i. NASA has tools for this as part of its FUN3D suite, but it is currently restricted to access by US persons only.
 - ii. Hillewaert mentioned that Gmesh has this capability, but it currently does not write out CGNS.
8. Ongoing action items
- a. Continue to review outstanding JIRA items/tasks.
 - b. Hillewaert will complete a proposal for storage of high-order grids and data.
 - c. Breitenfeld to add Windows documentation as appropriate.
 - d. Wang and Hillewaert to spell out required clarifications regarding high order element point locations in existing SIDS docs.
 - e. Hillewaert and Wang to determine if existing high order point locations in CGNS are OK.
 - f. Legay to update CPEX 0041 with Sjaardema's recent suggestion, then Rumsey to forward to the committee and ask for a vote by early September 2017.
9. The next meeting is tentatively scheduled for Tuesday, 12 September 2017 at 10am Eastern.
10. Adjourn

Appendix A – Attendees

Pat Baker	Pointwise
Scot Breitenfeld	HDF Group
Bob Bush	Pratt & Whitney
Koen Hillewaert	Cenaero
Scott Imlay	Tecplot
Pierre Jacques-Legay	Onera
Chris Rumsey	NASA Langley
Greg Sjaardema	Sandia
ZJ Wang	U Kansas