

## CGNS Telecon Minutes

Friday, 5 May 2017, 10:00am Eastern Time

1. The meeting was called to order by Bob Bush. Attendees are listed in Appendix A.
2. 31 January 2017 minutes were approved as published on the website.
3. Sandia National Laboratories was voted as a new steering committee member (represented by Greg Sjaardema). Greg works in the I/O field, and has been involved with database management. He has used both Net-CDF and HDF-5. He is interested in CGNS primarily for hybrid-type meshes.
4. Steering committee issues:
  - a. Committee members (telecon last date attended):

|            |         |
|------------|---------|
| Airbus     | 01/2017 |
| ANSYS      | 12/2015 |
| Boeing     | 01/2017 |
| Cenaero    | 05/2017 |
| Colo State | 09/2016 |
| HDF        | 05/2017 |
| IL         | 09/2016 |
| NASA LRC   | 05/2017 |
| ONERA      | 05/2017 |
| P&W        | 05/2017 |
| SAFRAN     | 01/2017 |
| Sandia     | 05/2017 |
| Tecplot    | 01/2017 |
| TTC        | 11/2016 |
| U Colo     | 01/2017 |
| U Kansas   | 05/2017 |
  - b. Scot Breitenfeld has continued contact with the DoD HPC Modernization Program (<https://www.hpc.mil/>). They are interested in CGNS, but have not yet committed to CGNS steering committee participation.
5. Discussion
  - a. Software status (Breitenfeld)

Low activity. The committee agrees it is time for a new release, even though we still do not have the Windows compiler working yet. Rumsey to contact Garratt (Ansys) to let him know about the release plans, in order to try to get the Windows compilation fix in. Then: Breitenfeld to put out new release of CGNS.
  - b. Parallel NGON read/write extension (Legay)

Legay discussed the latest draft. This new extension can be made backward compatible, based on version, through the API software. Rumsey to post latest version of NGON fix as official CPEX 0041, and email to the committee.
  - c. Storage of high order solutions extension (Hillewaert)

Hillewaert discussed his plans for this extension. After he holds additional discussions with other experts, he plans to write it up in the early summer 2017 timeframe.
  - d. Potential NSF proposal status (Breitenfeld)

The proposal was submitted, and we are now awaiting the outcome.
  - e. Geometry storage in CGNS (ZJ Wang)

ZJ will work on a proposal after the Hillewaert extension gets worked out.

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. No action since last meeting; it would be helpful to get this fixed prior to the next release – item carries
- c. Rumsey to continue to communicate with Garratt (Ansys) about his work to fix compilation of Fortran on Windows.
  - i. Done
- d. Legay to revise NGON proposal to final form, which will be made into a new CPEX for final consideration, voting, and implementation.
  - i. Done
- e. Hillewaert will work to wrap up a proposal for storage of high-order grids and data.
  - i. Item carries
- f. Breitenfeld to take the lead for revising and submitting a new NSF proposal by March 2017.
  - i. Done
- g. Wang to draft short proposal for storing geometry in CGNS via higher order patches for circulation through the committee.
  - i. Put off until after Hillewaert’s proposal gains more traction.

7. New business – None.

8. Ongoing action items

- a. Continue to review outstanding JIRA items/tasks.
- b. Breitenfeld to follow up on “too many communicators” issue.
- c. Hillewaert will complete a proposal for storage of high-order grids and data.
- 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.
- e. Breitenfeld to put out new release of CGNS.
- f. Rumsey to post latest version of NGON fix as official CPEX 0041, and email to the committee.

9. The next meeting is tentatively scheduled for Tuesday, 25 April 2017 at 10am Eastern.

10. Adjourn

**Appendix A – Attendees**

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