

ENES DTF Telco September 6th, 2017, 10:00 – 11:30 CEST

Attendees: Stephan (DKRZ), Christian (CERFACS), Sandro (CMCC),
Michael Kolax (SMHI), Francesca (CNRS), Martin (CEDA), Sebastien (IPSL)
Excused: Wim (KNMI)

Agenda items and minutes:

- Status of ENES-DSI (Data Services Infrastructure):
 - C4I on-going efforts and current activities
 - services are running and used, some development done in C3S 34a on the backend software (Wim), packaging and easy deployment --
 - Eudat work ongoing
 - H2020 related project proposals status
 - Martin design study (DS4CIRI: rejected, 10 points)
 - Eudeca proposal (10.5 points, rejected)
 - CI-TRON proposal (10.5 points, rejected)
 - EOSC-hub proposal (starts jan next year, DKRZ & CMCC involved)
 - EUDAT2020 on-going work related to ESGF/ENES
 - DARE proposal (H2020-EINFRA-2017) has just been approved (14 points) (CERFACS and KNMI involved), C4I is a use case in this proposal (Wim)
 - IS-ENES3 meeting in october
 - ESIWACE preparation for preparation towards exascale
- ESGF:
 - CMIP6 planning and ESGF infrastructure status
 - DKRZ: nodes up, test publication of CMIP6, networking issues, 5 PByte (on disk, for replication + primary data publication)
 - IPSL: nodes up, not cmip6 version deployed; replication: 4 PByte replica (on disk) to be installed jan next year
 - CDNOT CMIP6 readiness summary:
<https://docs.google.com/spreadsheets/d/1U9ka7f2swDzoFYu4uZ7S0Qu-kF-5s4lgGCggX-ATmWk/edit#gid=0>
 - CEDA: replication volume under discussion; nodes up (issue with access control);

- NSC: node up with CMIP6 version, probably for primary data publication only, EC-EARTH (data not before december / january)

- **Discussion with respect to replication strategy:**

- Data format: regridded data ..
- Variables, Volume:
 - WCRP WG 1,2, DDC meeting at DKRZ planned,
 - IPSL strategy: balance between user requirements and ESGF consortium replica strategy,
 - hot spot identification is required .. ,
 - Volatility problem of initial data .. need to decide on how to handle old versions ... more detailed discussion by end of this year

- **Status ESGF/CMIP6 Services:**

- PIDs: infrastructure in place, test publications ongoing
- Citation: service in place, pilot application with input4mips data
- ERRATA: up and running, procedure in place, needs to be communicated, effort to support modeling group needed ..
- ESDOC: ecosystem there, some descriptions are still necessary, beta testing based on python notebooks (gfdl), publisher plugin on the roadmap
- Organizational aspect: CDNOT main place with respect to data nodes and associated data services, some responsibility at modeling centers (errata,..)
- Channeling communication to modeling groups: Karl, Balaji .. (put on agenda for next WIP telco)

- **Contribution to ESGF F2F Meeting 12/2017 in SF:**

- joint poster/demo for C3S 34a lot1/2 on WPS services (wim,stephan)
- Poster and live demo on EUDAT-GEF/EGI/ESGF-CWT/C4I integration Use Case (Christian)
- Poster on Dashboard (CMCC, DKRZ, JPL, IPSL, LLNL)
- Demo on Ophidia/INDIGO outcomes (Sandro)
- ? Copernicus Programme – Science Drive Overview ?
- ? Copernicus Programme – Machine Learning activities (optional, if you don't want to present, let me know) ?
- ? Copernicus Programme – Diagnostics needs and overview (optional, if you don't want to present, let me know) ?

→ **Action item:** discuss what we want to present and who .. (to be decided during next days, iterate on proposal by Sebastien, include Phil for machine learning.., also include Sandro)

- AGU participation: Sandro

- ENVRI-Plus EOSC pilot
 - Status: project partners;
 - CNRS (France), DKRZ (not funded), ICOS (Lund, ..)
 - Important for future .. would be good to have a success story ..
 - Share experience with EUDAT/EGI work in future
- ENES-DSI consortium as legal entity (topic from Michael)
 - Benefits are increased visibility, acceptance and integration in e.g. ESGF and EOSC -
 - Founding members could be the ENES-DTF
 - Discussion should start with pros and cons followed by tasks, objectives and activities
 - No decision on organizational framework at this point
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Discussion points:

- ENES strategy? Separate data and model part .. joint solution .. ?
- Agreement before scoping meeting would be good ..
- Specific proposal: have a specific WP (ESFRI \longleftrightarrow ERIC), specific task for data topics ..
- ERIC : https://ec.europa.eu/research/infrastructures/index_en.cfm?pg=eric
- ESFRI : https://ec.europa.eu/research/infrastructures/index_en.cfm?pg=esfri
- Other legal structures?

→ **next telco:**

- further discussion, deepen understanding of consequences, scope, Etc.
- Date: last week of september , 25. Monday (before/after lunch) or Wednesday afternoon (to be decided based on feedback by Sylvie)

- Topic for IS-ENES3 proposal from DKRZ (postponed to next telco)
 - Data and model workflows for efficient use of next generation exascale hardware
 - Available is a 2-pager entitled "Multi-stakeholder Exascale Data and Model Extraction Study (MESDAMES)"
 - Networking necessary with other activities ..

The connection details are:

ENES data task force

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