

The NEA GitLab: a tool for international collaboration

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Introduction

- The NEA Nuclear Science Committee oversees multiple collaborative projects between member states, invitees and observers
- Various projects within the NSC WPEC have made requests for technical solutions to enable collaboration on projects with various types of data
 - EG-GNDS (specifications, requirements, etc)
 - VaNDaL inputs, tools
 - SG37 various datasets
 - SG43 documentation
 - ...
- Solutions had been provided by BNL before 2018 via GForge and SVN or github.com
- In 2018 the NEA implemented a GitLab server

NEA GitLab

- Self-hosted solution on NEA servers
- Based on the GitLab Omnibus Core with selected features enabled
 - If you believe there are features not enabled that affect group activities please let me know so that we can record these and review the service periodically
- Limited CI/runner has been enabled for projects including meeting docs, GNDS specifications, EXFOR checking
 - If you have another CI need discuss with us so that we can implement a solution
 - Containerised CI could be an option using built-in registry

User permissions

- All spaces are 'Private' with membership-based user lists
- All accounts have passwords and specific group/project permissions
 - Spaces without access cannot be seen
 - Privacy can only be changed by NEA staff
- Non-NEA are 'External' users without base project/group creation
- Permission hierarchy established based on straightforward and specifically limited rules
 - Co-ordinators and/or monitors = Maintainers
 - Members = Developers
 - Others with accounts may be given Reporter

Organisation

- <https://www.oecd-nea.org/> → <https://git.oecd-nea.org/>
- Group structure hierarchy provides namespaces that map 1-1 with the existing NEA website structure
e.g. <https://git.oecd-nea.org/science/wpec/gnds>
and <https://www.oecd-nea.org/science/wpec/gnds>
- Collaborative space(s) can then be developed via standard branch and merge request procedures with assigned responsible members for reviewing merges
- Fully public spaces will be managed by NEA staff



OECD Nuclear Energy Agency GitLab



NEA

NUCLEAR ENERGY AGENCY

Welcome to the GitLab system for the [OECD Nuclear Energy Agency](#)

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Username or email

Password


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Formats


Project ID: 39

🔔
★ Unstar 1
🍴 Fork 0
📄 Clone

No license. All rights reserved
 985 Commits
 10 Branches
 0 Tags
 32.9 MB Files

Project for documenting the data organization in the Generalized Nuclear Database Structure (GNDS)

master
formats / +
History
🔍 Find file
Web IDE
🔗



Merge branch 'misc' Into 'master'
...

David Brown authored 12 hours ago

✅
ff6b7cba
🔗

📖 README
🔧 Add Kubernetes cluster
🔧 CI/CD configuration

Name	Last commit	Last update
📁 Conventions	Assorted fixes through end of part I: update so...	5 days ago
📁 DataContainers	Minor edit	3 days ago

SG45 VaNDaL space

- WPEC subgroup 45 has a group space already
 - Contains meeting documents area
 - Contains 'Contributions' space for input deck suites
 - Already populated with Trkov suite
- Meant to hold git-controllable content and reasonably sized repos
 - Binary objects are possible, particularly with LFS
 - Large sets of BLOBs are not well handled with the system and may be best handled with compressed file hosting
 - Huge sets of artefact data (e.g. unparsed code outputs) probably aren't right for git
 - **If you are thinking of a 100 MB+ repository please contact me**

Ideal git contents

- Any software tools (scripts, codes, etc)
 - Particularly if you don't want to put them on github.com or similar
 - We can offer private spaces and assistance in setting these up
 - Authors always can copy their repositories to cloud/public services as they see fit
- Inputs and parsed outputs
- Small BLOBs, as required
- Schema
- Collaborative LaTeX documents
- ...

Next steps

- If you don't have login credentials contact me:
`michael.fleming@oecd-nea.org`
- You can find the space here:
`https://git.oecd-nea.org/science/wpec/sg45`
- If you want to open a new repository, I am more than happy to assist!

Questions?