



# EUROfusion Software Development Stack - Gitlab / JIRA / Confluence / Mattermost

**ACH-04 - IPPLM/PSNC**  
15th E-TASC meeting

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## Current state of EUROfusion Software Development Stack

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**It can be challenging to develop the code without a solid development platform.**

- it is challenging **to maintain the code base**
- it is challenging **to provide consistent code documentation**
- it is challenging **to track issues and improvements**
- it is challenging **to automatically test your code**

**All these aspects of development are addressed through EUROfusion Software Development Stack.**

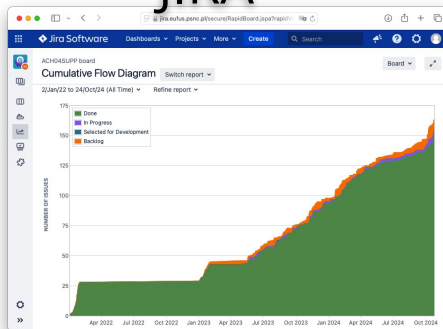
# PSNC provides the whole development ecosystem for your convenience

## Gitlab



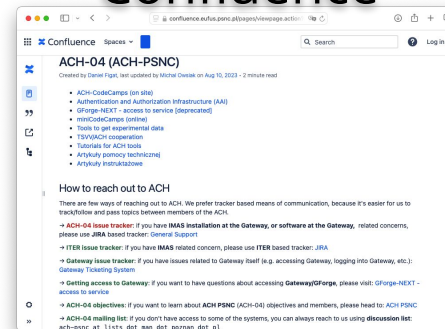
source code repository

## JIRA



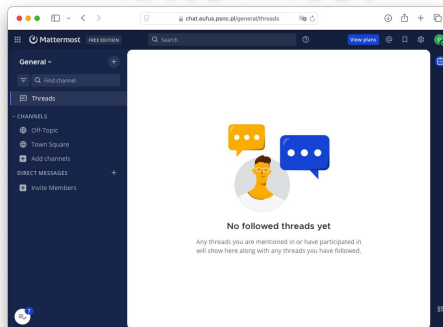
issues tracking system

## Confluence



WIKI like pages

## Mattermost



Communication platform

**PSNC provides the whole development ecosystem for your convenience**

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## **All components are tightly integrated in order to simplify the development process**

- You can easily run CI/CD jobs inside Gitlab and test your code as you develop it
- You can track your Gitlab projects inside JIRA
- You can provide easy to read and easy to maintain Confluence documentation of your software
- You can generate API documentation with ease using Gitlab Pages
- You can exchange your ideas with other developers using SLACK like platform - Mattermost

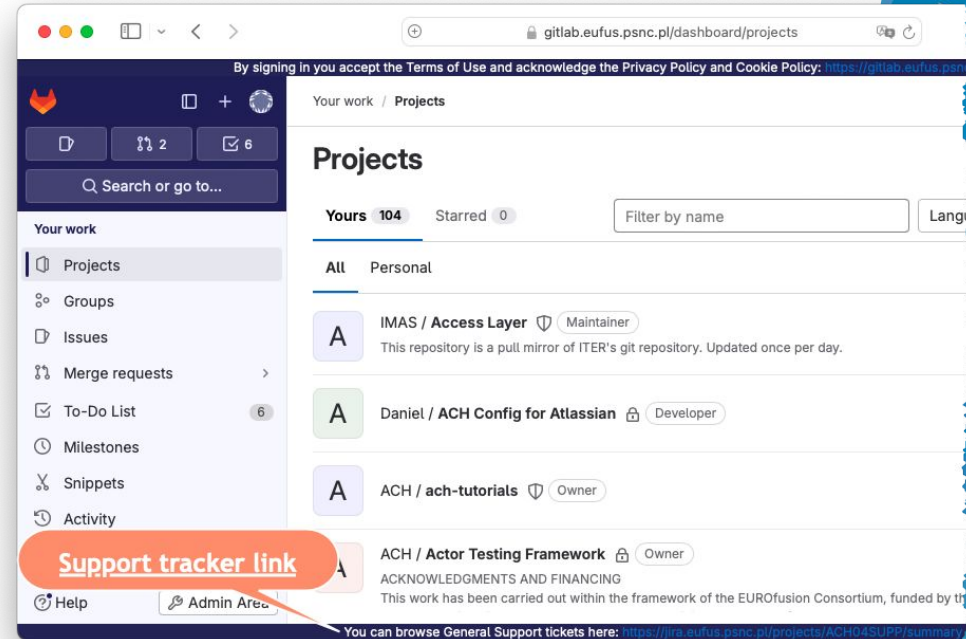
**All you have to do to benefit from the platform is to create an account: [HOW TO CREATE ACCOUNT ?](#)**



# You can easily maintain your source code

<https://gitlab.eufus.psnc.pl>

- [Gitlab instance for EUROfusion projects](#)
- [CI/CD plans](#)
  - natively at Gateway
  - inside Docker containers
- Gitlab Pages
  - auto generated documentation
- integration with [JIRA and Confluence](#)
- Single Sign On
- [Support tracker ACH-04](#)

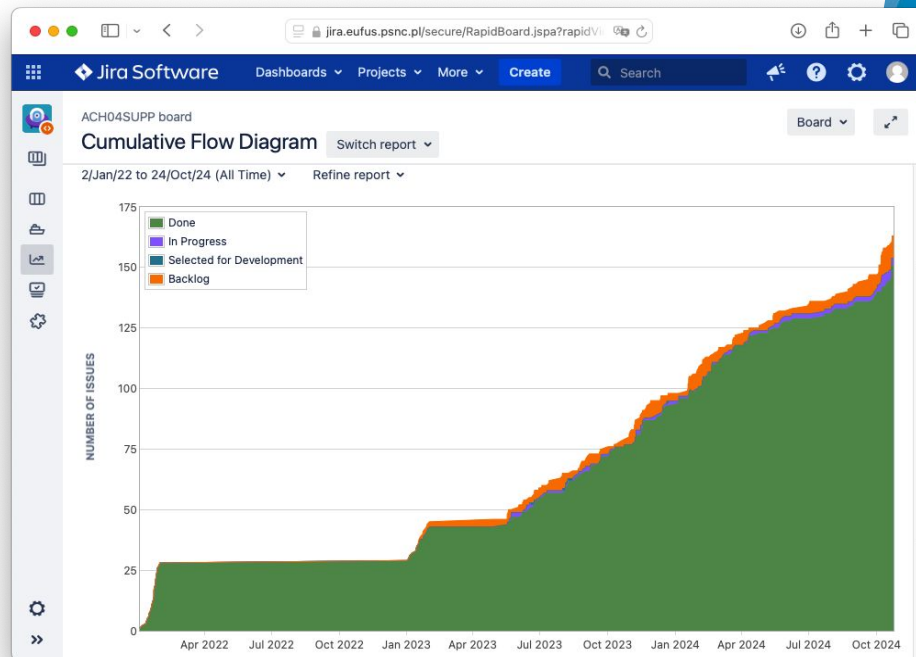


184 users / 296 projects

## You can easily track issues / improvements related to your project

<https://jira.eufus.psnc.pl>

- JIRA instance that is linked with Gitlab
- Allows to track changes and issues in your code
- Makes it easier to track project's progress using agile approach (Kanban / Scrum)
- Single Sign On
- [Support tracker ACH-04](#)

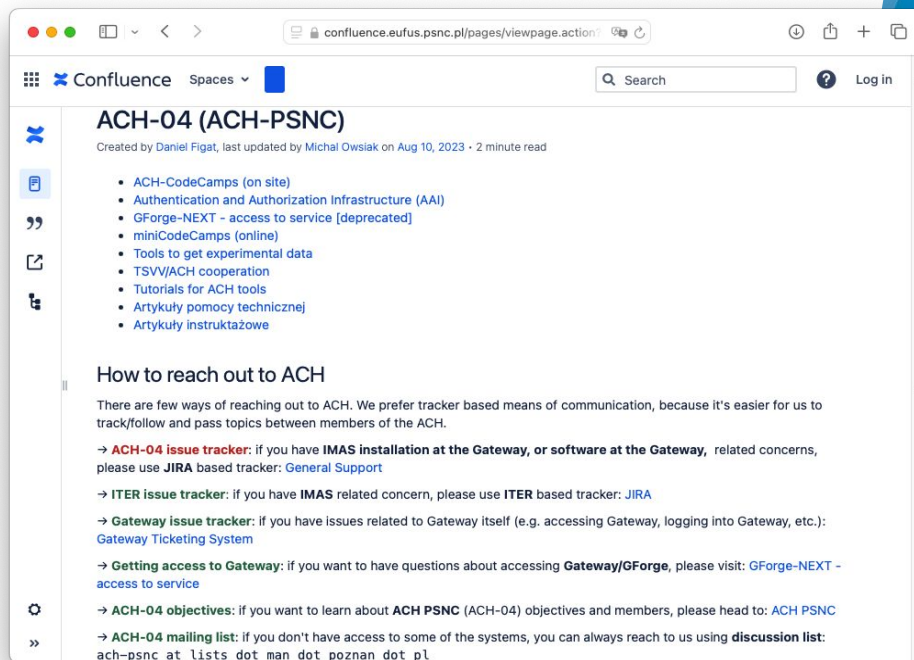


156 users / 9 projects

# You can easily document your code providing easy to read user manuals

<https://confluence.eufus.psnc.pl>

- Confluence instance that provides WIKI like system for documentation
- Allows to edit and publish documentation
- Makes it easier to collaborate on users manuals
- Single Sign On
- [Support tracker ACH-04](#)

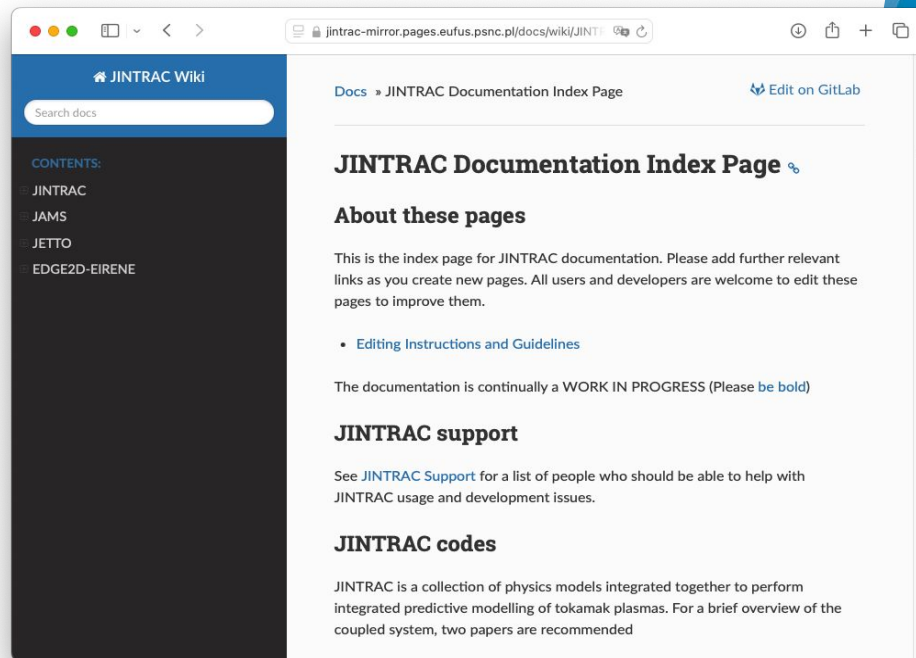




# You can easily deploy API documentation using Gitlab Pages

[https://\\*.pages.eufus.psnc.pl](https://*.pages.eufus.psnc.pl)

- Automatically generated from your code
- Provide API documentation made with ease
- Can be integrated with Gitlab based CI/CD plans
- Single Sign On
- [Support tracker ACH-04](#)

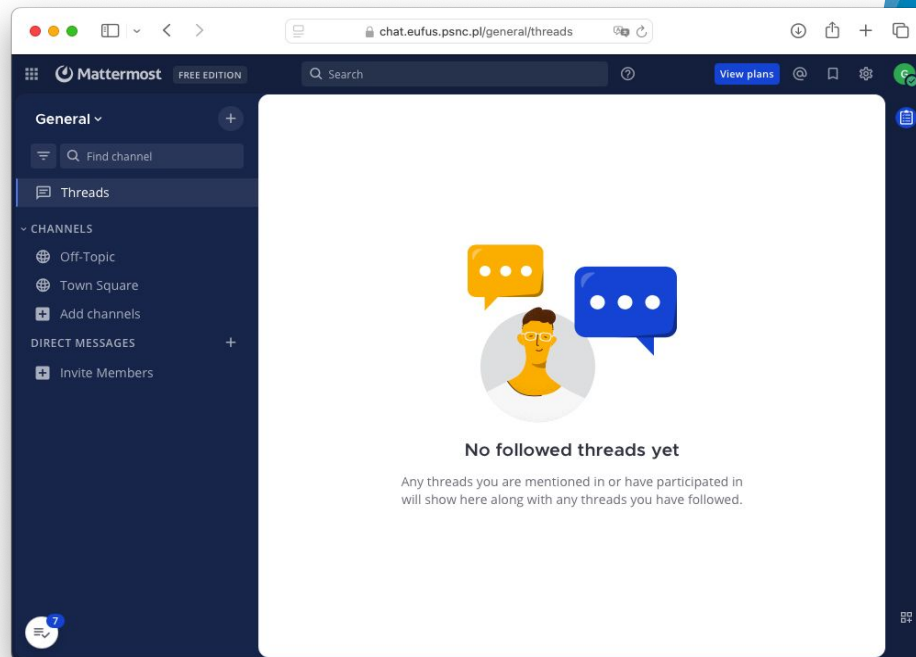




## You can easily collaborate with other developers using Mattermost

<https://chat.eufus.psnc.pl>

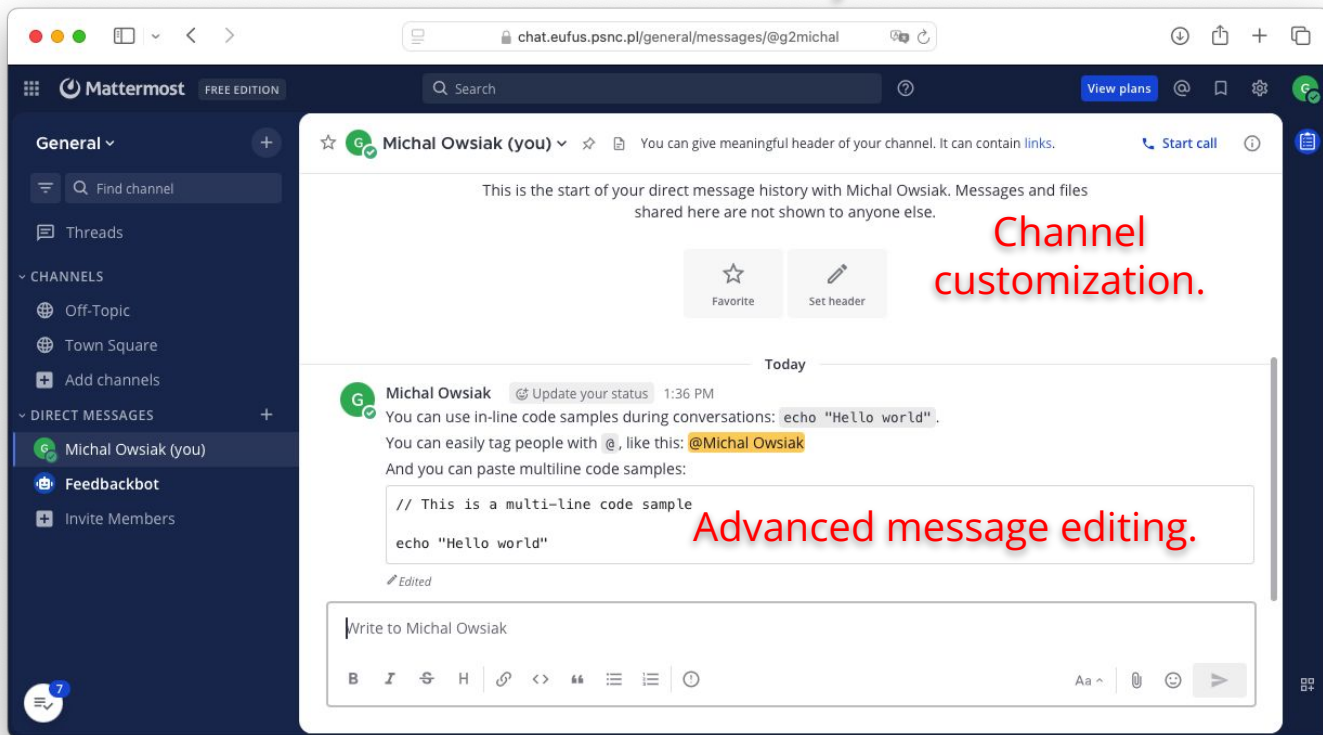
- Mattermost allows to collaborate with other developers
- Similar to SLACK but with less restrictions
- Unlimited chat history
- Teams and channels make it easier to structure your communication within the projects
- [Support tracker ACH-04](#)



# Collaborative development with communication platform - Mattermost

Web browser ready

Custom teams and channels.



Channel customization.

Advanced message editing.



PSS

**Any questions?**

# References

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## [Gitlab / JIRA / Confluence / Mattermost instances](#)

[ACH-04 Support tracker](#) - place where you can submit your issues related to the platform itself

[EUROfusion Gitlab instance](#) - Gitlab instance for your source code

[EUROfusion JIRA instance](#) - JIRA instance, the place where you can track your project's progress

[EUROfusion Confluence instance](#) - Confluence instance, the place where you can document your work

[EUROfusion Mattermost instance](#) - Mattermost instance, the place where you can collaborate with other developers

## [Documentation of the platform](#)

[Gitlab overview - where to look for detailed information](#)

[Gitlab HOWTO \(basics\)](#)

[Gitlab tutorial sessions \(with samples\)](#)

[JIRA and Confluence tutorial \(how to use EUROfusion instance\)](#)

## [Getting access to the platform](#)

[ACH Jira/Confluence - access to service](#)

[ACH Jira/Confluence - how to request account creation for ACH/TSVV members](#)

## References

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[YouTube - Gitlab training materials](#)

[Importing project to EUROfusion](#)

[Setting up PUSH mirror at EUROfusion](#)

[Setting up PULL mirror at EUROfusion](#)

[Setting up Gateway based CI/CD plan using EUROfusion](#)

[Setting up Docker based CI/CD plan using EUROfusion](#)



# Acknowledgments

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