



# AI-Powered DITA Translation Workflows in Oxygen



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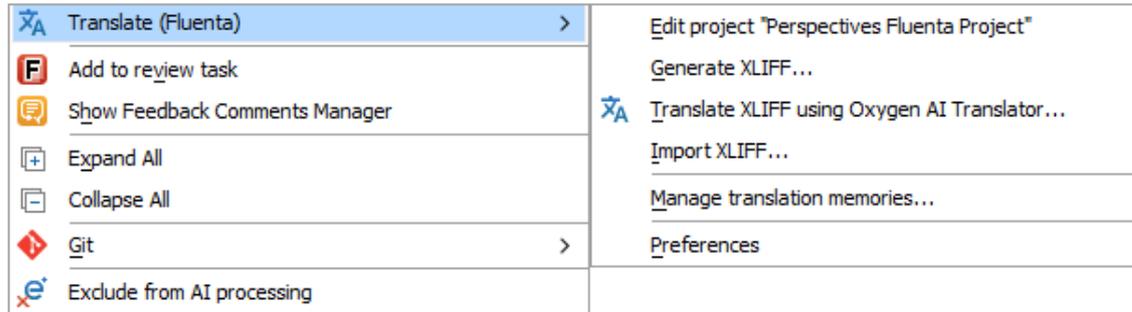


## Agenda

- Oxygen DITA translation workflow:
  - The necessary add-ons
  - The specific steps
- Live demo
- Possible future directions
- Q&A



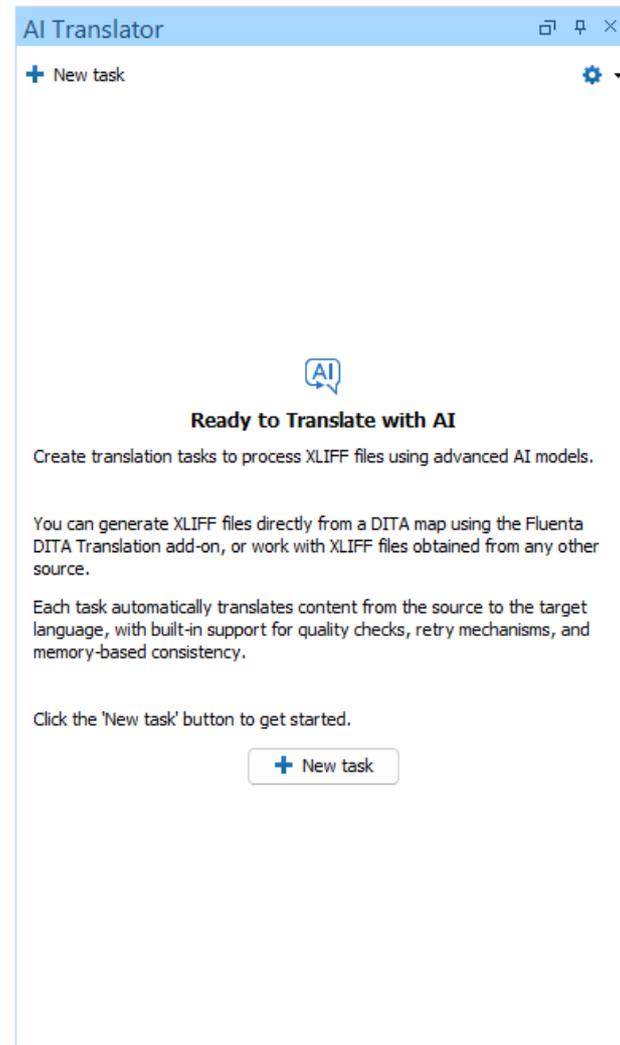
## Fluenta DITA Translation Add-On



- Parses a DITA map, resolves the references to all topics and subtopics, and generates a unified **XLIFF** (XML Localization Interchange File Format) file that you can send to the *Language-Service Provider*.
- Generates the translated version of the DITA map based on the translations performed inside the XLIFF file.

## AI Translator Add-On

- Provides AI-powered translation for XLIFF 1.2.
- Features translation memory integration and AI response caching system.
- Uses the AI connectors and models set up in *Oxygen AI Positron*.
- Translation tasks include a quality check. If the quality check finds issues, the system can automatically try again using better models.
- Allows you to run multiple translation tasks in parallel.



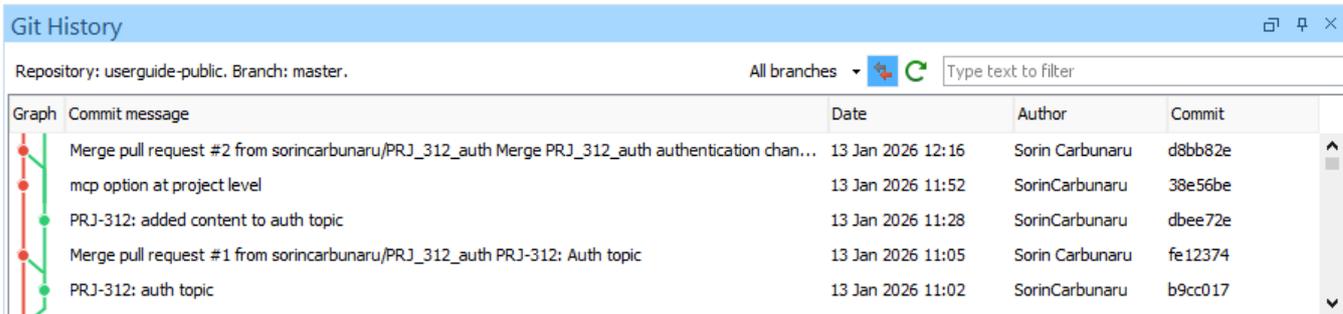
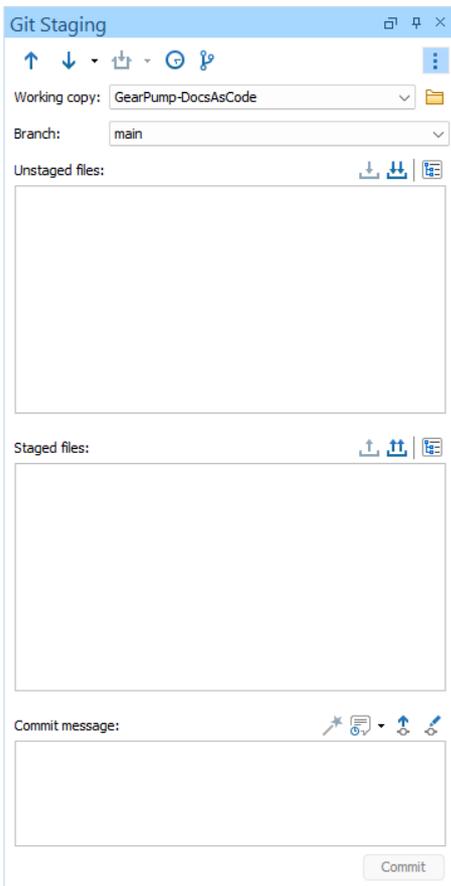
## AI Positron Add-On

- Is an advanced AI-powered solution designed to assist you in every stage of the writing process.
- The add-on requires a connection to an AI-service provider. Several options are available:
  1. Connect to the *Oxygen AI Positron Service*. This requires an active subscription plan (billed monthly).
  2. Connect directly to an AI-service provider of your choice. This requires an *Enterprise* license for:
    - a) Either the Oxygen host (no additional purchase required).
    - b) Or the AI Positron add-on (as an annual subscription).



# Git Client Add-On

- Provides a way of working with your Git projects directly from Oxygen's GUI.
- Packs a great number of features, from the basic commit, pull, and push, to more powerful ones such as cherry-picking, rebasing, or working with submodules.



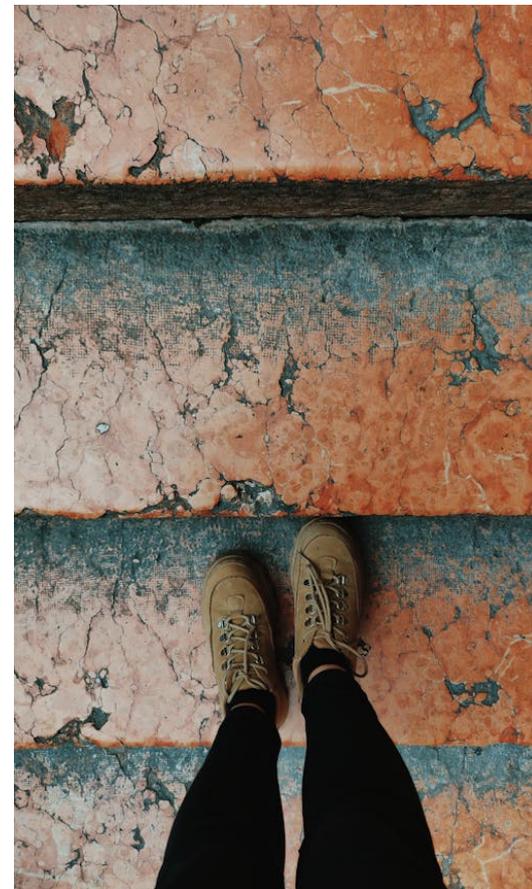
## DITA Translation Workflow In Oxygen

- **Prerequisites:**

1. Use version control (Git).
2. Create the Fluenta project for the current DITA map.

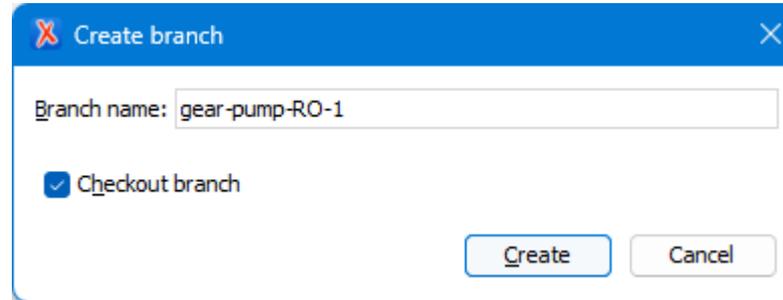
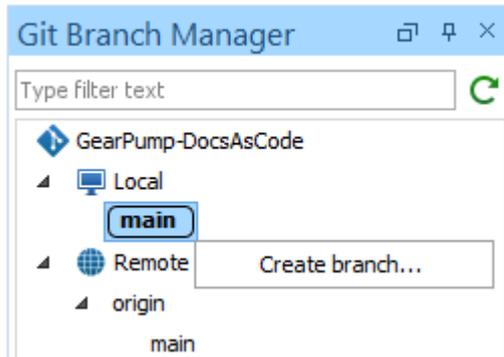
- **Steps:**

1. Create a dedicated branch for translation using the *Git Client* add-on to keep sources frozen.
2. Generate the initial XLIFF using the *Fluenta* add-on.
3. Translate the XLIFF using the *AI Translator*.
4. Import the translated XLIFF using the *Fluenta* add-on to generate the translated DITA project.
5. Merge the translation branch using the *Git Client*.



# DITA Translation Workflow In Oxygen

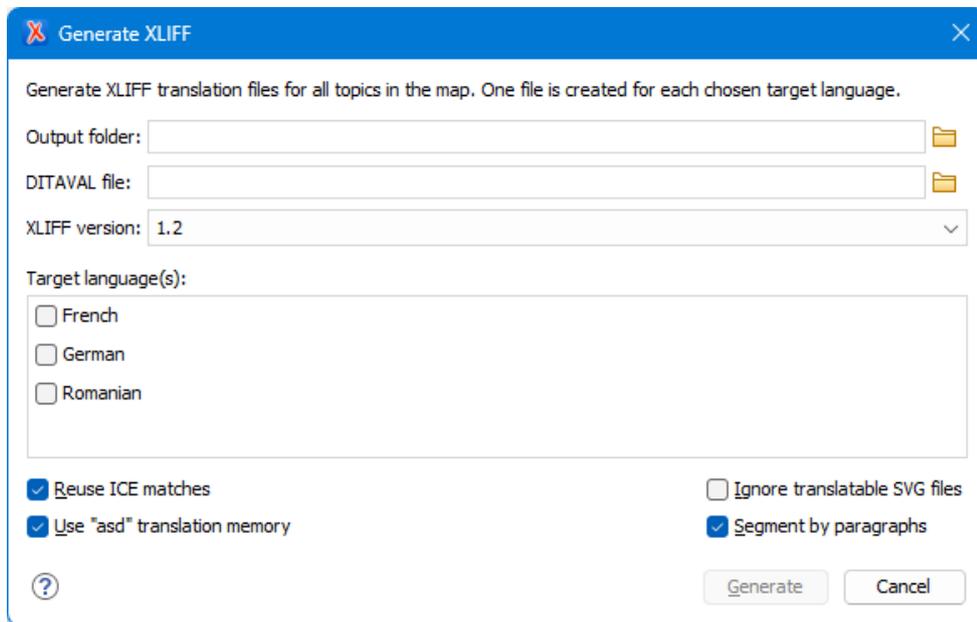
## 1. Create the branch for translation.



- This way we ensure the source files remain untouched during the translation loop.

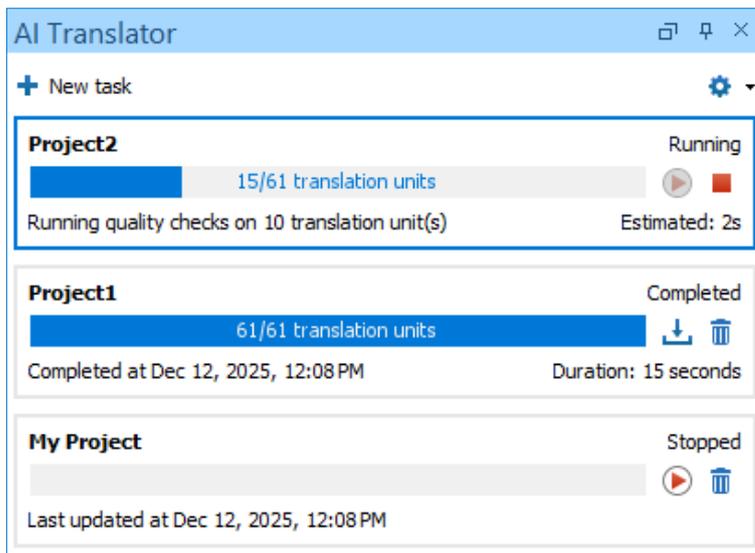
## DITA Translation Workflow In Oxygen

2. Generate the initial XLIFF using the *Fluenta* add-on. This file serves as the source for the translation.



## DITA Translation Workflow In Oxygen

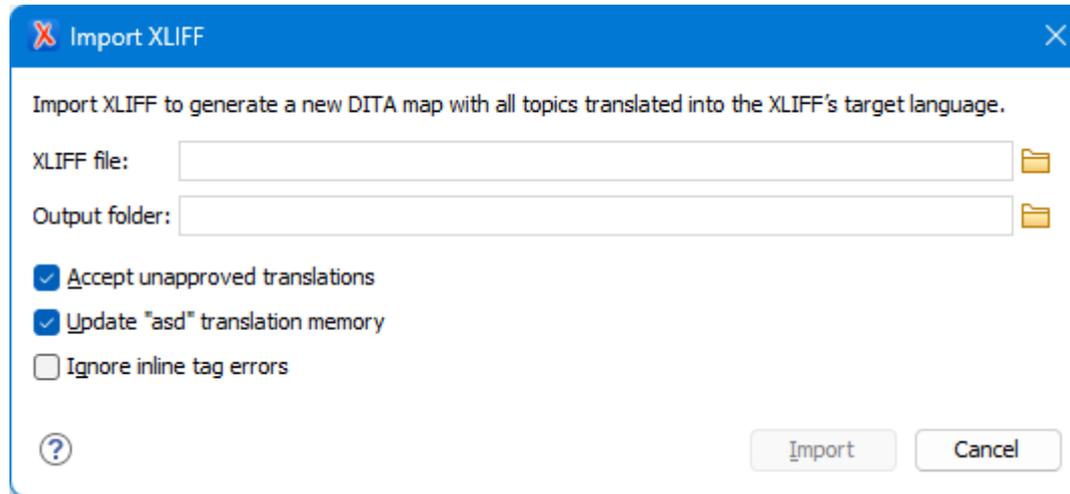
### 3. Translate the XLIFF using the *AI Translator* add-on.



- Ideally, the AI-translated XLIFF should be reviewed by a human.
  - `//trans-unit[not(target) or target[@state='needs-translation']]` – not translated.
  - `//trans-unit[target[@state='needs-review-110n']]` – translated, but needs review.

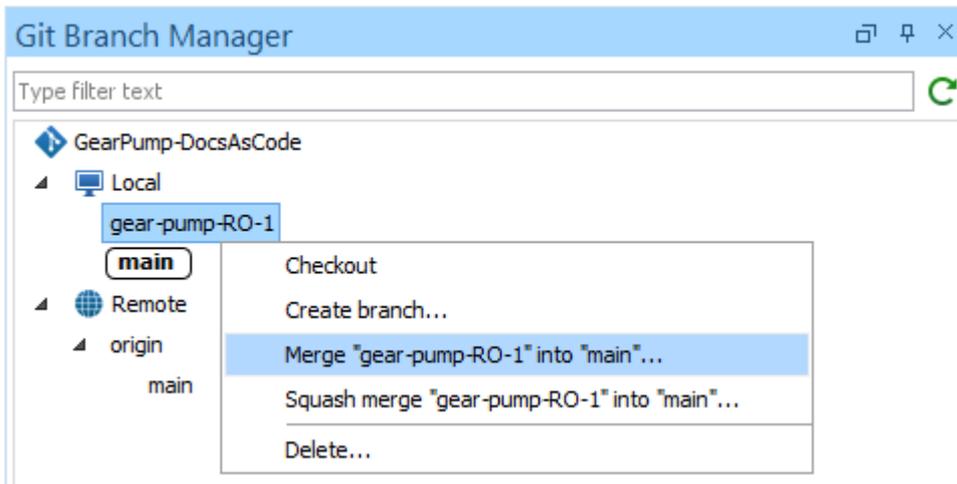
## DITA Translation Workflow In Oxygen

4. Import the translated XLIFF using the *Fluenta* add-on to generate the localized version of the DITA map.



## DITA Translation Workflow In Oxygen

5. Merge the translation branch to integrate the localized content.



## Possible Future Directions

- AI-powered built-in translation support in Content Fusion
- XLIFF 2.0 support in AI Translator
- Terminology support in AI Translator



## Helpful Resources

- Oxygen AI Positron for Desktop  
[https://www.oxygenxml.com/ai\\_positron\\_desktop.html](https://www.oxygenxml.com/ai_positron_desktop.html)
- AI Translator Add-on Docs  
<https://www.oxygenxml.com/doc/ug-addons/topics/ai-translator-add-on.html>
- Fluenta DITA Translation Add-on Docs  
<https://www.oxygenxml.com/doc/ug-addons/topics/fluenta-dita-translation-add-on.html>
- Maxprograms Fluenta  
<https://maxprograms.com/products/fluenta.html>
- Git Client Add-on Docs  
<https://www.oxygenxml.com/doc/ug-addons/topics/git-addon.html>
- Project used for demo  
<https://github.com/sorincarbunaru/GearPump-DocsAsCode/tree/translation-webinar>

# THANK YOU!

## Q&A time

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