

New Software Tool Automates Subsea Data Processing Workflow



Danish software engineering specialist EIVA has released a new tool, NaviSuite Workflow Manager, for automatic data processing of large amounts of subsea data, with minimum human involvement. With the Workflow Manager, repetitive tasks are automated and executed in parallel by the software. This means that data is processed faster, and crew members' time is spent more efficiently on errors, interpretations and quality control.

Faster than traditional processing

The first performance measurements on real-life operations data and workflow setups have shown positive results, with 50 hours of data processed in less than 2 hours.

According to EIVA, this is 25 times faster than other, typical data processing setups, where the industry has been satisfied with being able to process 1:1, that is, process one hour of data in one hour.

This particular performance measurement was reached with six AUVs running continuously, in parallel. All the data brought in by these was processed with a single crew, as opposed to increasing the crew size accordingly.

Applicable for AUV/USV operations, shallow water surveys and inspection operations

The Workflow Manager can be applied in various types of operations, including:

- AUV/USV operations, where the Workflow Manager processes hundreds of steps in parallel when data is recovered at the end of each mission.
- Shallow water surveys and pipeline/cable route inspections, where each sensor file is automatically processed as it is recorded, thus completing most of the processing during acquisition, leaving quality control and manual eventing as the only task for the data processor to carry out.

The Workflow Manager is a configurable tool, which allows the user to automate the small steps data processors normally go through when processing subsea data. A few examples are:

- Loading files, including waiting for files to become available
- Applying tide, SVP, etc
- Cleaning data
- Checking a number of quality control parameters such as density, gaps, noise levels, TVU, etc
- Correcting seabed height level across multiple surveys, etc
- Exporting data in different formats

Learn more [here](https://www.hydro-international.com/content/news/new-software-tool-automates-subsea-data-processing-workflow).