

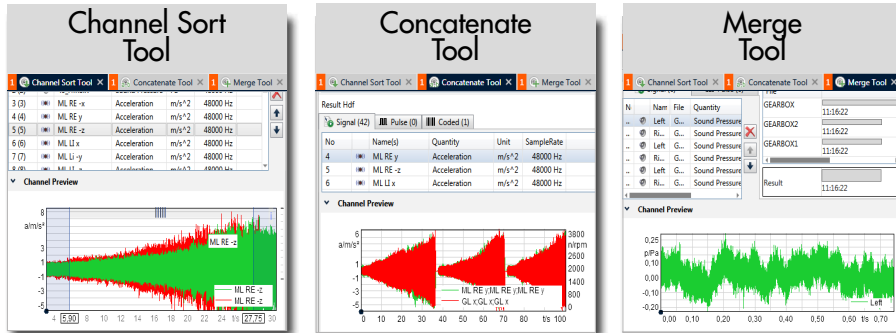
### ArtemiS SUITE Signal Editor Module (Code 5020)

Module with tools for structured editing of HDF and DAT data files

### Overview

The Signal Editor Module includes three different tools for the measurement data preparation.

- Structurally different data sets within a measurement series can lead to errors in the analysis and further processing. The reasons can often be found in modifications of the measurement setup, which lead to differences in the order or naming of channels or in their number or structure.
- The Channel Sort Tool allows such sources of error to be fixed retroactively and the structure of data sets to be simplified, even if they contain a large number of channels.
- The Concatenate Tool was designed to concatenate two or more identically structured data files and save them as a single file.
- Multiple recordings of the same event made with different front ends, for example, can be easily synchronized and saved as a new file using the Merge Tool.



### Features

#### Channel Sort Tool

- Manual sorting of channels
  - Index-based (requires structurally identical files)
  - Name-based (requires identical channel names, any structure and number)
- Automatic sorting of channels based on the channel structure and parametrization
  - Automatic detection of Common Channels contained in all files
  - Sorting of Common Channels and removal of Additional Channels
- Diagram preview for quick identification of the selected time domain signals
- Use of templates, e.g. from a sample measurement, for automated removal of Additional Channels
- Simultaneous processing of multiple files (batch operation)

#### Concatenate Tool

- Concatenation of multiple, identically structured data files
- Easy configuration of concatenation (fade, pause)
- Overview list with channel information table and diagram with result preview

#### Merge Tool

- Synchronization and merging of channels from HDF or DAT files into a new file
- List view for re-sorting or removing channels
- Bargraph view for visualization of file lengths and positions for a quick overview
- Synchronization modes:
  - Date of Recording
  - Start of Abscissa
  - Start of Data

# Characteristics

## Operating concept

The user interface provides a clearly structured workspace with all required controls and diagrams at any time, allowing all functions to be controlled directly. This ensures easy and, most of all, quick processing of data files.

Selecting the data files to be processed is very easy, too. Users can simply select the files in the Channel Editor or the HEAD Navigator via a context menu item, or drag and drop them directly from the Navigator into the user interface.

## Checking mechanism

All three tools include checking mechanisms that automatically check whether the selected data files are suitable for sorting, concatenation, or synchronization.

For example, if the Concatenate Tool finds measurements with a different number of channels or different channel parameters, the user is warned accordingly by a message prior to the further processing.

## Templates (Channel Sort Tool)

The Channel Sort Tool becomes particularly efficient with the use of templates. Users can save a standard measurement as a template and apply it to any number of data sets. The data sets are then automatically sorted according to the template, and channels not contained in all data files are deleted.

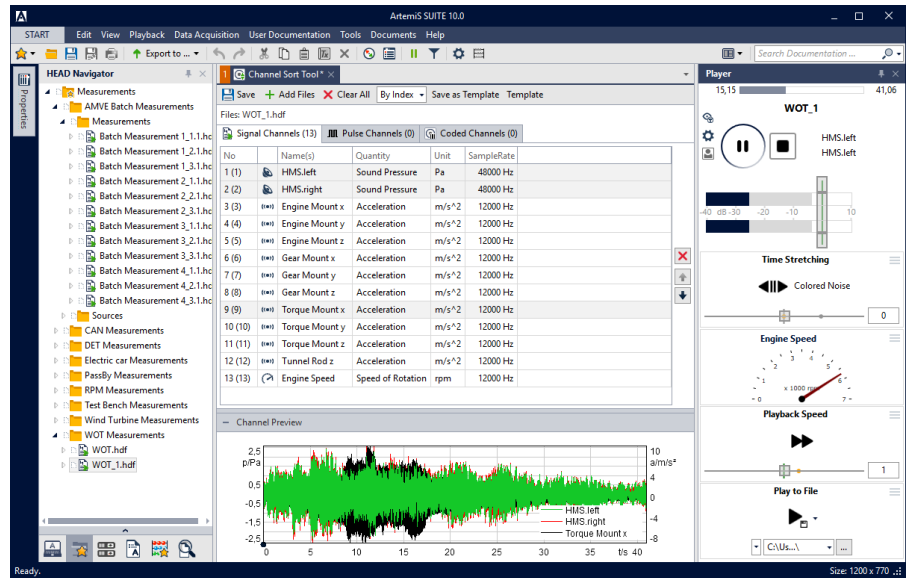
Templates can be used, copied, and provided to other users whenever needed.

## Scope of Supply

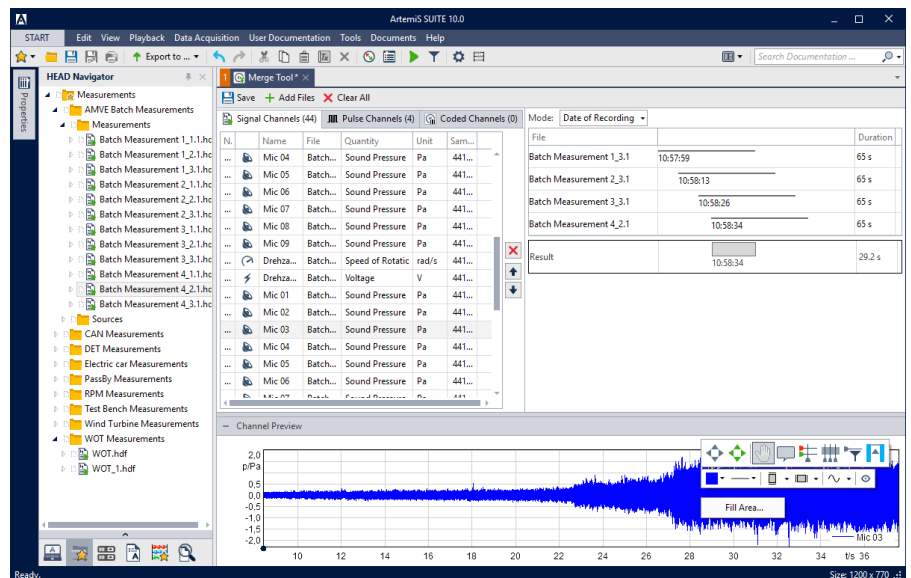
- License file:  
Signal Editor Module  
(Code 5020)

## Requirements

- ArtemiS SUITE Basic Framework  
(Code 5000)



The operating concept of the three tools, here the Channel Sort Tool, allows users to include the HEAD Navigator, the Player, or other applications of the ArtemiS SUITE in the work.



The Merge Tool not only provides a list of loaded channels and a preview diagram, but also a bargraph view to visualize the lengths and positions of the data files and the corresponding information about the resulting file.