ArtemiS SUITE
PRoject

Code 50200

APR 200
HDF Tools

The HDF Tools of ArtemiS SUITE provide the processes Channel Sort Tool, Concatenation Tool, and Merge Tool for the HDF data preparation.
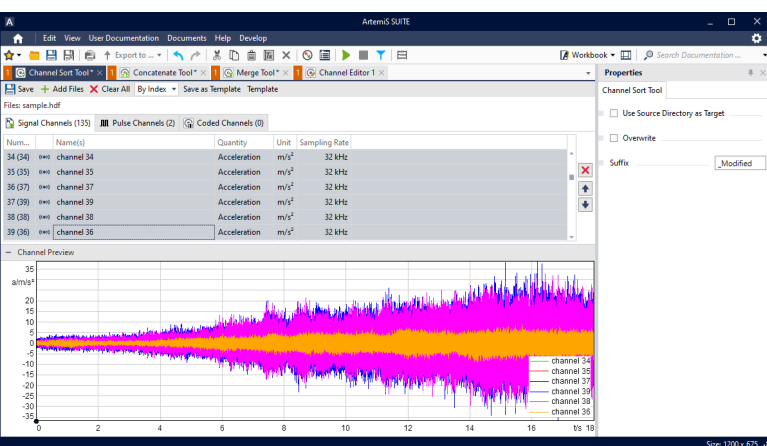
OVERVIEW

APR 200
HDF Tools

Code 50200

APR 200 provides tools for preparing measurement data. The Channel Sort Tool enables it to rearrange channels or remove them from recordings. With the Concatenate Tool, two or more identically structured files can be linked together. Multiple measurements – for example, recordings of the same event made with different frontends – can be synchronized and saved as a single new file using the Merge Tool.

The user interface is clearly structured with all required controls and diagrams, so that all functions can be controlled directly. This ensures easy and, most of all, quick processing of data files.

The data files to be processed can be selected very easyly via the Channel Editor, the HEAD Navigator, or directly via drag-and-drop from the Navigator into the user interface.

KEY FEATURES

Channel Sort Tool
- › Manual sorting of channels
- › 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
- › Simultaneous processing of multiple files (batch operation)

Concatenate Tool
- › Concatenation of multiple, identically structured data files
- › Overview list with channel information table and diagram with result preview

Merge Tool
- › Synchronization and merging of channels from HDF files into a new file
- › List view for resorting or removing channels
- › Synchronization modes: Date of recording, start of abscissa, start of data

APPLICATIONS

Converting different types of data files into very similar data sets for easy further processing

Merging channels of different data files

Resorting channels of different data files or removing un-needed channels

DETAILS

Channel Sort Tool

Measurement data sets may have different channel sequences, different channel labels, or different channel numbers. In order to simplify later processing and as a preparatory step for working with similar data sets, a corresponding sorting or the removal of unneeded channels by means of the Channel Sort Tool is very useful.

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.

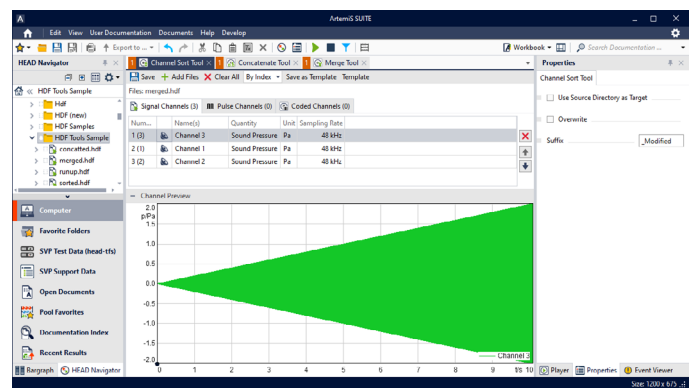
Channel Sort Tool

Concatenate Tool

The Concatenate Tool enables to concatenate two or more identically structured data files and save them as a single file.

This is useful, for example, if after cutting out a disturbing section from a recording with the Mark Editor, the resulting individual HDF files are to be merged into one file.
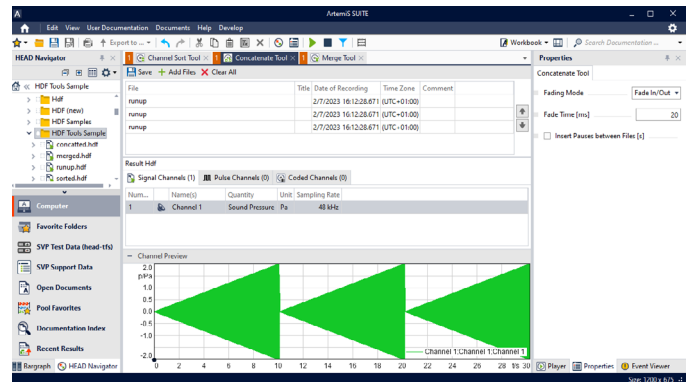
In addition, several recordings can be directly concatenated for listening, instead of having to start them individually.
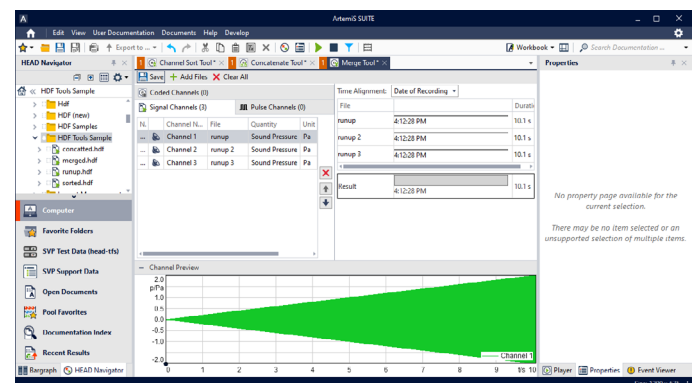

Concatenate Tool

Merge Tool

The Merge Tool enables the merging of the channels of measurement data stored in multiple HDF files. Measurements of one event recorded with multiple frontends can be stored in one single file. The order as well as the number of channels can be defined thereby.
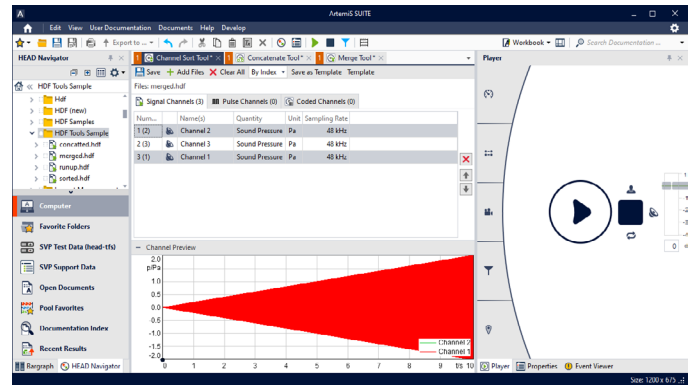

Merge Tool

Operating concept

The user interface of APR 200 provides a clearly structured workspace with all required controls and diagrams at any time, enabling all functions to be controlled directly. This ensures easy and, most of all, quick processing of data files.
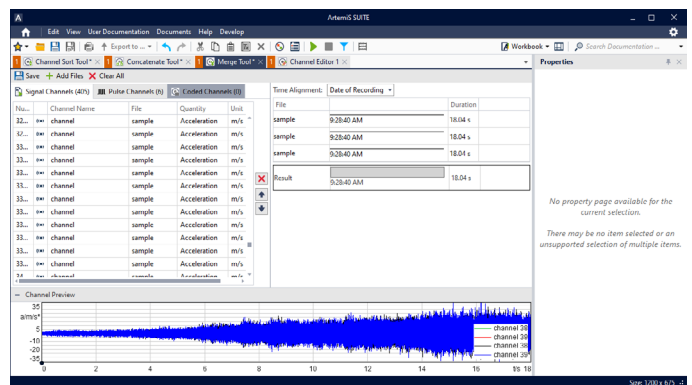
Checking mechanism

APR 200 includes checking mechanisms that automatically checks 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 further processing.

The operating concept, here the Channel Sort Tool, enables users to include the HEAD Navigator, the Player, or other applications of 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.

Required: APR Framework (Code 50000)

and/or: HEAD System Integration and Extension (ASX) programming interfaces

To embed APR 200 tools as sequences directly into Automation Projects (APR 050 is required), Standardized Test Projects (APR 220 is required), or Metric Projects (APR 570 is required) the ASP 302 license (Data Preparation) is required.

HEAD acoustics