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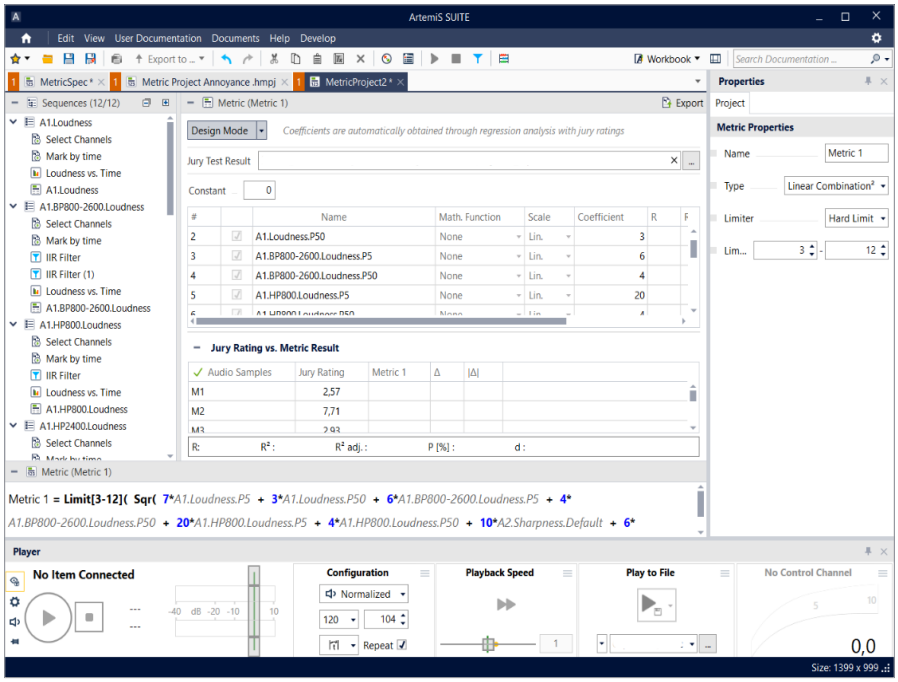
ArtemiS SUITE
ASM 57

DATA SHEET

# ArtemiS SUITE Metric (Code 5057)

Module for developing sound metrics




## Overview

The Metric Project supports experienced users with the modeling of sound metrics consisting of a combination of several weighted single value results.

This allows the manual input as well as a semiautomatic determination of a calculation formula on the basis of which a new single value is generated from several weighted single values.

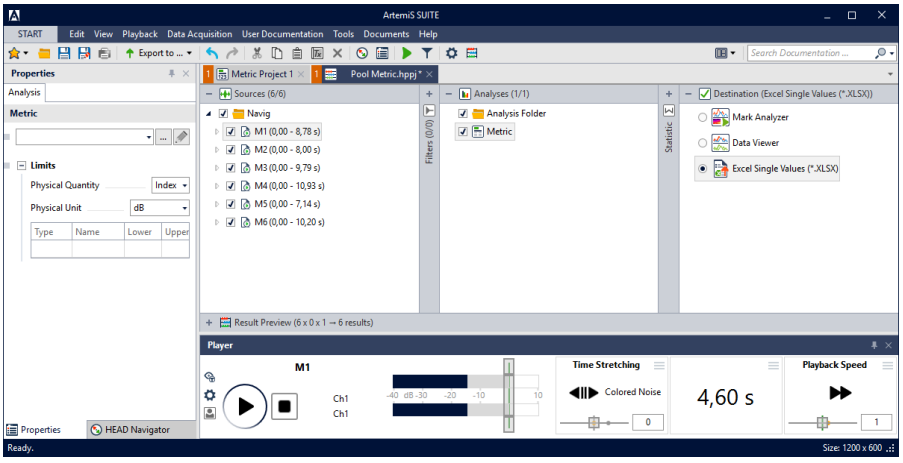
This new value might be, for example, a quality index that results from the combination of several variably relevant fractional values.

In addition, jury test results can be automatically included in the metric design in order to improve the correlation to the human hearing impression and to optimize the metrics.

Sound metrics can be used in Pool, Automation, and Standardized Test Projects in order to determine a quality index directly at a test stand or at the desk.

## Features

- Manual or semi-automatic metric design
- Sequence Editor for compiling custom sequences (processing chains) for determining the single value results
  - A wide range of psychoacoustic and other 2D and 3D analyses, as well as filters, statistics functions, etc. (any required module licenses must be provided)
- Metric design with automated weighting of the individual sequences based on jury test result
  - Tabular comparison between jury test and metric results
- Processing of multichannel (e.g., binaural) audio files to single values
- Tabular entry for rating and compiling the single value results delivered by the sequences
- Export of metric definitions for use in Pool, Automation, and Standardized Test Projects in ArtemiS SUITE
- Jury test ratings from SQala jury test results can be used in a Metric Project




A metric saved as HMSX file can be used in a Pool Project, for example, to calculate the specified metric for each individual channel of all input signals. The results can be exported as single values in an Excel sheet, for example.

# Metric Project

## Sequences

Test sequences are the core of the Metric Project. Each sequence can consist of any number of successive individual processes and provides one or several single value results for the metric.

The manual mode for linking the sequences can be used, for example, to implement a known combination of several partial values into a quality index.

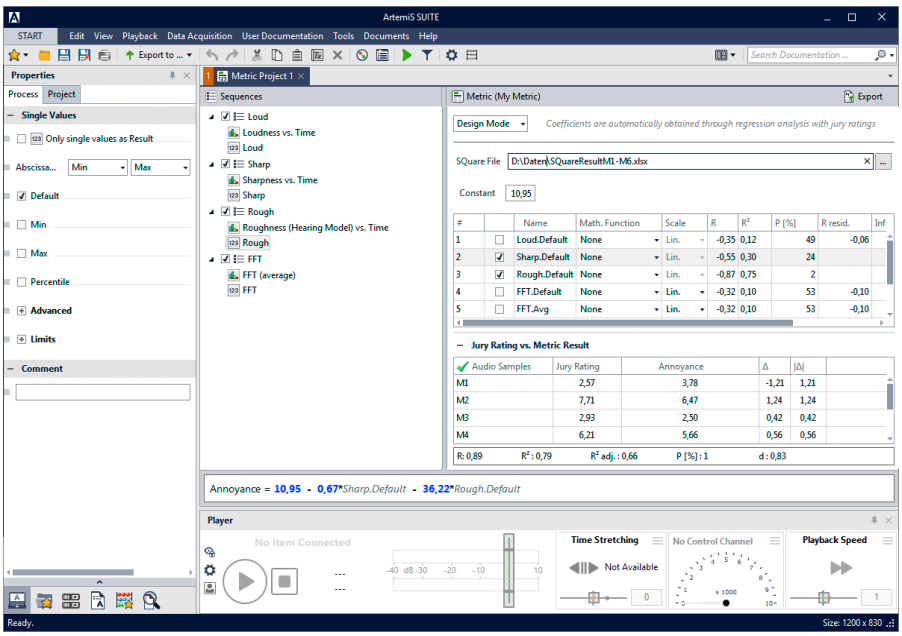
Using the semi-automatic mode, users can have the weighting of their sequences calculated automatically based on jury test results.

The Metric Project is suitable for processing monaural sound samples. In case of multi-channel files, only the first channel is used.

## Export

Users can export their created metrics in order to provide them to co-workers in a company or to suppliers, for example.

Core projects of ArtemiS SUITE, such as Pool, Automation, and Standardized Test Projects, can process the metrics directly and also apply them to large amounts of data.




In semi-automatic design mode, the results of jury tests are accounted for automatically in order to map them on the measured analysis results from the sequence area in the best possible way.

## Requirements

- ArtemiS SUITE Basic Framework (Code 5000)
- ArtemiS SUITE Basic Analysis (Code 5001)

## Recommended

- ArtemiS SUITE Psychoacoustics (Code 5012)
- ArtemiS SUITE Signature Analysis (Code 5013)
- ArtemiS SUITE Octave Analysis (Code 5014)
- ArtemiS SUITE System Analysis (Code 5015)
- ArtemiS SUITE Advanced Psychoacoustics (Code 5016)
- ArtemiS SUITE Advanced Analysis (Code 5017)
- ArtemiS SUITE Jury Testing Module SQala Basic (Code 5050)