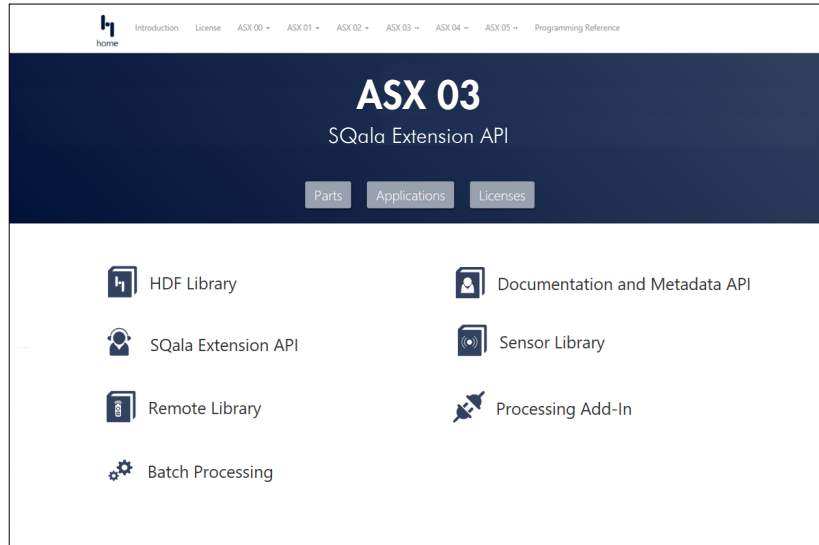


ASX 03 (Code 5093)

SQala Extension API

Interface for programming user-specific test steps for the jury testing software SQala



Features

Programming interface for individual extension of the jury testing software SQala

Applications

- Developing (C #) and seamlessly integrating user-specific jury-testing steps
- Examples:
 - Adaptive Paired Comparison tests, Category Judgments with reference or Paired Comparison tests with Category Judgments
 - MUSHRA tests (MUltiple Stimuli with Hidden Reference and Anchor)
- Integrating the ArtemiS SUITE player, in order to get direct access to the acoustically correct playback of HDF files

Currently, the extension steps created with ASX 03 are supported in SQala for execution in local mode only.

Documentation / Programming examples (ASX 00)

- Extensive programming documentation with preconfigured examples
 - UI elements, such as play button, rating control, attributes
 - Navigation elements
 - Test environments

Programming / Requirements

- C# (Visual Studio Community/ Professional/Enterprise)
- .NET Framework
- Windows Presentation Framework (WPF)
- XAML

Future-proof

ASX will be extended with more interfaces from HEAD acoustics in future releases.

The interfaces are based on state-of-the-art technologies and offer reliability, investment protection, compatibility, and stability for all users - also in future versions.

Overview

The programming interface SQala Extension API is used to extend the jury testing software SQala.

The programming interface allows users to develop new test steps, to integrate them into SQala, and to execute them in local mode.

For programming (C#), the programming examples provided in the User Documentation (ASX 00) are available. This also includes preconfigured examples of sound buttons or attribute controls that can be integrated directly into SQala.

By means of the API export, the new elements and methods are seamlessly integrated into the SQala interface and correspond visually to the steps and methods of the SQala standard product.

Scope of Supply

- License file
ASX 03 (Code 5093)
SQala Extension API

Requirements and recommendations

- ASX 03
 - Required
ASX 00 (Code 5090)
System Integration and Extension Guidelines
With ASX 00, users are provided with comprehensive documentation including a number of practical application examples and programming references for all ASX interfaces.
The documentation is enhanced with programming examples that clearly explain how the interfaces can be used.
 - Requirements for executing the extensions in SQala
 - ASM 00 (Code 5000)
ArtemiS SUITE Basic Framework
 - ASM 50 (Code 5050)
SQala Basic Module
Creating and executing jury tests in local mode

System Requirements

- Windows 10 x64 (Pro, Enterprise, Education; version: 1809 or later; languages: US/Western European)
- .NET Framework 4.8
(in order to use the libraries)
- HASP Dongle driver
(in order to use the libraries)
- Internet Explorer 11

The installation of user-created extensions requires write permission on „Program Files / ArtemiS SUITE / Extensions“

Example

• Category Judgment with reference

ASX 00 provides programming examples in C#, allowing users to design their own jury test steps. The example „Category Judgment with reference“ is already preconfigured and can be used in SQala without modifications.

The screenshot shows the SQala development environment. On the left is a navigation menu with sections like 'Integration Point', 'Usage', and 'Examples'. The main content area displays the 'Category Rating Reference Step View' example. It includes a description: 'The user interface of the example is rather simple, containing 2 sound buttons and an attribute control.' Below this are two code snippets: 'Sound Buttons' and 'Full Code'. The 'Sound Buttons' snippet shows XAML code for two buttons, one for 'Reference' and one for 'Sound', both bound to 'CurrentSound' and 'ReferenceSound' properties. The 'Full Code' snippet shows the XAML for the 'AttributeControl' and the 'UserControl' that integrates the example into the SQala environment.

Programmed with ASX 00, the example „Category Judgment with reference“ is visually seamlessly integrated into SQala, too.

The screenshot shows the SQala user interface. At the top, there's a header with the SQala logo and navigation icons. Below the header, there are two large play buttons labeled 'Reference' and 'Sound'. Below these buttons is a 'Loudness' slider. At the bottom, there are seven buttons representing different sound levels: 'inaudible', 'very soft', 'soft', 'medium', 'loud', 'very loud', and 'too loud'. A page number '1' and a right arrow are visible at the bottom center, and a green circular icon is at the bottom right.