

ASAP2 Toolkit – ASAP2 Editor & Tools



The Visu-IT! **ASAP2Toolkit** is a standalone application to create, import, merge and update "ASAM MCD 2MC" description files (*.a2l).

The ASAP2Toolkit contains an ease to use **ASAP2 Editor** for defining and managing calibration and measurement items to be used in embedded controllers as well as attributes and settings required for configuring calibration systems.

Key Features

The ASAP2Toolkit

- contains an easy to use and intuitive ASAP2 editor
- provides functionality to import, maintain and export ASAP2 files
- manages both ASAP2 calibration and measurement objects as well as ASAP2 definitions required for configuring calibration systems
- provides an automatic address update
- enables the user to use standard development process files "*.i3e" (IEEE-695) and "*.elf" (ELF-DWARF) to generate an a2l description file automatically (-> import labels from e.g. ELF-DEBUG files)
- provides a2l output files, which are compliant to measurement and application systems like INCA

Use Cases

The ASAP2Toolkit supports the following main use cases:

- Import ELF/I3E File & generate A2L file
- Read A2L file & generate A2L file
- Edit data in "ASAP2Editor" & generate A2L file

Note: Of course, the UseCases can be combined and mixed according to customer needs

Compatibility

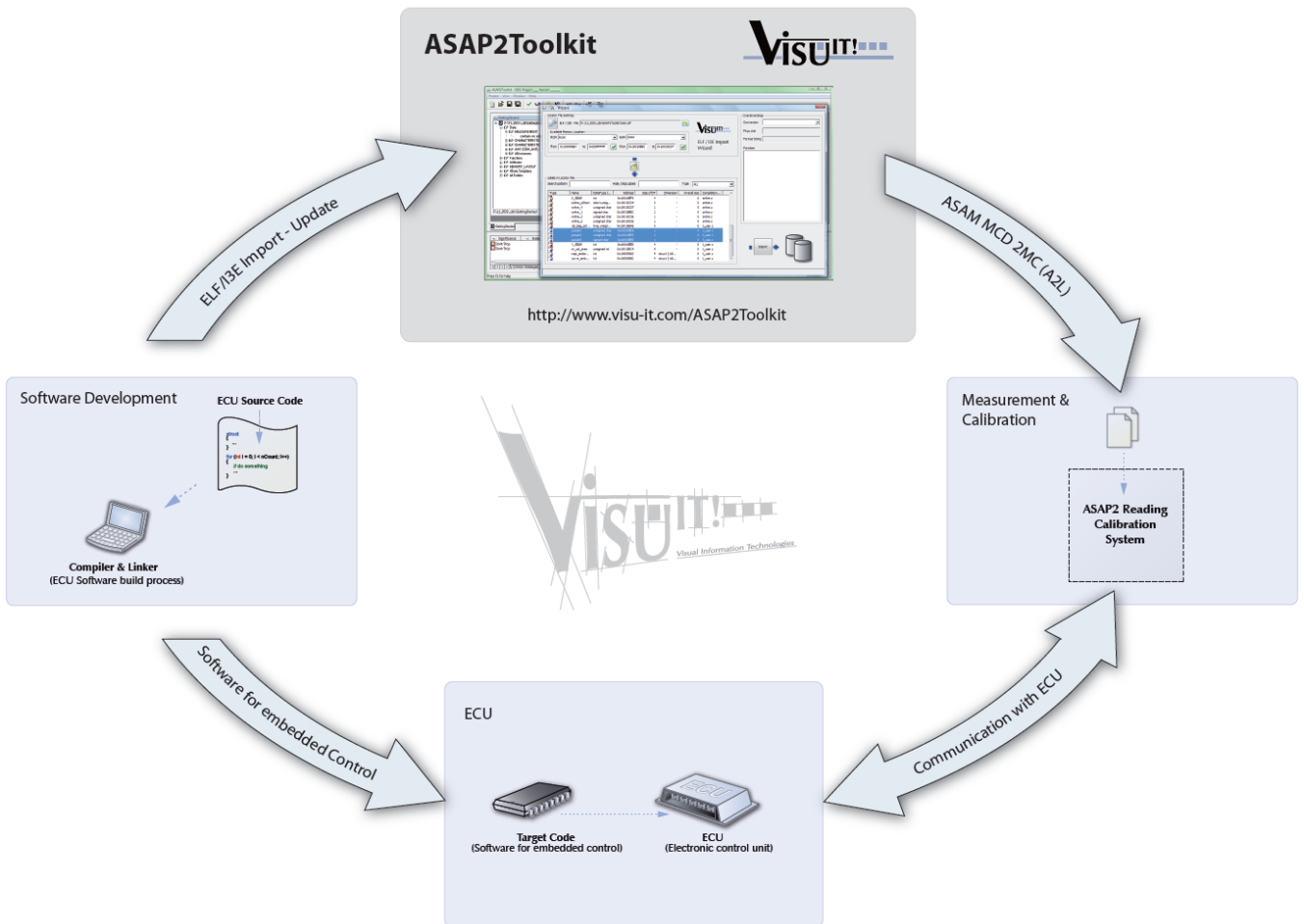
The ASAP2Toolkit processes and generates ASAP2 files which are compliant with the standard ASAM MCD 2MC V1.x.

The ASAM MCD 2MC description files contain information like:

- Measurements and calibration variables (parameters, curves, maps)
- Physical addresses, conversion formula, data types, etc...
- ECU interface description (XCP on CAN or ETK)
- Calibration methods (SERAM, SERAP)
- Record layouts
- etc.

Workflow

The ASAP2Toolkit helps to establish a link between the Software Development and the Measurement & Calibration. ECU variables from the source code can be transferred into ASAM MCD 2MC files used from measurement and calibration systems like INCA.



Link between SW-Development and Measurement & Calibration

Interfaces

- ASAM-MCD-2MC export: versions 1.7, 1.6, 1.5.1, 1.4.1, 1.3.1, 1.2.1
- ASAM-MCD-2MC import: versions 1.7, 1.6, 1.5.1, 1.4.1, 1.3.1 and 1.2.1
- ELF/DWARF import: DIAB DATA (Motorola MPC555 series), Hitachi (SH7055), Tasking TriCoreVX, etc.
- IEEE-695 import: Tasking C166, Tasking TriCore, etc.
- COFF import: MPLAB C18

Terminology

ASAM MCD 2MC	Official name of the standardized description exchange file
ASAP2	Common naming of the "ASAM MCD 2MC" standard
A2L	File suffix of "ASAM MCD 2MC" description file (*.a2l). It is also a common naming for "ASAP2"

System Requirements

Operating System	Windows 10/11, Microsoft Visual C++ Redistributable 2022, .NET Framework V4.8.0
Hard disk	100 MB (minimum) of free hard disk space, depending on database size
Display resolution	1024x768, 256 colors, 17 inch

Contact

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