

3DEXPERIENCE®

# AUTOSAR Builder™

Welcome to AUTOSAR Builder 2023x

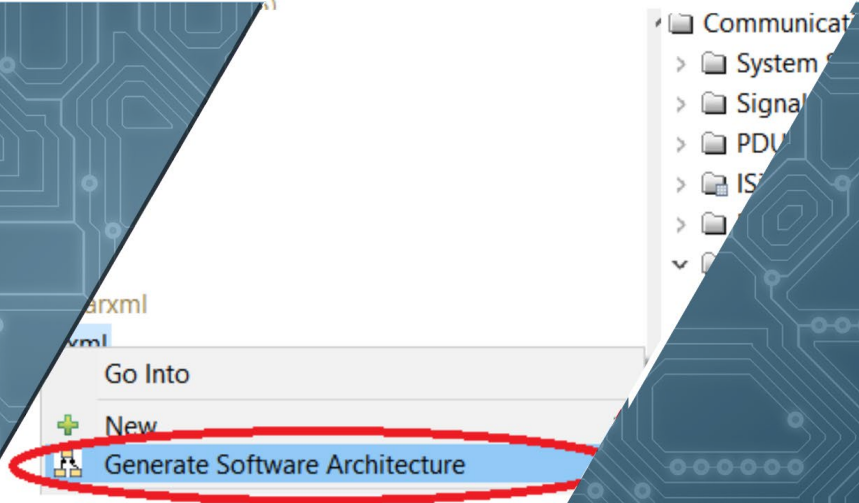
## Performance

New export option in Pack to Single File feature

	Type	File
SAR_PlatformT	ARPackage	PlatformTypes.arxml
SAR_Standard	ARPackage	StandardTypes.arxml
CompuMethods	ARPackage	StandardTypes.arxml
Std_ReturnType	CompuMeth...	StandardTypes.arxml
ImplementationD	ARPackage	StandardTypes.arxml
Std_ReturnType	Implementa...	StandardTypes.arxml
Std_VersionInfo	Implementa...	StandardTypes.arxml
Compo_ARPkg	ARPackage	Compo_ARPkg.arxml
LightingSystem	Compositio...	Compo_ARPkg.arxml
Constant_ARPkg	ARPackage	Compo_ARPkg.arxml
EcuM	ARPackage	Compo_ARPkg.arxml
...	ARPackage	Compo_ARPkg.arxml

## Innovation

Generate Software elements from Network Description



## State-of-the-art

Supports the latest AUTOSAR Meta-Model 21-11 and ARA Gen 21-11-1

### AUTOSAR Release

Enable project specific settings

#### AUTOSAR Release Options

AUTOSAR release (used for in-memory AUTOSAR)

AUTOSAR XML file minor release/revision (used for file)

- Same as in original file if appropriate modification is made
- Other (file minor release/revision will be incremented)

AUTOSAR 00050

#### Description:

This converter enables AUTOSAR metamodel implementation

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# General Presentation

AUTOSAR Builder is a complete ©AUTOSAR toolchain, starting from authoring to ECU configuration via ECU extract, RTE generation, simulation, and more features. It is a comprehensive tool for system and ECU design. It also enables you to import Model Based Design legacy descriptions and generate AUTOSAR compliant C code, ready to be embedded in target ECUs.

The AUTOSAR Builder tool suite includes:

- **Authoring Environment** – The AUTOSAR Authoring Tool for software modeling and network design
- **ECU Extractor**
- **ECU Environment** – The Generic ECU Configuration Editor for ECU configuration and BSW code generation
- **Rte Generator**
- **ASim** - AUTOSAR Simulation, covering the VFB level, and soon the ECU and Network levels
- **Adaptive Environment** – The AUTOSAR Adaptive environment for adaptive design

AUTOSAR Builder is based on Eclipse and uses ©Artop. Artop is an open AUTOSAR tool environment that is available for free. It enables you to build your own tools and integrate from other tool vendors.

For more details, see the AUTOSAR Builder Overview document.

## 1. System Requirements

AUTOSAR Builder is supported on Microsoft Windows 10, 8, 7, VISTA, XP (64 bit platforms).

The minimum memory required is:

- Approximately 600MByte hard-disk space
- 4 GB RAM\*

(\*)When working with large models in AUTOSAR Builder, it is recommended that at least 8GB of physical memory is allocated to enhance the performance.

## 2. Installation and Licensing

For more information related to the licensing of AUTOSAR Builder, see AB\_Installation\_Procedure.pdf.

# New Features and Enhancements

## 1. Versions and AUTOSAR Builder

AUTOSAR Builder is based on:

- Eclipse Neon **4.6.3**
- ARTOP **4.6.1**
- ARA Generators **21-11**
- CDT **9.2.1**



AUTOSAR Builder supports AUTOSAR Release **R21-11**. Adaptive code generators are updated to support AUTOSAR Adaptive **R21-11**.

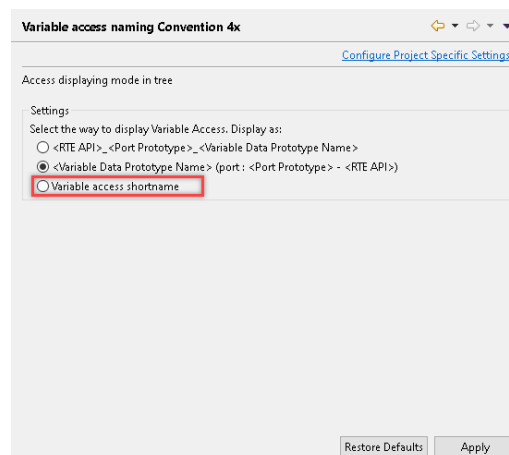
This release note summarizes updated features and new functionalities offered by AUTOSAR Builder 2023x.

Important: AUTOSAR Builder 2023X has been updated to get rid of log4j 1.x vulnerability issue. Older versions are also fixed. Please contact your support about how to get an access to the fixed versions.

## 2. AUTOSAR Builder Fundamentals

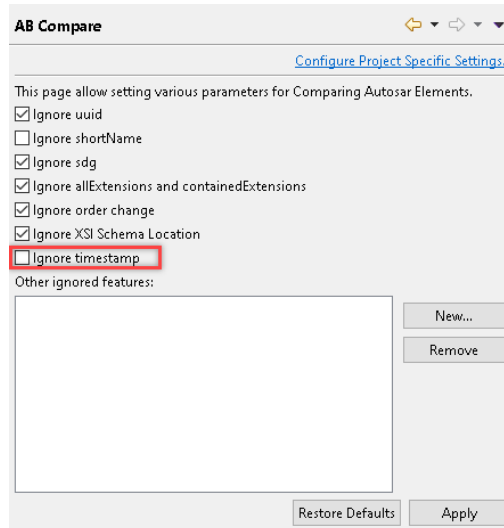
### 2.1. Variable access naming Convention 4x:

You can now select how the name of variable is displayed in tree and in few other places in the user interface. A new preference option **Variable access shortname**, lets you change the naming convention to variable short name.



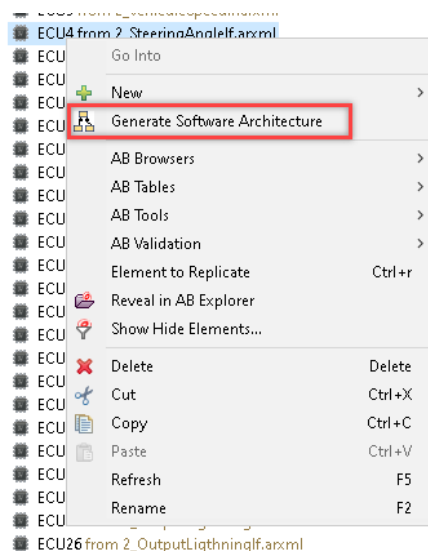
### 2.2. Ignoring Timestamps:

You can now choose to ignore timestamps of the AUTOSAR elements being compared. A new Ignore timestamp checkbox under AB Compare preferences lets you ignore the timestamps of the AUTOSAR elements at the time of their comparison.



### 2.3. Generate Software Architecture from an ECU Instance :

You can now generate a software architecture from an ECU instance. This capability is will be mainly helpful after importing dbc or other equivalent files.



### 2.4. Validation Rules- Constraints:

The support for 21-11 MM (ARTOP 50), has also added some AB rules corresponding to new AUTOSAR constraints.

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