

# Eclipse Automotive Working Group

**Activities and Requirements @ Geensys** 



### About...

### Geensys

- Global Embedded Electronics & Networked SYstem Solutions
- Embedded system engineering and IP
- Embedded system engineering tools
- Consulting services

#### Gerhard Steininger

Lead of Geensys' AUTOSAR business

### Or. Stephan Eberle

- Lead of Geensys' AUTOSAR tool platform development
- Committer on Eclipse EMF project (Teneo component)



### **Outline**

- Why are we here?
- Eclipse comonents required by Artop
- Eclipse components required by EDONA



### **Artop Architecture**

Commercial License

**AUTOSAR Tool Chain** 

#### Off-the-Shelf AUTOSAR Tools

(provided by tool vendors)

**Authoring Tool** 

Configuration Tool

Validation Tool

ECU Extract
Tool

Custom AUTOSAR Tools, e.g.

(built by tool users or service partners)

Legacy to AUTOSAR converters Bridges to Model-based Design Tools

Custom validation constraints

Custom RTE and target code generators

**Artop** 

Artop Software Licenses

User's IP

**Eclipse RCP/Plug-in SDK** 

Eclipse Public License



### **Artop Components**

Provided Artop Components

Artop

AUTOSAR
Meta Models
& XML
Serialization

**Validation** 

Workspace management

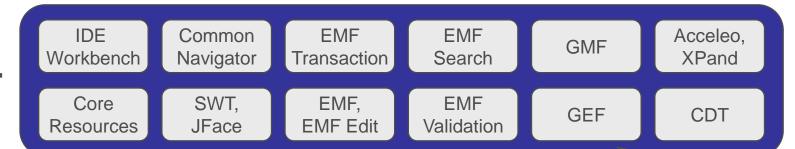
Plug-let & Scripting Environment (PSE) Explorer & Editors

- Basic form editor
- Basic explorer view
- Properties view integration

Common AUTOSAR facilities

- Search & replace
- Compare & merge
- Target code generation
- Command Line Interface

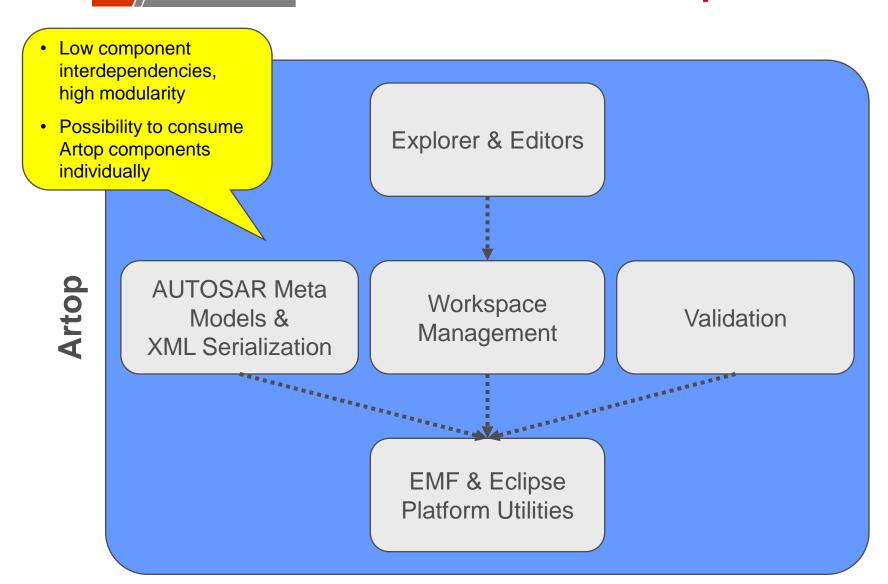
Eclipse



Consumed Eclipse Components

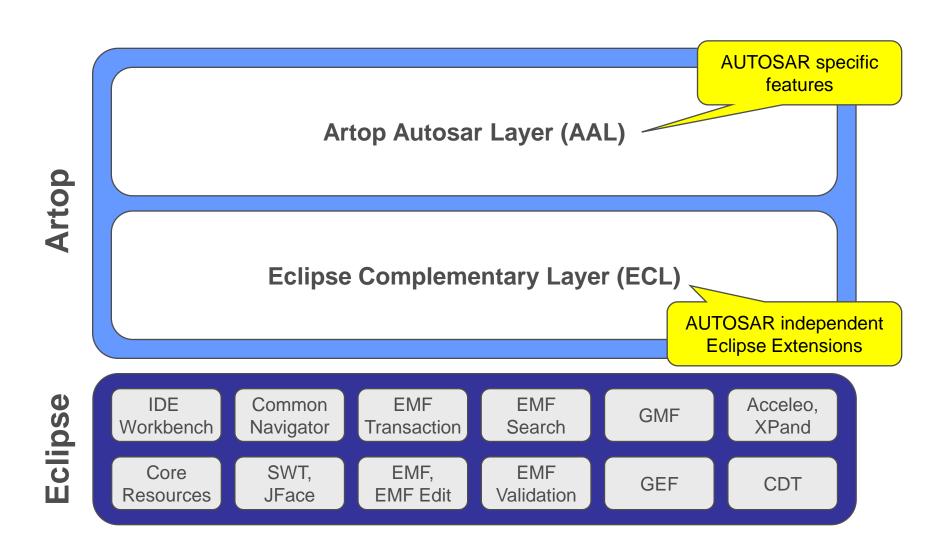


### Artop 1.1.0 Components & Dependencies



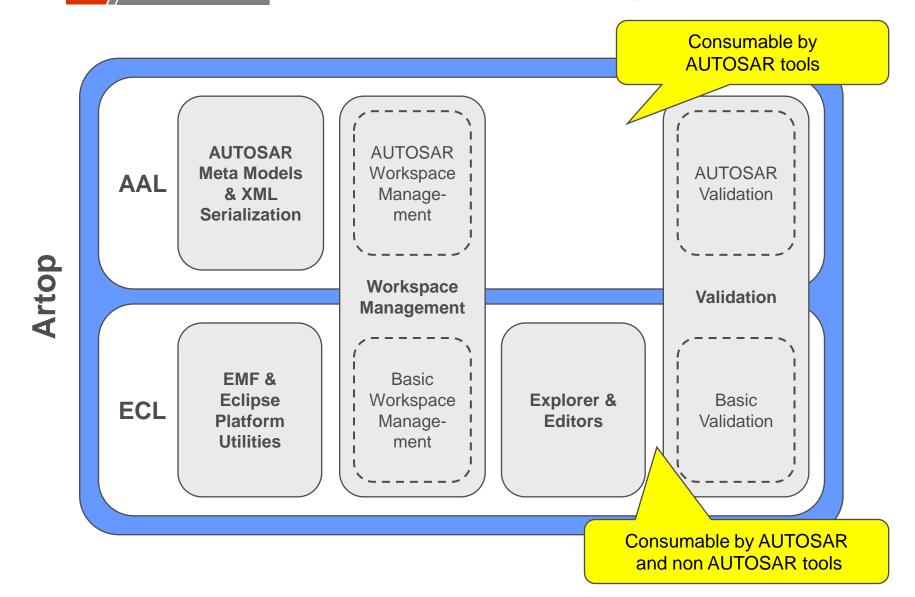


### **Artop Layers**



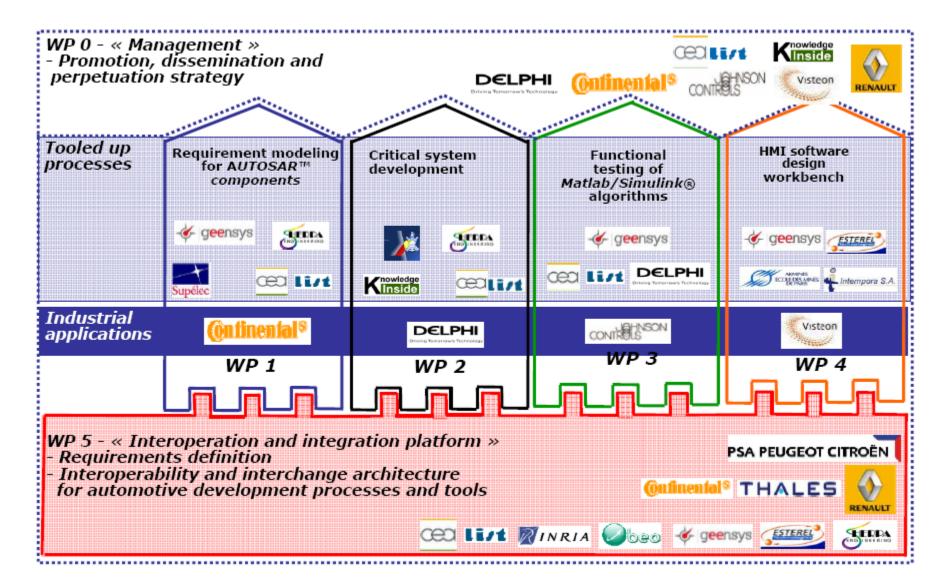


## Artop 1.1.0 Components & Layer Allocation





### **EDONA Architecture**





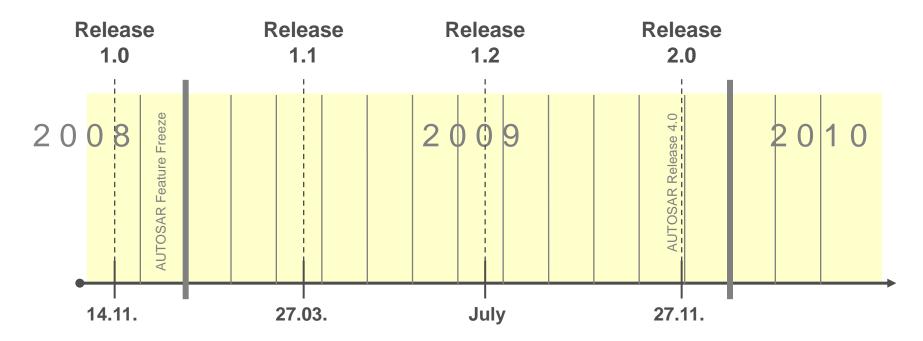
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### **Artop Roadmap**

- 4 month release cycles
- Migh level release planning until end of 2009 has been published along with Artop 1.0
- Detailed iteration plans for next upcoming release is defined at the beginning of each release cycle





### **Eclipse Componts Required by**Artop

#### Artop 1.1 Target Platform

- Eclipse SDK 3.4.1 → 3.4.2 (Ganymede)
- EMF Query SDK 1.2.0 → 1.2.1?
- EMF SDO XSD SDK 2.4.1 → 2.4.2
- EMF Transaction SDK 1.2.2 → 1.2.3?
- EMF Validation SDK 1.2.1 → 1.2.2?
- GEF SDK 3.4.1 → 3.4.2?
- GMF SDK 2.1.2 

  → 2.1.3?
- MDT OCL SDK 1.2.2 → 1.2.2?
- MDT UML2 SDK 2.2.1 → 2.2.1?
- Orbit R20080807152315
  - org.apache.commons.lang 2.3.0
  - org.jdom 1.0.0



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- © Eclipse components required by EDONA



### **Eclipse Componts Required by EDONA**

### © Current EDONA Target Platform

- Artop Target Platform (see above)
- Artop 1.0.0 **→** Artop 1.1.0
- Additional Eclipse Components:
  - Acceleo 2.4.0 SDK
  - Antlr 4.1.1
  - M2M ATL SDK 2.0.1
  - M2T MTL SDK 0.7.0RC1
  - Papyrus 1.11.0
    - Papyrus EADL 1.9.7.1
    - Papyrus SYSML 1.1.5