

Eclipse SDV

2nd Contribution Day

Edgar Hindemith
PU Digital Solutions

2022 Sep 22nd

T Systems Let's power
higher performance



Eclipse Ambient Light Services

- Realizes a new interactive lighting concept
- Developed as an AUTOSAR SW component and can be easily ported to different vehicle platforms
- The software calculates the current vehicle status based on input signals
- It provides output signals which contains color, brightness and motion commands
- The software uses a *dataset* which contains different animation scenarios



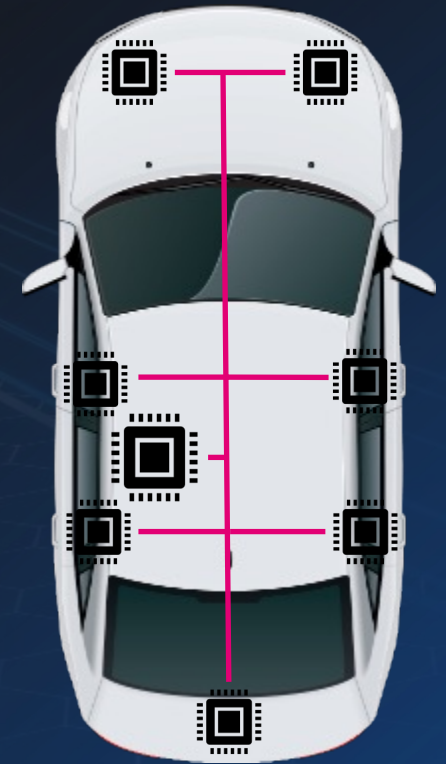
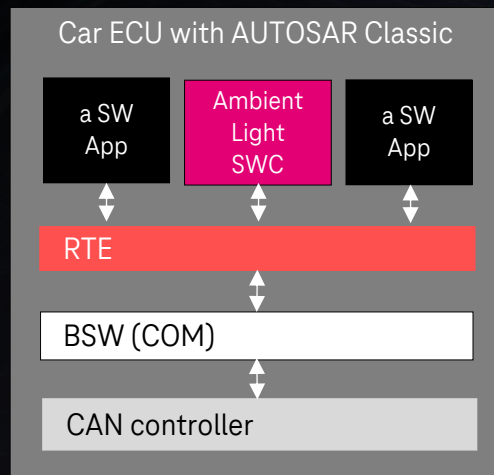
Eclipse Ambient Light Services

- Replaying of predefined animation scenarios
 - „Leaving Home“
 - „Coming Home“
 - „Antitheft-Warning“
- Creation, editing and generating custom animations
- “EasyDataset” editor for simple creation of light animation scenarios

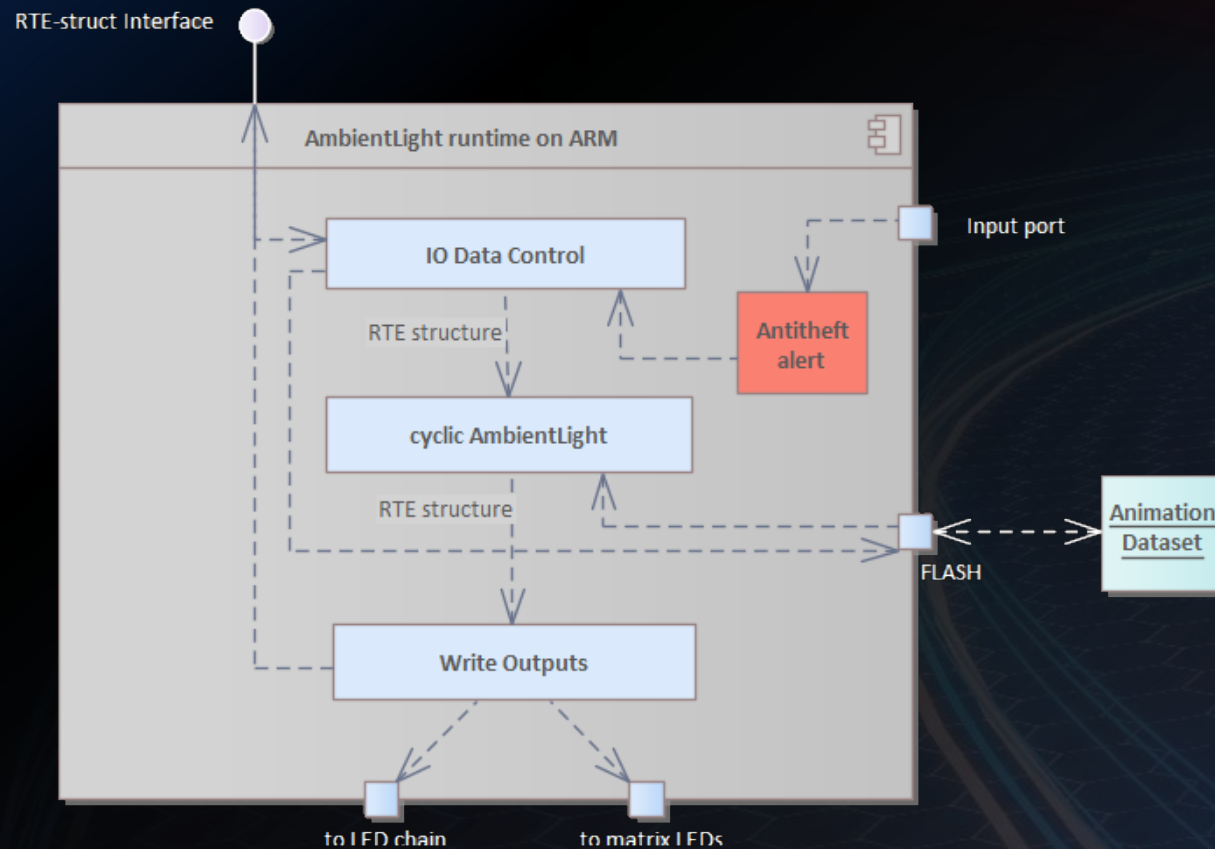


Eclipse Ambient Light Services on AUTOSAR

- The software receives input data and sends output data through AUTOSAR RTE.
- AUTOSAR communication stack maps the RTE signals to corresponding CAN signals and transfers them over CAN buses.
- The CAN messages with the signals are transmitted to/from other car systems through CAN buses.

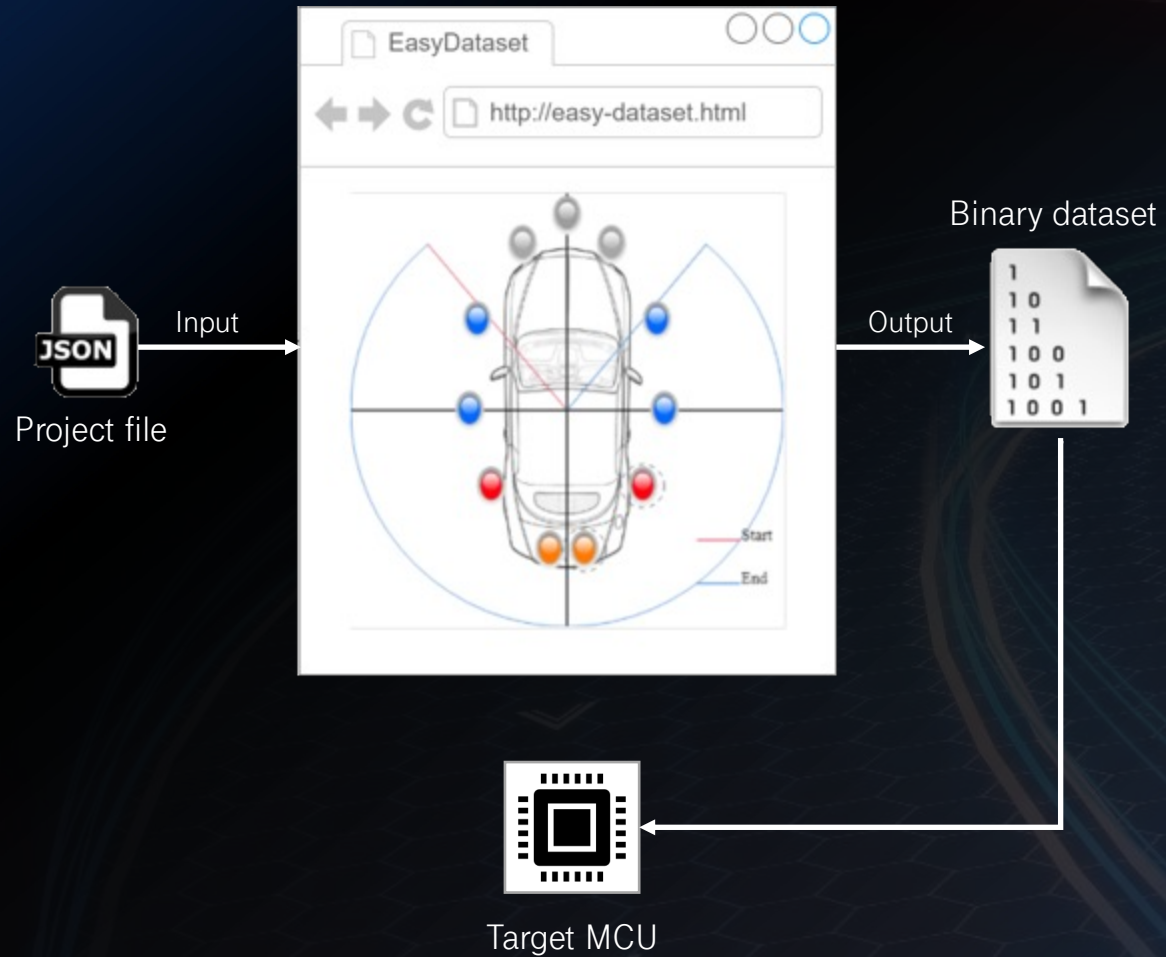


Platform independent implementation



- The project contains an additional wrapper:
 - Translating RTE interfaces into a C-struct.
 - Runtime is independent of AUTOSAR
 - No proprietary ARXML
 - RTE-signals are read/write operations

“EasyDataset”: Easy-to-use dataset editor



- The editor is used for the creation of animation scenarios.
- This is a WEB-page-based tool and can be opened in a browser.

