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.