



# Technical Issues

## 1. Incompatibility of Existing EDRs

The conventional EDR specifications cannot accommodate the newly required recording conditions and data items, making a redesign of the EDR necessary.

## 2. Complexity of Integration with the ACU (Airbag Control Unit)

EDRs are typically integrated within the ACU. Therefore, both the performance of the ACU and the EDR must be improved simultaneously, which increases the difficulty of design and development.

## 3. Difficulty in Extending Power Hold Time

Especially in existing vehicles, supporting the recording items proposed by each CP requires a significant increase in the capacity of power-hold capacitors, making implementation difficult.

## 4. Increased Memory and Processing Load Due to Higher Recording Frequency

The addition of recording items and the shortening of recording intervals demand enhanced memory capacity and processing power, requiring updates to both the hardware and software of the EDR.

## 5. Impact on the Overall Vehicle Architecture

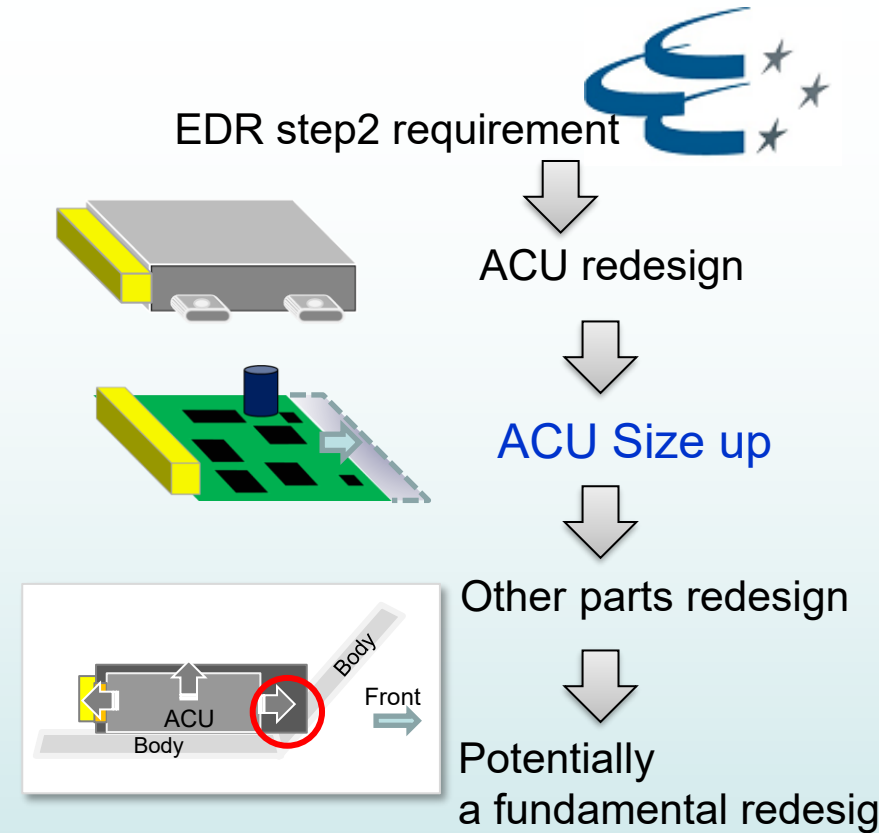
Changes to EDR specifications can affect the entire electrical and electronic architecture of the vehicle, potentially necessitating a fundamental redesign.

## 6. Concerns About Lead Time for Development, Validation, and Certification

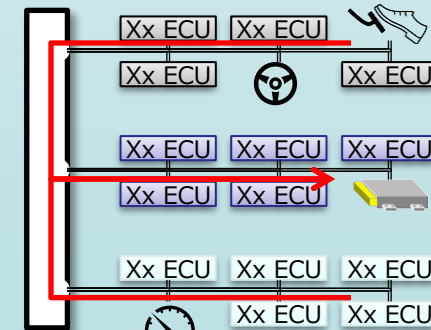
The proposals from each CP have a significant impact on the entire vehicle, requiring sufficient lead time for development, validation, and certification.

## 7. Compatibility Issues with Existing Vehicles

From the perspectives of power hold time, memory and processing load, and vehicle architecture design, applying the regulatory specifications proposed by each CP to existing vehicles is extremely difficult.



## Electronic architecture redesign





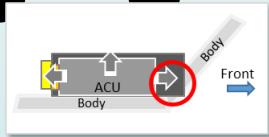
# Lead Time

The OEM will redesign the vehicle and the E&E architecture.  
 The OEM will redesign the requirements specifications.  
 The OEM will re-sign a development contract with the supplier.  
 The supplier will then begin development of the ACU.  
 So, we need additional lead time(0.5 ~1 years) = Total 3.5 ~ 4 years.

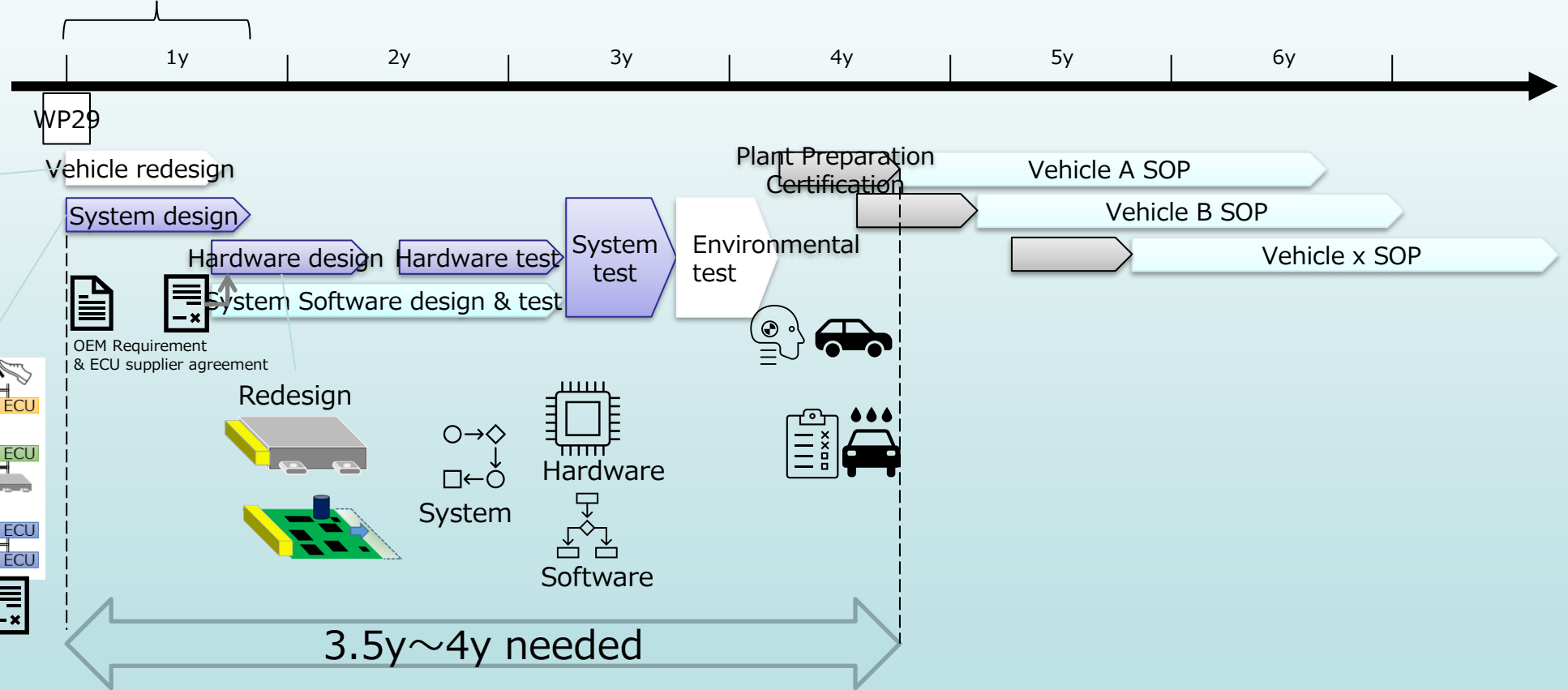
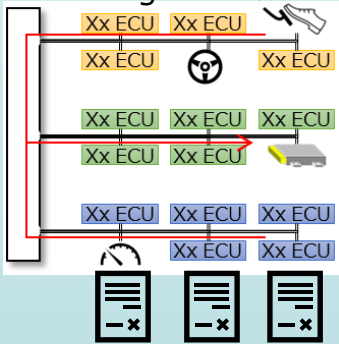


Current schedule	'26.11	'27.11	'28.11	'29.11	'30.11
In case of schedule delay	'27.3	'28.3	'29.3	'30.3	'31.3

Redesign



Redesign



Based on the current schedule, OICA/CLEPA proposes the new vehicle types from 2031