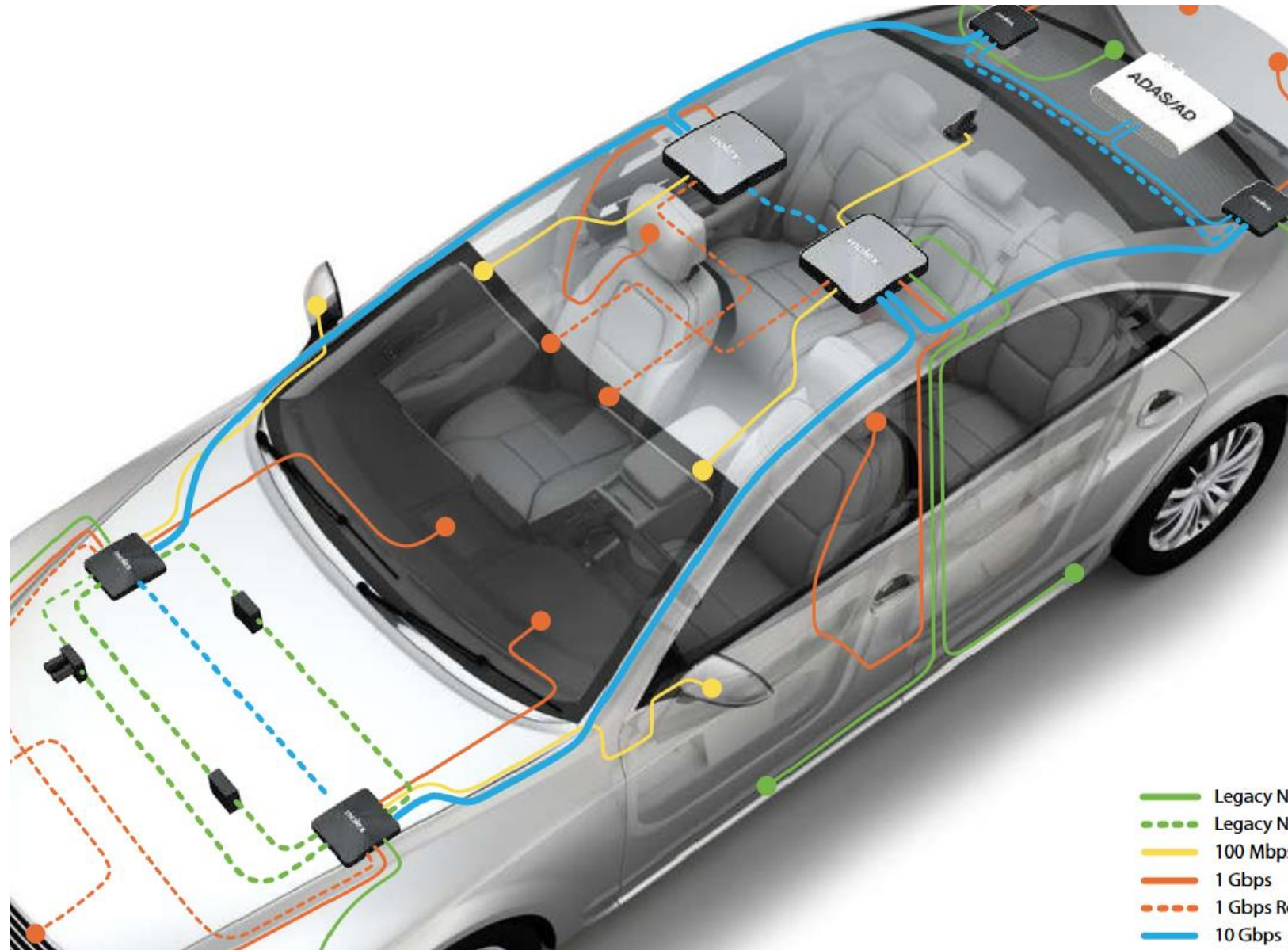
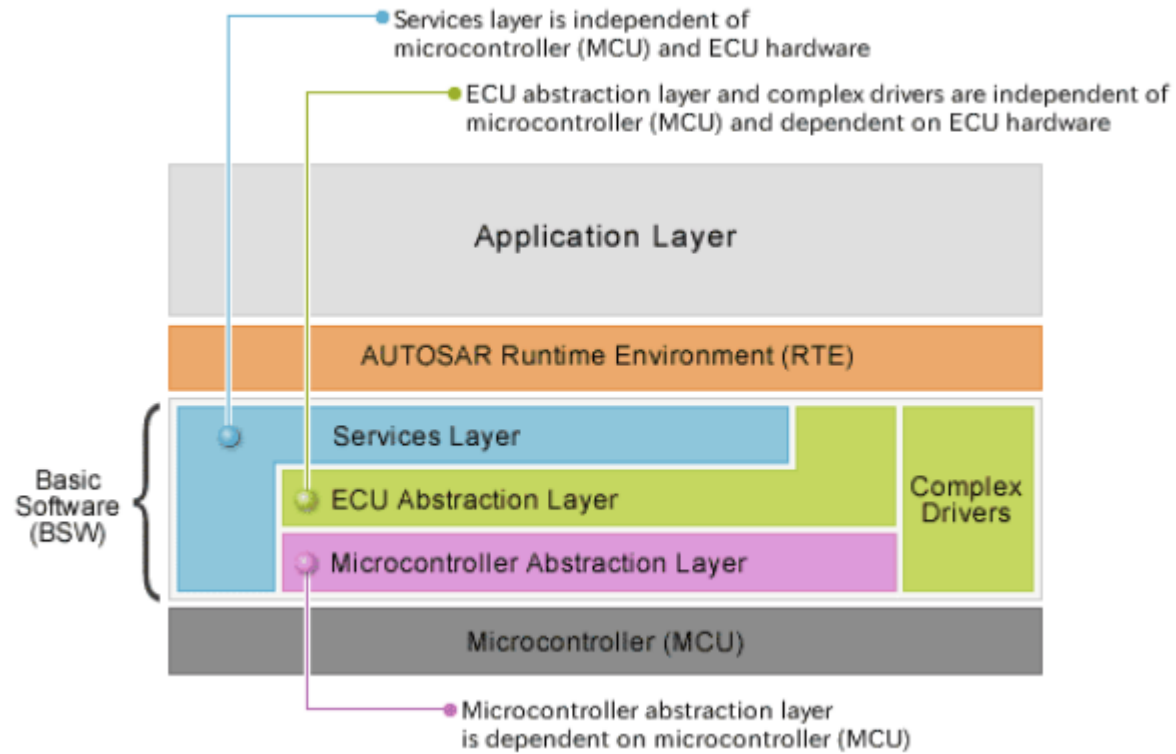


Overview



Overview



<https://www.renesas.com/us/en/application/automotive/common-automotive-technologies/autosar/autosar-layered-architecture>

Overview

AUTOSAR_TPS_ManifestSpecification

https://www.autosar.org/fileadmin/user_upload/standards/adaptive/19-11/AUTOSAR_TPS_ManifestSpecification.pdf

- ▶ 1 Introduction
- ▶ 2 Big Picture of Manifest Definition
- ▶ 3 Application Design
- ▶ 4 Diagnostic Design
- ▶ 5 System Design
- ▶ 6 Sub-System Design
- ▶ 7 Machine Manifest
- ▶ 8 Execution Manifest
- ▶ 9 Platform Module Development
- ▶ 10 Service Instance Manifest
- ▶ 11 Signal-based communication
- ▶ 12 REST
- ▶ 13 Software Distribution
- ▶ A Examples
- ▶ B Custom Model Extension
- ▶ C General Modeling
- ▶ D Mentioned Class Tables
- ▶ E History of Constraints and Specification Items
- ▶ F Splittable Elements in the Scope of this Document
- ▶ G Variation Points in the Scope of this Document
- ▶ H Used classes in Manifest files



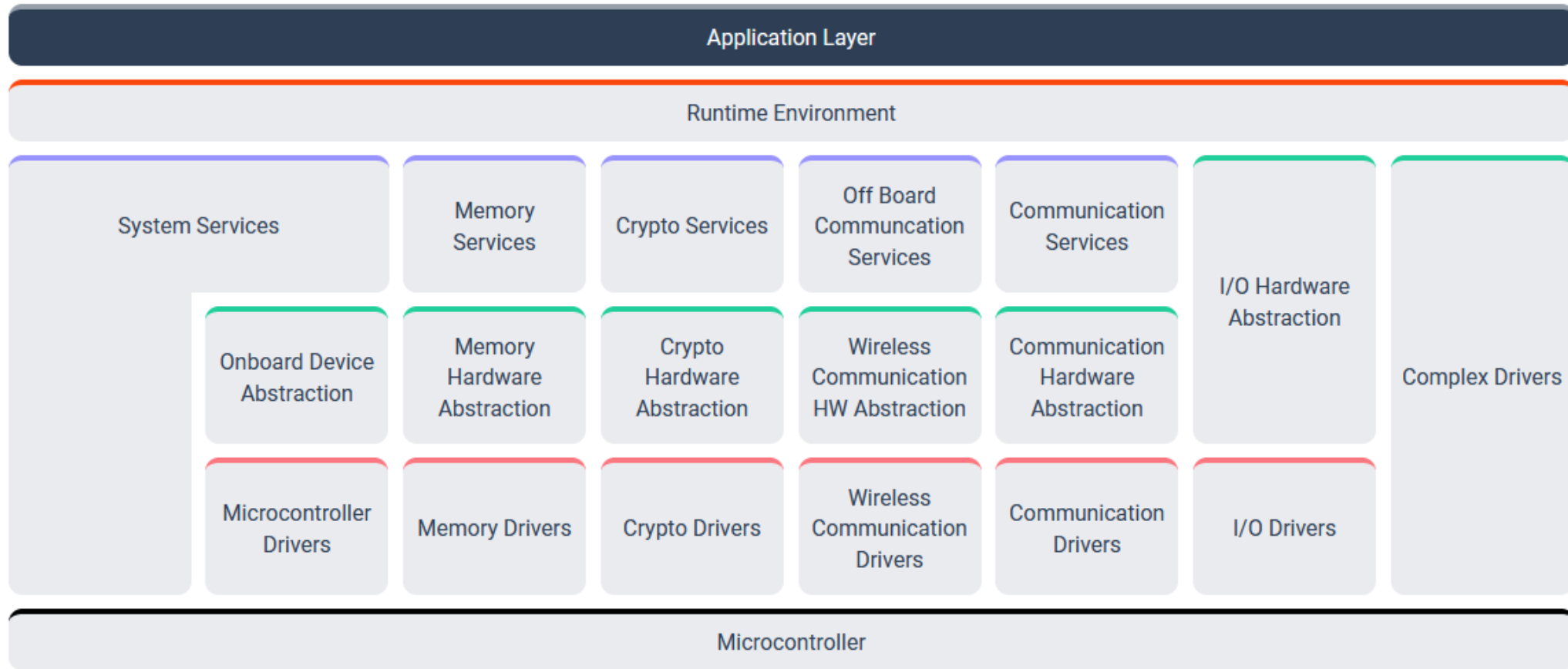
Specification of Manifest
AUTOSAR AP R19-11

Document Title	Specification of Manifest
Document Owner	AUTOSAR
Document Responsibility	AUTOSAR
Document Identification No	713

Document Status	published
Part of AUTOSAR Standard	Adaptive Platform
Part of Standard Release	R19-11

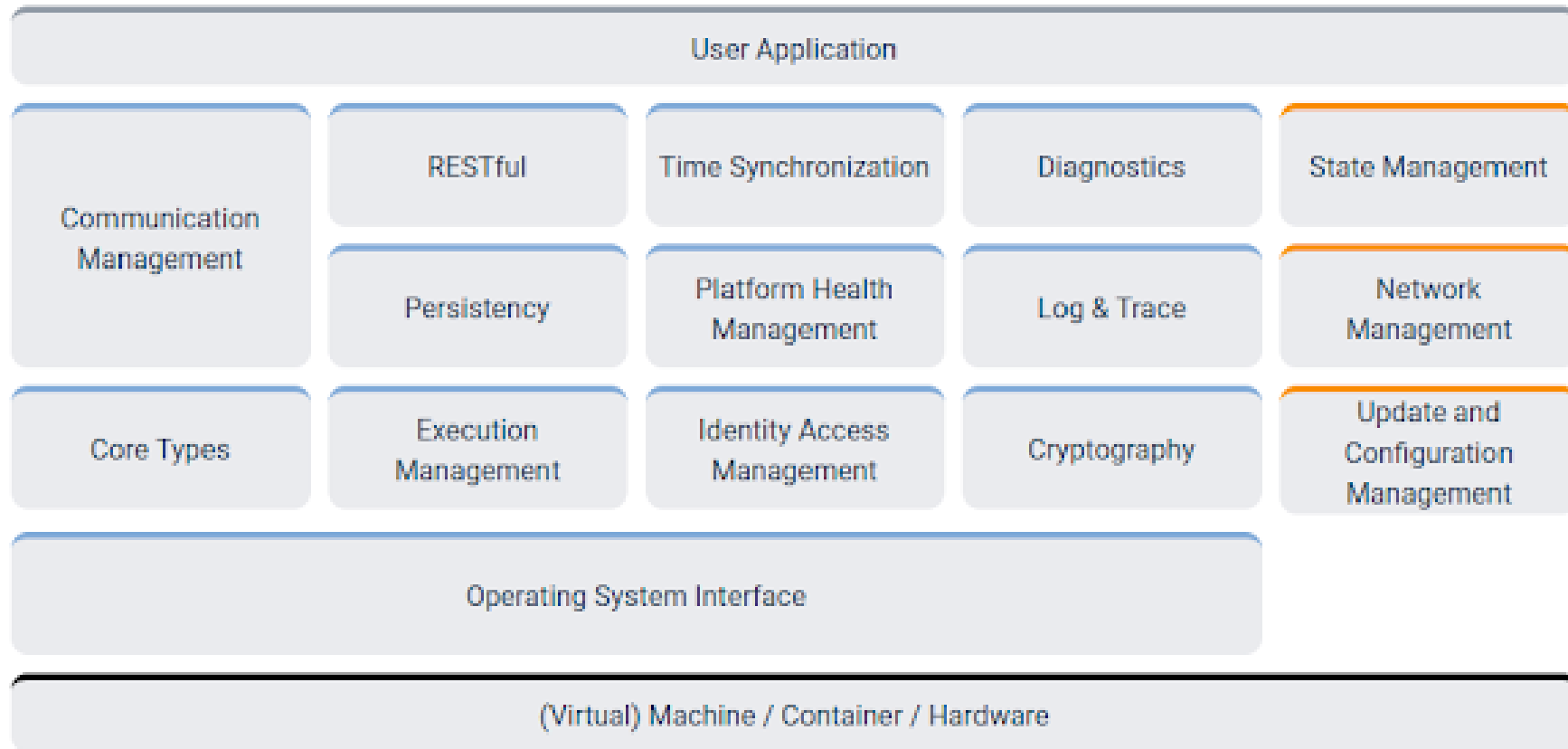
Document Change History			
Date	Release	Changed by	Description
		AUTOSAR	<ul style="list-style-type: none">• Overhaul of Signal-to-Service Translation• Support for Raw Data Streams

1. Classic Platform



<https://www.autosar.org/standards/classic-platform/>

2. Adaptive Platform



<https://www.autosar.org/standards/adaptive-platform/>

3. Basic software

3. Basic software

AUTOSAR XML files

<https://www.ibm.com/docs/en/rhapsody/9.0.1?topic=modeling-importing-exporting-autosar-xml-files>

5. Diagnostic over Internet Protocol (DoIP)

[https://www.autosar.org/fileadmin/user_upload/standards/classic/4-](https://www.autosar.org/fileadmin/user_upload/standards/classic/4-3/AUTOSAR_SWS_DiagnosticEventManager.pdf)

[3/AUTOSAR_SWS_DiagnosticEventManager.pdf](https://www.autosar.org/fileadmin/user_upload/standards/classic/4-3/AUTOSAR_SWS_DiagnosticEventManager.pdf)

<https://distek.com/2019/06/28/autosar-2/>

<https://www.embeddedtutor.com/2019/09/autosar-dem-module.html>

<https://www.embeddedtutor.com/2019/09/autosar-dem-module.html>

https://www.autosar.org/fileadmin/user_upload/standards/classic/4-3/AUTOSAR_SWS_DiagnosticOverIP.pdf

5. Diagnostic over Internet Protocol (DoIP)

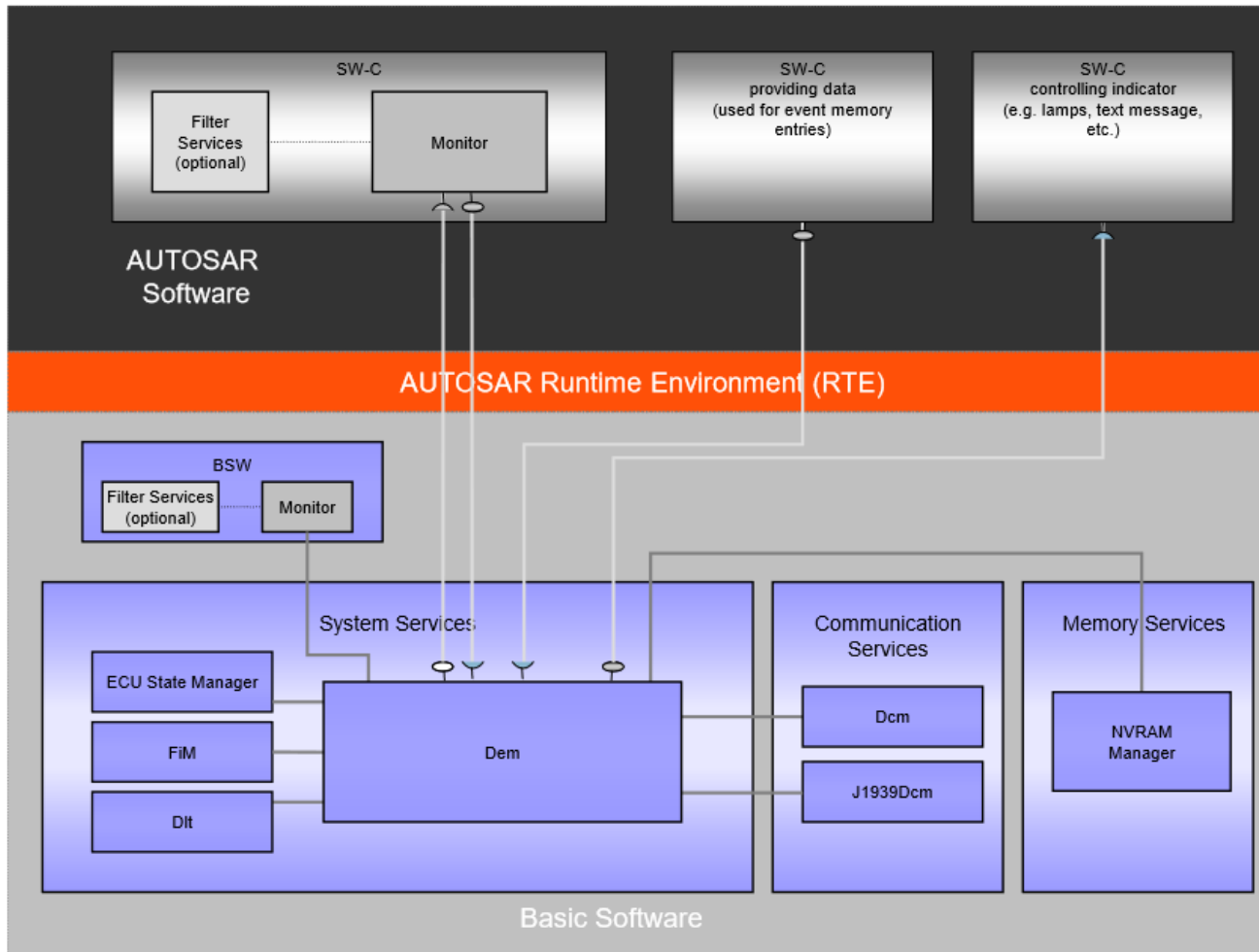
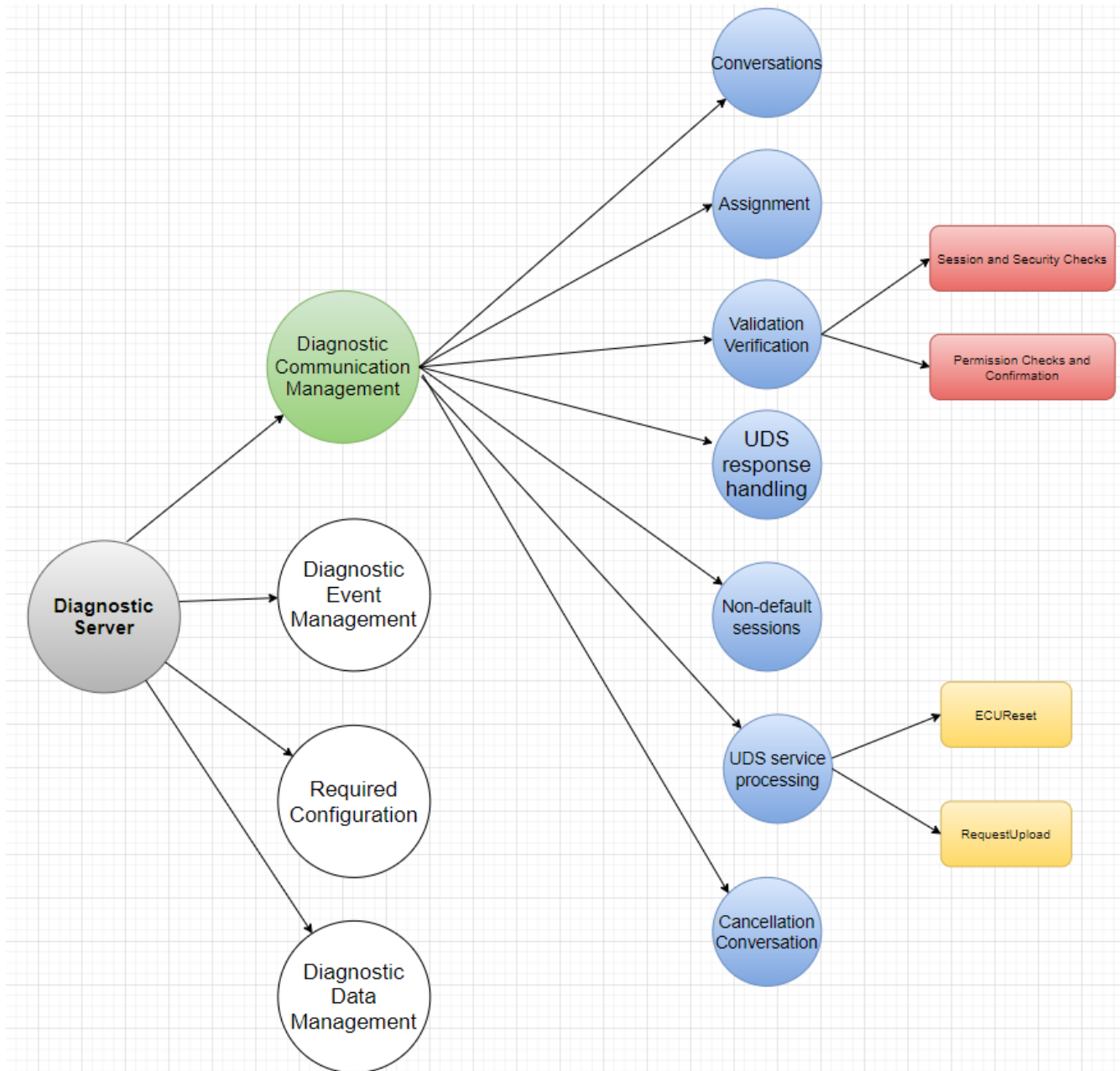


Figure 5.1: Dependencies of the Dem to other software modules

- The AUTOSAR basic software (BSW)
- Diagnostic event manager (DEM)
- Diagnostic communication manager (DCM)
- Function inhibition manager (FIM)
- Software components (SWCs)
- Diagnostic trouble codes (DTC)

5. Diagnostic over Internet Protocol (DoIP)



5. Diagnostic over Internet Protocol (DoIP)

Diagnostic Event Manager

https://www.autosar.org/fileadmin/user_upload/standards/classic/4-3/AUTOSAR_SWS_DiagnosticEventManager.pdf

5. Diagnostic over Internet Protocol (DoIP)

- Function inhibition manager (FIM)

https://www.autosar.org/fileadmin/user_upload/standards/classic/4-3/AUTOSAR_SWS_FunctionInhibitionManager.pdf

5. Diagnostic over Internet Protocol (DoIP)

- ▶ 1 Introduction
- ▶ 2 Big Picture of Manifest Definition
- ▶ 3 Application Design
- ▶ 4 Diagnostic Design
- ▶ 5 System Design
- ▶ 6 Sub-System Design
- ▶ 7 Machine Manifest
- ▶ 8 Execution Manifest
- ▶ 9 Platform Module Development
- ▶ 10 Service Instance Manifest
- ▶ 11 Signal-based communication
- ▶ 12 REST
- ▶ 13 Software Distribution
- ▶ A Examples
- ▶ B Custom Model Extension
- ▶ C General Modeling
- ▶ D Mentioned Class Tables
- ▶ E History of Constraints and Specification Items
- ▶ F Splittable Elements in the Scope of this Document
- ▶ G Variation Points in the Scope of this Document
- ▶ H Used classes in Manifest files



Specification of Manifest
AUTOSAR AP R19-11

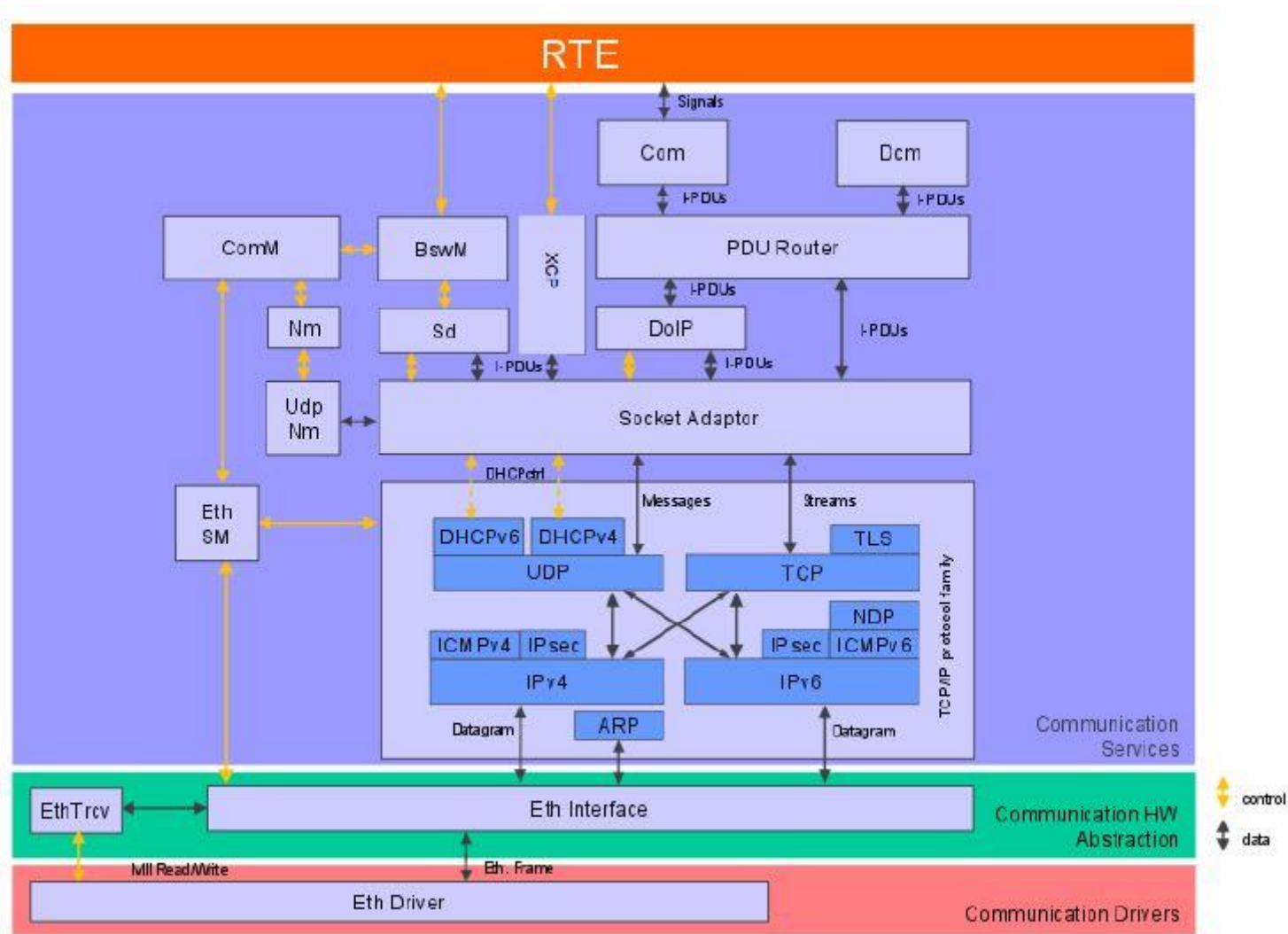
Document Title	Specification of Manifest
Document Owner	AUTOSAR
Document Responsibility	AUTOSAR
Document Identification No	713

Document Status	published
Part of AUTOSAR Standard	Adaptive Platform
Part of Standard Release	R19-11

Document Change History			
Date	Release	Changed by	Description
		AUTOSAR	<ul style="list-style-type: none">• Overhaul of Signal-to-Service Translation• Support for Raw Data Streams

https://www.autosar.org/fileadmin/user_upload/standards/classic/4-3/AUTOSAR_TPS_DiagnosticExtractTemplate.pdf

5. Diagnostic over Internet Protocol (DoIP)



5. DoIP- PDU Router

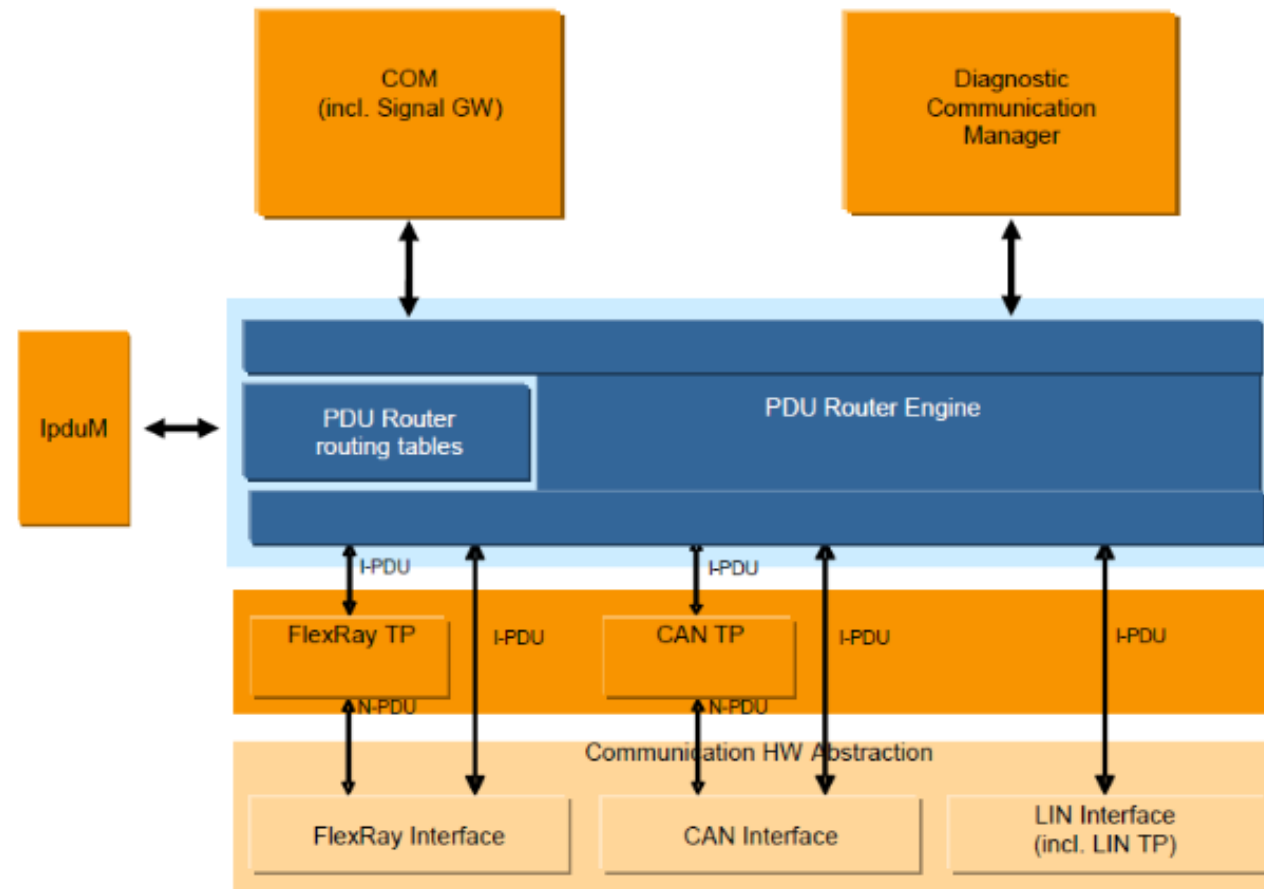


Figure 1.2: Detailed PDU Router Structure showing FlexRAY, CAN and LIN

https://www.autosar.org/fileadmin/user_upload/standards/classic/20-11/AUTOSAR_SWS_PDURouter.pdf

6. Advanced driver-assistance system (ADAS)

7. CAN protocol