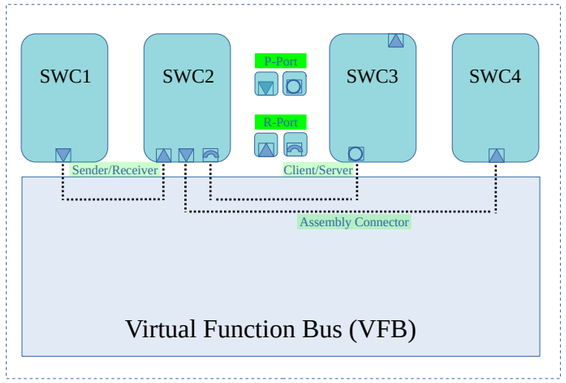
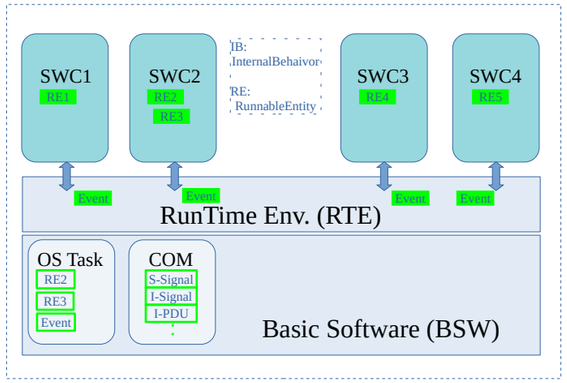




Sender/Receiver Interface
→ one way channel, transmit 'DataElements'

→ RTE APIs ('RTE Call')
Rte_Read_xxx, Rte_Write_xxx (explicit, direct)
Rte_IRead_xxx, Rte_IWrite_xxx (implicit, buffered)

Client/Server Interface
→ two ways channel, transmit 'Operations'

→ RTE API ('RTE Call')
Rte_Call_xxx

RunnableEntity (RE)
→ An RE is a schedulable 'function' in Autosar term; the major task for an app./swc developer is to impl. REs by modeling / coding to realize the functionalities based on the corresponding requirements.

ApplicationDataType (ADT)
→ optional, 'describe the physical view, allows spec. of Units (e.g. °C) and Constraints (e.g. min/max value of temperature)'

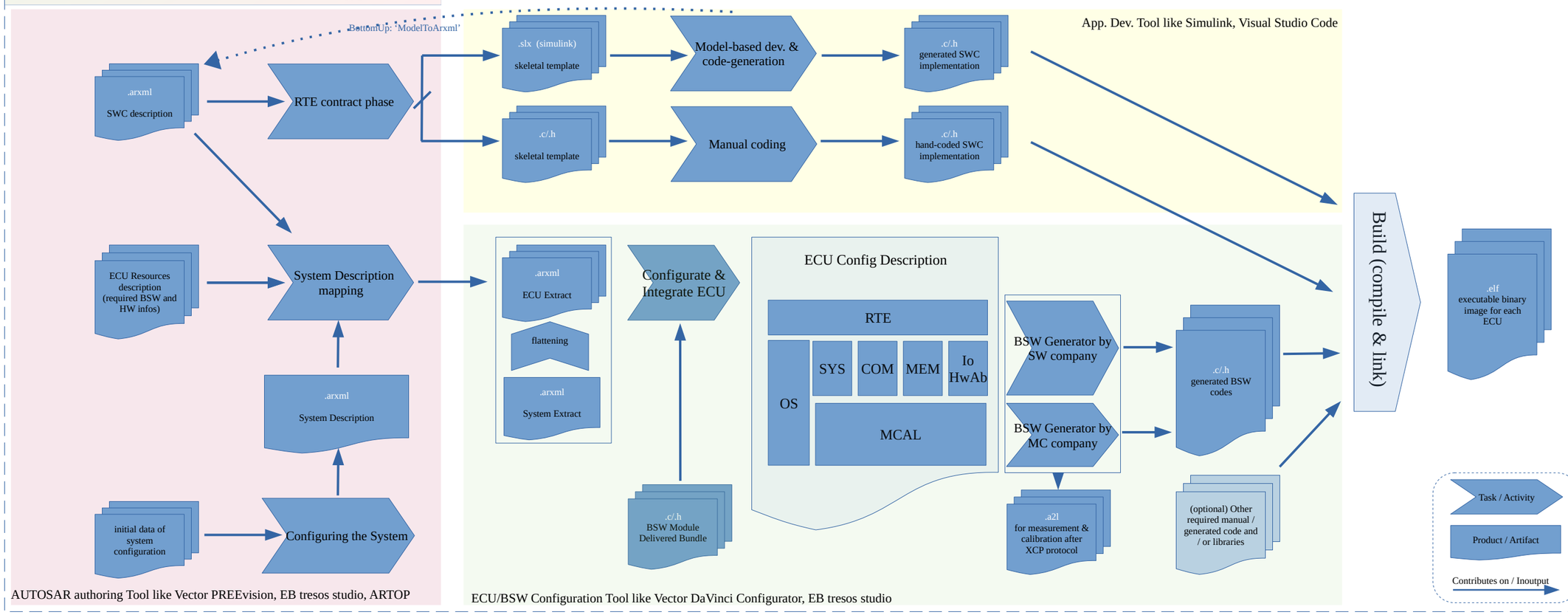
ComputeMethod
→ physical-to-Internal or Internal-to-Physical converter

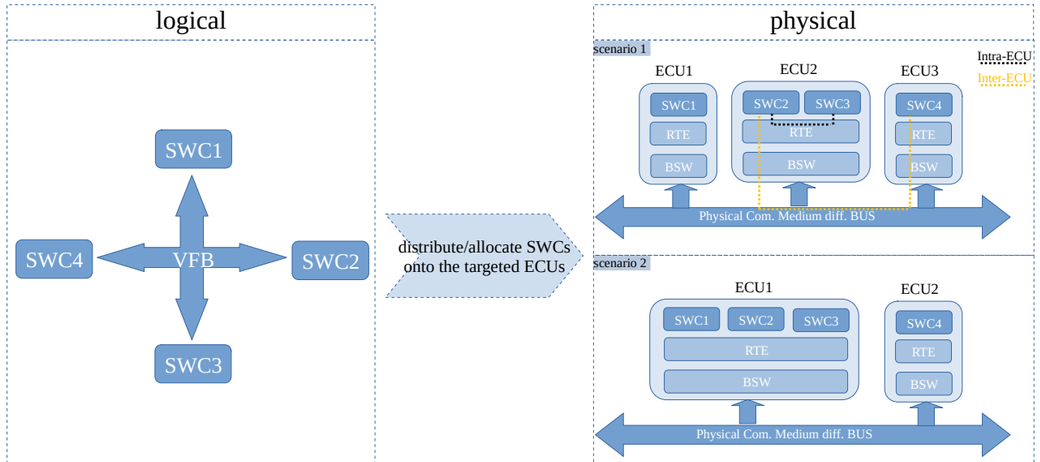
ImplementationDataType (IDT)
→ describe an info-representation in SW, can be considered as typedef in C code based on BaseType; relevant at RTE Generation

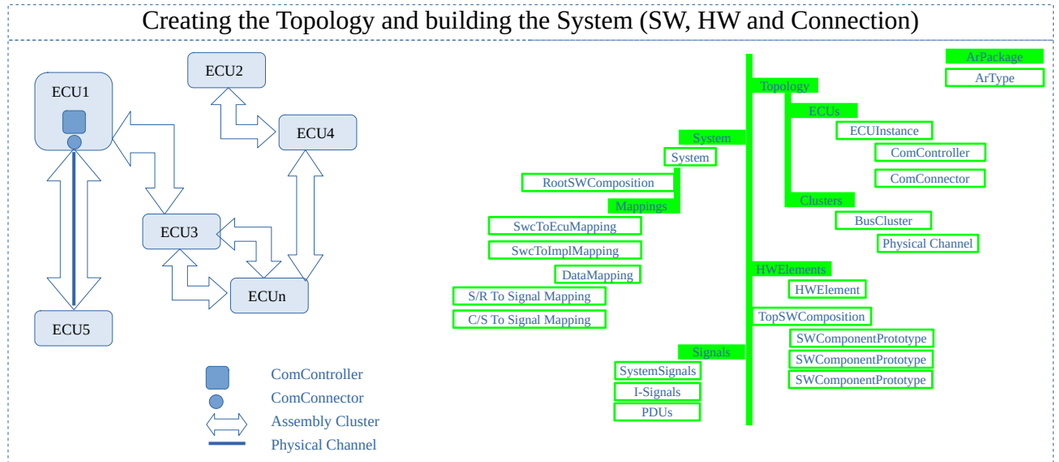
BaseType
→ 'define how a Variable is held in ECU memory by RTE'; platform dependent part of IDT

BaseTypeMapping: ADT → IDT

AUTOSAR CP Methodology (4.x)







Understanding AUTOSAR Classic Platform Methodology as an application developer (R22-11)