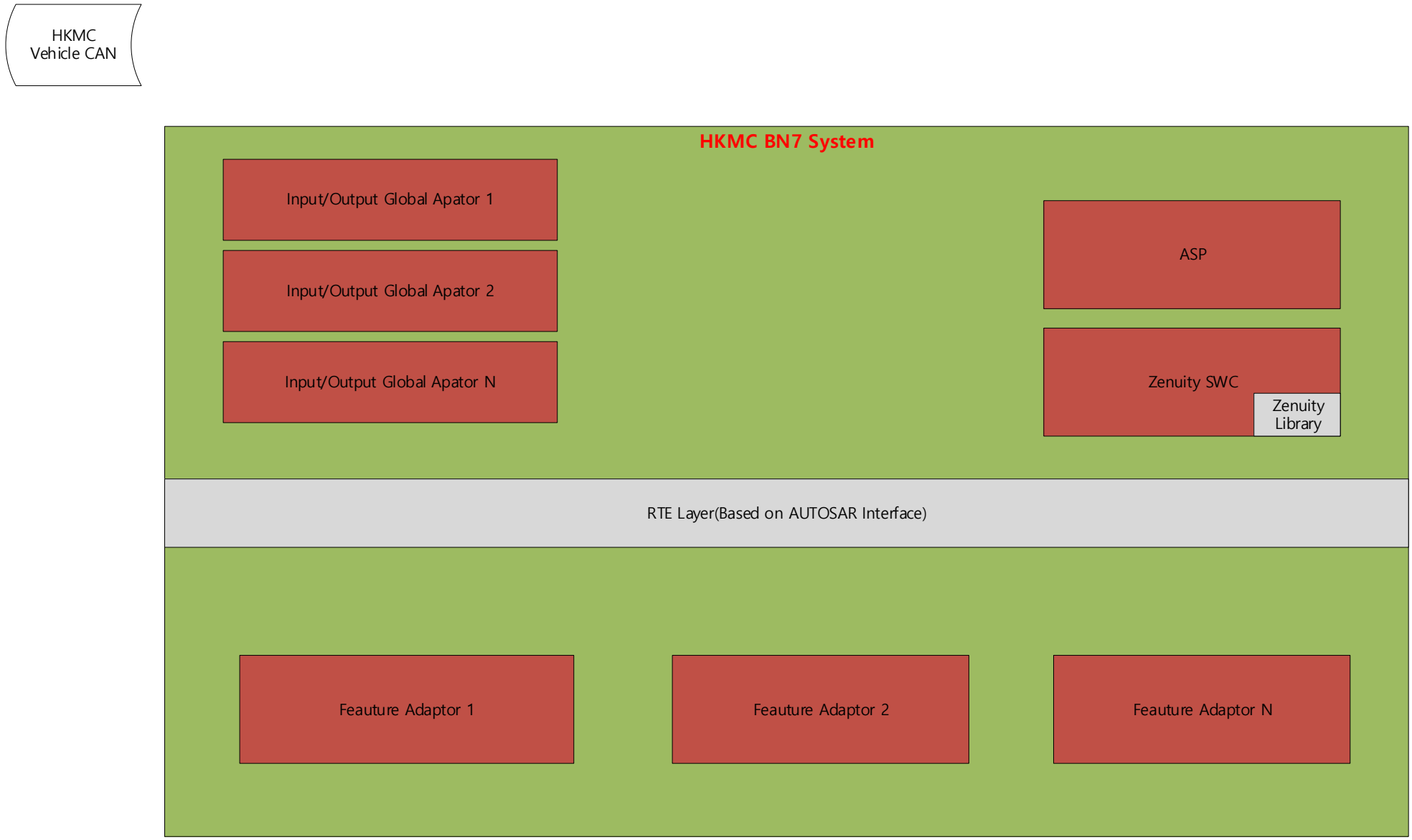
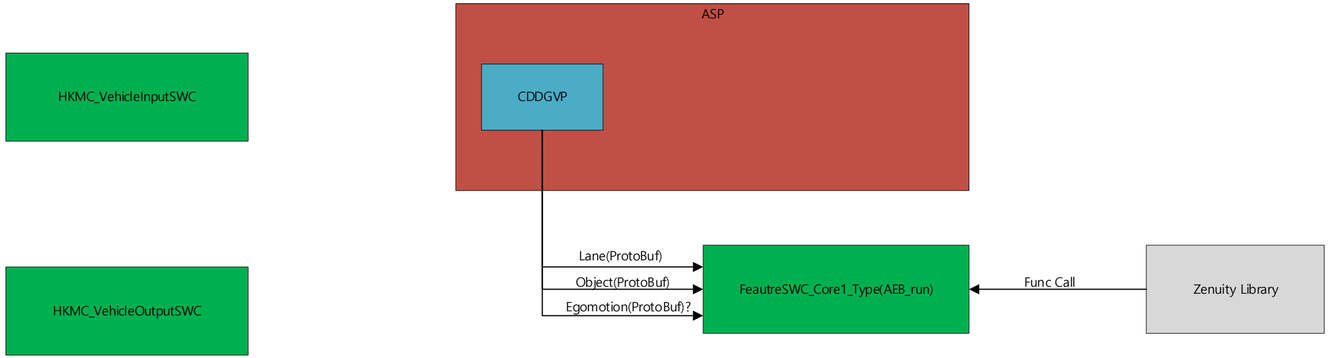

HKMC
Vehicle CAN
HKMC BN7 System
Input/Output Global Apator 1
Input/Output Global Apator 2
Input/Output Global Apator N
ASP
Zenuity SWC
Zenuity
Library
RTE Layer(Based on AUTOSAR Interface)
Feauture Adaptor 1
Feauture Adaptor 2
Feauture Adaptor N

RTE Layer(Rte_Type.h)

```
typedef struct
{
  As_CollisionForwardWarningControl  ForwardWarningControl;
  As_CollisionMitigationByBrakingController  MitigationByBraking;
} As_AebOutput;
```



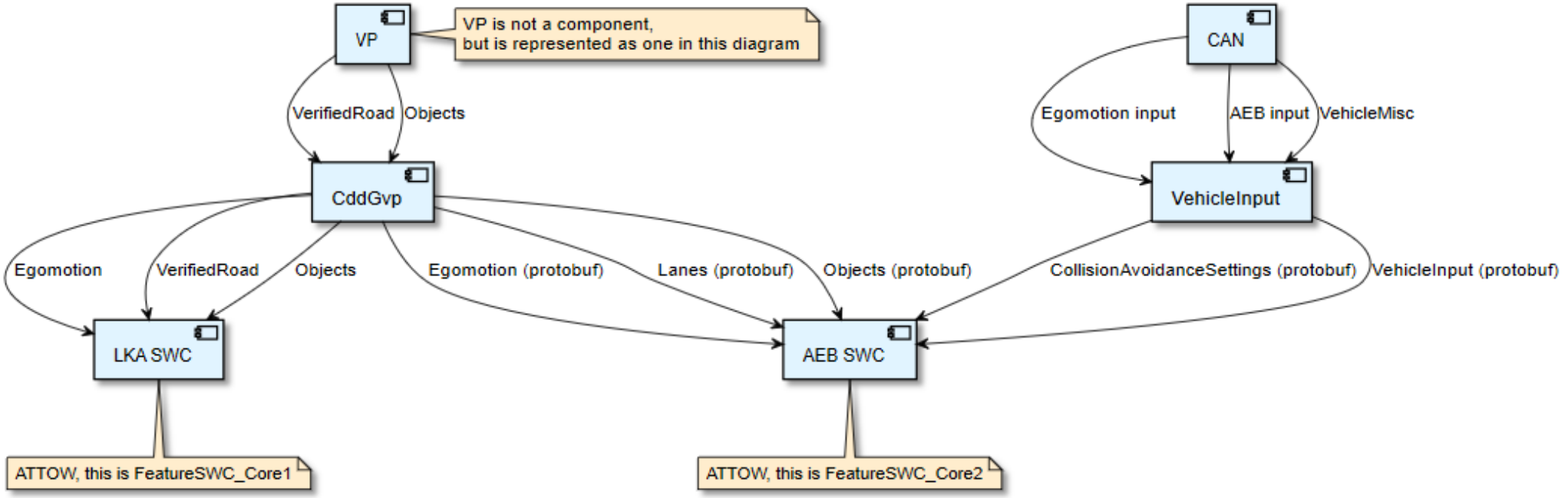
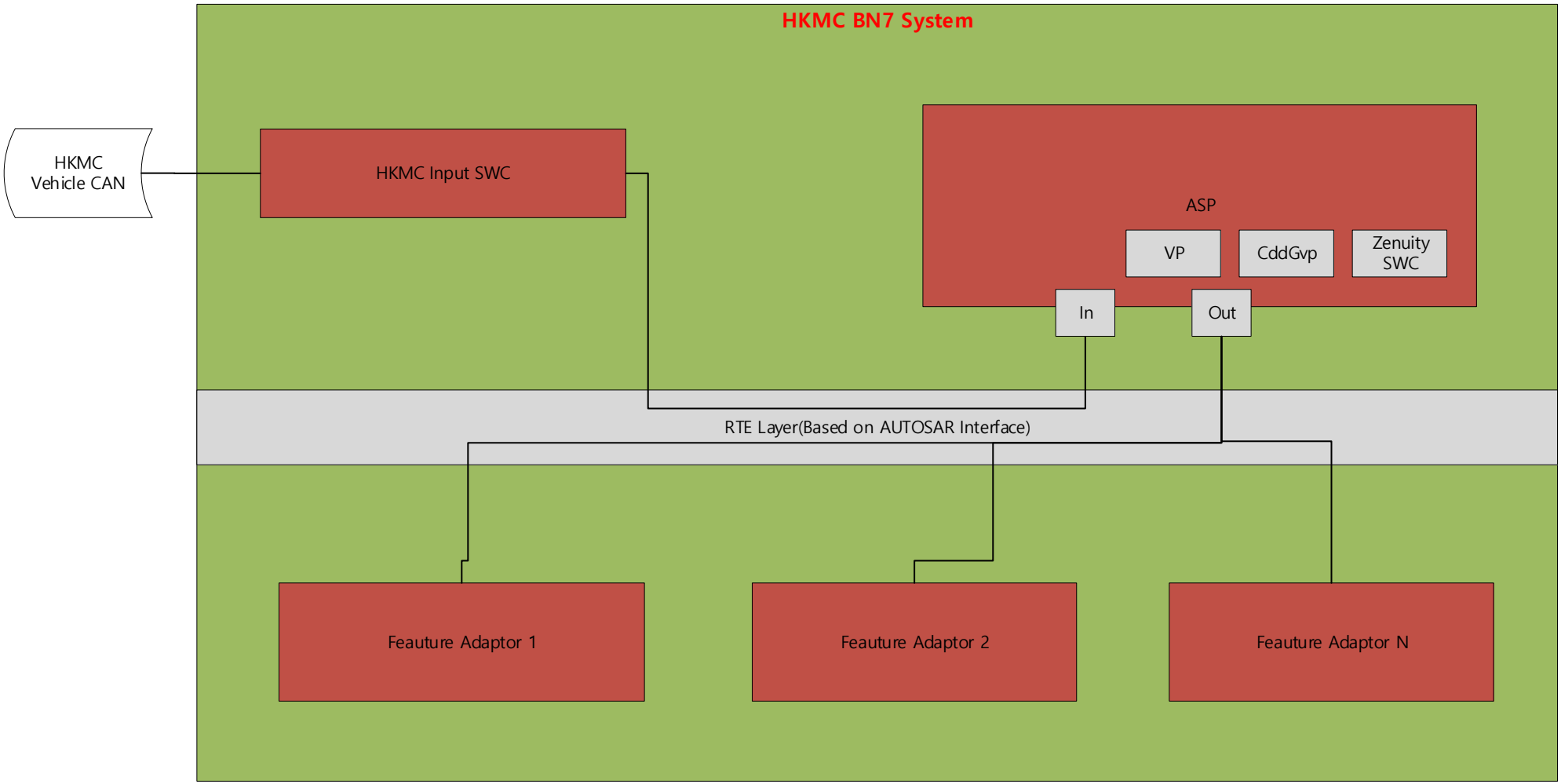



Figure 1: Zenuity input data flow


HKMC BN7 System
HKMC
Vehicle CAN
HKMC Input SWC
ASP
VP
CddGvp
Zenuity
SWC
In
Out
RTE Layer(Based on AUTOSAR Interface)
Feauture Adaptor 1
Feauture Adaptor 2
Feauture Adaptor N

FeatureSWC_Core2(Zenuity LKA SWC) -> RTE Layer

```
Rte_TypeDef_As_LKA_LatControl_Output
typedef struct
{
  float32 frontWheelAngleRequest;
  float32 lowerTorqueLimit;
  float32 upperTorqueLimit;
} As_LKA_LatControl_Output;
```

```
# define Rte_TypeDef_As_LKA_Controller_Output
typedef struct
{
  As_LKA_Core_Mode mode;
  As_LKA_Side interventionSide;
  As_LKA_Side torqueDirectionLimit;
  uint32 abortReason;
} As_LKA_Controller_Output;
```

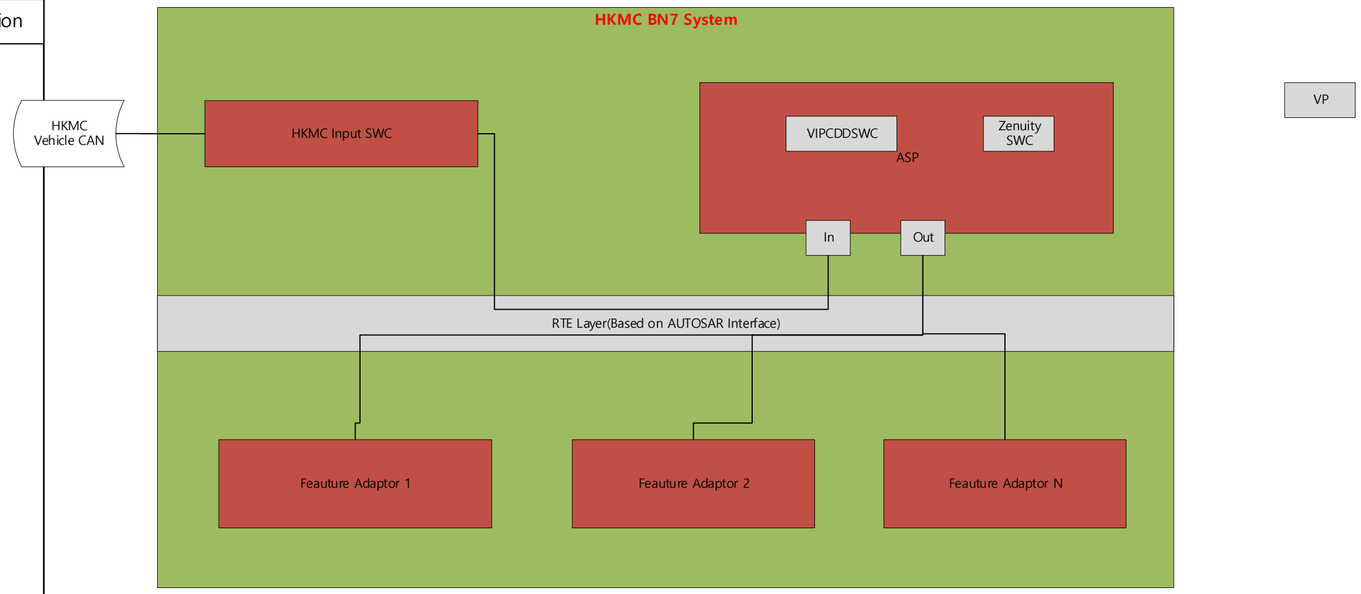
**LKA_Core_Output_2_0_sdd.json**

```
"LKA_LatControl_Output" :
{
    "fields" :
    {
        "frontWheelAngleRequest" :
        {
            "type" : "Float",
            "annotations" :
            [
                ["Description", "The requested front wheel angle from LKA."]
            ]
        },
        "lowerTorqueLimit" :
        {
            "type" : "Float",
            "annotations" :
            [
                ["Description", "The lower torque limit from LKA. Defined at the steering column."]
            ]
        },
        "upperTorqueLimit" :
        {
            "type" : "Float",
            "annotations" :
            [
                ["Description", "The upper torque limit from LKA. Defined at the steering column."]
            ]
        }
    },
```

Title

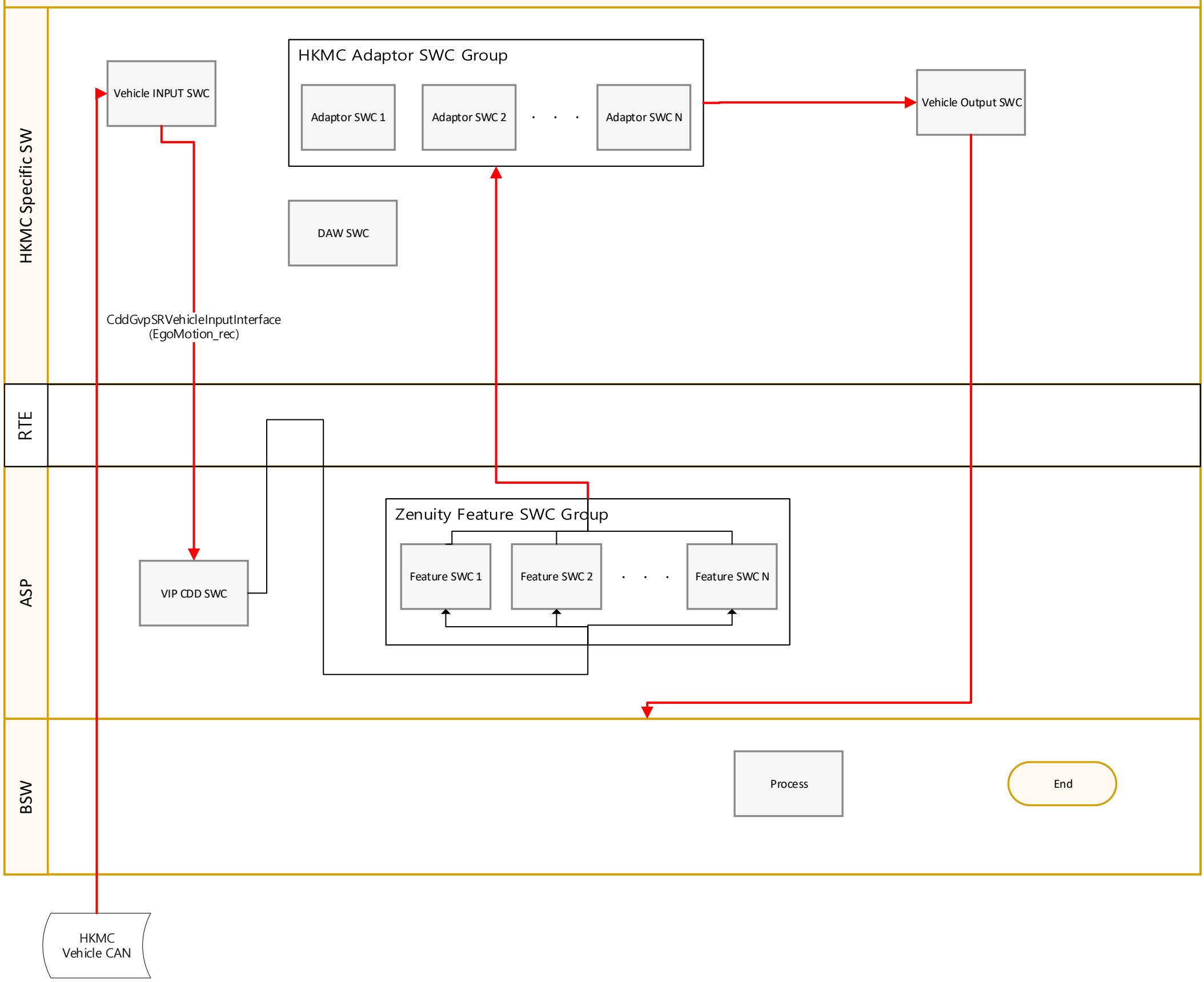
Function

Phase



Need to find the data signals
(For the development of HKMC SWC)

# HKMC SW Achitecture(Data Flow)



In/Out Data Signals or
PortName?Structure name?

Need to find the data signals
(For the development of HKMC SWC)

# HKMC SW Achitecture(Data Flow)

HKMC Specific SW

Vehicle Input SWC

HKMC Adaptor SWC Group

Adaptor SWC 1

Adaptor SWC 2

. . .

Adaptor SWC N

Vehicle Output SWC

DAW SWC

1.CddGvpSRVehicle InputInterface (EgoMotion_rec)
2. SG_AEB_Input
3. VehicleMisc

1.SG_AEB_Output
2.SG_LKA
.
.

RTE

ASP

1.AS_AEB_Output
2.AS_LKA
.
.

Vehicle Output SWC

VIP CDD SWC

Zenuity Feature SWC Group

Feature SWC 1

Feature SWC 2

. . .

Feature SWC N

~~Vehicle Input SWC~~

BSW

Refer to
HKMC_Vision_SDB

CAN

HKMC
Vehicle CAN