Radar

SensorObstacle
Class: S_SensorObstacle

[G] Obstacle

armhf

SensorModule

EnvPerception
Class: S_EnvironmentPerception

[R] Obstacle   [G] FusedSens

armr5

Cerebrum

VComputation
Class: S_VelocityComputation

[R] FusedSens   [G] Velocity

armhf

DynamicModule

RPMComputation
Class: S_RPMComputation

[R] Velocity   [G] RPM

armhf

Dashboard

DisplayState
Class: S_DisplayState

[R] RPM
[R] Velocity
[R] Temp

TempComp
Class: S_TemperatureComputation

[G] Temp

armhf

Key_0
Key_1
Key_2
Key_2
Key_3
Key_4

Key _0: Radar, SensorModule

Key _1: SensorModule, Cerebrum

Key _2: Cerebrum, DynamicModule, Dashboard

Key _3: DynamicModule, Dashboard

Key _4: Dashboard

Orchstrator
amd64

AuthServer
amd64

LogServer
amd64

Special Cases to consider:

1. If a key is only used for communication between services that reside on the same ECU, no network traffic is created and thus, the data does not need to be protected (see Key_4)
2. If multiple keys are shared by the same ECUs, the same key can be potentially used.