

Trimble Desi SW Architecture

Application Space

Position
Reporting

Vehicle Data

Vehicle
Diagnostics

ECU OTA
Process

Alerts

Trimble /
Innominds
Software
Deliverables

Vehicle Telematics Platform

API/MQTT
Broker

Logging

RESTful API

Radio Connection
Manager

Power
Management

System Monitor

Vehicle Protocol Stacks

J1939

UDS

K-Line *

OBDII

Position / Vector

GPS

Motion

System OTA
Manager

Configuration

* New
Development

Innominds
Software
Deliverables

BSP Software Services

Web Server
(Lighttpd)

HTTPS

Connection
Manager

BSP Devices/Interfaces/Drivers

CAN Drivers

KLine

GNSS

WiFi/BT

USB

Security Device

WWAN Modem

Gyro /
Accelerometer

Digital I/O

Analog I/O

SIM/eSIM

eMMC / Storage

RS232

Other Sensors

LINUX RFS

Secure Kernel

Secure Boot Loader