

LIBRARY OF COMMUNICATION AND VEHICLE DIAGNOSTICS PROTOCOL STACKS

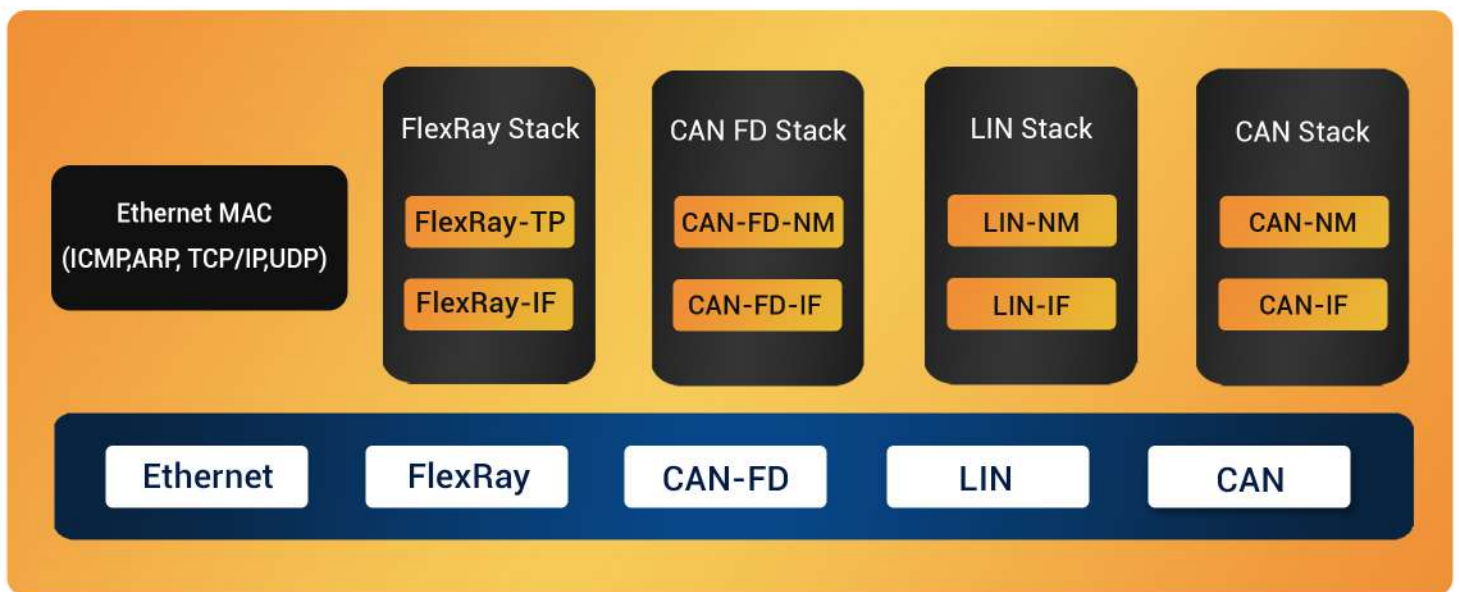
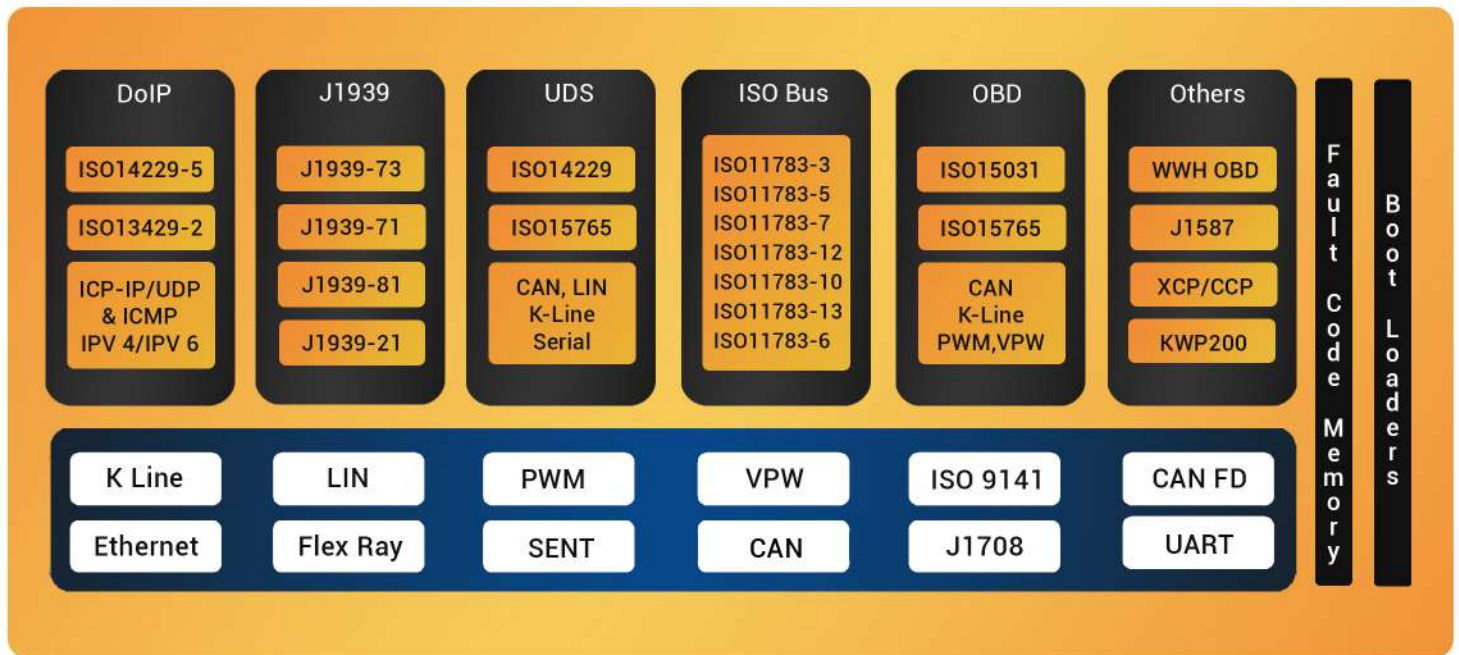


- Embitel provides pre-tested and ready-to-integrate protocol stacks for automotive applications.
- Developed as per the CMMI Level 3 and ISO9001:2008 guidelines.
- Coding guidelines conforms to MISRA C.

BUSINESS MODEL

Stacks are provided under a **one-time licensing fee model (source code included)** as well as in Library Format (Source code not included).

EMBITEL LIBRARY OF PROTOCOL STACKS



Why Choose Us for Diagnostics & Communication Protocol Stacks Implementation

We have an extensive library of diagnostics and communication protocol solutions that we have perfected over a period of **13+ years**. Right from process compliance to rigorous testing, our protocol stacks undergo the highest degree of quality check.

A QUICK GLANCE AT OUR QUALITY ASSURANCE PROCESSES FOR AUTOMOTIVE STACKS:



PROVEN IN USE: Over the past decade, our stacks are powering series production of **ECUs** for American, French, German and Asian **OEMs**. We have successfully delivered the stacks to these **OEMs** through Tier-1 suppliers and even directly in some projects.

- 1. Stacks have been deployed for cutting edge products including **Seat Control ECU, Roof System, Telematics, Body Control Module, Electric Power Steering** and more.*
- 2. We have partnered with more than 50 customers for stack integration*



EXTENSIVE TESTING: Our stacks have been tested/validated extensively using tools like **Vector CANoe, Samdia, Busmaster**. As part of the project, we have successfully tested our stacks in various vehicle models.



STATIC ANALYSIS: Static Analysis has been performed for the stacks using **Polyspace and QAC**. Coding Guidelines and code reviews are designed to ensure **MISRA 2012 Compliance**.



UNIT TESTING: Each of our automotive protocol stacks have undergone comprehensive unit testing. Automotive-grade tools such as **Tessy and MxDev** have been deployed for unit testing.



PROCESS COMPLIANCE: Our automotive-grade diagnostics and communication protocol stacks have been developed as per the stringent guidelines laid down by **CMMI-L3** practices and **ISO9001-2008**. An independent QA team manages project and process compliance.



PORTABILITY: Stacks have been developed in the **ANSI C language** which makes it suitable for porting to both **OS** and **Non-OS** platforms.

PROTOCOL STACK INTEGRATION AND SUPPORT SERVICES

- Implementation of Physical layer as per requirements
- Integration of stack with the target platform
- Support for Configuration of protocol stacks as per the project's requirements
- Support for tooling solution development
- MISRA C compliance report, LLD and HLD provided as deliverables

READILY AVAILABLE TOOLING SOLUTIONS

1. UDS STACK CONFIGURATION TOOL

- Supports multiple configuration
- Generates cfg.c and cfg.h files as per the configuration

2. UDS DIAGNOSTICS TOOL (PC BASED)

- Tooling solution for both Client and Server side
- Support for integration with PCAN, Vector or any third party Hardware

3. CANIF CONFIGURATION TOOL

- Generates the cfg.c and cfg.h from dbc file (CAN Matrix)
- Auto Generates MISRA C compliant code

4. PC BASED REPROGRAMMING TOOL

- Supports J1939, UDS based reprogramming
- Supports physical medium like LIN, CAN and CANFD, FlexRay
- Integrates with PCAN, Vector or many third party hardware

5. LIN INTERFACE TOOL

- Generates cfg.c and cfg.h files from LDF file (LIN Configuration)
- Auto generates MISRA C compliant code

6. END OF LINE CONFIGURATION TOOL

- PC based tool to support configuration of Calibration Block
- Helps configure the parameters for different variants of a vehicle
- Generates the HEX file based on the parameter configuration

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