What is the XL-Driver-Library?
The XL-Driver-Library is a universal programming interface you can use to create your own applications while accessing Vector’s powerful network interfaces.

The following bus systems are supported:
- CAN (FD)
- LIN
- FlexRay
- Automotive Ethernet
- MOST
- ARINC
- I/O interface for acquiring analog and digital signals

Features and Advantages
The XL-Driver-Library provides you with general and bus-specific methods that make it easy to operate the network interfaces from Vector. Channels and ports are managed with general methods. Bus-specific methods are used to configure network nodes and to send or receive frames.

It is easy to assign logical application channels to physical device channels via the XL-Driver-Library or with the user-friendly Vector hardware configuration program.

Furthermore, all Vector interfaces can be driven in parallel via the library, e.g. for gateway functions. Simultaneous support of more than one channel for each bus system (multi-channel) makes it possible to implement any desired variation of interface capabilities.
Digital and Analog I/O
The XL-Driver-Library also supports the digital and Analog I/O functionality with network interfaces. This allows you to acquire and generate analog and digital signals in addition to CAN (FD), LIN and FlexRay frames. The data automatically get time stamps and can thus be correlated with CAN/LIN/FlexRay data.

FlexRay
FlexRay communication parameters are manually copied from the FIBEX database description to the application program.
The standard functions of the XL-Driver-Library for FlexRay are supplied with the FlexRay interfaces. Use of the extended functions requires a license for the “Advanced FlexRay-Driver-Library” or the enabling of the CANoe/CANalyzer .FlexRay option.

Standard Send Functions:
> Sending of up to 128 independent frames
> Sending in Single Shot or Periodic mode
> Send acknowledgments

Standard Receive Functions:
> Receives Data and Null frames
> Option of receiving corrupted frames
> Receiving of communication controller errors

Extended Functions ("Advanced FlexRay-Driver-Library")::
> Use of a second communication controller for cold start of the FlexRay cluster without additional network nodes
> 2 MB memory for send messages; this makes it possible to simultaneously configure more than 1000 independent send messages
> Hardware-based incrementing of a payload area

Scope of Delivery of the XL-Driver-Library for CAN/ CAN FD, LIN, FlexRay, Automotive Ethernet and MOST
The XL-Driver-Library is a component supplied with the Vector Interfaces.
It is included on the driver CD and contains:
> DLL with header for Borland C++, Microsoft Visual C++
> .NET component for Microsoft Visual Studio and Borland Delphi (for CAN/CAN FD, LIN, IOcab, IOpiggy and Automotive Ethernet)
> Manual (PDF)
> Sample applications with source code
> Migration Guide for conversion from the CAN-Driver- Library to the XL-Driver-Library as an appendix to the manual