vFlash
Flashing ECUs Easily and Quickly – over CAN, CAN FD, FlexRay, LIN or Ethernet

What is vFlash?
vFlash is a very easy-to-use tool for programming ECUs. It supports already more than 130 different flash specifications (= platform flash bootloader) and is simply expandable via a plugin concept.

Overview of Advantages
> Flashing via CAN, CAN FD, LIN, FlexRay, Ethernet (DoIP, SoAd = AUTOSAR Socket Adaptor)
> Simple exchange of pre-configured flash projects in one package (.vflashpack)
> High transfer rate: Example: transfer of 1,000 kByte data in 36.6 s (27.3 kByte/s) in idealized reference ECU over CAN at 500 kBit/s with STmin = 0, BS = 0
> Support of numerous flash specifications (protocols and flash sequences) simply expandable via plugin concept with so-called vFlash Templates
> Direct “native” programming of data in Intel hex, Motorola-S and binary format or alternatively programming based on container formats like ODX-F and OEM-specific formats
> Quick and uncomplicated creation of flash projects for different bootloader based on the vFlash Templates
> Documentation of flash actions in flash reports
> Tracing of CAN raw data for later analysis in case of an error
> Flashing of compressed and encrypted data
> Interactive flashing via the GUI as well as automated flashing over a programming interface (C API / C# API)
> Validation of the flash bootloader in the ECU in combination with CANoe.DiVa (via CAN, FlexRay, DoIP, LIN)
> Standalone flashing with the Intelligent Diagnostic Device VN8810
> Simultaneous flashing of several ECUs each on a separate communication channel with “vFlash Station”
> Remote flashing of ECUs from any location with vFlash Remote
vFlash Bootloader Support
Vector offers prepared vFlash Templates for a large number of different automotive OEMs and bootloaders. Please contact us at: CANdel-Info@de.vector.com

Supported Hardware
> CAN FD/LIN: e.g. VN16xx, VN8950, VN7572, VN8970, VN8972, VN7640
> CAN FD/FlexRay: e.g. VN7610, VN7572, VN8970, VN8972, VN7640
> Ethernet: e.g. VN5610A, VN5640, VN7640, VX0312
> VN8810 (as standalone flash device)
> VT System

More information: www.vector.com/vflash

Application Areas
vFlash is designed for all users at automotive OEMs and suppliers whose tasks include (re-)programming of ECUs. vFlash allows users to flash ECUs in the laboratory, at programming stations, at a laboratory vehicle or in the vehicle very efficiently.

vFlash can be controlled via a graphical user interface or it can be simply integrated as a library in an existing environment. With the special edition “vFlash Station” you may simultaneously flash up to 8 ECUs each on a separate communication channel.