

CANditoFlash 4.0

Easy Flashing in the Development Process and in End-of-Line Programming

A Properties Overview:

- > Process-assured flash tool requiring minimal user interaction.
- > Easy handling: Flashing based on just two configuration files (ODX-F and CDD).
- > Supports standard protocols.
- > Flashing in different areas (development, measurement, calibration, diagnostic testing, end-of-line) by integration in other Vector tools or as standalone tool.
- > Future coverage is assured, because it can be extended for new bus systems (FlexRay) as soon as standardized protocols are available.

Application Areas

Because it is easy to operate, CANditoFlash can be used as a standalone tool for end-of-line flash jobs in production. In interaction with other Vector tools (see graphic) CANditoFlash can also be utilized as a flash tool in many different ECU development areas at suppliers and at OEMs:

- > Testing and simulation,
- > Diagnostics,
- > Calibration and measurement data processing.

Functions

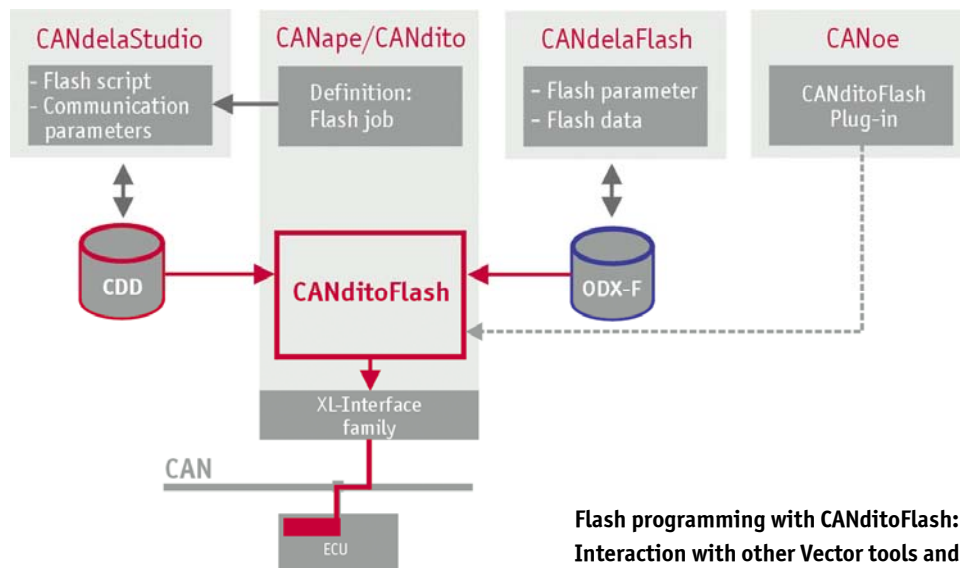
CANditoFlash is a flash tool for programming ECUs based on an ODX-F flash container and a CANdela ECU Diagnostic Description file (CDD file). Communication with the ECU is based on the diagnostic description file (CDD file) that is created with CANdelaStudio and which describes the diagnostic protocol and diagnostic data of the relevant ECU. The ODX-F flash container is generated using CANdelaFlash, the tool for managing flash data.

An overview of functions:

- > Programming (flashing) of an ECU via the real vehicle bus (physical and functional addressing)
- > Configuration via ODX flash container and diagnostic description file (CDD file).
- > Support of customer-specific file formats (flash data)

Development of the Flash Job

The flash job is designed and developed with the help of an easy-to-learn programming environment in the CANdito and CANape tools.



**Flash programming with CANditoFlash:
Interaction with other Vector tools and data flow**

The following functions are provided in flash job programming in CANape/CANdito:

- > OEM-specific flash job: Simple, problem-oriented library functions for instancing and parameterizing diagnostic functions
- > Easy access to flash parameters
- > Convenient import of flash data
- > Library is expandable (e.g. for import of customer-specific data)

The flash job (flash script) is transferred to the Diagnostic Description file (CDD file) with CANdelaStudio.

If necessary, Vector can develop the flash job as a contract service.

Supported Protocols

- > ISO 15765 Diagnostics on CAN
- > ISO 14229 Unified Diagnostic Services on CAN (UDS)

Interaction and Interfaces

CANditoFlash can be run:

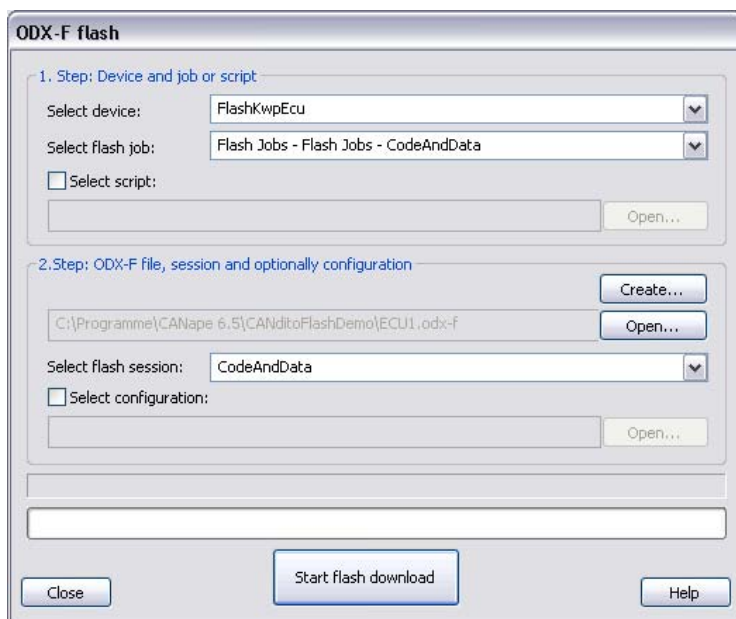
- > As a standalone tool, e.g. for end-of-line flashing
- > As part of CANape (effective with version 6.5 SP1) or CANdito (effective with version 2.5 SP1)
- > In CANoe as a plug-in. A precondition is a standalone installation of CANditoFlash or an installed license for CANape/CANdito version 6.5/2.5 SP1 or higher.

Tip for maintenance contract customers

If a CANape/CANdito version lower than 6.5/2.5 SP1 is being used, it is advisable for maintenance contract customers to execute an update to the latest version of CANape or CANdito in order to obtain the functionality of CANditoFlash.

System Requirements

- > PC running at 500 MHz or faster and 256 MByte RAM
- > Windows XP, Vista or 7 (32 bit editions)
- > CAN interface: e.g. XL-Interface family



**Configuration dialog:
Flashing based on ODX-F data**