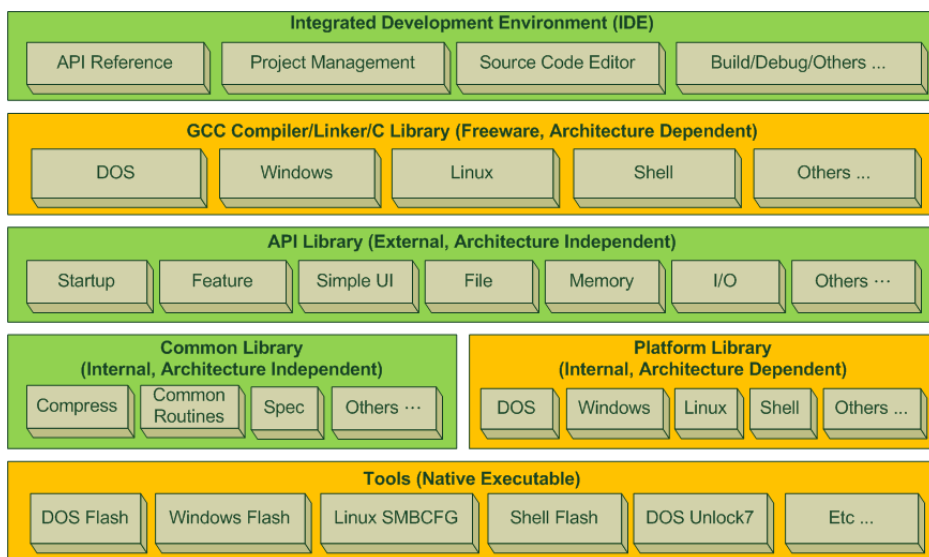


BUILD CUSTOM FIRMWARE TOOLS FASTER AND EASIER WITH THE PHOENIX TOOL DEVELOPMENT KIT (TDK)

Phoenix continues its technology leadership in BIOS with its architecture and deep expertise in firmware development. At Phoenix, we understand time to market pressure. We also understand the complexity of system firmware design and deployment, even if your boss doesn't. That's why we offer a full suite of developer tools to make your life easier.

The Phoenix Tool Development Kit (TDK) is a robust solution for firmware tools development and customization using an Application Programming Interface (API) model that allows developers to create custom tools with a compact architecture-independent code base. With TDK, unique firmware tools can be developed according to specific manufacturing and debugging needs.

The TDK API includes both internal and external functions through common, standard libraries.



In today's IT environment, new tools are rapidly developed as firmware technologies quickly evolve. Customer engineers need the latest tools as soon as they become available.

Our tools work because they are used every day by engineers inside Phoenix and by our customers' product engineering teams. Now your product team can use them too. Phoenix includes TDK documentation to help you get the most from your Core Systems Software deployment experience. Phoenix tools put you back in control of your digital life.

The Phoenix TDK makes bring-up, system debugging, feature modification, and system enhancements easier and faster.

Supports Multiple Platforms	Shortens Time To Market	Boundless Extensibility	High Performance
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TDK Features

▶ GENERAL FEATURES

- > API source code written in ANSI C
- > Fully documented code using Doxygen format
- > Install Wizard for GCC Build Environment
- > DOS, Linux, Windows and UEFI Shell support
- > Technical Reference

▶ FLASH UTILITIES

- > Based on Firmware Device specification
- > Console mode and Graphical User interface
- > Command line script file support
- > Recovery Volume preservation
- > UEFI Variable Store merge
- > BIOS Capsule support
- > SLP2.0/2.1/3.0 update
- > DMI string update

▶ BIOS EDITOR EXPRESS

- > Read image/capsule/ROM contents
- > Edit and customize input data
- > Generate new image file

Ready made tools are also available through the Phoenix **Tools Subscription Program**; for example:

Access Pro

For accessing platform runtime data. Features include:

- ACPI Viewer:** view parsed ACPI table data
- BIOS Performance Log Viewer:** view ACPI performance logs
- EFI Variable Editor:** edit variables in hexadecimal, ASCII or Unicode
- SMBIOS Viewer:** view decoded SMBIOS table data

Phoenix Security Examiner

Examines Phoenix BIOS security keys of the current system and capsule files (BIOS Guard, Boot Guard, Secure Flash, Secure Boot, Unlock).

UEFI Capsule Workshop

- > Build and sign Phoenix SCT BIOS capsules
- > Flash, FOTA and WUFU capsule support
- > Verify capsules
- > Apply hash values
- > Output capsule signature format and public key binary data
- > NIST SP 800-147 Compliant



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