# Phoenix SecureCore Technology™ 4

## A NEW GENERATION OF UEFI PLATFORM FIRMWARE

Phoenix SecureCore Technology™ 4 (SCT4) is our latest generation of UEFI Platform Firmware with advanced features to enhance system security, connectivity and manageability. Designed with over 30 years of domain expertise in firmware architecture and engineering, Phoenix SCT4 eases maintenance efforts for OEM/ODM developers pursuing an efficient and economical transition to the next generation of the UEFI codebase.

## CHOOSE YOUR UEFI FIRMWARE DEVELOPMENT ENVIRONMENT

Phoenix SCT4 supports both traditional EDK II, and Phoenix's SCT style source code environments offering developers maximum flexibility in choosing the development environment they feel most comfortable with. With SCT4, you choose the environment that's right for you!

## WRITE CODE USING TRADITIONAL EDK II OR PHOENIX SCT4

SCT4 leverages the strength of the original SCT architecture, while embracing the EDK II standard architecture. The result is a familiar EDK II style source code base with an embedded SCT style development environment. This allows developers to implement new drivers and features as either EDKII packages or SCT Modules.


## CUSTOMIZATION IS A BREEZE WITH THE SCT DEF LANGUAGE

SCT4's modular design and Configuration Definition Language (DEF) provide a framework for easily adding custom features, logos, and splash screens. Configurations and settings are controlled through a single Project Definition file. Include packages, modify driver settings, create and modify PCDs, and override libraries with simple DEF language statements.

## STABLE, RELIABLE, CUSTOMIZABLE VALUE-ADD FEATURES

Enjoy all the stability and reliability of the IHV resource code distribution enhanced with easy to customize Phoenix value-add features. SCT's build architecture supports multiple projects with different configurations in the same source code tree. Security features are easily enabled and configured through simple DEF language statements. The SCT Platform/Board architecture provides well defined hooks for easily adding design-specific customizations. The new SCT4 Flash Part Package supports a multitude of flash parts with a single library component.

## LEVERAGE THE SCT4 ADVANTAGE

The greatest advantage of SCT4 for OEM/ODM developers is in its ability to leverage the EDK II framework to seamlessly connect their firmware base to the latest generation of CPUs, with the added benefits of Phoenix value-add features, easy customization, and accelerating product time-to-market.

## SCT4 Features

### UEFI SECURITY FEATURES

- Secure Boot: Window 8, 8.1, 10; Linux
- Secure Flash: NIST 800-147
- Measured Boot: TCG, NIST 800-155
- Intel
  - Boot Guard
  - Identity Protection Technology: ATP, TXT, XD, AES
  - Intel Virtualization Technology: VT-d, VT-x, PCIe SR-IOV
- AMD
  - Hardware Verified Boot
  - Firmware TPM 2.0
  - Virtualization and IOMMU

### SOURCE CODE REUSE

- Supports EDKII and SCT Source Code
- Support Multiple Projects in the Same Source Code Tree
- Improved Modularity and Customization
- Phoenix Configuration Definition Language
- EDKII Platform Configuration Database

### INDUSTRY STANDARDS COMPLIANCE

- UEFI 2.4, 2.5
- PI 1.3, 1.4
- ACPI 5.0, 6.0
- SMBIOS 2.7, 3.0
- TCG 1.4
- TPM 1.2, 2.0

### TOUCH-OPTIMIZED DESIGN

- Connected Standby Ready
- GUI Setup and Touch Hot Zone

### DEVELOPMENT TOOLS

- Phoenix CoreArchitect™ Debugger
- Tools Development Kit (TDK)
- Tools Subscription Program (TSP)

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**Phoenix Technologies Ltd.**

**Americas**
910 East Hamilton Avenue, Suite 110
Campbell, California 95008 U.S.A.
**Toll Free** 1-800-677-7305
**Tel** +1-408-570-1000
**Fax** +1-408-570-1001
**E-mail** sales@phoenix.com

**Taiwan**
7F., No. 88, Ruihu St.,
Neihu District,
Taipei City 114,
Taiwan, R.O.C.
**Tel** +886-2-7745-5600
**Fax** +886-2-7745-5699

**Korea**
2F, Cheongwon Bd.,
33 Teheran-ro 8-gil,
Gangnam-gu
Seoul 06239, Korea
**Tel** +82-2-3014-4700
**Fax** +82-2-3461-8676

**Japan**
Gotanda NN Building 8th Floor
2-12-19, Nishi-Gotanda,
Shinagawa-ku
Tokyo 141-0031 Japan
**Tel** +81-3-5435-6700
**Fax** +81-3-5435-6701