The innovative improvements of PhoenixBIOS™ 4.0 Release 6 were specifically designed to reduce manufacturing expenses associated with full-feature deployments by providing tools and features that reduce deployment cycles. With the many new features of Release 6, OEMs can now differentiate their products, enhance performance, and accelerate time to market. Phoenix’s PhoenixBIOS continues its technological leadership and assures compatibility with industry standards. Release 6 enables rapid deployment of new designs by allowing required specifications to be implemented with ease.

**Standards Compliant BIOS** - Universal Serial Bus (USB), PCI, Advanced Configuration and Power Interface (ACPI), Wired for Management (WfM), NetPC, and PC 2001 are some of the industry standards that Release 6 puts to work for customers. Among the more notable features to ensure rapid certification are ACPI, QuickBoot, Motherboard Configurable Devices (MCD™) and Graphical Boot and Setup:

- **ACPI** – provides a firmware interface that reports hardware and system level information to the OS for its use and management.
- **QuickBoot** – Booting to the Operating System is expedited with this new feature. QuickBoot can be enabled/disabled in setup and automatically disables itself upon error detection.
- **MCD** – MCD includes a central resource manager that controls removable device resources allocation, and motherboard-based devices, such as Super I/O and sound controllers. MCD provides full device registration and configuration for the widest degree of device configuration flexibility.
- **Graphical Boot and Setup** – Setup now uses VGA capabilities allowing manufacturers to include bit map files for QuietBoot screens and to take advantage of extended character-set options for SETUP and POST messages.

**Ease of Deployment** - PhoenixBIOS 4.0 Release 6 was designed to offer the greatest degree of differentiation while actually expediting the deployment process:

- **String Manager** - Text and Setup strings are managed by a database and are accessed by token name. Isolating strings from code ensures portability, and easily clones “look-and-feel” from one system to another. Multiple language support also becomes effortless with this new feature.
- **POST Error Manager** - Error messages are held in a separate database for easy customization without having to rebuild the rest of the BIOS.
- **CMOS Mapping** - CMOS mapping tools make it easy for manufacturers to efficiently use CMOS bits and to preserve certain bit map locations from one platform to another.
- **Configurable POST** - Manufacturers can develop multiple boot paths based on specific market requirements, or on errors or other conditions encountered during POST.
**Expanded List of Silicon Components**

Release 6 also supports the latest silicon, featuring the newest technologies including ACPI, USB and AGP. Phoenix's influential position in the market place permits our engineers access to first hand information on the most significant silicon allowing us to share our understanding with system manufacturers for rapid implementation of the latest silicon across the broadest range of configurations. Our dedicated team works closely with core logic chipsets, CPUs, I/O, and audio components vendors to deliver the most compatible solution in the market. Each BIOS port goes through an engineering test followed by a more comprehensive QA test performed in the Phoenix Quality Assurance department. The result is a high quality, fully tested BIOS for each CPU, chipset, or other silicon capability.

**Power Management Leadership**

**APM Power Management**

Using Phoenix's many years of experience in power management and its object-oriented power management architecture, Phoenix has integrated robust support for precise power control for Servers, Desktops, Notebooks, and Embedded. Core BIOS support for APM (Advanced Power Management) Version 1.2 includes the most granular degree of power management available.

**ACPI**

Phoenix had the first ACPI compliant BIOS, demonstrated by Microsoft in August of 1996. Since then, Phoenix has continued in its development and now has a version 1.0 compliant BIOS available. New features are being added to enhance the basic support required for logo certification and to allow for greater product differentiation for our customers.

The architecture of Phoenix's ACPI BIOS solution is designed to reduce the burden of bringing ACPI support to a new platform. It does this by providing a simple interface to the most common porting issues, a strong set of core support routines and tight integration with Motherboard Configurable Devices (MCD).

**Phoenix Service and Support**

Phoenix Technologies, with development offices around the world, provides local support to manufacturers, system integrators, and system designers. In addition to providing standard BIOS support as the leading BIOS supplier of PCI, Plug and Play, and Power Managed systems, Phoenix also provides highly customized desktop solutions for today's successful manufacturers.

For manufacturing customers implementing PhoenixBIOS without the assistance of our worldwide deployment team, Phoenix offers a wide range of classes from BIOS basics to an advanced developer’s course. These classes cover the latest trends in technology, new features and manufacturer-specific capabilities.

Today's manufacturers require more from their firmware supplier. Phoenix meets not only the demands for current firmware, but also helps manufacturers deploy new technologies quickly and get their products to market faster. Successful PC suppliers depend on Phoenix Technologies as their technology partner.

For more information about Phoenix products, ask your Phoenix sales representative or go to www.phoenix.com.
Eltan is a European advanced engineering services company and the “core” competence is PC and Communication technology. Eltan provides specialized high-quality engineering services for hardware, Bios and operating systems as well as complete system solutions.

Eltan is a Master distribution and development partner from Phoenix Technologies. Our engineers have experience and implemented Phoenix products since 1988. Eltan customizes the BIOS code of Phoenix to the customer hardware platform and offers object and source code license agreements fit for industrial and embedded suppliers. Eltan offers these development, engineering and customization services for Phoenix SecureCore Tiano, SecureCore, Embedded BIOS, Phoenix Award Bios, Phoenix GenSW BIOS, UEFI and full legacy compliant. Eltan engineers have implemented hundreds of customer specific BIOS-based features. To name some: Console redirect, ACPI, Security, pre-boot communication, Boot from SD, USB and 1394.

Eltan designs and brings leading edge hardware to production. Eltan is specialized in designing customer specific boards based on x86 technology. Eltan covers the Intel, AMD and VIA Technologies standard and embedded processor lines. This includes Embedded Controller and FPGA combined hardware and software solutions. Some examples of products are: Motherboards (Industrial, embedded, and regular), Information Appliances, PC on a Chip based board solutions, Server blades, Network switches. Eltan's expertise ensures a planned and controlled design cycle enabling successful production startup, approvals & certification and meeting your planned time to market.

Eltan supports you with Operating systems and Driver development for Microsoft Windows CE, XP, 2000, Vista, Windows 7, Server 2008 and Linux. Eltan's experience with File System Filter Drivers, Boot loaders (e.g. for Windows CE), Hardware Device Drivers, Filter Drivers and Operating System Configuration improves your time to market and will reduce the overall project cost.

Eltan offers licensing and engineering support for the Phoenix family of products. These products are targeted at board and system manufacturers and reduce support cost and add value to the customer’s products. Based on the in house BIOS expertise and the Phoenix Partnership Eltan provides engineering services to create Bios Protected Applications.

Eltan reduces your time to market for industrial, consumer electronics and Information Appliance products. Eltan offers licensing and engineering support for the software as well as hardware and system engineering.