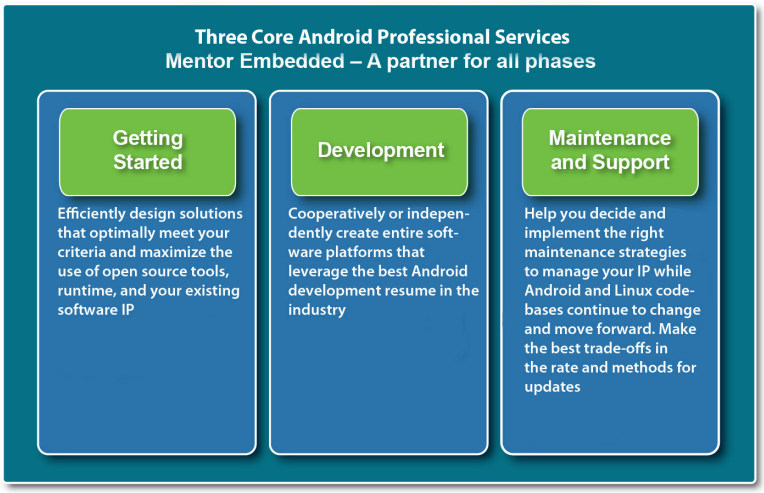
Mentor Embedded

Android Professional Services for TI Processors

DATASHEET



Mentor Embedded Services embraces the open source model through collaboration and sharing of resources. Mentor offers established practices/services targeted exclusively at key aspects of Android device development which can be divided into three core services.

Realize the success of your Android-based device

Android-based devices now dot the embedded landscape in all shapes and sizes. As a TI OEM, you are tasked with bringing your current Android-enabled device to market quickly – in the most efficient manner possible. Taking an Android-based design from early inception to final deployment is a complex process. That's why Mentor® Embedded Professional Services, a dedicated team of open source developers with deep and direct experience in the open source community – *and specifically in Android development,* stands ready to assist you in all phases of device development.

Android pioneers with a track record of delivering that continues today

Mentor Embedded Professional Services for Android-based devices is a team that's been at the forefront of assisting in the development and deployment of Android-based devices.

The team has accomplished a number of firsts in the industry:

- **First** to get Android running on non-mobile devices
- **First** to take Android to several major processor architectures
- **First** to create Android support for TI DSP systems
- **First** to take Android to many industries and applications including medical, industrial, and aerospace

MENTOR SERVICES ANDROID DEVELOPMENT STRENGTHS:

- Complete Android software realization services; from specification to optimization, to the delivery of firmware images to the manufacturer
- Deep architecture knowledge of Android (Note: the Android framework is extremely complex)
- Absolute knowledge of Android-device enablement on TI SoCs (all OMAP3, DM81xx, OMAP4, ...)
- Android differentiation services including user experience/user interface design – prototype to development
- Hands-on knowledge/experience with the relevant optimizations and acceleration and non-standard configurations – dual displays, multi-channel audio, printers, scanners, and other unique I/O
- Deep understanding of all of Android's "gaps", "pitfalls", "risks", and "problems"
- Hybrid environments (Android + Native Linux, Android + RTOS, Android + ...)
- Legacy software integration
- Validation and compliance: experience and infrastructure for effectively validating your Android product
- Firmware update/OTA
- Security
- Custom Android marketplaces and private markets
- Migration to Android from any OS (e.g., Windows Embedded, Linux, or an RTOS)

Creators of TI's OMAP3 Android project

The Mentor Embedded services team created and maintained the TI OMAP3 Android project. That same team has now shifted to helping TI OEMs from many industries get to market with compelling products.

Mentor can help your team get the maximum leverage out of the good Android starting point found at OMAP3 Android and help address the challenges of porting, adding device support, leveraging existing C/C++ code in the "no glibc Android world," power management, boot time needs, UI customization, comprehensive testing, and establishing an optimum development flow.

How we work: the Mentor Services "Engagement Model"

The Mentor team will seamlessly integrate with your team. In fact, it'll feel like they're in the next cube. Mentor provides a customer-friendly, shared collaboration portal covering shared project management tools, configuration management systems, issue trackers, and documentation systems. A proven model for success.

"Android Platform Development" training classes available at select TI facilities

The "Android Platform Development" course will help you understand how to leverage Android open source software on TI processors. This class helps teams understand the challenges they are likely to face (e.g., Android porting, power management optimization, etc.) and addresses how to solve these problems. There are hands-on lab exercises using the BeagleBoard xM which will reinforce lecture and discussion topics under the guidance of our industry expert instructors.

For more information on Android training, please contact Worldwide Education Services:

Mentor Graphics Corporation
Education Services, 8005 SW Boeckman Road,
Wilsonville, Oregon 97070

Email: *education_services@mentor.com*
Phone: 800-345-2308 Fax: 503-685-7745

Unique and dynamic Android UIs

Mentor® Embedded Inflexion® UI enables the creation of rich and dynamic UIs on your Android product by utilizing a powerful drag and drop PC tool. Inflexion is ideal for those looking to quickly and easily create highly differentiated user interfaces. Whether a complete UI replacement, or just a few key screens, Inflexion makes sure that your product truly stands out from the crowd. Along with the PC tool, Inflexion includes a powerful graphics engine that utilizes the OpenGL ES graphics accelerator available on your TI device, which ensures that you get the best out of your available silicon. To find out more visit *mentor.com/Inflexion*

More about Mentor Embedded

The Mentor Graphics Embedded Software Division (ESD) comprises the Mentor Embedded family of products and services, including embedded software IP, tools, and professional consultant services to assist developers and silicon partners optimize their products for design and cost efficiency. Mentor Embedded continues to lead the industry with involvement in the open source community (Linux®, Android, and Tizen) and in innovations such as Android beyond mobile handsets, advanced 2D and 3D UI development, open source tools, and multi-OS on multicore architectures.

For additional information please contact:
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For the latest product information, call us or visit: www.mentor.com/embedded

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