



## **TRANGO Hypervisor runs secure Windows CE environment on wireless and multimedia single core platforms**

October 4, 2006 – Santa Clara, CA, USA – ARM Developers Conference: Embedded processor virtualization leader TRANGO Virtual Processors announces the release of Windows CE 5.0 for TRANGO, the first real-time hypervisor to secure execution of Windows CE 5.0.

At ARM Developers Conference, TRANGO Virtual Processors demonstrates ARM926 and XScale single core platforms running securely three different subsystems environments: one real-time OS for the modem, one Linux and Qtopia stack for the operator, and one Windows CE stack where the user can download new games and drivers.

Key value that TRANGO hypervisor provides semiconductor and handset manufacturers with is the ability to build up secure and scalable platform.

From a single core platform, TRANGO hypervisor creates virtual processors and their isolated execution environments on the top of which an Operating Systems, Real-Time OS or some applications can run. TRANGO hypervisor thus allows multiple execution environments to run securely side by side on the same processor core, which, as a result, enables to cut costs by using a single CPU core instead of 2 or more.

This virtual processor architecture, created by the 20KB TRANGO hypervisor, is fundamental to build up a security architecture at the core of the hardware platform. TRANGO secure and real-time virtualization technology offers a safe environment for implementing services such as DRM, secure download, device management or mobile payment and thus enables operators and content providers generate new revenues and services.

“Our technology to host, securely, multiple execution environments and software stacks is one major competitive advantage of TRANGO hypervisor in the embedded virtualization market. Isolation of rich OS, like Windows CE, and trusted services, like DRM, firmware update or payment applications, is highly critical for operators to deploy new services on next generation wireless and multimedia handsets”, according to Andry Ramiandrasoa, Marketing Manager at TRANGO Virtual Processors.

Increasing hardware platform support for trusted execution environments is part of Open Mobile Terminal Platform (OMTP, [www.omtp.org](http://www.omtp.org)) organization goal. Software attacks, like virus or trojans, as well as hardware-assisted attacks are one of the main concern when deploying new services on high-volume multimedia or wireless devices, when these services are revenue-critical for operators, content providers or software/hardware vendors.

TRANGO / ARM product today supports ARMv5 and MIPS32 / MIPS64 embedded architectures, ARMv6 being announced for Q1 2006. Through partnerships with software and

OS partners, Linux, Windows CE 5.0, as well as eCos and  $\mu$ C/OS-II are available for TRANGO / ARM virtual processor architecture.

Working close to worldwide leading semiconductors and handset manufacturers and mobile operators as well, TRANGO Virtual Processors is headquartered in Grenoble, FRANCE and has sales and support offices in US and Japan.



**PRESS CONTACT**

**Andry Ramiandrasoa**  
press@trango-vp.com

**TRANGO Virtual Processors**

22, avenue Doyen Louis Weil - 38000 Grenoble

Tél : +33 4 76 12 28 45

<http://www.trango-vp.com>