



## **USIP® AND TRANGO ALLIANCE:**

### **THE FIRST PCI-PED READY SINGLE-CORE SOLUTION THAT EASES NON-SECURE OPEN OS INTEGRATION**

**La Ciotat and Grenoble, France, May 02, 2007** – INNOVA CARD, a leading provider of secure hardware and software solutions for trusted terminals and TRANGO Virtual Processors, a leading provider of embedded processor virtualization IP, have teamed up to provide the first PCI-PED ready single-core solution that eases non-secure open OS integration.

The system that combines INNOVA CARD's well-known USIP® chip and TRANGO's secure virtualization software was recently assessed by an independent PCI-PED laboratory. The evaluation report concludes that the USIP® and TRANGO Hypervisor combination inherently assists Vendors in meeting many of the security requirements for PCI-PED approval.

This innovative solution responds to the constraints the payment terminal market imposes: It meets time-to-market and cost pressures while being at least as secure and ready for certification as dual-core or dual-chip solutions.

This joint solution enables a secure application such as the PIN entry process to run in its own execution environment, concurrently and fully isolated from a non-secure OS (e.g. Linux, Windows® CE). It protects against physical and software attacks, secures the access to peripherals and memories, and guarantees the critical code's integrity.

Based on the MIPS32® 4KSd™ core, the USIP® plus TRANGO secure virtualization solution is fully designed for security. USIP® integrates leading-edge hardware security mechanisms such as a MMU, cryptographic features, physical countermeasures and a secure boot loader. The TRANGO Hypervisor provides multiple Virtual Processors, which simultaneously and securely run multiple, diverse, OSs and applications. USIP® and the TRANGO Hypervisor enables higher security levels than a dual-core or dual-chip solution by scaling to more than two execution environments.

"INNOVA CARD and TRANGO Virtual Processors share the same strategic vision: security is not a patch or an add-on; it has been fully integrated into USIP® and the TRANGO Hypervisor from the very beginning. So it is natural that the combination of these two products leads to a high-end security solution", said Grégory Romé, Security Project Leader at INNOVA CARD. "The extremely positive PCI-PED evaluation results are a natural outcome of the solid collaboration between the two companies."

"We are very pleased with these evaluation results", said Bruno Zoppis, Product Manager of TRANGO Virtual Processors.

"INNOVA CARD and TRANGO have jointly demonstrated that terminal manufacturers can now run secure applications and open Operating Systems and reach high certification levels through the use of a single-chip/single-core platform, without resorting to a costly additional security chip or dedicated core."



#### **About INNOVA CARD**

Founded in 2002 in France, INNOVA CARD develops and markets complex Systems-on-Chip and secure hardware and software solutions for a variety of trusted terminals (EFTPOS, PINPAD, smart card readers, etc.) and applications (payment, healthcare, transportation, tax control, etc). INNOVA CARD's solutions are based on USIP® Professional IC, the most secure and integrated platform (EMV and PCI-PED compliant). INNOVA CARD is the only company that offers global solutions to support terminal manufacturers from the design to the production and achieves with its technology an advanced security level.

For further information, visit <http://www.innova-card.com>.

#### **About TRANGO Virtual Processors**

TRANGO Virtual Processors is a leading provider of embedded processor virtualization solutions, licensing TRANGO Hypervisor IP to major semiconductor and device manufacturers. The company helps customers create robust security architectures, deploy new value-added services, and reduce development costs as well as bill-of-materials.

Headquartered in Grenoble, France, TRANGO Virtual Processors has sales and support offices in the US, Europe, and Japan. For more information, please visit: <http://www.trango-vp.com>

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