Synopsys and Truphone Enable Secure Over-the-Air Provisioning with Integrated SIM IP and Managed Services Solution

DesignWare tRoot HSM IP for iSIM and Truphone Io3 Managed Services Deliver Secure Mobile Connectivity to Cellular IoT Devices

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Highlights:

- DesignWare tRoot HSM IP with Root of Trust provides designers with a Trusted Execution Environment that protects sensitive information and data processing
- New DesignWare tRoot HSM IP for iSIM integrates Truphone software to enable secure, over-the-air remote provisioning and operating system updates
- GSMA-accredited Truphone Io3 Platform offers device makers and network operators complete control over the lifecycle of iSIM-enabled devices
- Migrating from discrete SIM cards to an embedded iSIM solution reduces area, power, and cost

Synopsys, Inc. (Nasdaq: SNPS) and Truphone today announced a collaboration to integrate Truphone's embedded SIM (eUICC) software into the DesignWare® tRoot™ Hardware Secure Module (HSM) for integrated SIM (iSIM)to protect device connectivity and management. The new Synopsys tRoot HSM for iSIM reduces the area, power, and cost of Internet of Things (IoT) devices that require secure, unique identification and authentication. The Truphone Io3 Platform's remote SIM provisioning service, built to support the Global System for Mobile Communications Association (GSMA) Embedded SIM Specification, offers a suite of intelligent systems to manage iSIM-enabled products throughout their lifecycle. Synopsys' tRoot HSM for iSIM, combined with Truphone's Io3 Platform and SIM technology, provide the necessary hardware, software, and services needed to enable mobile network operators and product manufacturers to securely connect and manage devices in worldwide cellular networks.

"Truphone's unique SIM technology, which has been integrated into the Synopsys tRoot HSM IP, enables devices to come ready for cellular connection. Through Truphone's Io3 Platform, devices can be connected to any network in the world—out of the box," said Steve Alder, chief business development officer at Truphone. "Together, we are enabling an open ecosystem that removes the cost and complexity of distributing physical SIMs and makes the job of connecting devices much simpler. For the IoT, this opens up significant opportunities to simplify access to mobile networks and makes the mobile IoT viable for many new use cases."

"Building secure, cellular connected IoT devices requires SIM hardware that works hand-in-hand with remote provisioning services to enable secure in-field updates," said John Koeter, vice president of marketing for IP at Synopsys. "Our new DesignWare tRoot HSM for iSIM provides a pre-verified hardware and software solution, including SIM software from Truphone, that enables cellular connectivity in a consumer or IoT device while protecting the SoC against malicious attacks."

DesignWare tRoot HSM

The tRoot HSM integrates a DesignWare ARC® SEM110 Security Processor with SecureShield™ technology, which provides advanced security features to protect against side-channel attacks. The tRoot HSM includes both software- and hardware-accelerated cryptography options, as well as secure instruction and data memory controllers that provide confidentiality and authenticity for non-trusted memory accesses. The tRoot HSM's security features are complemented by a NIST-validated cryptography library and secure boot support. By providing the integrated and configurable tRoot HSM, Synopsys enables SoC designers to implement an area- and energy-efficient programmable root of trust that protects high-value targets against malware, tampering, and exploitation of communication protocols.

Truphone Io3 Platform

Truphone's Io3 platform greatly simplifies how devices connect to mobile networks. Its comprehensive and robust coverage includes multiple network operators for each region and provides access to all network types on demand. Global eSIM and remote SIM provisioning services enable secure, out-of-the-box mobile connectivity for all devices. Io3 is an open ecosystem providing bootstrap connectivity and services to enable seamless installation of any mobile operator profile.

Availability and Resources

The DesignWare tRoot HSM for iSIM is scheduled to be available in Q4 2018. Truphone's Io3 remote provisioning services are

available now.

- DesignWare Security IP Solutions
- Truphone Io3 Connectivity

About Truphone

Truphone believes that connectivity can be easier, sharper and more efficient. Since 2006, we have built state-of-the-art SIM software, intuitive management platforms and a powerful global network to make this a reality.

Every day, our technicians engineer better connections between things, people and business to make the world smarter. Headquartered in London, we have 12 offices across four continents and continue to expand globally. To learn more, visit www.truphone.com.

About Synopsys

Synopsys, Inc. (Nasdaq: SNPS) is the Silicon to Software™ partner for innovative companies developing the electronic products and software applications we rely on every day. As the world's 15th largest software company, Synopsys has a long history of being a global leader in electronic design automation (EDA) and semiconductor IP and is also growing its leadership in software security and quality solutions. Whether you're a system-on-chip (SoC) designer creating advanced semiconductors, or a software developer writing applications that require the highest security and quality, Synopsys has the solutions needed to deliver innovative, high-quality, secure products. Learn more at www.synopsys.com.

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