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**Title:** WID for Trusted Open Platforms in 3G  
**Source:** Intel, T-Mobile, Toshiba, Gemplus, Motorola, RIM, Verisign  
**Agenda item:** TBD  
**Document for:** Approval

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**Work Item Description**

**Title: Trusted Open Platforms in 3G**

**1. 3GPP Work Areas**

	Radio Access
	Core Network
X	Services

**2. Linked work items**

WLAN interworking security WID  
UE Management  
User Equipment Functionality Split  
Subscription Management

**3. Justification**

Securing the storage, processing, and input and output of sensitive data on an Open Platform<sup>1</sup> is of critical importance. Also, isolation of applications that are managing (U)SIMs and (U)SIM readers, EAP-SIM and EAP-AKA protocols, and SAP applications from Trojans that can attack such applications and spoof sensitive identities is imperative. Protecting the interface between the Open Platform and the UICC is also of critical importance.

Therefore, it is very much desirable that the Open Platform must have secure authentication and authorization mechanisms to protect against eavesdropping, and malicious modification of user data and operator applications residing on the Open Platform.

Consequently, for the diverse 3GPP usage models of the Open Platform, such as the ones described in 3GPP TS 33.234, appropriate trust requirements need to be specified to counteract the threats. This work item suggests to study and evaluate the trust requirements, study the issues and further develop the additional trust requirements for the usage models described in 3GPP.

<sup>1</sup>

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<sup>1</sup> Open Platform

An Open Platform is a computing platform with an architecture that allows users to upgrade their hardware and/or update the software running on that platform. This open architecture makes the platform vulnerable to an increasingly-sophisticated number of hardware and software attacks on the platform.

#### 4. Objectives

- To investigate relevant trust standards and technologies, both existing as well as the ones that are work-in-progress.
- To develop the open platform trust requirements for delivery of new applications and services to open platforms. Such new applications and services include the 3GPP-WLAN Interworking usage models described in 3GPP TS 33.234.
- To achieve the following characteristics for the Open Platform in 3GPP environment:
  - **Trusted** – the Open Platform acts in a recognized manner and is able to communicate in that manner as supposed to be.
  - **Reliable** – the Open Platform is readily available for transactions and communications, as well as prepared to act against viruses and other intrusions (intrusion prevention and detection).
  - **Protected** – the Open Platform shares information with only those that need to know within commonly accepted parameters for computer privacy.

The results of the study will be in the form of TR that will contain requirements for trusted open platforms.

#### 5. Service Aspects

The trust requirements for key 3GPP and WLAN setting procedures need to be studied.

#### 6. MMI-Aspects

New trust requirements, which also cover trusted applications and operating systems, may affect the traditional Man Machine Interface.

#### 7. Charging Aspects

Charging may be affected, and its effects have to be studied. However SA5 may have to look at these effects.

#### 8. Security Aspects

This is a Security item.

#### 9. Impacts

**Although the end deliverable is a TR, the results, if adopted, could possibly impact the TS/elements in the following table.**

Affects:	UICC apps	ME	AN	CN	Others
Yes	X	X			
No			X	X	
Don't know					X

**10. Expected Output and Time scale (to be updated at each plenary)**

Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary #	Comments
TR xx.yy	Work Item Description for "Trusted Open Platforms in 3G"	SA3		SA Plenary # 26 (Athens, Greece. December 2004)		Make full TR ready for submission and informational presentation to this SA Plenary.
				SA Plenary # 27 (Tokyo, Japan. March 2005)		Make full TR ready for submission and approval to this SA Plenary.
Affected existing specifications*						
Spec No.	CR	Subject		Approved at plenary#	Comments	

\* **Note:** It is expected that a complete list of affected existing specifications will be gathered as a part of the TR development work.

**11. Work item rapporteurs**

Selim Aissi, Sundeep Bajikar, *Intel Corporation*.

**12. Work item leadership**

SA3.

**13. Supporting Companies**

Intel, T-Mobile, Toshiba, Gemplus, Motorola, RIM, Verisign.

**14. Classification of the WI (if known)**

TBD.