Technical Specification Group Services and System Aspects **TSGS#26(04)0863**
Meeting #26, Athens, Greece

3GPP TSG SA WG3 Security ó SA3#35 **S3-040843**
October 5-8, 2004
St Paul's Bay, Malta

Title: WID for Trust Requirements for Open Platforms in 3GPP

Source: SA WG3 (agreed at SA WG3 meeting #35)
Agenda item: 7.3.3
Document for: **Approval**

Work Item Description

Title: Trust Requirements for Open Platforms in 3GPP

1. 3GPP Work Areas

	Radio Access
	Core Network
X	Services

2. Linked work items

WLAN interworking security WID
UE Management
Subscription Management

3. Justification

Securing the storage, processing, and input and output of sensitive data on an Open Platform[1] is of critical importance. Also, isolation of some applications (e.g., applications that are managing (U)SIMs and (U)SIM readers), and protocols 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 critcal 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.

[1] Open Platform
An Open Platform is a computing platform with an architectues 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** ñ the Open Platform acts in a recognized manner and in able to communicate what that manner is supposed to be.
    - **Reliable** ñ 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** ñ the Open Platform is 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 effect the traditional Man Machine Interface.

7. Charging Aspects

Charging will probably not be affected, however SA5 may have to look at any possible effects.

8. Security Aspects

This is a Security item.

9. Impacts

Although the end deliverable is a TR, the results, if adopted, could possible 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 ìTrust Requirements for Open Platforms in 3GPPî	SA3		SA Plenary # 26 (Athens, Greece. December 2004)		Make WID ready for submission and informational presentation to this SA Plenary.
	Technical Report for ìTrust Requirements for Open Platforms in 3GPPî			SA Plenary # 27 (Tokyo, Japan. March 2005)		Make TR ready for informational submission and presentation to this SA Plenary.
	Technical Report for ìTrust Requirements for Open Platforms in 3GPPî			SA Plenary # 28 (Quebec, Canada. June 2005)		Make full TR ready for submission and approval to this SA Plenary.

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments

11. Work item raporteurs

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.