Source: T3

Title: New work item description for "Definition and specification of a Transport Protocol for the USIM application"

TSG WG3 - Work Item:
"Definition and Specification of a Transport Protocol for the USIM application"

Justification and scope

The Bearer Independent Protocol introduced in TS 31.111 R99 allows the (U)SIM application to use any available bearer in the ME (CSD, HSCSD, GPRS, …) to communicate with its network operator. This Bearer Independent Protocol is defined as a set of proactive commands and events allowing to open and close communication channels and emission/reception of data by the (U)SIM application. The Bearer Independent Protocol obviously inherits the properties of the bearer and the bearer's protocol stack it uses and may stand on top of unreliable and insecure transport protocols (such as UDP) that provide neither acknowledgement, nor segmentation/re-assembly, nor retransmission of messages, nor end-to-end security.

As a consequence we will define a transport layer specific to the (U)SIM application which:

- provides a received/emitted data management upper (U)SIM layers and operator USAT applications;
- can compensate the possible shortcomings of bearer transport protocols concerning acknowledgement, retransmission, segmentation and re-assembly functionalities;
- allows the implementation of a security layer on top of it, one of these implementations being the mechanisms defined in TS 03.48.

Existing widely-used transport protocols may be an input for this work item.

A 3GPP Technical Specification will be elaborated. Some CRs may also be needed in TS 03.48.

3GPP work area

WG3 (USIM).

Linked work items
None.

Service aspects
None

MMI-aspects

None.

Charging aspects

None.

Security Aspects

None (NB : the mechanisms defined in 03.48 will be re-used)

Impacts

Affects:	USIM	ME	NW	Others
Yes	X			
No		X	X	
Don't know				

Expected Output and Timescales

TSG adoption of WI	June 2001
Start of work	May 2001
First draft, reviewed by TSG-T	September 2001
Approval of technical specification by TSG-T	December 2001

Work item rapporteur

Sonia Compans (Gemplus)

Supporting companies

Gemplus, Schlumberger, France Telecom, Vodafone, Mitsubishi Electric Telecom Europe, Alcatel, Mobile-Mind.

Primary responsible working party

3GPP TSG-T WG3

Secondary responsible working parties

3GPP TSG-T WG2

Others

Additional security aspects will be handled with close cooperation with 3GPP TSG-SA WG3.