3GPP TSG SA WG3 Security — S3#18   **S3-010194**

21 - 24 May, 2001

Phoenix, USA

3GPP T3 Meeting #19   *Tdoc T3-010443*
St John, US VI, 8 - 11 May, 2001   *(revised from T3-010400)*

Liaison Statement

Source: TSG-T3

To: TSG-SA1, TSG-T2

Copy: TSG-S3

Subject: LS on New feature for SAT originated SMS

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During its May meeting, 3GPP-T3 examined a proposal to standardise a new feature, called "Toolkit originated SMS".

The idea is to allow toolkit applications to send SMS to the terminal, where the terminal would process the SMS as if received from the network.
See the attached presentation (Tdoc T3-010303) for example of applications and further details.

T3 kindly invites S1 and T2 to comment on that proposal, on the service requirements concerning this feature, MMI aspects and on the possible linked Work Items.

It would be the intention of T3 to standardise this feature for Release 5.

Att: T3-010303.ppt

3GPP-T3 Meeting#19
St John, USVI, 8-11 May 2001

Tdoc T3-010303

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Presentation on :
(U)SAT applications sending SMSs
to the phone
(linked with Tdoc T3-010275)

Handsets manage various types of SMS

- Mobile handsets integrate more and more Enhanced Features using SMS such as:
    - Regular SMS management
    - WAP push
    - WAP Parameters provisioning
    - Ringing tones and Icons
    - V-Cards & V-Calendar messages
    - And coming soon: EMS

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(U)SAT Applications lack features

- Very few commands are available to toolkit applications to manage the phone interface
- Future services require that toolkit applications have full access to the handsets enhanced features
- There are 2 ways to do that:
  - Implement all the specific features between the SIM and the Handset however this might be complicated
  - OR allow the UICC to send an SMS to the Handset thus leaving the specific features on the Handset and in the same process inherit all of these features

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Enhancing
the SIMs functions

1. The service provider delivers various types of content over SMS PP & CB

2. The UICC receives the message and before transferring it back to the Handset it performs enhanced functions such as :

   - Access control

   - Encryption

   - Custom applications

   The UICC decides whether or not to send the message back to the handset

3. The Handset gets the message back from the UICC and manages it like any other SMS :

   - Text Message

   - Wap Provisioning, Icon/Ringtone

   - EMS

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CR in Tdoc T3-010275: Implications

- The handset can receive an SMS from the Network OR… from the UICC

- The UICC can perform several operations with SMS content

- This reduces work effort to implement functions because the Handset only needs to manage SMS messages

- STK applications also inherit all actual SMS applications (Ring tones, WAP provisioning…), for CB and PP.

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Application Examples

- **Message encryption (SMS PP&CB)**
  - **The UICC decrypts the message before sending it back to the Handset for display**

- **Secure WAP provisioning**

- **Secure Content download**
  - **The UICC stores the access rights to specific content**

- **Enhanced display capabilities**
  - **The UICC takes advantage of the Handsets display capabilities such as pictures with text**

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