



## TRUSTED COMPUTING GROUP

### Mobile Phone Work Group – Selected Use Case Analyses v1.0

The rationale for analyzing a selection of use cases (as an annex to the Mobile Use Case Scenarios v2.7 published in September 2005) is as follows:

- To show how the various mobile phone stakeholders (e.g. users, manufacturers, operators, service providers) benefit from a TCG-compliant mobile platform;
- To identify required security mechanisms (mapped onto existing Mobile Trusted Module - MTM - commands) in a mobile phone implementation that support the use cases;
- To bring the use cases closer to potential implementation.

The use case selection has been made with a prioritization on use cases whose security requirements are typical for a mobile phone:

- **Platform integrity** is a basic requirement for many use cases. The mobile phone working group has focused on analyzing aspects of the platform integrity use case relevant to mobile phone personalization, software flashing and software version handling.
- **SIMLock** is about ensuring that a mobile device remains locked to a particular mobile network (or network subset, service provider, corporation or individual (U)SIM) until it is unlocked in an authorized manner. The mobile phone working group has focused on analyzing how SIMLock security can be enhanced in particular by mapping to MTM concepts.
- A **secure channel** is needed to achieve end-to-end protection for the communications between a smartcard and a mobile phone. The mobile phone working group has focused on analyzing how TCG mechanisms can be used to increase the security of the mobile phone end of the UICC-to- mobile phone secure channel.
- While TCG specifications do not provide all of the necessary technical elements required for **DRM**, the mobile phone working group has analyzed, in the context of OMA DRM 2.0, how some related threats could be mitigated by systems with MTMs.
- **Mobile Ticketing** is an electronic ticketing service where the proof of access or usage right to a particular service is controlled by a mobile phone. The mobile phone working group has focused on analyzing the scheme whereby the ticket is a protected electronic object in the mobile phone.
- Many different **mobile payment** systems have been deployed and much effort has been put into their development over the last ten years; the mobile phone working group has focused on analyzing how Near Field Communication (NFC) in conjunction with MTM concepts can bring about an evolutionary step forward in mobile phone payment systems.
- Protection of the **user's data and privacy** is essential. The mobile phone working group has focused on analyzing how MTM functionality can be leveraged to enhance data protection and privacy on a mobile phone.

The TCG Mobile Phone Work Group is chaired by Mr. Janne Uusilehto who is also Head of Nokia Product Security.

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