Suggested Terms of Reference
for
3GPP - System Aspects TSG - Security WG

To build on the work already undertaken for UMTS by ETSI SMG 10, ARIB, T1P1, TTA, TTC in order to

1. Determine the objectives and priorities for UMTS security taking into account the needs and aspirations of users, operators, regulators and manufacturers.
2. Accommodate, as far as is practicable, any regional variations in security objectives and priorities for 3GPP partners.
3. Ensure that a threat analysis for UMTS is conducted.
4. Detail the security requirements for UMTS - this to include, but not necessarily be limited to, security requirements for services, billing and accounting, operations and maintenance, and fraud control.
5. Detail the security requirements for the physical elements of UMTS - this to include, but not necessarily be limited to, security requirements for the radio access network, the core network and its interfaces to non-UMTS networks, terminals, UIM and interfaces between UMTS systems.
6. Define a security architecture for UMTS which will satisfy the security requirement and align with the UMTS system architecture.
7. Produce a time and milestones plan for the introduction of the various elements of the security architecture which is in line with the security priorities and the phasing of UMTS.
8. Produce specifications for all the elements in the security architecture - the controls, protocols and functions.
9. Produce specifications for the operations and management of the security elements.
10. Produce requirements specifications for any cryptographic algorithms needed for the security elements.
11. Ensure the availability of any cryptographic algorithms which need to be part of the common specifications.
12. Define how the specifications for the security elements are to be integrated into the radio access, core network, terminal, UIM, O&M and other relevant specifications produced by 3GPP, and to assist with that integration.
13. Detail the requirements for lawful interception in UMTS, and produce all specifications needed to meet those requirements.
14. Produce guidelines on the use of the UMTS security features, including any requirements for operator specific algorithms.
15. Produce guidelines on the limitations of UMTS security, and of the implications of not activating the security features that are provided.
16. Detail requirements that are related to the processing of personal data and privacy, and ensure that UMTS specifications meet them.

Draft contribution to 3GPP - System Aspect TSG, produced by ETSI SMG 10 during its meeting on 17-20 November 1998