

Telecommunications and Information Exchange Between Systems

ISO/IEC JTC 1/SC 6

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Terms of Reference for The SC6/WG1 Study Group on Harmonization of NFC and 14443

1. Scope

Study the harmonisation between the proximity and vicinity cards standards of SC17 (e.g. ISO/IEC 14443, ISO/IEC 15693) and the SC6 standards on NFC (e.g. ISO/IEC 18092, ISO/IEC 21481) including their test standards and make recommendations thereto. This also encompasses the documents proposed to become standards.

2. Organisation of the work

The SG will start from justifications using e.g. overlapping use-cases that require communication between 14443 and 18092/21481 devices. Then the SG will identify a list of requirements for the harmonisation of the different layers and modes of operation. This list of requirements will give rise to a list of recommendations for further standardisation. The SG will suggest appropriate tasks to SC 06, SC 17 or SC 31 according to their scopes.

Contributions from liaison organisations, member bodies and experts will be taken into account.

3. SG deliverables

The SG will launch a call for editors for the following deliverables as noted in 2:

D1: Use-cases;

D2: list of requirements;

D3: list of recommendations.

The SG plans to provide these deliverables latest within one year following approval of their terms of reference.

4. Initial list of technical points to be addressed

RF test methods for NFC-devices/PICC/PCD (10373-6).

Consideration of technical points related to battery powered devices: Antenna size, field strength, power-saving.

Harmonisation of Terms, definitions and common requirements and if possible use references rather than copying text.

Technology mode detection and switching,

Mechanisms to enhance the capability exchange of ISO/IEC 14443 to support services offered by 18092/21481, and vice versa.

Study commonalities and differences between the NFC-SEC and the 7816 security models.