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**Summary Report of the Ad Hoc Meeting of ISO/IEC JTC1/SC17 and JTC1/SC6
on the harmonization of the NFC standards and ISO/IEC 14443,
held at the DIN Headquarters in Berlin on 2008-09-03/04
(Revision 1)**

The meeting was hosted by and held at the headquarters of DIN. It was chaired by the SC17 Liaison Officer to SC6, Mr. Michael Hegenbarth, Germany.

The following 17 participants from 8 countries and from 1 Liaison Organization, in addition to 1 SC6 Liaison Representative and the SC17 Secretary attended the meeting:

Austria:	Mr. Gerhard Raimann
Finland:	Mr. Rune Lindholm
France:	Mr. Jean-Paul Caruana
Germany:	Mr. Klaus Finkenzeller Mrs. Ulrike Haltrich Mr. Peter Raggam
Israel:	Mr. Mickey Cohen
Japan:	Mr. Katsuhisa Hirokawa Mr. Hiroshi Karibe Mr. Mikio Mukai Mr. Kenichi Nakamura Mr. Yoshihisa Takayama
U.K.:	Mr. Karl Brookes
U.S.A.:	Mr. Ed Barrett
Visa Europe:	Mr. David Main
SC6 Representative:	Mr. Reinhard Meindl
SC17 Secretary:	Mr. Chris Starr

The meeting led to the following Recommendations for SC6 and SC17:

Recommendation 1: Harmonization

Harmonization is understood as making modifications/additions, if necessary, in the NFC standards (ISO/IEC 18092, 21481, 22536, 23917) and the 14443 standards (ISO/IEC 14443, 10373-6), so that interoperability of their interfaces is enhanced. This is relevant to common requirements which are supposed to be technically equal or similar both in NFC and 14443 standards.

Recommendation 2: Confirmation of the intention for harmonization

Based on the submitted comments and requirements gathered in SC6 N 13641 = SC17 N 3513 and related documents referenced in that document, and the detailed discussions of this meeting the NBs' delegates of the adhoc meeting confirm the need for such harmonization between the NFC and 14443 standards.

Recommendation 3: Reasons for harmonization activities

Sufficient reasons are seen to start harmonization activities due to the following:

- Vocabulary and terms

It is seen helpful to provide a cross-reference table for better mutual understanding

- Similarities

To identify specification topics which are supposed to be technically equal or very similar both in NFC and 14443, and to deal with inconsistencies, duplications and missing items.

- NFCIP2 (ISO/IEC 21481)

To identify missing requirements in NFCIP2 to optimize NFC/14443 interoperability.

- Test methods

Those test methods being relevant for the interoperability between NFC and 14443 have to be identified and be evaluated whether they fulfil the requirements for verifying interoperability between NFC and 14443. Maybe test methods (including reference equipment) have to be modified or developed in order to complete the set of test methods doing the intended job.

This list is not seen as exhaustive.

Recommendation 4: Considered work methods for harmonization

The following work methods are seen as appropriate for the harmonization activities:

- Appointment of Liaison Officers on either side of SC6 and SC17
- Mutual exchange of documents and representing interests from SC6 and SC17/WG8 via those Liaison Officers.
- Technical proposals, based on prior investigations, may result in change requests, NWIs, amendment proposals, revisions, or common specifications. For a possible approach see HN 012 (attached to this report).
- In addition, the organization of several adhoc expert meetings might be appropriate to accelerate the process.

Recommendation 5: Endorsement by SC6 and SC17

The delegates of the adhoc meeting recommend that SC6 and SC17 take the necessary steps to ensure that the harmonization process continues based on the above Recommendations 1 to 4.

Note:

NBs should consider the outcome of this report as a first step done by the delegates of this meeting. It is assumed that NBs will further discuss the matter nationally.

Host Appreciation

The delegates of the adhoc meeting expresses its sincere thanks and gratitude to DIN its kind invitation to hold the adhoc meeting at its headquarters. In particular the delegates thank Dr. Nikolaus Kovacs and his team Mrs. Nicole Bernau and Mr. Ronald Haude for their provision of excellent arrangements during the meeting.

ISO/IEC JTC 1/SC 17
"14443"
ISO/IEC 14443, 10373-6

ISO/IEC JTC 1/SC 6
"NFC"
ISO/IEC 18092, 21481, 22536, 23917

SC 17 Plenary Meeting 2007 in Berlin
RESOLUTION 589/07

SC 6 Plenary Meeting 2008 in Geneva
RESOLUTION 6.1.8

**SC 17 and SC 6 Ad Hoc Meeting
on the Harmonization**
Call for Experts / Contributions

Form International Consensus
for the Harmonization
through Liaison Activities

NWIP for Approval by SC 17
Amendment(s) / Revision of "14443"
for the Harmonization

NWIP for Approval by SC 6
Amendment(s) / Revision of "NFC"
for the Harmonization

**Amendment(s) / Revision
of "14443"**
for the Harmonization

**Amendment(s) / Revision
of "NFC"**
for the Harmonization

**SC 17 and SC 6 Ad Hoc Meeting
on the Harmonization**
Confirmation of the Results

Assumed General Flow of Harmonization Activities
(Revised in the first Ad Hoc Meeting on 2008-09-04)