Telecommunications and Information Exchange Between Systems

ISO/IEC JTC 1/SC 6

Document Number:	N14296
Date:	2010-05-10
Replaces:	
Document Type:	National Body Contribution
Document Title:	NB of Japan's contribution on the 6N14261, First Working Draft of ISO/IEC 21481, Information technology — Telecommunications and information exchange between systems — Near Field Communication Interface and Protocol -2 (NFCIP-2)
Document Source:	National Body of Japan
Project Number:	
Document Status:	For consideration at the WG 1 Ad hoc meeting in Croatia.
Action ID:	FYI
Due Date:	
No. of Pages:	2

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JNB Comments on 6N14261; the first working draft of ISO/IEC 21481:2010

1. VICC mode

JNB agrees not to mandate VICC with following reasons.

1) The minimum RF field of ISO/IEC 15693 is defined as 0.15A/m, whereas the External RF Field threshold value is 0.1875A/m. Then when ISO/IEC 21481 compliant device is an initiator of NFC communication, it cannot detect the polling of VCD device with minimum RF field value. So the External RF threshold value should be re-considered.
2) The response time of VICC is defined as 320.9µs±2.3µs in ISO/IEC 15693 and the response timeout extension is not defined. It is very difficult for ISO/IEC 21481 device to respond within such short term.

2. Definition of PICC mode

It is supposed that some ISO/IEC 21481 devices are battery powered, so they can emulate PICC function without power supply from PCD. Moreover, it would be possible to realise much higher performance PICC function with internal battery power.

Therefore JNB recommends that PICC mode includes PICC emulation powered by battery as well as PICC emulation powered by PCD field.