

**Telecommunications and Information Exchange Between Systems**

**ISO/IEC JTC 1/SC 6**

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## **Corrigenda for 6N14149 (= 17N3828)**

**ISO/IEC 14443/NFC Harmonization Contribution to standardise requirements for interoperability of applications that are to be executed between ISO/IEC 14443 and ISO/IEC 21481 compliant devices**

**Japan Committee SC6 and SC17**

2009-12-08

## **Corrigenda**

The text and figure for *fc/64* and *fc/32* of Clause 3.3.2 Technology recognition in the new ISO/IEC 21481 was incorrect. They should be corrected by the corrigenda.

## [Incorrect]

### 3.3.2 Technology recognition in the new ISO/IEC 21481

*fc/64, fc/32* : at first the command from ISO/IEC 18092 Initiator is recognized as JIS X 6319-4 REQ, and responds by sending ATQ (Polling Response) with expecting NFCID2 prefix code. If prefix code is (01) then it indicates ISO/IEC 18092. If prefix code is (02) then it indicates JIS X 6319-4. See figure 9, the code (01) left side of NFCID2 in the Payload is the prefix.

Preamble (48 bit min.)	SYNC (16 bit)	Length (8 bit)	Payload			CRC (16 bit)
			(01)	NFCID2	Pad	

Figure 9 – Polling Response Frame format (Figure 1 of ISO/IEC 18092)

## [Correction]

### 3.3.2 Technology recognition in the new ISO/IEC 21481

*fc/64 and fc/32*:

#### • Polling Request Frame Format of ISO/IEC 18092

Polling Request of ISO/IEC 18092 has aka “System Code” (FF) (FF) that JIS X 6319-4 recognize as wild card.

#### • Polling Request Frame Format of the revised JIS X 6319-4

AFI: Application Family Identifier (See clause “8.5.2 System Code” of revised version of JS X 6319-4)

RC: Request Code (See clause “8.5.3 Request Code” of revised version of JS X 6319-4)

00: Do not request code

01: Request “System Code” in the Polling Response (optional)

02: Request “Data transfer speed capability” in the Polling Response (optional)

03 to FF: RFU

#### • Polling Response Frame format of ISO/IEC 18092

NFCID2: 8 bytes number consists of the prefix code (01FE) followed by 6 bytes of random number.

Pad: shall be ignored for data interchange.

#### • Polling Response Frame format of the revised JIS X 6319-4

PICC ID: 8 bytes number consists of the prefix code (02FE) followed by 6 bytes of number.

Parameter: if Request Code is (00) then parameter is 8 bytes of response time descriptor (mandatory).

if Request Code is (01) then parameter is 8 bytes of response time descriptor and may add System Code.

if Request Code is (02) then parameter is 8 bytes of response time descriptor and may add Capability.

Preamble (48 bit min.)	SYNC (16 bit)	Length (8 bit)	Payload					CRC (16 bit)
			(00)	(FF)	(FF)	(00)	TSN	

Polling Request Frame format (Figure 20 of ISO/IEC 18092)

Preamble (48 bit min.)	SYNC (16 bit)	Length (8 bit)	Payload					CRC (16 bit)
			(00)	(AA)	AFI	RC	TSN	

Polling Request Frame format (Figure 12 of revised JIS X 6319-4)

Preamble (48 bit min.)	SYNC (16 bit)	Length (8 bit)	Payload			CRC (16 bit)
			(01)	NFCID2	Pad	

Polling Response Frame format (Figure 21 of ISO/IEC 18092)

Preamble (48 bit min.)	SYNC (16 bit)	Length (8 bit)	Payload			CRC (16 bit)
			(01)	PICC ID	Parameter	

Polling Response Frame format (Figure 13 of revised JIS X 6319-4)

Figure 9