

1. 2 **DICOM Correction Item**

Correction Number		CP-378	
Log Summary: Add comparison with ISO-2022-JP-2 for Japanese character sets			
Type of Modification	Name of Standard		
Correct Value	PS 3.5 2003		
<p>Rationale for Correction</p> <p>PS 3.5 Section H.2, compares in informative text the use of the ISO 2022 code extension techniques in DICOM and the Internet practice of ISO 2022-JP.</p> <p>There exists an additional, less frequently used, Internet practice referred to as ISO-2022-JP-2. ISO-2022-JP-2 is similar to ISO-2022-JP and the code extension techniques used in DICOM, with one notable exception, the requirement to return to a single-byte character set before encoding a SPACE.</p> <p>This CP adds ISO-2022-JP-2 to the informative comparison of DICOM with Internet practice.</p>			
Sections of documents affected			
PS 3.5 Section: H.2			
Correction Wording:			

1. 4 **Add to PS 3.5 Section 2 Normative References**

1. 6 **RFC 1468 Japanese Character Encoding for Internet Messages**

Note: RFC 1468 is available from "<http://www.ietf.org/rfc/rfc1468.txt>".

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RFC 1554 ISO-2022-JP-2: Multilingual Extension of ISO-2022-JP

1. 10 **Note:** RFC 1554 is available from "<http://www.ietf.org/rfc/rfc1554.txt>".

1. 12 **Amend PS 3.5 Annex H Section H.2:**

H.2 INTERNET PRACTICE

1. 14 DICOM has adopted an encoding method for Japanese character sets that is similar to the method for Internet practice.

1. 16 The major protocols for the Internet such as SMTP, NNTP and HTTP adopt the encoding method for Japanese characters called "ISO-2022-JP" as described in RFC 1468, Japanese Character Encoding for Internet Messages.

1. 18 **There is also a less commonly used Internet practice called "ISO-2022-**

1. 20 **JP-2" described in RFC 1554, which supports a larger repertoire of**

1. 22 **character sets and additionally requires an escape to a single-byte**

1. 22 **character set before encoding a SPACE (unlike DICOM and ISO-2022-**

1. 22 **JP).**

1. 24 **The method of encoding Japanese character sets in DICOM is almost the same as ISO-2022-JP except for the following.**

The character sets supported for the Japanese language in DICOM and Internet practice are:

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DICOM	ISO-2022-JP	ISO-2022-JP-2
ASCII (ISO-IR 6)	ASCII (ISO-IR 6)	ASCII (ISO-IR 6)
JIS X 0201 Katakana (ISO-IR 13)	JIS-X 0201 Romaji (ISO-IR 14)	ISO8859-1 (ISO-IR 100)
JIS X 0201 Romaji (ISO-IR 14)	JIS X 0208-1978 Kanji (ISO-IR 42)	ISO8859-7 Greek (ISO-IR 126)
JIS X 0208 Kanji (ISO-IR 87)	JIS-X 0208- 1983 Kanji (ISO-IR 87)	JIS X 0201 Romaji (ISO-IR 14)
JIS X 0212 Kanji (ISO-IR 159)		JIS X 0208-1978 Kanji (ISO-IR 42)
		JIS X 0208-1983 Kanji (ISO-IR 87)
		JIS X 0212-1990 Kanji (ISO-IR 159)
		GB2312-1980 (ISO-IR 58)
		KSC5601-1987 (ISO-IR 149)

1. 4 Control Character sets supported in DICOM and Internet practice are:

DICOM	ISO-2022-JP and ISO-2022-JP-2
LF (00/10)	LF (00/10)
FF (00/12)	CR (00/13)
CR (00/13)	SO (00/14)
ESC (01/11)	SI (00/15)
	ESC (01/11)

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