

DCMTK - Conformance #1112

oficonv accepts Shift-JIS multi-byte characters when ISO_IR 13 (JIS X0201) is active

2024-03-07 11:41 - Marco Eichelberg

Status:	Closed	Start date:	2024-03-07
Priority:	Normal	Due date:	
Assignee:	Marco Eichelberg	% Done:	100%
Category:	Library and Apps	Estimated time:	2:00 hours
Target version:		Compiler:	
Module:			
Operating System:			
Description			
<p>Currently, the oficonv implementation of character set conversion will silently accept two-byte Shift-JIS characters when ISO_IR 13 (JIS X0201) is active as the current input character set. Shift-JIS is true superset of JIS X0201 (which by itself is a single-byte character set). DICOM does not support Shift-JIS. It would be preferrable thus if oficonv would report an error in these cases, like the GNU libiconv implementation does.</p> <p>In the attached sample file,</p> <ul style="list-style-type: none">• attribute (0010,4000) contains the byte sequence "b1\41\5c\1b\24\42\25\22\23\41\21\40", which is a valid ISO 2022 ISO_IR 13/ISO 2022 ISO_IR 87 string.• attribute (0020,4000) contains the byte sequence "b1\41\5c\83\41\82\60\81\5f". This generates the same Kanji characters though Shift-JIS codes, which are not allowed in DICOM. <p>Dump the file with dcmdump +U8 shift_jis_example.dcm to demonstrate the effect.</p> <p>Reported 2024-03-04 by David Gobbi <david.gobbi@gmail.com> and Mathieu Malaterre <mathieu.malaterre@gmail.com>.</p>			

History

#1 - 2024-05-25 16:38 - Marco Eichelberg

- Status changed from New to Closed
- % Done changed from 0 to 100
- Estimated time set to 2:00 h

Closed by commit #fb948a289.

Files

shift_jis_example.dcm	5.34 KB	2024-03-07	Marco Eichelberg
-----------------------	---------	------------	------------------