

DCMTK - Feature #750

JPEG-LS encoded image that cannot be decoded with dcmjpls

2017-04-07 09:18 - Marco Eichelberg

Status:	New	Start date:	2017-04-07
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Library	Estimated time:	0:00 hour
Target version:		Compiler:	
Module:	dcmjpls, dcmloco		
Operating System:			

Description

I have received a sample image encoded in JPEG-LS that cannot be decoded with DCMTK.

- dcmdjpls reports an error
- the old experimental implementation based on HP LOCO hangs while decoding

The image apparently comes from a PACS installation at a veterinary hospital.
The image can be decoded and displayed using the PACS viewer from J4CARE.

We should check whether this is a fault in the image or a bug in the JPEG-LS decoder, and whether it would be easily possible to add a workaround for this bug since apparently such images are used somewhere in the field.

The sample image (compressed and decoded by J4CARE) is available in
/share/dicom/contrib/20170406-j4care-jpeg-ls

History

#1 - 2017-04-07 11:12 - Marco Eichelberg

- Tracker changed from Bug to Feature

Here's a small program that shows how to fix this issue, which is apparently a well-known bug in the Java Advanced Imaging (JAI) JPEG-LS implementation:
<https://github.com/malaterre/GDCM/blob/master/Examples/Cxx/FixJAIBugJPEGLS.cxx>

Thanks to Mathieu Malaterre for this information!