# DCMTK - Bug #427

## JPEG Decoder does not report an error with malformed pixel data

2012-06-27 10:12 - Jörg Riesmeier

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|---|---|---|---|---|
| **Status:** | Closed | | **Start date:** | 2012-06-27 |
| **Priority:** | High | | **Due date:** | |
| **Assignee:** | Michael Onken | | **% Done:** | 100% |
| **Category:** | Library | | **Estimated time:** | 0:00 hour |
| **Target version:** | 3.6.2 | | | |
| **Module:** | dcmjpeg und andere? | | **Compiler:** | |
| **Operating System:** | | | | |

**Description**

see: http://forum.dcmtk.org/viewtopic.php?f=1&t=3475

Extract from the dump:

```
(0002,0010) UI =JPEGLossless:Non-hierarchical-1stOrderPrediction #  22, 1 TransferSyntaxUID
...
(7fe0,0010) OW fffe\e000\0000\0000\fffe\e000\b39a\0003\d8ff\c3ff\0b00\0210\0200... # 242610, 1 Pix
elData
```

Pixel data on the main dataset level is not encapsulated as Pixel Items. You won't get any warnings or errors from using dcmdjpeg on such a file, but the pixel data is not decompressed, since the decoder assumes that it is already decompressed (for instance in Icon Image Sequence).

The same problem will probably show up in other supported compression types in DCMTK.

**History**

### #1 - 2013-04-28 23:59 - Andrew Chiw

*- Subject changed from JPEG-Decoder meldet keinen Fehler bei fehlerhafter Kodierung der Pixel-Daten to JPEG Decoder does not report an error with malformed pixel data*

### #2 - 2013-10-24 10:05 - Jörg Riesmeier

Also see this posting: http://forum.dcmtk.org/viewtopic.php?f=1&t=3842&p=15299#p15299

### #3 - 2014-08-04 11:56 - OFFIS DICOM Team

*- Assignee set to Michael Onken*

If the transfer syntax is "encapsulated" and pixel data on main dataset level is "uncompressed" (e.g. length other than undefined), then the decoder should bail out with an error.

Note that uncompressed pixel data within a compressed dataset is permitted in the Icon Image Sequence, so this error should only be triggered on the main dataset level.

### #4 - 2017-01-10 18:41 - Jörg Riesmeier

*- Description updated*

### #5 - 2017-02-02 10:45 - Michael Onken

The forum posting denoted under bullet 2 (http://forum.dcmtk.org/viewtopic.php?f=1&t=3842&p=15299#p15299) refers to a different problem, which was handled in Bug #571.

### #6 - 2017-02-03 13:08 - Michael Onken

*- Status changed from New to Closed*

*- % Done changed from 0 to 100*

Closed with commit 1677f2.

Test files are found in OFFIS' (private) image collection under the related issue number.