

DCMTK - Bug #793

overflow error in calculation of decompressed image size

2017-09-28 15:14 - Marco Eichelberg

Status:	Closed	Start date:	2017-09-28
Priority:	High	Due date:	
Assignee:	Michael Onken	% Done:	0%
Category:	Library	Estimated time:	0:00 hour
Target version:		Compiler:	
Module:	dcmdata		
Operating System:			
Description			
<p>DcmPolymorphOBOW::createUint16Array() can create an array of incorrect size when a parameter is passed that would cause the creation of a buffer larger than 4 GBytes. The first parameter to this method is numWords, the number of 16-bit words to be allocated, as a Uint32 parameter. This means that it is possible to pass a value $> 2^{31}$, which would correspond to a buffer size > 4 GByte, which is not permitted in DICOM.</p> <p>This is not properly checked in the call to createEmptyValue() in dcmdata/libsrc/dcvrpobw.cc:185, and in that case a buffer that is too small is silently allocated.</p> <p>The problem can be demonstrated by running <code>dcmj2pnm +Fa +op -O <infile> <outfile></code> on the sample file provided in <code>/share/dicom/contrib/20170928_large_multiframe_confidential/A000</code></p>			

History

#1 - 2017-12-07 11:43 - Marco Eichelberg

- Assignee set to Michael Onken

#2 - 2018-02-05 18:41 - Jan Schlamelcher

- Target version changed from 3.6.3 to 3.6.6

#3 - 2018-03-02 13:51 - Michael Onken

Closed by commit ebbc9e.

#4 - 2018-03-02 13:52 - Michael Onken

- Status changed from New to Closed

#5 - 2020-05-25 13:29 - Michael Onken

- Target version deleted (3.6.6)