

DCMTK - Bug #1089

Segmentation fault in dcmqrscp application

2023-11-20 16:45 - Marco Eichelberg

Status:	Closed	Start date:	2023-11-20
Priority:	Normal	Due date:	
Assignee:	Marco Eichelberg	% Done:	100%
Category:	Application	Estimated time:	2:00 hours
Target version:	3.6.8	Compiler:	
Module:	dcmqrdb		
Operating System:			
Description			
The dcmqrscp application will crash with a segmentation fault when receiving a DICOM dataset that contains in invalid (fffa,fffa) DigitalSignaturesSequence attribute using a value representation other than SQ. Here is an example dataset that will demonstrate the problem (note the VR of the last line):			
(0008,0005) CS [ISO_IR 100] # 10, 1 SpecificCharacterSet (0008,0016) UI =CTImageStorage # 26, 1 SOPClassUID (0008,0018) UI [1.2.840.113654.2.55.321340174103534860315500467253085465271] # 60, 1 SOPInstanceUID (0008,103e) LO [Axial] # 6, 1 SeriesDescription (0010,0010) PN [026470d51482c93efc18b9803159c960] # 32, 1 PatientName (0010,0020) LO [026470d51482c93efc18b9803159c960] # 32, 1 PatientID (0010,0030) DA [19000101] # 8, 1 PatientBirthDate (0018,0060) DS (no value available) # 0, 0 KVP (0020,000d) UI [2.25.10475680093149299172355150404217687525728647146253243576628] # 64, 1 StudyInstanceUID (0020,000e) UI [2.25.11732464463106264417512324182157005551487198008897132614151] # 64, 1 SeriesInstanceUID (0020,0011) IS [2] # 2, 1 SeriesNumber (0020,0012) IS [1] # 2, 1 AcquisitionNumber (0020,0013) IS [43] # 2, 1 InstanceNumber (0020,0020) CS (no value available) # 0, 0 PatientOrientation (0020,0032) DS [-189.600006\ -191.199997\ -84.474998] # 34, 3 ImagePositionPatient (0020,0037) DS [1.000000\0.000000\0.000000\0.000000\1.000000\0.000000] # 54, 6 ImageOrientationPatient (0020,0052) UI [2.25.73339395137706683697633384368159372056285911466297489075494] # 64, 1 FrameOfReferenceUID (0020,1040) LO [SN] # 2, 1 PositionReferenceIndicator (0020,1041) DS [-84.474998] # 10, 1 SliceLocation (0028,0002) US 1 # 2, 1 SamplesPerPixel (0028,0004) CS [MONOCHROME2] # 12, 1 PhotometricInterpretation (0028,0010) US 512 # 2, 1 Rows (0028,0011) US 512 # 2, 1 Columns (0028,0030) DS [0.781250\0.781250] # 18, 2 PixelSpacing (0028,0100) US 16 # 2, 1 BitsAllocated (0028,0101) US 16 # 2, 1 BitsStored (0028,0102) US 15 # 2, 1 HighBit (0028,0103) US 1 # 2, 1 PixelRepresentation (0028,0120) US 63536 # 2, 1 PixelPaddingValue (0028,1050) DS [-400] # 4, 1 WindowCenter (0028,1051) DS [1500] # 4, 1 WindowWidth (0028,1052) DS [-1024] # 6, 1 RescaleIntercept (0028,1053) DS [1] # 2, 1 RescaleSlope (fffa,fffa) CS [CT] # 2, 1 DigitalSignaturesSequence			
Reported by (Song Xiangpu) < songxiangpu@mail.sdu.edu.cn > on 2023-20-11.			

History

#1 - 2023-11-20 18:10 - Marco Eichelberg

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

Closed by commit #2d89f62b4.