DCMTK - Feature #591

Warning on odd value length in case of 0xffffffff (undefined length)

2014-02-26 12:29 - Jörg Riesmeier

Status:	New		**Start date:**	2014-02-26
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	0%
Category:	Library		**Estimated time:**	0:00 hour
Target version:				
Module:	dcmdata		**Compiler:**	
Operating System:				

Description

From DcmItem::readTagAndLength():

```
    /* if the value in length is odd, print an error message */
    if ( (valueLength & 1) && (valueLength != DCM_UndefinedLength) )
    {
        DCMDATA_WARN("DcmItem: Length of element " << newTag << " is odd");
    }
```

This warning is not reported on e.g. UT values with a length of 0xffffffff even though it would be forbidden to use such a length in a dataset (since this value is reserved for "undefined length", which is not allowed for most VRs).

Also the following if-statement (from the same method) does not check for VRs where undefined length is allowed at all:

```
   /* if desired, check if length is greater than length of surrounding item */
   const Uint32 valueLengthItem = getLengthField();
   if ((ident() == EVR_item /* e.g. meta info would have length 0 */) &&
       (valueLengthItem != DCM_UndefinedLength /* this does not work in undefined length items */
) &&
       (valueLength != DCM_UndefinedLength) /* Also, do not check sequences with undefined length
 0xFFFFFFFF */
       )
```

History

#1 - 2014-02-26 12:37 - Jörg Riesmeier

- Category set to Library

- Target version set to 3.6.2

- Module set to dcmdata

#2 - 2017-03-24 12:47 - Marco Eichelberg

- Target version changed from 3.6.2 to 3.6.3

#3 - 2018-02-05 19:37 - Jan Schlamelcher

- Target version changed from 3.6.3 to 3.6.6

#4 - 2020-05-25 13:28 - Michael Onken

- Target version deleted (3.6.6)