

## Generation of NUM-fields with DISPLAY with DFHWS2LS

In certain cases DFHWS2LS or DFHSC2LS will generate COBOL language structures with numeric fields of type COMP-3 or COMP-5 SYNC. This is not helpful for language structures, which are also used in MQ transport to or from different platforms, which use different encodings.

Attached please find 2 examples:

### Example 1:

Numeric fields without fraction can be defined in the schema in a way that generates fields with the attribute DISPLAY. Fields with fraction digits will lead to a generation of a numeric field of type COMP-3, i.e. field Kosten: `<xsd:totalDigits value="8"/>` und `<xsd:fractionDigits value="2"/>`

```
VIEW          S9700.TEST.COBCOPY(S97WI101) - 01.00          Columns 00001 00072
Command ==>>                                         Scroll ==>> CSR
000097          * ++++++
000098
000099          03 ladeDaten.
000100          06 Nutzdaten.
000101          09 Steuerung.
000102          12 Strukturname          PIC X(8) .
000103          12 Funktion              PIC X(7) .
000104          12 Kosten                PIC S9(6)V9(2) COMP-3.
000106          12 NumfeldL03shortdisp   PIC S9(3) DISPLAY.
000107          12 NumfeldL06intdisp     PIC S9(6) DISPLAY.
000108          12 Numfeldlongdisp       PIC S9(10) DISPLAY.
000109          12 Numfeldcompfraction   PIC S9(6)V9(2) COMP-3
000111          12 Anzahltabellenzeilen PIC S9(2) DISPLAY.
000112
***** Bottom of Data *****
```

### Example 2:

A definition of a field with „minoccurs 0 / maxoccurs n“ in the schema will lead to a generation of fields in the language structure of type COMP-5 SYNC, i.e. Tabellenzeile2-num“

```
VIEW          S9700.TEST.COBCOPY(S97WI102) - 01.00          Columns 00001 00072
Command ==>>                                         Scroll ==>> CSR
000134
000135          03 pruefeDaten.
000136          06 Nutzdaten.
000137          09 Steuerung.
000138          12 Strukturname          PIC X(8) .
000139          12 Funktion              PIC X(7) .
000140          12 Kosten                PIC S9(6)V9(2) COMP-3.
000142          12 NumfeldL03shortdisp   PIC S9(3) DISPLAY.
000143          12 NumfeldL06intdisp     PIC S9(6) DISPLAY.
000144          12 Numfeldlongdisp       PIC S9(10) DISPLAY.
000145          12 Numfeldcompfraction   PIC S9(6)V9(2) COMP-3.
000147          12 Anzahltabellenzeilen PIC S9(2) DISPLAY.
000148
000149          09 Tabellenzeile2-num     PIC S9(9) COMP-5 SYNC.
000150
000151          09 Tabellenzeile OCCURS 5.
000152          12 Land                  PIC X(3) .
000153          12 Titel                  PIC X(18) .
000154          12 Kontainer              PIC X(1000) .
```