

## DICOM Change Proposal

STATUS	Letter Ballot
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Submission Date	2025-04-28

Change Number	CP-2545
Log Summary: Retire DCM Codes from referenced DIN 6868-57 - which was retired in 2014-11-01	
Name of Standard PS3.16	

Rationale for Change:

In CP-2409 it was addressed the matter of swapped codes:

- a. In the case of DCM codes 109931 / 109932, CodeMeaning is flipped in D-1 against in CID 8301

DCM Code	CodeMeaning in D-1	CodeMeaning in CID
109931	DIN Grayscale Pattern	DIN Geometry Pattern
109932	DIN Geometry Pattern	DIN Grayscale Pattern

Those Codes are defined in PS3.16, Table D-1, with:

109931	DIN Grayscale Pattern	Test image "Bild 2" for the gray-scale reproduction of imaging devices. See <a href="#">[DIN 6868-57]</a>
109932	DIN Geometry Pattern	Test image "Bild 3" for the gray-scale reproduction of imaging devices. See <a href="#">[DIN 6868-57]</a>

and chapter 2 Normative References:

[DIN 6868-57] Deutsches Institut für Normung. 2001. *Image quality assurance in diagnostic X-Ray departments - Acceptance testing for image display devices*

Further analysis of impact on our product gave this:

- DIN 6868-57 had been retired in 2001-02-01 and replaced by DIN V 6868-57.
- DIN V 6868-57 had been retired in 2014-11-01 and replaced by DIN 6868-157. Last edition of DIN 6868-157 is 2022-01-01 (active).
- DIN 6868-157 contains in section "6.4 Testbilder" (English "test images") test patterns a) to l), which are 12 test patterns from [AAPC OR 03]. They have labels from AAPC, which exist as DCM codes in PS3.16 Table D-1, labels in the CodeMeaning. AAPC is referenced in graphic's title.
- It seems to be that the DIN working-group, while reworking the norm, saw no reason to keep the images Bild 2, Bild 3 and Bild 5 in the new DIN norm 6868-157.

It is suggested to drop the reference of PS3.16 to DIN 6868-57, because it was retired 11 years ago.

It is suggested to retire the codes ([109931](#), DCM, "DIN Graycale Pattern"), ([109932](#), DCM, "DIN Geometry Pattern") and ([109933](#), DCM, "DIN Resolution Pattern") from Table D-1 DICOM Controlled Terminology, as those patterns are no longer used in DIN 6868-157 test descriptions.

Same, those codes shall be dropped from CID 8301 Test Pattern Code.

Change Wording:

### Change PS3.16 CID 8301 Test Pattern Code

## 5 2 Normative References

[...]

### 2.1 General

[...]

- 10 [AAPM OR 03] American Association of Physicists in Medicine. 2005. *Assessment of Display Performance for Medical Imaging Systems*. [http://www.aapm.org/pubs/reports/OR\\_03.pdf](http://www.aapm.org/pubs/reports/OR_03.pdf).

[...]

[DIN 6868-57] Deutsches Institut für Normung. 2001. *Image quality assurance in diagnostic X-Ray departments – Acceptance testing for image display devices.*

[...]

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### Change PS3.16 CID 8301 Test Pattern Code

## CID 8301 Test Pattern Code

Test patterns for display calibration jobs.

Resources: HTML | FHIR JSON | FHIR XML | IHE SVS XML  
Keyword: TestPatternCode  
FHIR Keyword: dicom-cid-8301-TestPatternCode  
Type: Extensible  
Version: 20140331-YYMMDD  
UID: 1.2.840.10008.6.1.981

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Table CID 8301. Test Pattern Code

Coding Scheme Designator	Code Value	Code Meaning	UMLS Concept Unique ID
[...]			
DCM	109931	DIN-Grayscale Pattern	
DCM	109932	DIN-Geometry Pattern	
DCM	109933	DIN-Resolution Pattern	
[...]			

30 **Note:** This CID formerly contained ([109931](#), DCM, “DIN Graycale Pattern”), ([109932](#),DCM, “DIN Geometry Pattern”) and ([109933](#), DCM, “DIN Resolution Pattern”). Those codes were removed, as they referenced DIN (German Industrial Norm) DIN 6868-57 which has been retired in 2014. The replacement norm DIN 6868-157:2022 references only test patterns from [AAPM OR 03](#) – which are available in this CID 8301.

*Change PS3.16, Table D-1*

**Table D-1. DICOM Controlled Terminology Definitions (Coding Scheme Designator "DCM" Coding Scheme Version "01")**

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Code Value	Code Meaning	Definition	Notes
109931	DIN Grayscale Pattern	<p>Test image "Bild 2" for the gray-scale reproduction of imaging devices.</p> <p><b>See [DIN 6868-57]. See retired norm DIN 6868-57. The replacement norm DIN 6868-157 references test patterns from [AAPM OR 03], but not the test pattern on "Bild 2" from the retired norm.</b></p>	<p><b>Retired.</b> <b>No replacement code.</b></p>
109932	DIN Geometry Pattern	<p>Test image "Bild 3" for the geometrical imaging properties of imaging devices.</p> <p><b>See [DIN 6868-57]. See retired norm DIN 6868-57. The replacement norm DIN 6868-157 references test patterns from [AAPM OR 03], but not the test pattern on "Bild 3" from the retired norm.</b></p>	<p><b>Retired.</b> <b>No replacement code.</b></p>
109933	DIN Resolution Pattern	<p>Test image "Bild 5" for displaying the spatial and contrast resolution as well as the line structure of imaging devices.</p> <p><b>See [DIN 6868-57]. See retired norm DIN 6868-57. The replacement norm DIN 6868-157 references test patterns from [AAPM OR 03], but not the test pattern on "Bild 5" from the retired norm.</b></p>	<p><b>Retired.</b> <b>No replacement code.</b></p>