

DICOM Change Proposal

STATUS	Letter Ballot
Date of Last Update	2026-01-28
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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 [DIN 6868-57]
109932	DIN Geometry Pattern	Test image "Bild 3" for the gray-scale reproduction of imaging devices. See [DIN 6868-57]

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 [AAPC 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.

[...]

[...]

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Change PS3.16 CID 8301 Test Pattern Code

Test patterns for display calibration jobs.

Resources: [HTML](#) | [FHIR JSON](#) | [FHIR XML](#) | [IHE SVS XML](#)

20 Keyword: [TestPatternCode](#)

FHIR Keyword: [dicom-cid-8301-TestPatternCode](#)

Type: [Extensible](#)

Version: [20140331](#) YYYYMMDD

25 UID: [1.2.840.10008.6.1.981](#)

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>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.</p>	Retired. No replacement code.
109932	DIN Geometry Pattern	<p>Test image "Bild 3" for the geometrical imaging properties of imaging devices.</p> <p>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.</p>	Retired. No replacement code.
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>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.</p>	Retired. No replacement code.