

# DICOM Change Proposal

STATUS	NEW
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Change Number	CP-2491
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Log Summary: **Clarification of inconsistent values of Pixel Presentation (0008,9205)**

Name of Standard  
PS3.3, PS3.4

Rationale for Change:  
In PS3.4, section “B.5.1.19 Planar MPR Volumetric Presentation State Storage SOP Classes”, there is:  
  
The Compositing Planar MPR Volumetric Presentation State Storage SOP Class shall use the [Planar MPR Volumetric Presentation State IOD](#) with an Enumerated Value of **TRUE COLOR** for Pixel Presentation (0008,9205).

Namely “TRUE COLOR” (with space between).

While in PS 3.3, section “C.11.27 MPR Volumetric Presentation State Display Module” there is:

Attribute Name	Tag	Type	Attribute Description
Pixel Presentation	(0008,9205)	1	Grayscale or color space of the Presentation State output.  Enumerated Values:  MONOCHROME  Output consists of P-Values  <b>TRUE COLOR</b>  Output consists of PCS-Values
Presentation State Classification Component Sequence	(0070,1801)	2C	Sequence of classification components in which the order of Items is significant. Each classification component converts one or two processed inputs into a single RGB output.  One or more Items shall be included in this Sequence.  See Section C.11.27.2.  Required if Pixel Presentation (0008,9205) has a value of <b>TRUE COLOR</b> .

Namely twice “TRUE\_COLOR” (with underscore between).

This should be consistently changed to have “TRUE\_COLOR” in PS3.4.  
The Value in PS3.3 shall be kept, as modules are expected to be used by implementers.

**Change Wording:**

**Change B.5.1.19 Planar MPR Volumetric Presentation State Storage SOP Classes,**

5 **Replace the text “TRUE COLOR” with “TRUE\_COLOR”.  
It shall have an underscore between both words.**

**(Sorry, underlining underscores and spaces does not display well.)**

### **B.5.1.19 Planar MPR Volumetric Presentation State Storage SOP Classes**

10 The requirements of [Section FF.2.1.1](#) apply to the following SOP Classes:

- Grayscale Planar MPR Volumetric Presentation State Storage
- Compositing Planar MPR Volumetric Presentation State Storage

15 The Grayscale Planar MPR Volumetric Presentation State Storage SOP Class shall use the [Planar MPR Volumetric Presentation State IOD](#) with an Enumerated Value of MONOCHROME for Pixel Presentation (0008,9205) and shall have only a single item in the Volumetric Presentation State Input Sequence (0070,1201).

The Compositing Planar MPR Volumetric Presentation State Storage SOP Class shall use the [Planar MPR Volumetric Presentation State IOD](#) with an Enumerated Value of TRUE\_COLOR for Pixel Presentation (0008,9205).

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**For reference only, no changes to PS 3.3,  
section “C.11.27 MPR Volumetric Presentation State Display Module”**

### **C.11.27 MPR Volumetric Presentation State Display Module**

25 [Table C.11.27-1](#) specifies the Attributes of the [MPR Volumetric Presentation State Display Module](#), which define the transformations of the processed MPR Volumetric Presentation State inputs into a single VPS display space, as described in the Volumetric Presentation State pipeline in [Section FF.2.1 “Volumetric Transformations” in PS3.4](#).

Table C.11.27-1. MPR Volumetric Presentation State Display Module Attributes

Attribute Name	Tag	Type	Attribute Description
Pixel Presentation	(0008,9205)	1	Grayscale or color space of the Presentation State output.
			Enumerated Values:
			MONOCHROME
			Output consists of P-Values
			<b>TRUE_COLOR</b>
			Output consists of PCS-Values

Attribute Name	Tag	Type	Attribute Description
Presentation State Classification Component Sequence	(0070,1801)	2C	<p>Sequence of classification components in which the order of Items is significant. Each classification component converts one or two processed inputs into a single RGB output.</p> <p>One or more Items shall be included in this Sequence.</p> <p>See Section C.11.27.2.</p> <p>Required if Pixel Presentation (0008,9205) has a value of <b>TRUE_COLOR</b>.</p>

[...]