

DICOM Correction Item

Correction Number	CP-771
Log Summary: Clarify rendering of window values present in images	
Type of Modification	Name of Standard
Correction	PS 3.3 2007
Rationale for Correction	
The note describing the expectations that display applications will use the window values in an image needs to be clarified to indicate that this is when not overridden by the user, a presentation state, or a hanging protocol.	
Sections of documents affected	
PS 3.3 C.11.2.1.2	
Correction Wording:	

C.11.2 VOI LUT Module

...

C.11.2.1.2 Window center and window width

...

If multiple values are present, both Attributes shall have the same number of values and shall be considered as pairs. Multiple values indicate that multiple alternative views may be presented.

If any VOI LUT Table is included by an Image, a Window Width and Window Center or the VOI LUT Table, but not both, may be applied to the Image for display. Inclusion of both indicates that multiple alternative views may be presented.

If multiple items are present in VOI LUT Sequence (0028,3010), only one may be applied to the Image for display. Multiple items indicate that multiple alternative views may be presented.

If the VOI LUT Module is defined in an IOD and if neither a VOI LUT Sequence nor a Window Width and Window Center are present, then the VOI LUT stage of the grayscale pipeline is defined to be an identity transformation.

- Notes:
1. This requirement is specified so that IODs that define a particular output space for the grayscale pipeline, such as P-Values, are not in an undefined state when no VOI LUT Sequence or Window Width and Window Center are present.
 2. Despite the Type 3 requirement for VOI LUT Sequence and Window Center, implementations that render images are expected to implement and apply these transformations when they are present in the image, **unless overridden by the user, a presentation state, or a hanging protocol, and to allow the user to select which transformation to apply when multiple transformations are present.**