**Log Summary:** Forbid overlays for Samples per Pixel > 1

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**Rationale for Correction**

Currently it is not defined how to interpret the presence of an overlay when Samples per Pixel is > 1.

In the absence of any specific mechanism to interpret such a case, or a plausible use-case, it is proposed to forbid it.

Also, it is proposed to emphasize that there is no mechanism in an image object for specifying with what color an overlay is to be rendered.

**Sections of documents affected**

PS 3.3 C.9.2

**Correction Wording:**

C.9.2  **Overlay plane module**

... 

Each Overlay Plane is one bit deep. Sixteen separate Overlay Planes may be associated with an Image or exist as Standalone Overlays in a Series.

Overlay pixel data are stored either in Overlay Data (60xx,3000) or embedded in the image pixel data in Image Pixel Data (7FE0,0010). See PS 3.5 for a description of overlay pixel data imbedded with image pixel data. See the Section Repeating Groups in PS 3.5 for a description of permitted values of 60xx. **Overlay Planes embedded in Image Pixel data (7FE0,0010) are only permitted when Samples per Pixel (0028,0002) has a value of 1.**

Attributes describing display of grayscale and color overlays were defined in a previous version of the DICOM Standard. These have now been retired. **How an Overlay Plane is rendered is undefined; specifically there is no mechanism to specify with what color or intensity an Overlay Plane is to be displayed, except when rendered under the control of a Grayscale Softcopy Presentation State SOP Instance.**