

# DICOM Change Proposal

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|---------------------|---------------------------------|
| STATUS              | Assigned                        |
| Date of Last Update | 2026/01/09                      |
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| Submission Date     | 2026/01/09                      |

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| Change Number         | CP-2610                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Log Summary:          | Add Institution Code Sequence to General Equipment Module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Name of Standard      | PS3.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Rationale for Change: | <p>The General Equipment Module includes Institution Name (0008,0080) to identify the organization responsible for acquisition or creation of the SOP Instance. However, Institution Code Sequence (0008,0082), which provides a coded identifier for the institution, is not present in this module.</p> <p>IHE Encounter Based Imaging Workflow (EBIW) and Manifest-based Access to DICOM Objects (MADO) specifies Institution Code Sequence as a required attribute to support identification, matching, and cross-system interoperability of institutional entities.</p> <p>This change aligns with the existing use of Institution Name in the same module, and supports IHE EBIW requirements without requiring IHE EBIW systems to rely on standard-extended use of Institution Code Sequence.</p> |
| Change Wording:       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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**Modify PS3.3 Table C.7-8. General Equipment Module Attributes as indicated (changes to existing text are bold and underlined for additions and bold and struckthrough for removals):**

**Table C.7-8. General Equipment Module Attributes**

| Attribute Name                          | Tag                       | Type            | Attribute Description                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|---------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer                            | (0008,0070)               | 2               | Manufacturer of the equipment that produced the Composite Instances.                                                                                                                                                                                                                                                       |
| Institution Name                        | (0008,0080)               | 3               | <p>Institution where the equipment that produced the Composite Instances is located.</p> <p>Note</p> <p>This Attribute represents the organizational context only for the Equipment IE, and should not be construed to be a substitute for Issuer of Patient ID (0010,0021) or Issuer of Accession Number (0008,0051).</p> |
| <b><u>Institution Code Sequence</u></b> | <b><u>(0008,0082)</u></b> | <b><u>3</u></b> | <b><u>Coded identifier of the Institution where the equipment that produced the Composite Instances is located.</u></b>                                                                                                                                                                                                    |

| Attribute Name                                                         | Tag         | Type | Attribute Description                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------|-------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        |             |      | <p><b>Note</b></p> <p><b><u>This Attribute represents the organizational context only for the Equipment IE, and should not be construed to be a substitute for Issuer of Patient ID (0010,0021) or Issuer of Accession Number (0008,0051).</u></b></p> <p><b><u>Only a single Item is permitted in this Sequence.</u></b></p>                                                                                                     |
| <b><i>&gt;Include Table 8.8-1 "Code Sequence Macro Attributes"</i></b> |             |      | <b><i>No Baseline CID is defined.</i></b>                                                                                                                                                                                                                                                                                                                                                                                         |
| Institution Address                                                    | (0008,0081) | 3    | Mailing address of the institution where the equipment that produced the Composite Instances is located.                                                                                                                                                                                                                                                                                                                          |
| Station Name                                                           | (0008,1010) | 3    | User defined name identifying the machine that produced the Composite Instances.                                                                                                                                                                                                                                                                                                                                                  |
| Institutional Department Name                                          | (0008,1040) | 3    | Department in the institution where the equipment that produced the Composite Instances is located.                                                                                                                                                                                                                                                                                                                               |
| Institutional Department Type Code Sequence                            | (0008,1041) | 3    | <p>A coded description of the type of Department or Service within the healthcare facility.</p> <p><b>Note</b></p> <p>This might be obtained from a corresponding HL7v2 message containing PV1:10 Hospital Service.</p> <p><b>Only a single Item is permitted in this Sequence.</b></p>                                                                                                                                           |
| <b><i>&gt;Include Table 8.8-1 "Code Sequence Macro Attributes"</i></b> |             |      | <b><i>BCID 7030 "Institutional Department/Unit/Service".</i></b>                                                                                                                                                                                                                                                                                                                                                                  |
| Manufacturer's Model Name                                              | (0008,1090) | 3    | Manufacturer's model name of the equipment that produced the Composite Instances.                                                                                                                                                                                                                                                                                                                                                 |
| Manufacturer's Device Class UID                                        | (0018,100B) | 3    | <p>Manufacturer's Unique Identifier (UID) for the class of the device.</p> <p>A class is a manufacturer-specific grouping concept with no DICOM-defined scope or criteria. A class is independent from a marketing-defined make, model or version.</p> <p>A class allows grouping of devices with a similar set of capabilities.</p> <p>This Attribute may be multi-valued if this device is a member of more than one class.</p> |
| Device Serial Number                                                   | (0018,1000) | 3    | <p>Manufacturer's serial number of the equipment that produced the Composite Instances.</p> <p><b>Note</b></p> <p>This identifier corresponds to the device that actually created the images, such as a CR plate reader or a CT console, and may not be sufficient to identify all of the equipment in the imaging chain, such as the generator or gantry or plate.</p>                                                           |

| Attribute Name                                          | Tag         | Type | Attribute Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Software Versions                                       | (0018,1020) | 3    | Manufacturer's designation of software version of the equipment that produced the Composite Instances. See Section C.7.5.1.1.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gantry ID                                               | (0018,1008) | 3    | Identifier of the gantry or positioner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| UDI Sequence                                            | (0018,100A) | 3    | <p>Unique Device Identifier (UDI) of the entire equipment. For example, the entire CT Scanner.</p> <p>Note</p> <ol style="list-style-type: none"> <li>Multiple Items may be present if the entire equipment has UDIs issued by different Issuing Authorities.</li> <li>Multiple Items may be present if multiple pieces of equipment were involved in the creation of this Instance, e.g., the DR plate and the DR reader.</li> <li>This is not intended to contain the UDIs of the components of the equipment, such as the X-Ray tube of the CT scanner. Such information is stored elsewhere and accessible using the UDI of the entire equipment and a date.</li> </ol> <p>One or more Items are permitted in this Sequence.</p> |
| <i>&gt;Include Table 10.29-1 "UDI Macro Attributes"</i> |             |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Device UID                                              | (0018,1002) | 3    | <p>Unique identifier of the equipment that produced the Composite Instances.</p> <p>Note</p> <ol style="list-style-type: none"> <li>If present in an SR object, the value is expected to be the same as the (121012, DCM, "Device Observer UID") in TID 1004 "Device Observer Identifying Attributes".</li> <li>There is no requirement that the Device UID (0018,1002) be the same as the Instance Creator UID (0008,0014) in the SOP Common Module, though they may be.</li> </ol>                                                                                                                                                                                                                                                 |
| Spatial Resolution                                      | (0018,1050) | 3    | The inherent limiting resolution in mm of the acquisition equipment for high contrast objects for the data gathering and reconstruction technique chosen. If variable across the images of the Series, the value at the image center.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Date of Manufacture                                     | (0018,1204) | 3    | The date the equipment that produced the Composite Instances was originally manufactured or re-manufactured (as opposed to refurbished).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Date of Installation                                    | (0018,1205) | 3    | The date the equipment that produced the Composite Instances was installed in its current location. The equipment may or may not have been used prior to installation in its current location.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Date of Last Calibration                                | (0018,1200) | 3    | Date when the image acquisition device calibration was last changed in any way. Multiple entries may be used for additional calibrations at other times. See Section C.7.5.1.1.1 for further explanation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Attribute Name           | Tag         | Type | Attribute Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Time of Last Calibration | (0018,1201) | 3    | Time when the image acquisition device calibration was last changed in any way. Multiple entries may be used. See Section C.7.5.1.1.1 for further explanation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Pixel Padding Value      | (0028,0120) | 1C   | <p>Single pixel value or one limit (inclusive) of a range of pixel values used in an image to pad to rectangular format or to signal background that may be suppressed or that may be rendered "transparently" when superimposing images. See Section C.7.5.1.1.2 for further explanation.</p> <p>Required if Pixel Padding Range Limit (0028,0121) is present and either Pixel Data (7FE0,0010) or Pixel Data Provider URL (0028,7FE0) is present. May be present otherwise only if Pixel Data (7FE0,0010) or Pixel Data Provider URL (0028,7FE0) is present.</p> <p>Note</p> <ol style="list-style-type: none"> <li>1. The Value Representation of this Attribute is determined by the Value of Pixel Representation (0028,0103).</li> <li>2. This Attribute is not used in Presentation State Instances; there is no means in a Presentation State to "override" any Pixel Padding Value (0028,0120) specified in the referenced images.</li> <li>3. This Attribute does apply to RT Dose and Segmentation Instances, since they include Pixel Data.</li> <li>4. This Attribute does not apply when Float Pixel Data (7FE0,0008) or Double Float Pixel Data (7FE0,0009) are used instead of Pixel Data (7FE0,0010); Float Pixel Padding Value (0028,0122) or Double Float Pixel Padding Value (0028,0123), respectively, are used instead, and defined at the Image, not the Equipment, level.</li> <li>5. Only a single Value is allowed for this Attribute, so it only applies to images with Samples per Pixel (0028,0002) of 1, i.e., images with a Photometric Interpretation (0028,0004) of MONOCHROME1, MONOCHROME2 or PALETTE COLOR. See Section C.7.5.1.1.2 for details.</li> </ol> |