Correction Number CP-1389

Log Summary: Factor Common Descriptions Out of Image Library Entries

Name of Standard
PS3.16, PS3.17 2013

Rationale for Correction:

The Image Library concept introduced with Mammography CAD is a useful means of describing relevant features of images that are used to create SR content, but does not scale well when large numbers of images with common attributes are needed.

Some types of SR require description of other modality images than are currently provided for in TID 4020 CAD Image Library Entry.

A case of both is PET SUV measurements for which PET-specific image attributes are required and for which a group of images may share common attributes, such as information about the radiopharmaceutical administration.

Accordingly, it is proposed to add new templates to extend the function of the image library concept and to permit commonality of descriptive attributes. The descriptive attributes are grouped by acquisition modality and type of modality (cross-sectional or projection).

The existing TID 4020 is left unchanged so as not to impact the installed base of equipment that already uses that template.

EV (121058, DCM,"Procedure reported") has not been included in the common descriptors, since this is likely included in whatever enclosing root template uses the Image Library.

Editor's Notes:

Correction Wording:
Amend DICOM PS3.16 - Content Mapping Resource - Structured Reporting Templates to add the following new templates:

**TID t4tt1 Image Library**

The Image Library contains references to images and selected attributes describing them that facilitate analysis without having to retrieve the entire set of referenced images.

**Type:** Extensible  
**Order:** Non-Significant

<table>
<thead>
<tr>
<th>NL</th>
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<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>CONTAINER</td>
<td>EV (111028, DCM, &quot;Image Library&quot;)</td>
<td>1</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>&gt;</td>
<td>CONTAINER</td>
<td>EV (dd4d01, DCM, &quot;Image Library Group&quot;)</td>
<td>1-n</td>
<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>&gt;&gt;</td>
<td>HAS ACQ CONTEXT</td>
<td>INCLUDE DTID t4tt3 &quot;Image Library Entry Descriptors&quot;</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>&gt;&gt;</td>
<td>CONTAINS</td>
<td>INCLUDE DTID t4tt2 &quot;Image Library Entry&quot;</td>
<td>1-n</td>
<td>U</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TID t4tt2 Image Library Entry**

Each instance of the Image Library Entry template contains the Image SOP Class and Instance UIDs, and selected attributes for an image that facilitate analysis without having to retrieve the entire set of referenced images.

**Type:** Extensible  
**Order:** Non-Significant

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<th>Req Type</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td>IMAGE</td>
<td>1</td>
<td>M</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>&gt;</td>
<td>HAS ACQ CONTEXT</td>
<td>INCLUDE DTID t4tt3 &quot;Image Library Entry Descriptors&quot;</td>
<td>1</td>
<td>U</td>
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</tbody>
</table>

**TID t4tt3 Image Library Entry Descriptors**

This template contains selected attributes for an image or group of images. The descriptive information may be copied from images or derived.

**Type:** Extensible  
**Order:** Non-Significant

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<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HAS ACQ CONTEXT</td>
<td>CODE</td>
<td>EV (121139, DCM, &quot;Modality&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>HAS ACQ CONTEXT</td>
<td>CODE</td>
<td>EV (123014, DCM, &quot;Target Region&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td>DCID 4031 &quot;Common Anatomic Regions&quot;</td>
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<tr>
<td>NL</td>
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<td>Concept Name</td>
<td>VM</td>
<td>Req Type</td>
<td>Condition</td>
<td>Value Set Constraint</td>
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<tr>
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</tr>
<tr>
<td>3</td>
<td>HAS ACQ CONTEXT</td>
<td>CODE</td>
<td>EV (111027, DCM, &quot;Image Laterality&quot;)</td>
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<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>HAS ACQ CONTEXT</td>
<td>DATE</td>
<td>EV (111060, DCM, &quot;Study Date&quot;)</td>
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<td>U</td>
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<td></td>
</tr>
<tr>
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<tr>
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<td>DATE</td>
<td>EV (dd4d10, DCM, &quot;Acquisition Date&quot;)</td>
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<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>HAS ACQ CONTEXT</td>
<td>TIME</td>
<td>EV (dd4d11, DCM, &quot;Acquisition Time&quot;)</td>
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<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>HAS ACQ CONTEXT</td>
<td>UIDREF</td>
<td>EV (112227, DCM, &quot;Frame of Reference UID&quot;)</td>
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<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>HAS ACQ CONTEXT</td>
<td>NUM</td>
<td>EV (110910, DCM, &quot;Pixel Data Rows&quot;)</td>
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<td>U</td>
<td></td>
<td>UNITS = EV ((pixels), UCUM, &quot;pixels&quot;)</td>
</tr>
<tr>
<td>12</td>
<td>HAS ACQ CONTEXT</td>
<td>NUM</td>
<td>EV (110911, DCM, &quot;Pixel Data Columns&quot;)</td>
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<td>U</td>
<td></td>
<td>UNITS = EV ((pixels), UCUM, &quot;pixels&quot;)</td>
</tr>
<tr>
<td>13</td>
<td>HAS ACQ CONTEXT</td>
<td>INCLUDE</td>
<td>DTID t4tt5 &quot;Image Library Entry Descriptors for Projection Radiography&quot;</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>HAS ACQ CONTEXT</td>
<td>INCLUDE</td>
<td>DTID t4tt6 &quot;Image Library Entry Descriptors for Cross-Sectional Modalities&quot;</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>HAS ACQ CONTEXT</td>
<td>INCLUDE</td>
<td>DTID t4tt7 &quot;Image Library Entry Descriptors for CT&quot;</td>
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<td>U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>HAS ACQ CONTEXT</td>
<td>INCLUDE</td>
<td>DTID t4tt8 &quot;Image Library Entry Descriptors for MR&quot;</td>
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<td>U</td>
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<td></td>
</tr>
<tr>
<td>17</td>
<td>HAS ACQ CONTEXT</td>
<td>INCLUDE</td>
<td>DTID t4tt9 &quot;Image Library Entry Descriptors for PET&quot;</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Content Item Descriptions**

**Target Region**

The value of Anatomic Region Sequence (0008,2218) in the Image IOD, or a code derived from Body Part Examined (0018,0015) using the mapping described in Annex L.

**TID t4tt5 Image Library Entry Descriptors for Projection Radiography**

This template contains selected attributes for a projection radiography image or group of such images. The descriptive information may be copied from images or derived.

**Type:** Extensible  
**Order:** Non-Significant
### Table TID t4tt5. Image Library Entry Descriptors for Projection Radiography

<table>
<thead>
<tr>
<th>NL</th>
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<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HAS ACQ CONTEXT CODE</td>
<td>EV (111031, DCM, &quot;Image View&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>&gt; HAS CONCEPT MOD CODE</td>
<td>EV (111032, DCM, &quot;Image View Modifier&quot;)</td>
<td>1-n</td>
<td>U</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>HAS ACQ CONTEXT TEXT</td>
<td>EV (111044, DCM, &quot;Patient Orientation Row&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>HAS ACQ CONTEXT TEXT</td>
<td>EV (111043, DCM, &quot;Patient Orientation Column&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>HAS ACQ CONTEXT NUM</td>
<td>EV (111026, DCM, &quot;Horizontal Pixel Spacing&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
<td>UNITS = EV (mm, UCUM, &quot;millimeter&quot;)</td>
</tr>
<tr>
<td>6</td>
<td>HAS ACQ CONTEXT NUM</td>
<td>EV (111066, DCM, &quot;Vertical Pixel Spacing&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
<td>UNITS = EV (mm, UCUM, &quot;millimeter&quot;)</td>
</tr>
<tr>
<td>7</td>
<td>HAS ACQ CONTEXT NUM</td>
<td>EV (112011, DCM, &quot;Positioner Primary Angle&quot;)</td>
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<td>U</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>HAS ACQ CONTEXT NUM</td>
<td>EV (112012, DCM, &quot;Positioner Secondary Angle&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Content Item Descriptions**

Patient Orientation Row
First (row) and second (column) components of Patient Orientation (0020,0020) in the Image IOD. See PS 3.3 Section C.7.6.1.1.

Patient Orientation Column
The row (first) component of Imager Pixel Spacing (0018,1164) in the Image IOD. See PS 3.3 Section C.8.11.4.

Horizontal Imager Pixel Spacing
The column (second) component of Imager Pixel Spacing (0018,1164) in the Image IOD. See PS 3.3 Section C.8.11.4.

### TID t4tt6 Image Library Entry Descriptors for Cross-Sectional Modalities

This template contains selected attributes for a cross-sectional image or group of such images. The descriptive information may be copied from images or derived.

**Type:** Extensible

**Order:** Non-Significant

### Table TID t4tt6. Image Library Entry Descriptors for Cross-Sectional Modalities

<table>
<thead>
<tr>
<th>NL</th>
<th>Rel with Parent</th>
<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HAS ACQ CONTEXT NUM</td>
<td>EV (111026, DCM, &quot;Horizontal Pixel Spacing&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
<td>UNITS = EV (mm, UCUM, &quot;millimeter&quot;)</td>
</tr>
<tr>
<td>2</td>
<td>HAS ACQ CONTEXT NUM</td>
<td>EV (111066, DCM, &quot;Vertical Pixel Spacing&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
<td>UNITS = EV (mm, UCUM, &quot;millimeter&quot;)</td>
</tr>
<tr>
<td>3</td>
<td>HAS ACQ CONTEXT NUM</td>
<td>EV (112226, DCM, &quot;Spacing between slices&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td></td>
<td>UNITS = EV (mm, UCUM, &quot;millimeter&quot;)</td>
</tr>
<tr>
<td>4</td>
<td>HAS ACQ CONTEXT NUM</td>
<td>EV (112225, DCM, &quot;Slice Thickness&quot;)</td>
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<td>U</td>
<td></td>
<td></td>
<td>UNITS = EV (mm, UCUM, &quot;millimeter&quot;)</td>
</tr>
</tbody>
</table>
Table TID t4tt7. Image Library Entry Descriptors for CT

<table>
<thead>
<tr>
<th>NL</th>
<th>Rel with Parent</th>
<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HAS ACQ CONTEXT</td>
<td>CODE</td>
<td>EV (113820, DCM, &quot;CT Acquisition Type&quot;)</td>
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<td></td>
<td>DCID 10013 &quot;CT Acquisition Type&quot;</td>
</tr>
<tr>
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<td>HAS ACQ CONTEXT</td>
<td>CODE</td>
<td>EV (113961, DCM, &quot;Reconstruction Algorithm&quot;)</td>
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<td>U</td>
<td></td>
<td>DCID 10033 &quot;CT Reconstruction Algorithm&quot;</td>
</tr>
</tbody>
</table>

Content Item Descriptions

CT Acquisition Type
A code derived from the value of Acquisition Type (0018,9302) in the Image IOD. See PS 3.3 Section C.8.15.3.2.

Reconstruction Algorithm
A code derived from the value of Reconstruction Algorithm (0018,9315) in the Image IOD. See PS 3.3 Section C.8.15.3.7.
**TID t4tt8 Image Library Entry Descriptors for MR**

This template contains selected attributes for a MR image or group of such images. The descriptive information may be copied from images or derived.

<table>
<thead>
<tr>
<th>NL</th>
<th>Rel with Parent</th>
<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HAS ACQ CONTEXT</td>
<td>TEXT</td>
<td>EV (110909, DCM, &quot;Pulse Sequence Name&quot;)</td>
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<td>U</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Content Item Descriptions**

Pulse Sequence Name: The value of Pulse Sequence Name (0018,9005) or Sequence Name (0018,0024) in the Image IOD. See PS 3.3 Section C.8.13.4.

**TID t4tt9 Image Library Entry Descriptors for PET**

This template contains selected attributes for a PET image or group of such images. The descriptive information may be copied from images or derived.

**Note**

The content of this template is similar to that in TID 15101 NM/PET Protocol Context, but is in the form of an SR template rather than a Protocol Context Template, and the content items are not nested as modifiers. There is also some similarity to TID 3307 NM/PET Perfusion Measurement Group.

<table>
<thead>
<tr>
<th>NL</th>
<th>Rel with Parent</th>
<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HAS ACQ CONTEXT</td>
<td>CODE</td>
<td>EV (C-10072, SRT, &quot;Radionuclide&quot;)</td>
<td>1</td>
<td>U</td>
<td></td>
<td>DCID 4020 &quot;PET Radionuclide&quot;</td>
</tr>
<tr>
<td>2</td>
<td>HAS ACQ CONTEXT</td>
<td>CODE</td>
<td>EV (F-61FDB, SRT, &quot;Radiopharmaceutical agent&quot;)</td>
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<td>U</td>
<td></td>
<td>DCID 4021 &quot;PET Radiopharmaceutical&quot;</td>
</tr>
<tr>
<td>3</td>
<td>HAS ACQ CONTEXT</td>
<td>NUM</td>
<td>EV (R-42806, SRT, &quot;Half-life of radiopharmaceutical&quot;)</td>
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<td>U</td>
<td></td>
<td>UNITS = (s, UCUM, &quot;s&quot;)</td>
</tr>
<tr>
<td>4</td>
<td>HAS ACQ CONTEXT</td>
<td>DATETIME</td>
<td>EV (123003, DCM, &quot;Radiopharmaceutical Start Date Time&quot;)</td>
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<td></td>
</tr>
<tr>
<td>5</td>
<td>HAS ACQ CONTEXT</td>
<td>DATETIME</td>
<td>EV (123004, DCM, &quot;Radiopharmaceutical Stop Time&quot;)</td>
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<td></td>
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<td>HAS ACQ CONTEXT</td>
<td>NUM</td>
<td>EV (123005, DCM, &quot;Radiopharmaceutical Volume&quot;)</td>
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<td></td>
<td>UNITS = DT (cm3, UCUM, &quot;cm3&quot;)</td>
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<tr>
<td>7</td>
<td>HAS ACQ CONTEXT</td>
<td>NUM</td>
<td>EV (123006, DCM, &quot;Radionuclide Total Dose&quot;)</td>
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<td>U</td>
<td></td>
<td>UNITS = DT (Bq, UCUM, &quot;Bq&quot;)</td>
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</tbody>
</table>
The units for half life are chosen to be seconds, to match the units used for Radionuclide Half Life (0018,1075). See PS 3.3 Section C.8.9.2 “PET Isotope Module”.

Amend DICOM PS3.16 - Content Mapping Resource - Controlled Terminology Definitions to add the following new concepts:

<table>
<thead>
<tr>
<th>Code Value</th>
<th>Code Meaning</th>
<th>Definition</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>dd4d01</td>
<td>Image Library Group</td>
<td>A container that groups common information about a set of images used as evidence to produce a report.</td>
<td></td>
</tr>
<tr>
<td>dd4d10</td>
<td>Acquisition Date</td>
<td>The date the acquisition of data started</td>
<td></td>
</tr>
<tr>
<td>dd4d11</td>
<td>Acquisition Time</td>
<td>The time the acquisition of data started</td>
<td></td>
</tr>
<tr>
<td>dd4d12</td>
<td>PET Radionuclide Incubation Time</td>
<td>The time between the start of injection of the PET radionuclide and the start of acquisition of the PET data.</td>
<td></td>
</tr>
</tbody>
</table>
XXX Use of Image Libraries in SR Documents (Informative)

Amend DICOM PS3.17 - Explanatory Information to add new Annex XXX:

This Annex contains examples of the use of Image Library templates within SR Documents.

XXX.1 Image Library for PET-CT Example

This PET-CT example illustrates an Image Library in which attributes of images for two modalities are described, with common attributes factored out of the individual image references.

Note

1. Only the attributes of relevance to SUV and spatial measurements are included, not a complete description of all aspects of acquisition.

2. Only two images for each modality are described, rather than all slices acquired, since it is usually only necessary to describe images that are referenced elsewhere in the SR content tree, e.g., on which a region of interest is specified from which measurements are made.

<table>
<thead>
<tr>
<th>Node Structure</th>
<th>Code Meaning of Concept Name</th>
<th>Code Meaning or Example Value</th>
<th>TID</th>
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<tbody>
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<td>1.n.1</td>
<td>Image Library Group</td>
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</tr>
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<td>Whole Body</td>
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<tr>
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</tr>
<tr>
<td>1.n.1.6</td>
<td>Acquisition Date</td>
<td>20030417</td>
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</tr>
<tr>
<td>1.n.1.7</td>
<td>Acquisition Time</td>
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<td></td>
</tr>
<tr>
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