

## DICOM Correction Proposal

|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| STATUS              | Final Text                                                                |
| Date of Last Update | 2014/09/04                                                                |
| Person Assigned     | David Clunie <a href="mailto:dclunie@dclunie.com">dclunie@dclunie.com</a> |
| Submitter Name      | David Clunie <a href="mailto:dclunie@dclunie.com">dclunie@dclunie.com</a> |
| Submission Date     | 2013/11/13                                                                |

|                                                              |                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Correction Number                                            | CP-1356                                                                                                                                                                                                                                                         |
| Log Summary: Add Content Qualification to all Composite IODs |                                                                                                                                                                                                                                                                 |
| Name of Standard                                             | PS 3.3 2013                                                                                                                                                                                                                                                     |
| Rationale for Correction:                                    | The enhanced objects since Sup 49 have added Content Qualification to describe whether instances are product, service or research. This capability should be available as optional in all composite instances of all types, so add it to the SOP Common Module. |
| Correction Wording:                                          |                                                                                                                                                                                                                                                                 |

*For reference the use and definition in Enhanced MR:*

### C.8.13.2 MR Image and Spectroscopy Instance Macro

Table C.8-83 specifies the common attributes Enhanced MR Image Module and MR Spectroscopy Module.

**Table C.8-83  
MR IMAGE AND SPECTROSCOPY INSTANCE MACRO**

| Attribute Name        | Tag         | Type | Attribute Description                                                                                                                                                                                                                                |
|-----------------------|-------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ...                   | ...         | ...  | ...                                                                                                                                                                                                                                                  |
| Content Qualification | (0018,9004) | 1C   | Content Qualification Indicator<br>Enumerated Values:<br>PRODUCT<br>RESEARCH<br>SERVICE<br>See C.8.13.2.1.1 for further explanation.<br>Required if SOP Class UID is not "1.2.840.10008.5.1.4.1.1.4.4" (Legacy Converted), may be present otherwise. |
| ...                   | ...         | ...  | ...                                                                                                                                                                                                                                                  |

#### C.8.13.2.1 MR Image and Spectroscopy Instance Macro Attribute Description

##### C.8.13.2.1.1 Content Qualification

Content Qualification (0018,9004) shall have the value PRODUCT if the content (image or Spectroscopy data) was produced with approved hardware and software. It shall have the value RESEARCH or SERVICE if there is any doubt as to whether the content was produced with approved hardware and software.

If data with Content Qualification (0018,9004) of RESEARCH or SERVICE is used to derive other content then it is expected that this derived content will also have Content Qualification (0018,9004) set to RESEARCH or SERVICE.

The intent of this element is to allow annotation of an advisory message that indicates that this content may not be suitable for clinical interpretation.

*Add to SOP Common Module:*

**C.12.1 SOP Common Module**

Table C.12-1 defines the Attributes that are required for proper functioning and identification of the associated SOP Instances. They do not specify any semantics about the Real-World Object represented by the IOD.

**Table C.12-1  
SOP COMMON MODULE ATTRIBUTES**

| <b>Attribute Name</b>               | <b>Tag</b>                | <b>Type</b>     | <b>Attribute Description</b>                                                                                                                                                                                             |
|-------------------------------------|---------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ...                                 | ...                       | ...             | ...                                                                                                                                                                                                                      |
| <b><u>Content Qualification</u></b> | <b><u>(0018,9004)</u></b> | <b><u>3</u></b> | <b><u>Content Qualification Indicator</u></b><br><b><u>Enumerated Values:</u></b><br><b><u>PRODUCT</u></b><br><b><u>RESEARCH</u></b><br><b><u>SERVICE</u></b><br><b><u>See C.8.13.2.1.1 for further explanation.</u></b> |