

DICOM Correction Proposal

STATUS	Letter Ballot
Date of Last Update	2016/01/18
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Correction Number	CP-1528
Log Summary:	Update specs for citing DICOM
Name of Standard	PS3.1
Rationale for Correction:	Recent changes to DICOM include additional web services and CDA templates. The Part 1 description of referencing the Standard needs updating. See also CP1163.
Correction Wording:	

7. Referencing the DICOM Standard

Under the procedures of the DICOM Standards Committee, the Standard is in constant revision. Supplements and corrections to the Standard are balloted and approved several times a year. Each change when approved as Final Text immediately goes into effect. At intervals, all of the approved Final Text changes are consolidated into a published edition of the Standard, identified by year of publication, but such publication is only a convenience to the user; the Standard is officially changed when each change is approved.

Conformance to the DICOM Standard is through specified SOP Classes **using DIMSE messages** (see [PS3.4](#)), **Web Services** (see [PS3.18](#)), **media exchange** (see [PS3.4](#)), **or the hosted application API** (see [PS3.19](#)). **Additional conformance claims may be made to Profiles** (see [PS3.11](#) and [PS3.15](#)), ~~and Web Services (see [PS3.18](#))~~. Once such a unit of conformance is specified in the Standard, all changes thereto are forward and backward compatible (except in rare cases where the original specification was non-interoperable, or conflicted with another standard). Conformance requirements and conformance claims are therefore referenced to the name and/or identifier of the feature, and never referenced to an edition of the Standard. Generally, the only appropriate reference to a particular edition of the Standard is to identify a retired feature (see **Retirement in the Introduction to this Part Section 1.4.2 Continuous Maintenance**).

The following citation form is preferred for general references to the Standard, without specification of date of edition, when specific conformance requirements are not invoked:

- NEMA PS3 / ISO 12052, Digital Imaging and Communications in Medicine (DICOM) Standard, National Electrical Manufacturers Association, Rosslyn, VA, USA (available free at <http://medical.nema.org/>)

The following forms are preferred for references to units of conformance to the Standard:

- **“... conformant to the DICOM <name> SOP Class for network exchange [as a Service Class <User | Provider>], as specified in DICOM PS3.4: Service Class Specifications.”**
- **“... conformant to the DICOM <name> SOP Class for media exchange [as a File Set <Creator | Updater | Reader>], as specified in DICOM PS3.4: Service Class Specifications.”**
- **“... conformant to the DICOM <name> Web Service [as <an Origin-server | a User-agent>] [for the <name> SOP Class], as specified in DICOM PS3.18: Web Services.”**
- **“... conformant to DICOM Application Hosting [as a <Hosting System | Hosted Application>] for the <name> SOP Class, as specified in DICOM PS3.19: Application Hosting.”**
- **“... conformant to the DICOM <identifier> Application Profile [as a File Set <Creator | Updater | Reader>] [for the <name> SOP Class], as specified in DICOM PS3.11: Media Storage Application Profiles.”**
- **“... conformant to the DICOM <name> Profile, as specified in DICOM PS3.15: Security and System Management Profiles.”**
- ~~**“... conformant to WADO, as specified in DICOM PS3.18: Web Services.”**~~

Note

1. Some Application Profiles and Web Services may fully specify the information objects exchanged, while others may require explicit specification of SOP Classes in the references.

2. Examples:

- **“The modality shall be conformant to the DICOM CT Image Storage and MR Image Storage SOP Classes for network exchange as a Service Class User, as specified in DICOM PS3.4: Service Class Specifications.”**
- **“The workstation shall be conformant to the DICOM STD-XA1K-DVD Application Profile as a File Set Reader, as specified in DICOM PS3.11: Media Storage Application Profiles.”**
- **“The PACS shall be conformant to the DICOM WADO-RS and STOW-RS Web Services as an Origin-server for the SOP Classes listed in Table X, as specified in DICOM PS3.18: Web Services.”**

Reference may be made to other features of the Standard, but these shall not be construed as DICOM conformance requirements (although they may be conformance requirements for non-DICOM implementation guides or regulations). Following are some examples:

- “... SOP Instances in accordance with the <name> Information Object Definition, as specified in DICOM [PS3.3](#): Information Object Definitions.”
- “... Structured Reporting SOP Instances using DICOM Template ID <number and name>, as specified in DICOM [PS3.16](#): Content Mapping Resource.”
- **“... HL7 CDA™ instances using Template ID <identifier and name>, as specified in DICOM PS3.20: Imaging Reports using HL7 Clinical Document Architecture.”**
- “... using the <name> Transfer Syntax, as specified in DICOM [PS3.5](#): Data Structure and Semantics.”

Note:

For example, products producing or receiving SR documents must conform to a SOP Class, such as Enhanced SR; such products may also cite use of Template ID 5200 Echocardiography Procedure Report, but that is not a formal DICOM Conformance assertion. However, a non-DICOM implementation guide, such as the IHE Echocardiography Workflow Profile, may require use of that Template, and an implementation may describe its use of specific Templates in its ConformanceStatement.

Since changes to the Standard shall not be cited prior to adoption as Final Text, and since after adoption they are formally part of the Standard, there should be no citations to supplements or correction items for the purpose of describing conformance. Reference to such change documents may be made for describing the historical development of the DICOM Standard.