

DICOM Correction Item

Correction Number	CP-801
Log Summary: Clarify Ordering of Presentation Contexts in Acceptance PDUs	
Type of Modification	Name of Standard
Tightening of specification	PS 3.8 2008
Rationale for Correction	
PS 3.8 does not define the order that presentation contexts must be sent either in the the association request PDU or in the acceptance PDU, and a real-life case was recently discovered where the acceptor returned them in the reverse of the order sent, which was not accepted by the initiator and this was causing a failure of communication. This CP requires the receiver of such data (the initiator) to accept any order.	
Sections of documents affected	
PS 3.8 sections 7.1.1.13 & 7.1.1.14	
Correction Wording:	

Amend PS 3.8 as follows:

7.1.1.13 Presentation context definition list

This parameter used in an A-ASSOCIATE request or indication shall consist of a list containing one or more presentation contexts. Each item shall contain three components, a presentation context identification, an Abstract Syntax Name, and a list of one or more Transfer Syntax Names.

The presentation context identification components of this parameter exist to distinguish presentation contexts in communication. Such an identification of presentation context(s) applies only within the context of a given association (i.e. different presentation contexts may be identified by the same presentation context identification on different associations). It is the association-requestor's responsibility to assign an arbitrary, but unused identifier for each proposed presentation context on a given association. **There is no restriction on the ordering of the presentation contexts in relation to their identifiers.**

Note: A separate presentation context will be associated with each Abstract Syntax Name in each of the elements of the Presentation Context Definition List parameter. If the same Abstract Syntax Name occurs more than once, a separate and distinctly identified presentation context will be generated for each occurrence (as only one Transfer Syntax per presentation context can be accepted).

Abstract Syntaxes defined by this standard and used by DICOM Application Entites are defined in PS 3.4. Transfer Syntaxes defined by this standard and used by DICOM Application Entities are defined in PS 3.5. Further discussion on Abstract Syntaxes and Transfer Syntaxes can be found in Annex B.

7.1.1.14 Presentation context definition result list

This parameter used in the A-ASSOCIATE Response and Confirmation indicates the acceptance or rejection of each of the presentation context definitions proposed in the presentation context definition list parameter (Section 7.1.1.13). The Presentation Context Definition Result List

parameter shall take the form of a list of result values. There is a one to one correspondence between each one of these result values and each of the presentation contexts proposed in the Presentation Context Definition List parameter. Each result value represents either "acceptance," "user-rejection," or "provider-rejection." The values of the results are assigned by the UL user on the response service primitive. **The result values may be sent in any order.**

Note: The order of the results may be different than the order proposed. The order need not be sorted by identifier, and the Initiator may not assume or depend upon any particular order.

In this standard only one Transfer Syntax per presentation context shall be agreed to, even though more than one choice of Transfer Syntaxes may have been offered in a specific presentation context of the Presentation Context Definition list.