DICOM Correction Item

Correction Number	CP-657

Log Summary: User Identity Negotiation Item-type	

Type of Modification	Name of Standard
Inconsistencies	PS 3.7 - 2006

Rationale for Correction

The Item-type defined for the User Identity Negotiation sub-item in supplement 99 is the same for the A-ASSOCIATE-RQ and the A-ASSOCIATE-AC. The content of the sub-item differs, however, between the two PDUs. Using the same Item-type for two different encodings places an undue burden on implementations to know the type of PDU they are decoding when encountering this item type. Having unique Item-types for the sub-items would make it easier for implementations to support this supplement.

There are no known implementations of supplement 99 in the field. Thus, this change should not affect interoperability.

Sections of documents affected

PS 3.7 Annex D

Correction Wording:

D.3.3.7.1   User Identity sub-item structure(A-ASSOCIATE-RQ)

The User Identity Negotiation Sub-Item shall be made of a sequence of mandatory fixed and variable length fields. This Sub-Item is optional and if supported, only one User Identity Negotiation Sub-Item shall be present in the User Data Item of the A-ASSOCIATE-RQ. Table D.3-14 shows the sequence of the mandatory fields.

Table D.3-14
User Identity Negotiation SUB-ITEM FIELDS
(A-ASSOCIATE-RQ)

Item Bytes	Field Name	Description of Field
1	Item-type	58H
2	Reserved	This reserved field shall be sent with a value 00H but not tested to this value when received.
3 - 4	Item-length	This Item-length shall be the number of bytes from the first byte of the following field to the last byte of the last field sent. It shall be encoded as an unsigned binary number.
5	User-Identity-Type	Field value shall be in the range 1 to 3 with the following meanings: 1 – Username as a string in UTF-8 2 – Username as a string in UTF-8 and passcode 3 – Kerberos Service ticket Other values are reserved for future standardization.
6	Positive-response-requested	Field value: 0 - no response requested 1 - positive response requested

7-8	Primary-field-length	The User-Identity-Length shall contain the length of the User-Identity value.
9-n	Primary-field	This field shall convey the user identity, either the username as a series of characters, or the Kerberos Service ticket encoded in accordance with RFC-1510.
n+1-n+2	Secondary-field-length	This field shall be non-zero only if User-Identity-Type has the value 2. It shall contain the length of the secondary-field.
n+3-m	Secondary-field	This field shall be present only if User-Identity-Type has the value 2. It shall contain the Passcode value.

D.3.3.7.2   User Identity sub-item structure(A-ASSOCIATE-AC)

The User Identity Sub-Item shall be made of a sequence of mandatory fixed and variable length fields. This Sub-Item is optional and if supported, only one User Identity Sub-Item shall be present in the User Data Item of the A-ASSOCIATE-AC. Table D.3-15 shows the sequence of the mandatory fields.

Table D.3-15
User Identity Negotiation SUB-ITEM FIELDS
(A-ASSOCIATE-AC)

Item Bytes	Field Name	Description of Field
1	Item-type	**58H <new Item-type to be assigned at final text>**
2	Reserved	This reserved field shall be sent with a value 00H but not tested to this value when received.
3 - 4	Item-length	This Item-length shall be the number of bytes from the first byte of the following field to the last byte of the final field. It shall be encoded as an unsigned binary number.
5-6	Server-response-length	This field shall contain the number of bytes in the Server-response. May be zero.
7-n	Server-response	This field shall contain the Kerberos Server ticket, encoded in accordance with RFC-1510, if the User-Identity-Type value in the A-ASSOCIATE-RQ was 3. This field shall be zero length if the value of the User-Identity-Type in the A-ASSOCIATE-RQ was 1 or 2.

If the Association-Requestor has requested a positive acknowledgement, the Server-response shall be returned with the Kerberos Server ticket when User-Identity-Type is Kerberos Service ticket (3).