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| 1 | Status | Final Text |
| 2 | Date of Last Update | 2017/09/14 |
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| 7 | Submission Date | 2016/11/23 |

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| 8 | Correction Number CP-1675 | |
| 9 | Log Summary: Add Retain Institution Identity option to Basic Application Level Confidentiality Profile | |
| 10 | Name of Standard | |
| 11 | PS3.15, PS3.16 2017c | |
| 12 | Rationale for Correction: | |
| 13 | For some clinical trial use cases, it is desirable to retain rather than remove Institution identifiers. | |
| 14 | Correction Wording: | |

Amend DICOM PS3.15 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

E.1 Application Level Confidentiality Profiles

E.1.1 De-identifier

Table E.1-1. Application Level Confidentiality Profile Attributes

| Attribute Name | Tag | Retired (from PS3.6) | In Std. Comp. IOD (from PS3.3) | Basic Profile | Retain Safe Private Option | Retain UIDs Option | Retain Device Ident. Option | Retain Instit. Ident. Option | Retain Patient Chars. Option | Retain Long. Full Dates Option | Retain Long. Modif. Dates Option | Clean Desc. Option | Clean Struct. Cont. Option | Clean Graph. Option |
|-------------------------------|-------------|----------------------|--------------------------------|---------------|----------------------------|--------------------|-----------------------------|------------------------------|------------------------------|--------------------------------|----------------------------------|--------------------|----------------------------|---------------------|
| Institution Address | (0008,0081) | N | Y | X | | | | <u>K</u> | | | | | | |
| Institution Code Sequence | (0008,0082) | N | Y | X/Z/D | | | | <u>K</u> | | | | | | |
| Institution Name | (0008,0080) | N | Y | X/Z/D | | | | <u>K</u> | | | | | | |
| Institutional Department Name | (0008,1040) | N | Y | X | | | | <u>K</u> | | | | | | |

E.3 Basic Application Level Confidentiality Options

Various options are defined to be applicable to the Basic Application Level Confidentiality Profile. Some of these options require removal of additional information, and some of these options require retention of information that would otherwise be removed.

The following options are defined that require removal of additional information:

- Clean Pixel Data Option
- Clean Recognizable Visual Features Option
- Clean Graphics Option
- Clean Structured Content Option
- Clean Descriptors Option

The following options are defined that require retention of information that would otherwise be removed but that is needed for specific uses:

- Retain Longitudinal Temporal Information with Full Dates Option
- Retain Longitudinal Temporal Information with Modified Dates Option
- Retain Patient Characteristics Option
- Retain Device Identity Option
- Retain UIDs
- Retain Safe Private Option
- Retain Institution Identity Option

E.3.11 Retain Institution Identity Option

Information about the identity of the institution where the acquisition was performed is recognized as having a potential for leakage of identity because it may constrain the number of possible individuals that could be the imaging subject, though only if there is access to other information about the individuals concerned to match it against.

However, there are applications that require such institution information to perform the analysis or interpretation. There may be a need to maintain a record of the institution for regulatory or registry purposes, yet the acquisition site may not maintain an adequate electronic audit trail.

When this Option is specified in addition to an Application Level Confidentiality Profile, information about the identity of the institution in the Attributes shall be retained, as described in Table E.1-1.

Amend DICOM PS3.16 as follows (changes to existing text are bold and underlined for additions and ~~struckthrough~~ for removals):

CID 7050 De-identification Method

Type: Extensible
Version: ~~20140423~~20170914

Table CID 7050. De-identification Method

| Coding Scheme Designator | Code Value | Code Meaning |
|--------------------------|----------------------|--|
| DCM | 113100 | Basic Application Confidentiality Profile |
| DCM | 113101 | Clean Pixel Data Option |
| DCM | 113102 | Clean Recognizable Visual Features Option |
| DCM | 113103 | Clean Graphics Option |
| DCM | 113104 | Clean Structured Content Option |
| DCM | 113105 | Clean Descriptors Option |
| DCM | 113106 | Retain Longitudinal Temporal Information Full Dates Option |
| DCM | 113107 | Retain Longitudinal Temporal Information Modified Dates Option |
| DCM | 113108 | Retain Patient Characteristics Option |
| DCM | 113109 | Retain Device Identity Option |
| DCM | 113110 | Retain UIDs Option |
| DCM | 113111 | Retain Safe Private Option |
| <u>DCM</u> | <u>113112</u> | <u>Retain Institution Identity Option</u> |

D DICOM Controlled Terminology Definitions (Normative)

Table D-1. DICOM Controlled Terminology Definitions

| Code Value | Code Meaning | Definition | Notes |
|------------|---|---|-------|
| 113100 | Basic Application Confidentiality Profile | De-identification using a profile defined in PS3.15 that requires removing all information related to the identity and demographic characteristics of the patient, any responsible parties or family members, any personnel involved in the procedure, the organizations involved in ordering or performing the procedure, additional information that could be used to match instances if given access to the originals, such as UIDs, dates and times, and private attributes, when that information is present in the non-Pixel Data Attributes, including graphics or overlays. | |
| 113101 | Clean Pixel Data Option | Additional de-identification according to an option defined in PS3.15 that requires any information burned in to the Pixel Data corresponding to the Attribute information specified to be removed by the Profile and any other Options specified also be removed. | |
| 113102 | Clean Recognizable Visual Features Option | Additional de-identification according to an option defined in PS3.15 that requires that sufficient removal or distortion of the Pixel Data shall be applied to prevent recognition of an individual from the instances themselves or a reconstruction of a set of instances. | |
| 113103 | Clean Graphics Option | Additional de-identification according to an option defined in PS3.15 that requires that any information encoded in graphics, text annotations or overlays corresponding to the Attribute information specified to be removed by the Profile and any other Options specified also be removed. | |

| Code Value | Code Meaning | Definition | Notes |
|----------------------|--|---|-------|
| 113104 | Clean Structured Content Option | Additional de-identification according to an option defined in PS3.15 that requires that any information encoded in SR Content Items or Acquisition Context Sequence Items corresponding to the Attribute information specified to be removed by the Profile and any other Options specified also be removed. | |
| 113105 | Clean Descriptors Option | Additional de-identification according to an option defined in PS3.15 that requires that any information that is embedded in text or string Attributes corresponding to the Attribute information specified to be removed by the Profile and any other Options specified also be removed. | |
| 113106 | Retain Longitudinal Temporal Information Full Dates Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that any dates and times be retained,. | |
| 113107 | Retain Longitudinal Temporal Information Modified Dates Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that any dates and times be modified in a manner that preserves temporal relationships. E.g., Study Date and Time. | |
| 113108 | Retain Patient Characteristics Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that any physical characteristics of the patient, which are descriptive rather than identifying information per se, be retained. E.g., Patient's Age, Sex, Size (height) and Weight. | |
| 113109 | Retain Device Identity Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that any information that identifies a device be retained. E.g., Device Serial Number. | |
| 113110 | Retain UIDs Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that UIDs be retained. E.g., SOP Instance UID. | |
| 113111 | Retain Safe Private Option | Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that private attributes that are known not to contain identity information be retained. E.g., private SUV scale factor. | |
| <u>113112</u> | <u>Retain Institution Identity Option</u> | <u>Retention of information that would otherwise be removed during de-identification according to an option defined in PS3.15 that requires that any information that identifies an institution be retained. E.g., Institution Name</u> | |