# DICOM Correction Proposal

| STATUS | Final Text |
|---|---|
| Date of Last Update | 2017/09/18 |
| Person Assigned | Rob Horn |
| Submitter Name | Rob Horn |
| Submission Date | 2017/01/15 |

| | |
|---|---|
| Correction Number | CP-1685 |
| Log Summary:   Add session, authentication, authorization audit codes | |
| Name of Standard  PS3.16 2017c | |
| Rationale for Correction:<br><br>The current audit codes include login and logout codes.  Newer security systems separate these events into component activities:<br><br>- Authentication of the user.  This can range from extremely weak "what is your email address?" to extremely strong authentication like biometric identifications.<br>- Authorization of the user/system to access or use some resource.<br>- Beginning a session of activities for a specific authentication and authorization for those activities.<br><br>A login/logout is a typical combination of these activities.  Many systems combine the authentication, authorization, and session into a single login activity.  Logout corresponds to the ending of the session.<br><br>New interaction sequences increasingly separate these into different activities performed by different systems at different times.<br><br>This issue most recently arose in the context of JAHIS needing to track activity sessions by auditing when the session began and ended. | |
| Correction Wording: | |

*Add to PS 3.16 Annex B CID 401:*

# CID 401 Audit Event Type Code

**Type:    Extensible**

**Version:**                              ~~20170416~~20170914

**UID:    1.2.840.10008.6.1.904**

### Table CID 401. Audit Event Type Code

| Coding Scheme Designator | Code Value | Code Meaning |
|---|---|---|
| DCM | 110120 | Application Start |

| Coding Scheme Designator | Code Value | Code Meaning |
| --- | --- | --- |
| DCM | 110121 | Application Stop |
| DCM | 110122 | Login |
| DCM | 110123 | Logout |
| DCM | 110124 | Attach |
| DCM | 110125 | Detach |
| DCM | 110126 | Node Authentication |
| DCM | 110127 | Emergency Override Started |
| DCM | 110128 | Network Configuration |
| DCM | 110129 | Security Configuration |
| DCM | 110130 | Hardware Configuration |
| DCM | 110131 | Software Configuration |
| DCM | 110132 | Use of Restricted Function |
| DCM | 110133 | Audit Recording Stopped |
| DCM | 110134 | Audit Recording Started |
| DCM | 110135 | Object Security Attributes Changed |
| DCM | 110136 | Security Roles Changed |
| DCM | 110137 | User Security Attributes Changed |
| DCM | 110138 | Emergency Override Stopped |
| DCM | 110139 | Remote Service Operation Started |

| Coding Scheme Designator | Code Value | Code Meaning |
|---|---|---|
| DCM | 110140 | Remote Service Operation Stopped |
| DCM | 110141 | Local Service Operation Started |
| DCM | 110143 | Local Service Operation Stopped |
| **DCM** | **110143** | **Authentication Decision** |
| **DCM** | **110144** | **Authorization Decision** |
| **DCM** | **110145** | **Session start** |
| **DCM** | **110146** | **Session stop** |
| **DCM** | **110147** | **Access Control Decision** |

# CID 403 Security Alert Type Code

**Type:**    **Extensible**

**Version:**                        ~~20170416~~**20170914**

**UID:**    **1.2.840.10008.6.1.906**

**Table CID 403. Security Alert Type Code**

| Coding Scheme Designator | Code Value | Code Meaning |
|---|---|---|
| DCM | 110120 | Application Start |
| DCM | 110121 | Application Stop |
| DCM | 110122 | Login |
| DCM | 110123 | Logout |
| DCM | 110124 | Attach |
| DCM | 110125 | Detach |

| Coding Scheme Designator | Code Value | Code Meaning |
|---|---|---|
| DCM | 110126 | Node Authentication |
| DCM | 110127 | Emergency Override Started |
| DCM | 110128 | Network Configuration |
| DCM | 110129 | Security Configuration |
| DCM | 110130 | Hardware Configuration |
| DCM | 110131 | Software Configuration |
| DCM | 110132 | Use of Restricted Function |
| DCM | 110133 | Audit Recording Stopped |
| DCM | 110134 | Audit Recording Started |
| DCM | 110135 | Object Security Attributes Changed |
| DCM | 110136 | Security Roles Changed |
| DCM | 110137 | User Security Attributes Changed |
| DCM | 110138 | Emergency Override Stopped |
| DCM | 110139 | Remote Service Operation Started |
| DCM | 110140 | Remote Service Operation Stopped |
| DCM | 110141 | Local Service Operation Started |
| DCM | 110143 | Local Service Operation Stopped |
| **DCM** | **110143** | **Authentication Decision** |
| **DCM** | **110144** | **Authorization Decision** |

| Coding Scheme Designator | Code Value | Code Meaning |
|---|---|---|
| **DCM** | **110145** | **Session start** |
| **DCM** | **110146** | **Session stop** |
| **DCM** | **110147** | **Access Control Decision** |

*Add to PS 3.16 Annex D*

| Code Value | Code Meaning | Definition | Notes |
|---|---|---|---|
| …. | | | |
| 110122 | Login | Audit event: User login has been attempted. | |
| 110123 | Logout | Audit event: User logout has been attempted. | |
| **110143** | **Authentication Decision** | **Audit event: An authentication decision has been made.** | |
| **110144** | **Authorization Decision** | **Audit event: An authorization decision has been made.** | |
| **110145** | **Session start** | **Audit event: A persistent session has started.** | |
| **110146** | **Session stop** | **Audit event: A persistent session has stopped.** | |
| **110147** | **Access Control Decision** | **Audit event: An access control decision has been made.** | |