

## DICOM Correction Proposal

STATUS	Letter Ballot
Date of Last Update	2024/08/24
Person Assigned	steven.nichols@gehealthcare.com
Submitter Name	steven.nichols@gehealthcare.com on behalf of WG-14
Submission Date	2024/03/06

Correction Number	CP-2399
Log Summary: Correct Audit Message Schema Conflict	
Name of Standard PS3.15	
<p>Rationale for Correction:</p> <p>The optionality of the ParticipantObjectName and ParticipantObjectQuery elements in several DICOM messages conflicts with the requirements specified in section A.5.1.1 of the Audit Message Schema. The schema requires either a name or a query ID field, however, in the message specifications, they are both user optional (U).</p> <p>Optionality for these elements in Table A.5.2-1. General Message Format, for example, is U.</p> <p>This CP corrects the optionality of ParticipantObjectName and ParticipantObjectQuery.</p>	
Correction Wording:	

*Note to reviewers: the schema specification for ParticipantObjectName and ParticipantObjectQuery is included for reference.*

### A.5.1.1 Audit Message Schema

The following is the content of the audit schema:

```
...
ParticipantObjectIdentificationContents =
    element ParticipantObjectIDTypeCode { CodedValueType },
    (element ParticipantObjectName { token } |                               # either a name or
     element ParticipantObjectQuery { xsd:base64Binary } ), # a query ID field,
...
```

*Modify Table A.5.2-1. General Message Format as follows:*

**Table A.5.2-1. General Message Format**

	Field Name	Opt.	Description	Additional Conditions on Field Format/Value
...				

Participant Object (multi-valued)	ParticipantObjectName	<b>U</b> <b>MC</b>	An instance-specific descriptor of the Participant Object ID audited, such as a person's name.	<b>Usage refined by individual message descriptions</b> <b>Required if ParticipantObjectQuery is not present.</b>
	ParticipantObjectQuery	<b>U</b> <b>MC</b>	The actual query for a query-type participant object.	<b>Usage refined by individual message descriptions</b> <b>Required if ParticipantObjectName is not present.</b>

*Modify Table A.5.3.2-1. Audit Log Used Message as follows:*

**Table A.5.3.2-1. Audit Log Used Message**

	Field Name	Opt.	Description
...			
Participating Object:	ParticipantObjectName	<b>U</b> <b>M</b>	Shall be: "Security Audit Log"
Identity of the audit log (1)	<b>ParticipantObjectQuery</b>	<b>U</b>	<b>not specialized</b>
...			

*Modify*

*Table A.5.3.3-1. Audit Message for Begin Transferring DICOM Instances,*

*Table A.5.3.4-1. Audit Message for Data Export*

*Table A.5.3.5-1. Audit Message for Data Import*

*Table A.5.3.6-1. Audit Message for DICOM Instances Accessed*

*Table A.5.3.7-1. Audit Message for DICOM Instances Transferred*

*Table A.5.3.8-1. Audit Message for DICOM Study Deleted*

*Table A.5.3.15-1. Audit Message for Procedure Record*

*as follows:*

*Note: Each message, the first Participating Object references the Study. The second Participating Object references the Patient.*

	Field Name	Opt.	Description
...			
...	ParticipantObjectName	<b>U</b> <b>MC</b>	<b>not specialized</b> <b>Required if ParticipantObjectQuery is not present.</b>
	ParticipantObjectQuery	<b>U</b> <b>MC</b>	<b>not specialized</b> <b>Required if ParticipantObjectName is not present.</b>
...			
	ParticipantObjectName	<b>U</b> <b>M</b>	The patient name
	<b>ParticipantObjectQuery</b>	<b>U</b>	<b>not specialized</b>

Modify Table A.5.3.10-1. Audit Message for Query as follows:

**Table A.5.3.10-1. Audit Message for Query**

	Field Name	Opt.	Description
...			
Participating Object:	<b>ParticipantObjectName</b>	<u>U</u>	<del>not specialized</del>
SOP Queried and the Query (1)	ParticipantObjectQuery	M	If the ParticipantObjectTypeCode is (110181, DCM, "SOP Class UID"), then this field shall hold the Dataset of the DICOM query, xs:base64Binary encoded. Otherwise, it shall be the query in the format of the protocol used.
...			

Modify Table A.5.3.11-1. Audit Message for Security Alert as follows:

**Table A.5.3.11-1. Audit Message for Security Alert**

	Field Name	Opt.	Description
...			
Participating Object:	ParticipantObjectName	<u>U</u> <u>M</u>	not specialized
Alert Subject (0..N)	<b>ParticipantObjectQuery</b>	<u>U</u>	<del>not specialized</del>
...			

Modify  
 Table A.5.3.13-1. Audit Message for Order Record  
 Table A.5.3.14-1. Audit Message for Patient Record  
 as follows:

	Field Name	Opt.	Description
...			
Patient (1)	ParticipantObjectName	<u>U</u> <u>M</u>	The patient name
	<b>ParticipantObjectQuery</b>	<u>U</u>	<del>not specialized</del>
...			