See also <<http://ihewiki.wustl.edu/wiki/index.php/Syslog_Collector>>

The DICOM schema both changes and extends the RFC-3881 schema, which until now has been used by the Syslog Collector to validate messages. IHE has decided that the DICOM schema will be used in preference to the RFC-3881 schema for ATNA syslog messages. Starting now, and for the 2014 Connectathons, the Syslog Collector will use both the RFC-3881 and DICOM schemas for validating syslog messages. At some time in the future, RFC-3881 validation will be dropped.

The analysis is based on the information from the Website mentioned above and using the XSD files from RFC-3881, DICOM and the modified DICOM – Schema used by IHE ATNA for validation.

# CodedValue Type

* For purposes of generating audit messages conforming to the DICOM schema, the Encoded Value (EV) triplets in IHE audit message specifications are understood to represent EV("csd-code", "codeSystemName", and "originalText"), for example, the EventTypeCode EV("110122", "DCM", "Login") would be expressed as:

|  |  |
| --- | --- |
|  | <EventTypeCode csd-code="110122" codeSystemName="DCM" originalText="Login" /> |

**So the CodedValue Type is now:**

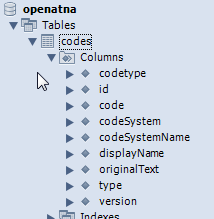
Machine generated alternative text: H Type xsioken] Q___(to)
Built-in derived type. The token dstatype repesents
token ized strings. The base type of token is
normalizedstring.
Q • other-csd-attribules
L1
codeSystemName
‚e
Type xs:token j
displayName
e
Type xs:token
originalText
IC)
Type xs:tokenj

**And was in RFC3881:**

Machine generated alternative text: Q © Attributes
code
Type
Built-in piirnitive type. The string datatype represents
character strings in XML.
e : • CodeSystem
codeSystem
Type OU
CodedValueType codeSystemName
Type xs:string Je
displayName
Type xs:string J e—(string
Built-in primitive type. The string datatype represents
character strings in XML.
originaltext
Type xs:stringJ®_5t9
Built-in primitive type. The string datatype represents
character strings in XML.

**ACTION TO DO:**

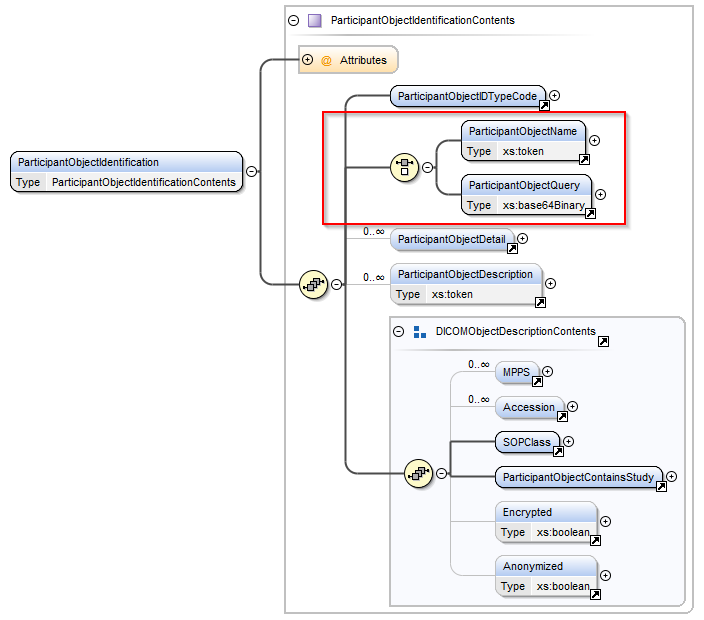
* I think a JAXB recreation has to be done using the dicom.xsd
  + Openncp-audit-manager/CodedValueType
  + Openatna/jaxb21/CodedValueType
* Change the name of the code attribute to csd-code
* The values which are now put into field displayName, should be written into the originalText field, as this field is now mandatory, whereas displayName is kept optional.
* I am not sure what has to be done with the OpenAtna, as it has the corresponding tables => Table codes

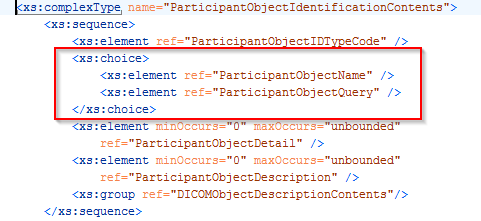


# ParticipantObjectIdentification

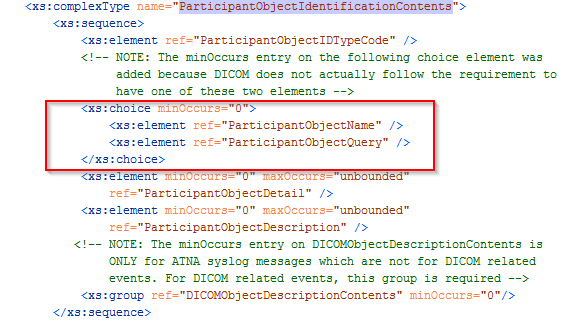
## ParticipantObjectName or ParticipantObjectQuery

The **ParticipantObjectIdentification** element is required by the DICOM schema to have at least one of the child elements **ParticipantObjectName** or **ParticipantObjectQuery**.





In the former RFC-3881 and in the ATNA modification of the DICOM format it is set to optional again.

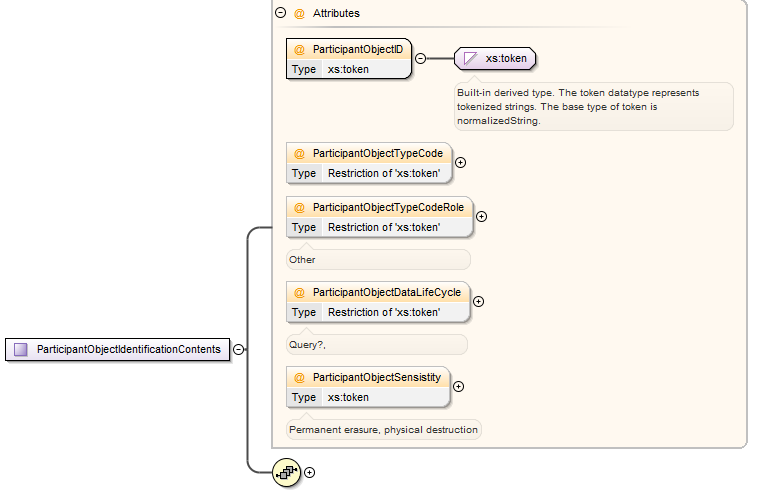


**ACTION TO DO:**

* NO CHANGE EXPECTED

## ParticipantObjectID

The attribute **ParticipantObjectID** is required to appear in a **ParticipantObjectIdentification** element by the DICOM schema. This requirement will not be enforced unless the specifications of the particular audit message require it.



From dicom.xsd

<xs:attribute name="ParticipantObjectID" use="required" type="xs:token" />

From healthcare-security-audit.xsd (RFC 3881)

<xs:attribute name="ParticipantObjectID" type="xs:string" use="required"/>

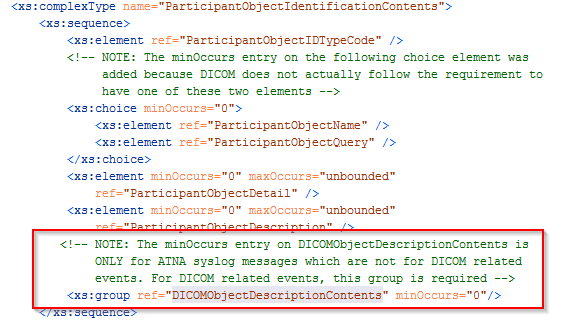
When comparing, only the datatype has been changed, not the use.

**ACTION TO DO:**

* **No change expected**

# DICOMObjectDescriptionContents

The ATNA modification of the DICOM schema sets the DICOMObjectDescriptionContents optional for the ParticipantObjectIdentification.

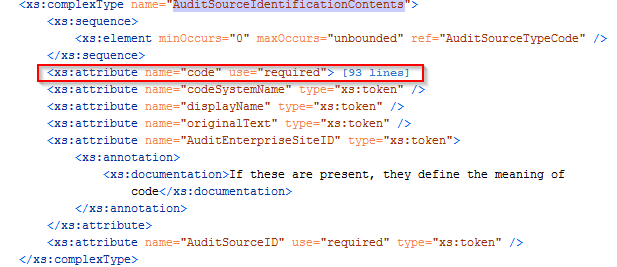


**ACTION TO DO:**

* **No change expected**

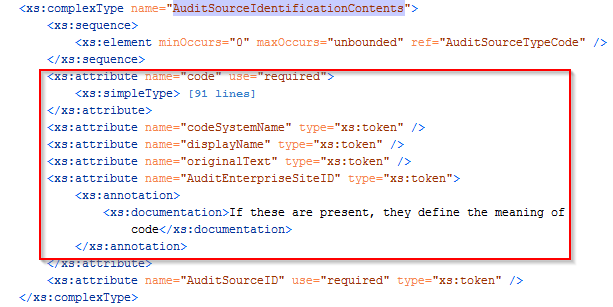
# AuditSourceIdentification

The “code” element is now required. Both in the DICOM format and in the modified DICOM format for ATNA.





The DICOM format defines the codes from 1 to 9, but other codes can also be used when providing the codeSystemName and originalText.



The ATNA modification of the DICOM schema removes the pre-defined codes from 1-9. In distinction to the CodedValueType, all the other elements are optional (incl. “originalText”).

**ACTION TO DO:**

* Audit source (see also 4.5.3.6 in epSOS WP3.4) needs to provide a code also, so the AuditSourceID and code.

# ActiveParticipant

The element “UserIsRequestor” is now required.



Following the specification in epSOS WP 3.4 D3.4.2 Chapter 4.5, all the usages of ActiveParticipant Identification are specified with UserIsRequestor as mandatory element.

**ACTION TO DO:**

* **No change expected**