DICOM Conformance Statement

Visante AC-OCT

Version 3.0

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USA

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1 Conformance Statement Overview

This document is structured as suggested in the DICOM Standard (PS 3.2, 2008).

The Visante 3.0 supports these SOP Classes, as shown:

<table>
<thead>
<tr>
<th>SOP Classes</th>
<th>User of Service (SCU)</th>
<th>Provider of Service (SCP)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transfer</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Encapsulated PDF Storage</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Multi-Frame True Color SC Image</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Workflow Management</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modality Worklist Information Model - FIND</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

The Visante 3.0 does not support Media Interchange.
# 2 Table Of Contents

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3 Introduction

3.1 Revision History

<table>
<thead>
<tr>
<th>Document Version</th>
<th>Author</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Peter Ellis</td>
<td>9/03/2009</td>
</tr>
<tr>
<td>B</td>
<td>Peter Ellis</td>
<td>7/28/2009</td>
</tr>
<tr>
<td>A</td>
<td>Steve Deutsch</td>
<td>5/26/2009</td>
</tr>
</tbody>
</table>

3.2 Audience

This document is intended for hospital staff, health system integrators, software designers or implementers. The reader should have a basic understanding of DICOM.

3.3 Remarks

If another device matches this conformance statement based on the comparison with its own conformance statement, there is a chance, but no guarantee, that they interoperate. DICOM only deals with communication; it does not specify what is needed for certain applications to run on a device.

3.4 Definitions, Terms and Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE</td>
<td>Application Entity</td>
</tr>
<tr>
<td>AET</td>
<td>Application Entity Title</td>
</tr>
<tr>
<td>DICOM</td>
<td>Digital Imaging and Communications in Medicine</td>
</tr>
<tr>
<td>ILE</td>
<td>Implicit Little Endian</td>
</tr>
<tr>
<td>IOD</td>
<td>Information Object Definition</td>
</tr>
<tr>
<td>JPG-1</td>
<td>JPEG Coding Process 1; JPEG Baseline; ISO 10918-1</td>
</tr>
<tr>
<td>MWL</td>
<td>Modality Work List</td>
</tr>
<tr>
<td>RLE</td>
<td>Run Length Encoding</td>
</tr>
<tr>
<td>SCP</td>
<td>Service Class Provider</td>
</tr>
<tr>
<td>SCU</td>
<td>Service Class User</td>
</tr>
<tr>
<td>SOP</td>
<td>Service Object Pair, pair of user and provider.</td>
</tr>
<tr>
<td>TCP/IP</td>
<td>Transmission Control Protocol / Internet Protocol</td>
</tr>
<tr>
<td>UID</td>
<td>Unique Identifier</td>
</tr>
</tbody>
</table>

3.5 References

4 Networking

4.1 Implementation Model

4.1.1 Application Data Flow

The Visante 3.0 Software works together with network components to provide connectivity to a DICOM network.

4.1.2 Functional Definition Of AEs

4.1.2.1 Visante 3.0 Overview

Visante software version 3.0 provides primarily new features for 6-map comprehensive topography and relative pachymetry. Features include:

- Integration with ATLAS (corneal topographer) data
- 6-map Comprehensive topography analysis using a combination of ATLAS and Visante corneal surface data
- Holladay report
- Advanced pachymetry with relative pachymetry map
- Patient auto alignment
- DICOM connectivity
- Reference video eye image

4.1.3 Sequencing of Real-World Activities

To realize the real world activities, the different entities work together. The sequence diagrams shall depict the intended workflow.

The diagrams use slightly modified UML symbols. The asynchronous call is not depicted as suggested in UML. Some objects do have more than one dashed line. It symbolizes more than one thread.
All activities are initiated by an operator.

**Query Modality Worklist**
Visante 3.0 queries for work items related to the current day’s worklist. According to the transferred data Visante 3.0 creates entries in the local database (Patient, Study (Requested Procedure), Procedure Steps). The list of imported patients is displayed to the operator in the patient Browser. The operator can now select the patient for data acquisition.

**Acquire data**
The operator acquires data from patient’s eye using Visante 3.0.

**Store evidence reports**
The operator can trigger this activity by a click on a button.

### 4.2 AE Specifications

#### 4.2.1 Visante 3.0 Application Entity Specification

<table>
<thead>
<tr>
<th>SOP Class Name</th>
<th>SOP Class UID</th>
<th>SCU</th>
<th>SCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verification</td>
<td>1.2.840.10008.1.1</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Modality Worklist Information Model - FIND</td>
<td>1.2.840.10008.5.1.4.31</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Encapsulated PDF Storage</td>
<td>1.2.840.10008.5.1.4.1.1.104.1</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Multi-frame True Color Secondary Capture Image Storage</td>
<td>1.2.840.10008.5.1.4.1.1.7.4</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

#### 4.2.1.2 Associations Policies

**4.2.1.2.1 General**
DICOM standard Application Context Name is DICOM 3.0.

<table>
<thead>
<tr>
<th>Application Context Name</th>
<th>1.2.840.10008.3.1.1.1</th>
</tr>
</thead>
</table>

**4.2.1.2.2 Number of Associations**
Maximum number of simultaneous associations

1

**4.2.1.2.3 Asynchronous Nature**
Visante 3.0 does not support multiple outstanding transactions over a single Association.
4.2.1.2.4 Implementation Identifying Information

<table>
<thead>
<tr>
<th>Implementation Class UID</th>
<th>1.2.276.0.75.2.5.10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation Version Name</td>
<td>1.3.4.0606</td>
</tr>
</tbody>
</table>

4.2.1.3 Association Initiation Policy

4.2.1.3.1 Activity – Query Modality Worklist

4.2.1.3.1.1 Description and Sequencing of Activities

Visante 3.0 supports only a “Today’s Patients” MWL query. This query is a broad query based on Scheduled Procedure Step Date and Scheduled Station AE Title. The sequencing flow is shown in the figure in Section 4.1.3

New Procedure Step Created for MWL (Modality Worklist). Software version 3.0 deletes procedure steps for acquisition sessions that are canceled without saving any scans. A patient imported from MWL may not use the proper Study Instance UID and Accession Number if, after the import, the user enters data acquisition but cancels it without saving any scans. The imported patient in this case will not retain MWL imported data unless the user goes back to View Today’s Patient and re-imports this patient.

4.2.1.3.1.2 Proposed Presentation Contexts

<table>
<thead>
<tr>
<th>Presentation Context Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Modality Worklist Information Model – FIND</td>
</tr>
</tbody>
</table>

4.2.1.3.1.3 SOP Specific Conformance for Modality Worklist SOP Class

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Error Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Matching is complete</td>
<td>0000</td>
<td>Visante 3.0 finishes receiving worklist items.</td>
</tr>
<tr>
<td>Pending</td>
<td>Matches are continuing</td>
<td>FF00, FF01</td>
<td>If the number of received items oversteps 100 then the SCU sends an ABORT to the SCP and the operator gets a request to specify query keys more accurate.</td>
</tr>
</tbody>
</table>

* Any other status code |

The status label of the dialog shows an error message.

<table>
<thead>
<tr>
<th>Tags</th>
<th>Tag Name</th>
<th>Used in Today’s Patients Query</th>
<th>Used from Reply</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0008,1120)</td>
<td>Referenced Patient Sequence</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0010,0010)</td>
<td>Patients Name</td>
<td>Not Used</td>
<td>Used</td>
</tr>
<tr>
<td>(0010,0020)</td>
<td>Patient ID</td>
<td>Not Used</td>
<td>Used</td>
</tr>
<tr>
<td>(0010,0021)</td>
<td>Issuer Of Patient ID</td>
<td>Not Used</td>
<td>Used</td>
</tr>
<tr>
<td>(0010,0030)</td>
<td>Patients Birth Date</td>
<td>Not Used</td>
<td>Used</td>
</tr>
<tr>
<td>(0010,0040)</td>
<td>Patients Sex</td>
<td>Not Used</td>
<td>Used</td>
</tr>
<tr>
<td>(0010,0032)</td>
<td>Patients Birth Time</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0010,1000)</td>
<td>Other Patient IDs</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0010,1001)</td>
<td>Other Patient Names</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0010,2160)</td>
<td>Ethnic Group</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0010,4000)</td>
<td>Patient Comments</td>
<td>Not Used</td>
<td>Used</td>
</tr>
<tr>
<td>(0010,2000)</td>
<td>Medical Alerts</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0010,2110)</td>
<td>Contrast Allergies</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0010,21CD)</td>
<td>Pregnancy Status</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0038,0050)</td>
<td>Special Needs</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0038,0500)</td>
<td>Patient State</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0008,0050)</td>
<td>Accession Number</td>
<td>Not Used</td>
<td>Used</td>
</tr>
<tr>
<td>(0008,0090)</td>
<td>Referring Physicians Name</td>
<td>Not Used</td>
<td>Used</td>
</tr>
<tr>
<td>(0020,0000)</td>
<td>Study Instance UID</td>
<td>Not Used</td>
<td>Used</td>
</tr>
<tr>
<td>(0032,1032)</td>
<td>Requesting Physician</td>
<td>Not Used</td>
<td>Used</td>
</tr>
<tr>
<td>(0032,4000)</td>
<td>Study Comments</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0008,1110)</td>
<td>Referenced Study Sequence</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0032,1060)</td>
<td>Requested Procedure Description</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0032,1064)</td>
<td>Requested Procedure Code Sequence</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>(0040,1001)</td>
<td>Requested Procedure ID</td>
<td>Not Used</td>
<td>Used</td>
</tr>
<tr>
<td>(0040,0100)</td>
<td>Scheduled Procedure Step Sequence</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
<tr>
<td>&gt;0008,0060</td>
<td>Modality</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
</tbody>
</table>
4.2.1.3.2 Activity – Store evidence reports

4.2.1.3.2.1 Description and Sequencing of Activities
Refer to Section 4.1.3 for sequencing flow diagram.

4.2.1.3.2.2 Proposed Presentation Contexts

<table>
<thead>
<tr>
<th>Presentation Context Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
</tr>
<tr>
<td>Multi-frame True Color SC Image Storage</td>
</tr>
<tr>
<td>Encapsulated PDF Storage</td>
</tr>
</tbody>
</table>

4.2.1.3.2.3 SOP Specific Conformance for Image Storage SOP Class

<table>
<thead>
<tr>
<th>Service Status</th>
<th>Further Meaning</th>
<th>Error Code</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>Success</td>
<td>Success</td>
<td>0000</td>
<td>The belonging job gets a success state and will be removed from list.</td>
</tr>
<tr>
<td>*</td>
<td>*</td>
<td>Any other status code</td>
<td>The job gets an error state.</td>
</tr>
</tbody>
</table>

4.2.1.4 Association Acceptance Policy
The Visante 3.0 does not accept Associations.

4.3 Network Interfaces

4.3.1 Physical Network Interface
The physical network interface is not visible for the applications. The application uses the communication stack as offered by the Operating System.

4.3.2 Additional Protocols
No additional protocols are supported.

4.4 Configuration

4.4.1 AE Title/Presentation Address Mapping
The mapping from AE Title to TCP/IP addresses and ports is configurable and set at the time of installation by Installation Personnel.

4.4.1.1 Local AE Titles
The IP is administered by the Operating System and networking environment. The calling AET is configurable. The calling AET is the AET of the Visante 3.0.
4.4.1.2 Remote AE Titles
The mapping of external AE Titles to TCP/IP addresses and ports is configurable. The Visante 3.0 allows setting up one AE as Modality Worklist Provider and one AE as Storage Provider. For both AEs, the host or IP, the Port and the Application Entity Title must be known.

4.4.2 Parameters

4.4.2.1 Storage SCU Parameters
The association initiation timeout is configurable. Default is 10 seconds.

For Visante 3.0 the selectable compressions for the IODs are:
- Multi-frame True Color Secondary Capture
  - No Compression
  - RLE Compression
  - JPEG Baseline Compression
- Encapsulated PDF
  - No selection possible
5 Media Interchange

Media Interchange is not scope of this document since Media Interchange is not supported via Network Broker.
6 Support Of Character Sets

In addition to the default character repertoire, the Specific Character Set ISO_IR 100 ("Latin alphabet No. 1") is supported.
7 Security

The DICOM capabilities of the Visante 3.0 Application do not support any specific security measures. It is assumed that Visante 3.0 Application is used within a secured environment. It is assumed that a secured environment includes at a minimum:

- Firewall or router protections to ensure that only approved external hosts have network access to Visante 3.0 Application.
- Firewall or router protections to ensure that Visante 3.0 Application has network access to approved external hosts and services.
- Any communication with external hosts and services outside the locally secured environment use appropriate secure network channels (e.g. such as a Virtual Private Network (VPN))
### 8.1 IOD Contents

Abbreviations used for presence of values:
- **VNAP**: Value Not Always Present (attribute sent zero length if no value is present) – Applicable for Type 2, 2C.
- **ANAP**: Attribute Not Always Present – Applicable for Type 3
- **ALWAYS**: Always Present with a value – Applicable for Type 1
- **EMPTY**: Attribute is sent without a value – Applicable for Type 2

Abbreviations used for sources of data:
- **USER**: the attribute value source is from User input
- **AUTO**: the attribute value is generated automatically
- **MWL, MPPS, etc.**: the attribute value is the same as the value received using a DICOM service such as Modality Worklist, Modality Performed Procedure Step, etc.
- **CONFIG**: the attribute value source is a configurable parameter

#### 8.1.1 Encapsulated PDF IOD

The table shows the content of the Encapsulated PDF IOD.

<table>
<thead>
<tr>
<th>IE Module Reference</th>
<th>Usage</th>
<th>Presence of Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient C.7.1.1 M</td>
<td></td>
<td>Always</td>
</tr>
<tr>
<td>General Study C.7.2.1 M</td>
<td></td>
<td>Always</td>
</tr>
<tr>
<td>Patient Study C.7.2.2 U</td>
<td></td>
<td>Always</td>
</tr>
<tr>
<td>Encapsulated Document Series C.24.1 M</td>
<td></td>
<td>Always</td>
</tr>
<tr>
<td>General Equipment C.7.5.1 M</td>
<td></td>
<td>Always</td>
</tr>
<tr>
<td>SC Equipment C.8.6.1 M</td>
<td></td>
<td>Always</td>
</tr>
<tr>
<td>Encapsulated Document C.24.2 M</td>
<td></td>
<td>Always</td>
</tr>
<tr>
<td>Encapsulated Document SOP Common C.12.1 M</td>
<td></td>
<td>Always</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tag</th>
<th>VR</th>
<th>Name</th>
<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0010,0010)</td>
<td>PN</td>
<td>Patient's Name</td>
<td>Patient's full name.</td>
<td>ALWAYS</td>
<td>MWL or USER</td>
</tr>
<tr>
<td>(0010,0020)</td>
<td>LO</td>
<td>Patient ID</td>
<td>Primary hospital identification number or code for the patient.</td>
<td>ALWAYS</td>
<td>MWL or USER</td>
</tr>
<tr>
<td>(0010,0021)</td>
<td>LO</td>
<td>Issuer of Patient ID</td>
<td>Identifier of the Assigning Authority that issued the Patient ID.</td>
<td>ALWAYS</td>
<td>MWL or AUTO</td>
</tr>
<tr>
<td>(0010,0030)</td>
<td>DA</td>
<td>Patient's Birth Date</td>
<td>Birth date of the patient.</td>
<td>ALWAYS</td>
<td>MWL or USER</td>
</tr>
<tr>
<td>(0010,0040)</td>
<td>CS</td>
<td>Patient's Sex</td>
<td>Sex of the named patient. Enumerated Values: M = male F = female O = other</td>
<td>ALWAYS</td>
<td>MWL or USER</td>
</tr>
<tr>
<td>(0010,4000)</td>
<td>LT</td>
<td>Patient Comments</td>
<td>User-defined additional information about the patient.</td>
<td>VNAP</td>
<td>MWL or USER</td>
</tr>
</tbody>
</table>

#### Information Entity 'Study'

<table>
<thead>
<tr>
<th>Tag</th>
<th>VR</th>
<th>Name</th>
<th>Value</th>
<th>Presence of Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0008,0020)</td>
<td>DA</td>
<td>Study Date</td>
<td>Date the Study started.</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>(0008,0030)</td>
<td>TM</td>
<td>Study Time</td>
<td>Time the Study started.</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>(0008,0050)</td>
<td>SH</td>
<td>Accession Number</td>
<td>A RIS generated number that identifies the order for the Study.</td>
<td>VNAP</td>
<td>MWL or EMTPY</td>
</tr>
<tr>
<td>(0008,0090)</td>
<td>PN</td>
<td>Referring Physician's Name</td>
<td>Name of the patient's referring</td>
<td>VNAP</td>
<td>MWL or USER</td>
</tr>
<tr>
<td>Tag</td>
<td>Description</td>
<td>Modality</td>
<td>Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------------------------------------------------------</td>
<td>----------------</td>
<td>----------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0008,1030)</td>
<td>LO Study Description</td>
<td></td>
<td>EMPTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0008,1048)</td>
<td>PN Physician(s) of Record</td>
<td></td>
<td>VNP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0020,000D)</td>
<td>UI Study Instance UID</td>
<td></td>
<td>MWL or AUTO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0020,0010)</td>
<td>SH Study ID</td>
<td></td>
<td>ALWAYS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0010,1020)</td>
<td>DS Patient's Size</td>
<td></td>
<td>EMPTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0010,1030)</td>
<td>DS Patient's Weight</td>
<td></td>
<td>EMPTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0010,2180)</td>
<td>SH Occupation</td>
<td></td>
<td>EMPTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0010,21B0)</td>
<td>LT Additional Patient's History</td>
<td></td>
<td>EMPTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0008,0060)</td>
<td>CS Modality</td>
<td></td>
<td>ALWAYS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0008,103E)</td>
<td>LO Series Description</td>
<td></td>
<td>EMPTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0020,000E)</td>
<td>UI Series Instance UID</td>
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<td>ALWAYS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0020,0011)</td>
<td>IS Series Number</td>
<td></td>
<td>ALWAYS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0040,0244)</td>
<td>DA Performed Procedure Step Start Date</td>
<td></td>
<td>EMPTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0040,0245)</td>
<td>TM Performed Procedure Step Start Time</td>
<td></td>
<td>EMPTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0040,0253)</td>
<td>SH Performed Procedure Step ID</td>
<td></td>
<td>EMPTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0040,0254)</td>
<td>LO Performed Procedure Step Description</td>
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<td>EMPTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0040,0275)</td>
<td>SQ Request Attributes Sequence</td>
<td></td>
<td>ANAP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;(0040,0009)</td>
<td>SH Scheduled Procedure Step ID</td>
<td></td>
<td>ANAP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;(0040,1001)</td>
<td>SH Requested Procedure ID</td>
<td></td>
<td>ANAP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0040,0280)</td>
<td>ST Comments on the Performed Procedure Step</td>
<td></td>
<td>EMPTY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0008,0070)</td>
<td>LO Manufacturer</td>
<td></td>
<td>ALWAYS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Information Entity 'Equipment'

#### Module 'General Equipment'

<table>
<thead>
<tr>
<th>Tag</th>
<th>Description</th>
<th>Modality</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0008,0070)</td>
<td>LO Manufacturer</td>
<td></td>
<td>ALWAYS</td>
</tr>
</tbody>
</table>

Manufacturer of the equipment that produced the composite instances.

"Carl Zeiss Meditec"
<table>
<thead>
<tr>
<th>Tag</th>
<th>Class</th>
<th>Long Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0008,0080)</td>
<td>LO</td>
<td>Institution Name</td>
<td>Institution where the equipment that</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>produced the composite instances is located.</td>
</tr>
<tr>
<td>(0008,0081)</td>
<td>ST</td>
<td>Institution Address</td>
<td>Mailing address of the institution where</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>the equipment that produced the composite</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>instances is located.</td>
</tr>
<tr>
<td>(0008,1010)</td>
<td>SH</td>
<td>Station Name</td>
<td>User defined name identifying the machine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>that produced the composite instances.</td>
</tr>
<tr>
<td>(0008,1040)</td>
<td>LO</td>
<td>Institutional Department Name</td>
<td>Department in the institution where the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>equipment that produced the composite</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>instances is located.</td>
</tr>
<tr>
<td>(0008,1090)</td>
<td>LO</td>
<td>Manufacturer's Model Name</td>
<td>Manufacturer's model name of the equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>that produced the composite instances.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&quot;Visante OCT 1000&quot;</td>
</tr>
<tr>
<td>(0018,1000)</td>
<td>LO</td>
<td>Device Serial Number</td>
<td>Manufacturer's serial number of the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>equipment that produced the composite</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>instances. Note: This identifier</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>corresponds to the device that actually</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>created the images, such as a CR plate</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>reader or a CT console, and may not be</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>sufficient to identify all of the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>equipment in the imaging chain, such as</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>the generator or gantry or plate.</td>
</tr>
<tr>
<td>(0018,1020)</td>
<td>LO</td>
<td>Software Versions</td>
<td>Manufacturer's designation of software</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>version of the equipment that produced the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>composite instances.</td>
</tr>
<tr>
<td>(0018,1050)</td>
<td>DS</td>
<td>Spatial Resolution</td>
<td>The inherent limiting resolution in mm of</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>the acquisition equipment for high</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>contrast objects for the data gathering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>and reconstruction technique chosen. If</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>variable across the images of the series,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>the value at the image center.</td>
</tr>
<tr>
<td>(0028,0120)</td>
<td>US/SS</td>
<td>Pixel Padding Value</td>
<td>Value of pixels not present in the native</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>image added to an image to pad to</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>rectangular format. See C.7.5.1.1.2 for</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>further explanation. Note: The Value</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Representation of this Attribute is</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>determined by the value of Pixel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Representation (0028,0103).</td>
</tr>
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</table>

Module 'SC Equipment'

<table>
<thead>
<tr>
<th>Tag</th>
<th>Class</th>
<th>Long Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0008,0064)</td>
<td>CS</td>
<td>Conversion Type</td>
<td>&quot;SYN&quot; - Synthetic Image</td>
</tr>
</tbody>
</table>

Information Entity 'Encapsulated Document'

Module 'Encapsulated Document'

<table>
<thead>
<tr>
<th>Tag</th>
<th>Class</th>
<th>Long Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0008,0023)</td>
<td>DA</td>
<td>Content Date</td>
<td>The date the document content creation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>was started.</td>
</tr>
<tr>
<td>(0008,002A)</td>
<td>DT</td>
<td>Acquisition Datetime</td>
<td>The date and time that the original</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>generation of the data in the document</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>started.</td>
</tr>
<tr>
<td>(0008,0033)</td>
<td>TM</td>
<td>Content Time</td>
<td>The time the document content creation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>was started.</td>
</tr>
<tr>
<td>(0020,0013)</td>
<td>IS</td>
<td>Instance Number</td>
<td>A number that identifies this SOP Instance.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The value shall be unique within a series.</td>
</tr>
<tr>
<td>(0028,0301)</td>
<td>CS</td>
<td>Burned In Annotation</td>
<td>&quot;YES&quot;</td>
</tr>
<tr>
<td>(0040,0043)</td>
<td>SQ</td>
<td>Concept Name Code</td>
<td>Has never an item.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sequence</td>
<td></td>
</tr>
<tr>
<td>(0042,0010)</td>
<td>ST</td>
<td>Document Title</td>
<td>The value of the &quot;Title&quot; entry in the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&quot;Document Information Directory&quot; as</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>encoded in the PDF data.</td>
</tr>
<tr>
<td>(0042,0011)</td>
<td>OB</td>
<td>Encapsulated Document</td>
<td>Encapsulated Document stream,</td>
</tr>
</tbody>
</table>

P/N: 2660021134750 Rev: C  9/03/2009
containing a document encoded according to the MIME Type.

| (0042,0012) | LO | MIME Type of Encapsulated Document | "application/pdf" | ALWAYS | AUTO |

**Module 'SOP Common'**

| (0008,0012) | DA | Instance Creation Date | Date the SOP Instance was created. | ALWAYS | AUTO |
| (0008,0013) | TM | Instance Creation Time | Time the SOP Instance was created. | ALWAYS | AUTO |
| (0008,0016) | UI | SOP Class UID | "1.2.840.10008.5.1.4.1.1.104.1" | ALWAYS | AUTO |
| (0008,0018) | UI | SOP Instance UID | Uniquely identifies the SOP Instance. See C.12.1.1.1 for further explanation. See also PS 3.4. "1.2.276.0.75.2.2.20." as constant prefix for generated UIDs. | ALWAYS | AUTO |
8.1.2 Multi-frame True Color SC Image

The rows of not supported modules or tags are grey.

<table>
<thead>
<tr>
<th>IE</th>
<th>Module</th>
<th>Reference</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient</td>
<td>Patient</td>
<td>C.7.1.1</td>
<td>M</td>
</tr>
<tr>
<td>Study</td>
<td>General Study</td>
<td>C.7.2.1</td>
<td>M</td>
</tr>
<tr>
<td></td>
<td>Patient Study</td>
<td>C.7.2.2</td>
<td>U</td>
</tr>
<tr>
<td>Series</td>
<td>General Series</td>
<td>C.7.3.1</td>
<td>M</td>
</tr>
<tr>
<td>Equipment</td>
<td>General Equipment</td>
<td>C.7.5.1</td>
<td>U</td>
</tr>
<tr>
<td></td>
<td>SC Equipment</td>
<td>C.8.6.1</td>
<td>M</td>
</tr>
<tr>
<td>Image</td>
<td>General Image</td>
<td>C.7.6.1</td>
<td>M</td>
</tr>
<tr>
<td></td>
<td>Image Pixel</td>
<td>C.7.6.3</td>
<td>M</td>
</tr>
<tr>
<td></td>
<td>Multi-frame</td>
<td>C.7.6.6</td>
<td>M</td>
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<td>SC Image</td>
<td>C.8.6.2</td>
<td>U</td>
</tr>
<tr>
<td></td>
<td>SC Multi-frame Image</td>
<td>C.8.6.3</td>
<td>M</td>
</tr>
<tr>
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<td>SC Multi-frame Vector</td>
<td>C.8.6.4</td>
<td>C - Required if Number of Frames is greater than 1</td>
</tr>
<tr>
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<td></td>
<td>C.12.1</td>
<td>M</td>
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</table>

<table>
<thead>
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<th>VR</th>
<th>Name</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Information Entity 'Patient'</td>
<td></td>
</tr>
<tr>
<td>Module 'Patient'</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0010,0010)</td>
<td>PN</td>
<td>Patient's Name</td>
<td>Patient's full name.</td>
</tr>
<tr>
<td>(0010,0020)</td>
<td>LO</td>
<td>Patient ID</td>
<td>Primary hospital identification number or code for the patient.</td>
</tr>
<tr>
<td>(0010,0021)</td>
<td>LO</td>
<td>Issuer of Patient ID</td>
<td>Identifier of the Assigning Authority that issued the Patient ID.</td>
</tr>
<tr>
<td>(0010,0030)</td>
<td>DA</td>
<td>Patient's Birth Date</td>
<td>Birth date of the patient.</td>
</tr>
<tr>
<td>(0010,0040)</td>
<td>CS</td>
<td>Patient's Sex</td>
<td>Sex of the named patient. Enumerated Values: M = male F = female O = other</td>
</tr>
<tr>
<td>(0010,4000)</td>
<td>LT</td>
<td>Patient Comments</td>
<td>User-defined additional information about the patient.</td>
</tr>
</tbody>
</table>

<p>| Information Entity 'Study' |
| Module 'General Study' |
| (0008,0020) | DA | Study Date            | Date the Study started.                                             | ALWAYS | AUTO |
| (0008,0030) | TM | Study Time            | Time the Study started.                                            | ALWAYS | AUTO |
| (0008,0050) | SH | Accession Number      | A RIS generated number that identifies the order for the Study.     | VNAP   | MWL or EMPTY |
| (0008,0090) | PN | Referring Physician's Name | Name of the patient's referring physician | VNAP   | MWL or EMPTY |
| (0008,1030) | LO | Study Description     | Institution-generated description or classification of the Study (component) performed. | EMPTY  |     |
| (0008,1048) | PN | Physician(s) of Record | Names of the physician(s) who are responsible for overall patient care at time of Study (see Section C.7.3.1 for Performing Physician) | VNAP   | MWL or EMPTY |
| (0020,000D) | UI | Study Instance UID    | Unique identifier for the Study, &quot;1.2.276.0.75.2.2.2.20.&quot; as constant | ALWAYS | MWL or AUTO |</p>
<table>
<thead>
<tr>
<th>Tag</th>
<th>Data Type</th>
<th>Description</th>
<th>Mandatory</th>
<th>Default</th>
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</thead>
<tbody>
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<td>(0020,0010)</td>
<td>SH</td>
<td>Study ID</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>prefix if the value has been generated by the application.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0010,1020)</td>
<td>DS</td>
<td>Patient's Size</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Length or size of the Patient, in meters.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0010,1030)</td>
<td>DS</td>
<td>Patient's Weight</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weight of the Patient, in kilograms.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0010,2180)</td>
<td>SH</td>
<td>Occupation</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Occupation of the Patient.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0010,2180)</td>
<td>LT</td>
<td>Additional Patient's History</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Additional information about the Patient's medical history.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0028,0108)</td>
<td>US/SS</td>
<td>Smallest Pixel Value in Series</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The minimum value of all images in this Series.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0028,0109)</td>
<td>US/SS</td>
<td>Largest Pixel Value in Series</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The maximum value of all images in this Series.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0040,0244)</td>
<td>DA</td>
<td>Performed Procedure Step Start Date</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Date on which the Performed Procedure Step started.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0040,0245)</td>
<td>TM</td>
<td>Performed Procedure Step Start Time</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Time on which the Performed Procedure Step started.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information Entity 'Equipment'</td>
<td>Module 'General Equipment'</td>
<td></td>
<td>Module 'SC Equipment'</td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-----------------------------</td>
<td>-----------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0040,0253) Sh</td>
<td>Performed Procedure Step ID</td>
<td>User or equipment generated identifier of that part of a Procedure that has been carried out within this step.</td>
<td>EMPTY</td>
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</tr>
<tr>
<td>(0040,0254) Lo</td>
<td>Performed Procedure Step Description</td>
<td>Institution-generated description or classification of the Procedure Step that was performed.</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td>(0040,0280) St</td>
<td>Comments on the Performed Procedure Step</td>
<td>User-defined comments on the Performed Procedure Step.</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td><strong>Information Entity 'Equipment'</strong></td>
<td><strong>Module 'General Equipment'</strong></td>
<td><strong>Module 'SC Equipment'</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0008,0070) Lo</td>
<td>Manufacturer</td>
<td>Manufacturer of the equipment that produced the composite instances. “Carl Zeiss Meditec”</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>(0008,0080) Lo</td>
<td>Institution Name</td>
<td>Institution where the equipment that produced the composite instances is located.</td>
<td>VNAP</td>
<td>USER</td>
</tr>
<tr>
<td>(0008,0081) St</td>
<td>Institution Address</td>
<td>Mailing address of the institution where the equipment that produced the composite instances is located.</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td>(0008,1010) Sh</td>
<td>Station Name</td>
<td>User defined name identifying the machine that produced the composite instances.</td>
<td>VNAP</td>
<td>USER</td>
</tr>
<tr>
<td>(0008,1040) Lo</td>
<td>Institutional Department Name</td>
<td>Department in the institution where the equipment that produced the composite instances is located.</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td>(0008,1090) Lo</td>
<td>Manufacturer's Model Name</td>
<td>Manufacturer's model name of the equipment that produced the composite instances. “Visante OCT 1000”</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>(0018,1000) Lo</td>
<td>Device Serial Number</td>
<td>Manufacturer's serial number of the equipment that produced the composite instances. Note: This identifier corresponds to the device that actually created the images, such as a CR plate reader or a CT console, and may not be sufficient to identify all of the equipment in the imaging chain, such as the generator or gantry or plate.</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>(0018,1020) Lo</td>
<td>Software Versions</td>
<td>Manufacturer's designation of software version of the equipment that produced the composite instances.</td>
<td>ALWAYS</td>
<td>AUTO</td>
</tr>
<tr>
<td>(0018,1050) DS</td>
<td>Spatial Resolution</td>
<td>The inherent limiting resolution in mm of the acquisition equipment for high contrast objects for the data gathering and reconstruction technique chosen. If variable across the images of the series, the value at the image center.</td>
<td>EMPTY</td>
<td></td>
</tr>
<tr>
<td>(0028,0120) US/SS</td>
<td>Pixel Padding Value</td>
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### Information Entity 'Image'

#### Module 'General Image'

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#### Module 'Image Pixel'

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8.2 Coded Terminology And Templates
Not applicable.

8.3 Grayscale Image Consistency
Not applicable.

8.4 Standard Extended / Specialized / Private SOP Classes
Specialized SOP Classes are supported.

8.5 Private Transfer Syntaxes
No Private Transfer Syntaxes are supported.