

MINUTES

DICOM WORKING GROUP TWO **(Projection Radiography and Angiography)**

Date: May 14 & 15, 2013

Place: Société Française de Radiologie
75007 Paris, France

Presiding Officer: Francisco Sureda, Chair

Members Present

American College of Radiology
European Society of Radiology
GE Healthcare
Philips Healthcare
Siemens Healthcare
American Association of Physics in Medicine
European Federation of Organisations for Medical Physics
Toshiba Healthcare

Represented by

Donald Peck
Annalisa Trianni, Secretary
Francisco Sureda
Bas Revet
Heinz Blendinger
William Pavlicek (day 1)
Alberto Torresin (day 1)
Kevin O'Donnell

1. Preliminary Events

- The meeting was called to order at 09.15.
- Members identified themselves and their employments. A quorum was present.
- Members reviewed the agenda that was approved as such.
- The minutes from the meeting of February 12–13, 2013 Orlando, FL (USA) (see document [WG-02-2013-02-12-Min.docx](#)) has been reviewed and approved.

2. CP Review

- Members reviewed the advances of the CPs and new CPs related to the scope of WG-02:

Number	Name	Submitted	Assigned	Coded Status	Comments/Actions for WG-02
CP 1127	Add fields for Organ Dose to Dose SR	Kevin O'Donnell	Kevin O'Donnell	Assigned	Agreement that WG-28 will address this CP. No further action.
CP 1173	Clarify basis for Total Fluoro Time and Total Acquisition Time in XA Dose Report	Kevin O'Donnell	Kevin O'Donnell	Voting Package	Members reviewed CP_1173_02 created by Francisco Sureda. Now in Voting Package. To follow up by WG-02.
CP 1218	Correct further errors in UCUM codes and related meanings	Heinz Blendinger	Revet, B.	Final Text	In Final text. No further action.
CP 1223	Additional Items for Dose SR (by IEC PT 61910-1)	Heinz Blendinger	Revet, B.	Voting Package	It goes through the IEC group in July and then will be submitted to WG-06 in August. To follow up by WG-02.
CP 1282	cp_dac214_VMOFPositionerIncrements.doc	David Clunie	Clunie, D.	Assigned	WG-02 suggests to correct the attribute description of positioner increment: keep one value if increments are constant, refer to angles in the per-projection sequence otherwise. (Action: Francisco Sureda)
CP 1284	CP_fs_CorrectTyposIn X-Ray3D_01.doc	Francisco Sureda	Revet, B.	Voting Package	To follow up by WG-02.
CP 1285	CP_fs_IrradiationEvent UIDinX-Ray3D_01.doc	Francisco Sureda	Revet, B.	Assigned	Members reviewed the version 2 of the CP (CP1285_02). A new version of the CP will be created to address the comments of WG-06 (change type 1c to 3 and describe how to calculate the source of irradiation event sequence). Action: Francisco Sureda.
CP 1299	cp_dac220_VolumeTechniqueTomosynthesis.doc	David Clunie	Clunie, D.	Assigned	Correct the section numbering (Action: Bas Revet). No further action for WG-02.
CP 1305	CP_hb_correct_TID100_01_template_structure.doc	Heinz Blendinger	Revet, B.	Assigned	To redraw the figure (Action: Heinz Blendinger)
New	cp_fs_AddTableInfoTo X-Ray3D_01.doc	Francisco Sureda			To be submitted to WG-06 for June meeting. Send the CP and the document X-Ray_Angio_3D_Geometry_in_DICOM_01.pdf to WG-15 (Action: Francisco Sureda).

- Members reviewed the CP 1219. To send a comment to Harry Salomon to clarify the term *partial* in the CP (**Action: Francisco Sureda**).
- Members reviewed the CP 1253 (now in final text) and agreed with the changes made by WG-06.
- Members discussed the creation of a new CP to include some information already present in the structure content also in the header of the RDSR (i.e.: Observer and an extract of the Radiation Dose Module). (**Action: Annalisa Trianni**)
- New CP to clarify the meaning of X-Ray Filter (current are Spectral not Attenuation Block) (**Action: Donald Peck and Annalisa Trianni**).

3. Supplement 167: X-Ray 3D Angiographic Informative Annex

- The supplement 167 Draft 14 was reviewed by WG-06 in April 2013. Comments are reported in the document [Sup167_v14_review_WG-06_comments.xlsx](#). Members reviewed these comments, updated the comments file and drafted a new version of the supplement (see [Sup167_X-Ray_3D_Angiographic_Informative_Annex_Draft16.doc](#)). Two more comments to be fixed: a new

version of the supplement will be created and distributed by the end of June (**action: Francisco Sureda**) to be reviewed for the next WG-02 meeting (**action: all**).

- Add a use case of direct reconstruction without DICOM projections and mention the use of the irradiation event UID (**Action: Francisco Sureda**).

4. Dose Structured Report

- [Dose SR extension to enable skin dose calculation in X-Ray Projection](#): Members reviewed the list of additional data needed in the RDSR for skin dose calculation. The document [Dose_SR_enahancement_for_SkinDose_03.xls](#) has been created. Members agreed that no new CP will be prepared until the White Paper on Patient Dose to be written by AAPM TG 246 will be available. The mapping of these attributes to the existing Dose SR items and/or the equivalent attributes in the image header will be continued (**Action: Francisco Sureda**).

5. Supplement 121: Detailed Protocol Settings

- Members reviewed the document Sup121_14c “Modality Procedure Plan and Protocol Storage” and discussed how it can be reused to describe the protocol parameters in angiography. Some use case for angiography were identified. Moreover MITA published the new standard on QC mode that requires to exchange protocol data. To avoid multiple proprietary implementation DICOM should investigate the creation of a standard. A Tcon took place as planned on **Tuesday 14, 3:00 pm Paris time**, to discuss this topic. Kevin O’Donnel joined the Tcon. WG-02 will wait for the next version of Sup121 to start a possible new supplement for XA.

6. Follow –Up Topics

- [Frame Of Reference](#): Invite WG-07 to the next WG-02 meeting in July in Munich (**Action: Francisco Sureda**).
- [Injector Record SR](#): Members reviewed the [sup164_Contrast_Agent_Admin_Reporting_v12.doc](#). WG-02 will concentrate on the synchronization of contrast object with the image object. To be followed by the WG-02.
- [X-Ray Angiography Application cases for the Multi-dimensional Presentation State](#): To be followed up by the group after WG-06 June meeting.
- [Promotion of the Enhanced XA/XRF SOP Class and Radiation Dose SR SOP Class](#): No updates since last meeting.
- [IHE REM Profile](#): Members reviewed the new CP related to the REM profile (CP191). It does not impact the acquisition modality. No further action.
- [Patient Dose SR](#): Refer to minutes of WG-28 May meeting.
- [Ambient Dose in X-Ray Projection](#): No updates since last meeting. No further action.
- [Operator Dose](#): Refer to minutes of WG-28 May meeting.

7. Reports from liaisons with other groups and organizations

- For AAPM, EFOMP and DICOM WG-28 liaisons refer to WG-28 May meeting.

- **Francisco Sureda** reported on the MITA X-Ray Interventional activities related to MITA XR 27-2012 *User QC Standard*.
- **Heinz Blendinger** reported on the IEC Interventional activities related to radiation dose reporting. Comments and votes from national committees waited by June 28.

8. New Work Items for WG-02

- No new Work Items.

9. Planned Meeting Dates in 2013

- **July 2 and 3, 2013** in *Munich*. Room confirmed.
- **October 29 and 30, 2013** in *Berlin*. Room confirmed.
- It has been proposed to meet in conjunction with WG-28 at SIIM (May) instead at SPIE (February) for 2014 and to plan the meeting in Munich near the time of ECR. Confirmation is ongoing.

Refer to the document [*NextMeetingsWG-02_2013_rev04.pptx*](#) for a more detailed planning of the next meetings and interactions with the WG-06, WG-11 and WG-28.

10. New Business

- New topic related with CBCT in radiotherapy, CT and XA to be discussed during next meeting in June (refer to CP804).
- Annex AA of Part 17 has to be updated concerning Radiation Dose Report Use Cases (i.e.: including the diagram of the CP 1173).

11. Adjourn

The meeting was adjourned at 16.15 on May, 15.

Submitted by: Annalisa Trianni
Secretary

Reviewed by: CRS 2013-05-16