

MINUTES

MEETING NAME 09-WG33: WG-33 Data Archive and Management

MEETING PLACE/DIAL IN

DATE & TIME Wednesday, November 18, 2020 | 11:00 am – 12:30 pm US ET

PRESIDING OFFICERS Matthew Bishop, UnityPoint Health
Keith Eklund, Healthcare Tech Solutions

VOTING MEMBERS PRESENT

American College of Radiology	Maldonado, Josh
Argentix Informatix	Silver, Elliot
DesAcc EMEA	King, Graham
Grafimedia	Georgiadis, Pantelis
Healthcare Tech Solutions	Eklund, Keith
Laitek, Inc.	Brown, Barry
Laitek, Inc.	Solomon, Harry
Mayo Clinic Rochester	Persons, Kenneth

OTHERS Hyland Software Ullrich, Mike
London Health Science Center Aizawa, Luiz

VOTING MEMBERS ABSENT

AAPM	Bevins, Nicholas
AAPM	Knazik, Shayna
Ambra Health	Ostrow, Daniel
Canon Medical Research USA	O'Donnell, Kevin
Canon/Vital Images	Dawson, Tim
Canon/Vital Images	Whitby, Jonathan
Change Healthcare	Ho, Kinson
European Society of	Mildenberger, Peter

Radiology	
GE Healthcare	Nichols, Steven
GE Healthcare	Numan, Jouke
Laitek, Inc.	Costea-Barluti, Razvan
Laitek, Inc.	Sluis, Douglas
Mach7 Technologies	Ulanov, Alexey
PixelMed Publishing	Clunie, David
Society for Imaging Informatics In Medicine	Bishop, Matthew
Society for Imaging Informatics In Medicine	Carey, Cheryl
Society for Imaging Informatics In Medicine	Henson, Kyle
Varian Medical Systems, Inc.	Schwere, Thomas

DICOM Anna Zawacki, SIIM
SECRETARIAT

1 CALL TO ORDER AND REVIEW OF ANTI-TRUST RULES AND DICOM PATENT POLICY (Co-Chairs, Secretariat)

The meeting was called to order. Guidelines for Conducting NEMA Meetings were read and attendance was recorded.

2 REVIEW AND APPROVE AGENDA (Co-Chairs)

The agenda was reviewed and approved.

3 REVIEW MINUTES (Co-Chairs)

The minutes of the previous meeting were reviewed and approved.

4 TOPIC ITEMS TO BE DISCUSSED (All)

Review & address WG-06 comments to the Supplement presented by Harry on 11/11

Last week WG-06 met and reviewed the Supplement and we were assigned a number #223. There were many changes that came from that meeting.

The first thing WG-06 wanted the Equipment Info Entity added in. Adding equipment that creates the inventory, allows for more traceability.

The 2nd thing they asked about was the relationship between Study and Imaging Service Request – in our model it's 1 to 1 – IHE says it may actually be 1 to M.

The way IHE handles it – at the series level you can have the request attributes sequence that can point to multiple imaging service requests. If indeed a PACS is implementing that, they have a way now of putting that info in. Added note - Request attribute sequence may be used to support series related to multiple imaging service requests – refer to IHE for more info.

The 3rd thing WG-06 was interested in was an Informative Annex.

Started drafting up the Annex, it needs to be fleshed out in details before next WG-06 mtng in January. We need volunteers to do a close read and editing of this draft. Ken, Luiz, Graham and Mike agreed to help with that.

Since last mtng, we added in part 3, Annex F – for internal DICOM consistency we need to be able to specify how inventory objects are transferred on media. Although not a common use case, we can see cases when you want to get inventory of all the studies and send by media to some other location. Defining a directory record type so you can put inventories onto DICOM exchangeable media.

The biggest open item still to be resolved is whether we should specify a means to get an inventory of all of the studies with an empty study date/time or empty patient id. Consensus that we should. But how would we specify that?

Perhaps it's a flag that it's a no value, ask for inventory of studies with a no value of this attribute tag.

Can we use the same format CFIND uses? Can't ask for a matching one on an empty value. HL7 has a convention – put in a pair of quotes, a quoted string that's empty, but in DICOM we don't really have that. No way of explicitly finding no values.

Harry to think about this and propose something. New tag – empty attributes. Matching against attributes that are empty. Would there be any reason to limit it to Study Date/Patient ID.

Another thing added in - Ability to have a message authentication code, hash of the file, so you can store in your database a message digest or hash of the file to ensure it has not been corrupted.

Another addition - for the response to the inventory creation request

Names of the files, that the inventory is in, also included the transfer syntax for the inventory file. Part 17 draft. These inventory objects themselves if they are stored as part 10 files could be stored with the deflate transfer syntax and you should probably get a pretty good compression on these as there would be a lot of repetitive data within an inventory. Probably get 50-70% reduction in size just by doing the deflate on them.

For Part 17

Start off with an intro to the environment about PACS and the amount of data they are storing, go through description of inventory IOD, talk about how you might have to have multiple inventory instances, for the inventory initiation, scope of the inventory, accessing the repository data, ability to extend the inventory IOD with standard extended conformance, go through use cases, first on migration, then back-ups and research, go through the services that have been defined associated with the inventory IOD. WG-06 wanted a section about security considerations and a section about a relationship between creating inventories and doing a query – need to determine where this section will go.

What are the next steps for the group?

1. Finish the drafting of part 17 section
2. Review the proposal for finding the empty attributes, make sure language is clear
3. Goes back to WG-06 in January where we ask for 6 hours of agenda time to go carefully through the entire supplement and release it for public comment

Their mtng is the week of Jan 11, they will probably schedule us for 2 hours on the 11th, 2 hours on the 13th and 2 hrs on the 14th. That's a typical spread. It will depend on what else is on their agenda for that week.

Draft completed before our next mtng. Everyone needs to take a good look/read of the supplement.

Next mtng is Dec 9, will determine if we need to meet on Dec 23 or Jan 6.

5 OLD BUSINESS

6 NEW BUSINESS

7 DATE AND TIME OF NEXT MEETINGS (Secretariat)

- Continue T-con meetings bi-weekly for the time being
- Next call is December 9, 2020 between 11:00 am and 12:30 pm ET

<u>NEMALINK CODE</u>	09-WG33
<u>SUBMITTED BY</u>	Hull, Carolyn
<u>SUBMITTED ON</u>	1/12/2021
<u>LEGAL APPROVAL</u>	1/18/2021
<u>UPLOAD LOCATION</u>	Enter upload location.