

2022-09-15 DICOM WG-10 and 29 meeting

Minutes

<u>MEETING NAME</u>	WG-10 and 29	
<u>MEETING PLACE/DIAL IN</u>	Fairmont Le Montreux Palace, Av. Claude-Nobs 2, Montreux, Switzerland	
<u>DATE & TIME</u>	Thursday, September 15, 2022, 9:00AM-5:00PM local time	
<u>PRESIDING OFFICERS</u>	Canon Medical Research USA Kevin O'Donnell AAPM/UAMS Lawrence Tarbox	
<u>VOTING MEMBERS PRESENT</u>	AAPM/UAMS Lawrence Tarbox Canon Medical Research USA Kevin O'Donnell Philips Jeroen Medema Raster Images Suresh Viswanathan Siemens Healthineers Bjoern Nolte	Click here to enter text.
<u>OTHERS</u>		
<u>VOTING MEMBERS ABSENT</u>		

1. **CALL TO ORDER AND REVIEW OF ANTI-TRUST RULES AND DICOM PATENT POLICY** The meeting was called to order. Staff reminded members of the [Guidelines for Conducting NEMA Meetings](#) and Patent Disclosure Policy: <https://www.dicomstandard.org/patent>.
2. **WELCOME/ATTENDANCE/INTRODUCTION** The attendance was taken.
3. **REVIEW AND APPROVE AGENDA** The agenda was reviewed and approved.
4. **REVIEW MINUTES (WG-10 and WG-29)**
5. **TOPICS- WG10- AM (through 12/1)**
 1. Co-Chair recruitment- Ken Persons has retired. One member suggested recruiting another large organization for the user chair that is working through DICOM issues. Another suggestion for a European organization, e.g. Leeds.

Action: Members to touch base w/RSNA informatics leadership or European. Some EU initiatives that are going on—additional people through IHE.

Action: Kevin O'Donnell /Carolyn Hull look at minutes for users; Bjoern Nolte to talk with through IHE and RSNA.

Ideally, pick out names and do this next time.

2. Kanban/DICOM 2040-

1. Reviewed future trends in the document.
2. Patient number-India is coming to a patient number, unique per patient, linked to other national IDs. It will be an index but not exactly a centralized record.
3. Compelling alternative to disks- continue to think about how to do this.
4. Cloud-based patient record to not have to bridge hospitals, security, etc.
5. The group conducted a review of questions. Figure out who is the best group to evaluate and answer them.

Action: Draft core principles of DICOM? Here are some things that should be true about DICOM

***Action:** second- Concepts of DICOM- first few things to know. WG-29.

Patient-acquired data and adding in metadata/quality. Sensitive images.

- **Documentation photo**, e.g. DICOM-based solution with photo, e.g. dialysis. Do we need to understand those order/workflow patterns and support additional fields to link into those workflows better? Standing order ID v. accession #.
- **Data Models and Workflow:** There is an opportunity for DICOM to enrich the data model to get complete picture with regard to use cases and work flow.
- **Research as user of DICOM-** notion of a visit/encounter more interested in longitudinal. Issues: deidentification within longitudinal research. More in EU-(also involved in EU-CAN Archive), supposedly European Parliament is taking that up to figure out how to support research in GDPR. Issues include balancing data utility with not tracing to patient. Anchor point date, e.g. Gather items into a project or collection. There is \another level to the model that DICOM does not have. Use a private data element to track. Theoretically, can use some of the data for clinical trial, not an extra field.
 - Privacy-related aspects: High-resolution scan that includes the head, service reconstruction- can get facial biometrics to work. Social media, e.g. Get rid of facial features without getting rid of utility.
- Other aspects: **Project collection, large volumes of data, cohort-finding: population-based query (big query=sequel), use a more ontological approach.** These may be related to site needs for archive mgmt., not individual pt oriented. Everyone does their own ETL background processes, maintaining a mirror index/database of the VNA content. Research also needs Q and R cross-institution, not well supported today.
 - This would ideally need a business case.

- **One research business case: Personalized medicine**, AI would review your information. Local training of AI. To do this, need cohort-building style.
- **Population health/epidemiology uses**: ACR-type dose, e.g. likely lots will be in the EMR v. DICOM. NLP- is used more. Ingest DICOM SR, put into an ontological format, CSV file. Summary format for research and other.

Discussion: Will shifting structures affect interoperability boundaries?

There is currently a shift from department-centric imaging to cross-hospital. How might an outsourced storage model evolve? Continued to have standardized mechanisms to move, but instead of going to a local site, maybe a cooperative or province-wide, e.g. Boundary between a local/active care provider and collection of data available externally for patient currently under their care. Need to provide locally generated new data into the external storage, appropriate linked/chained. Interoperability between imaging and specialties beyond “query for what you want and take it” or linkages between imaging/labs, imaging/path, etc.

Ability to support daisy-chain activities, when acquisition data processing is “done.”

Action: Kevin to put together items and turns into a slide deck

3. WG-6 recommendation to update LB dates, etc. at DSC FYI- No vote necessary but support from the group.
4. ISO 12052 status update- link the ISO TC 215 representatives for DICOM companies to support them. Ballot comes due in January or December,

Action: Carolyn to set up a WG-10 meeting in November or December.

Meetings next year-

6. TOPICS- WG29 - PM (through 5:00PM)

1. 2023 conference planning overview: Chennai – Potentially do a Connectathon on the front or back end of the meeting as well.

Local coordination of the network would be ideal. Local presenters are good to understand users, adoption, points of interest, etc.

Additional topics: Differences between rural, urban, geographic areas.

Usually charged for attendance. Maximize attendance, minimize fees.

Local team can take care of planning, will be charging which will cover food and incidentals.

Room block ideally- sometimes includes a bus. They would aim to get some sponsors as well, show space.

Action: Look into a travel agency- arranged hotel, buses, etc. Took out of hotel commissions.

WG-27, WG-20, etc. Report modeling, etc. make sure the word gets to the WGs so that discussion happens. Also, ensure government participation.

Proposal- Motion, second to formally propose meeting to hold Conference, DSC, Hackathon dates TBD- late September, early October. *Motion carried unanimously.*

Action: Planning, abstract, smaller WG-29 subgroup. Conference logistics. Local organizer would be involved.

Action: Set up a conference website- early fall 2023 in Chennai.

2. WG-10 SWOT action items-

1. Booklet/capture- collection of information, how to present this. Another possibility- annotated examples, supplement for a new IOD, have an example. Do not explore background thinking of why it was done. At that moment, could do an annotated example to capture.

*for that part at least.

Confluence, e.g. upload. One item is for new people writing supplements, not really any reference book or rules of the road.

Action: Maintain list of Opportunities; coordinate hot topics, create some material. YouTube videos – quick slide of a trial implementation. Tried to do and haven't done in WG-14 (bring up again). WG-29 to create a to-do list from these.

Action: Promote top 5 strengths in SWOT, DICOM news- supplement announcements. Catalogue what we have, make sure it looks like. Pick 3 or so messages to work on 6-month campaign cycle, what are our 3 message for this cycle. Add to WG-29. For each 6 months or so: Misperception, new feature, success story.

Action: Organize speakers to work at conferences: Coordinate presenters- DICOM education activity and DICOM recruiting tool. Where targets are is up to WG-29- professional societies, etc.

Action: Work on capturing DICOM institutional knowledge capture.

3. Review of Archiving ideas/use cases- FTP, Atlassian, etc.

Rob's update: Usage are secondary, time for Rob is #1 priority

Uses:

- Need to mirror a tree
- Edit on a serv
- Confluence drawback: everything is manual.
- Rigid file naming is good- searching for Agn, e.g.
- Releases of standard- special
- CHTML- link to sections, tables, etc. – large success
- Large files: FTP is not great on “is it new” question
- Experience with GIT-

Limitations with Git:

- Can't mirror subtree
- Badly on large and binary files
- Recommends under 1G for best performance

Confluence:

FTP WG-

- W3C use of Git
 - Many have switched to Git. Similar workflow to
- IHE ITI is using GitHub.

Github

- Git is agnostic w/r/t change governance process.
- Ideal to do workflow, then governance up first; have to decide where to keep the master

Atlassian-do we have this? **Action:** CH look into this.

Potential branching—CP and supplement (featured branching

Gitflow

Forking workflow- public and private Git repositories that operate within certain groups.

Steve Nichols- ITI- helpful for FHIR-based profiles. Content can be transferred into FHIR IT builders. Issue tracking included as part of CP process, which is somewhat confusing. The HL7 Gender project created a Git repository and was helpful. Planning uses a Kanban page and can move around. Started to use Git for CPs. Change tracking is good but visualization of changes is not great.

GitHub is blocked some places.

One member noted we could take existing FTP structure and convert to Git without changing. Changing too much at one time would not be ideal. Suggestion: start with doing replace FTP with Git. Preserve history.

Meeting minutes—approving, for website—depending on how we set up Git, could use interchangeably with FTP. FTP could be a repository. Could serve up the directory as FTP. Git will keep track of file names.

Action: Carolyn Hull note—overview of DICOM procedures, etc. webinar, whatever.

Start with current governance: this is how we develop CP, supplement, how meeting structures are ordered and done on FTP and write it down. Find things – how we would do in a Git structure, pick a work flow. See one that we like a meet our needs. Has W3 governance for Git.

Action: Steps: 1. Document what we have – supplement, CPs, reports/presentation (Rob Horn, Bjoern, and David -B&D review to put together) for WG-6 and DSC PowerPoints, agendas, minutes and meeting support docs and keeping in mind (Shayna and Carolyn).

Here is how we manage these on FTP/Confluence then here is how we publish them: Minutes on website, supplements/CPs on website, etc. ALSO: issues- access, browser support, etc. finding new adjuncts or shifting tooling. (as by WG-6) THEN say

2: proposal is to do XYZ with them and how they approve.

3. Larry can upload things onto Bitbucket/GitHub and create directory tree. Try mirroring WG-14.

4. Get feedback from companies from their security access control concerns going to be- what will you have for these other candidates? Git, Dropbox, Google docs, etc. which of those have issues?

Tools for images if available: Kee-ops (key ops), X-net, TCIA tool-NBIA or Orthanc-Ort

Normal users-mirror documents. At least consider minimalist solution to the problem. Minimalist solution is directory tree on a server.

Git has version control.

Managing images- if data images

Steve Nichols:

- Historical content- historical versions of Supps, CPs, PPTs-
 - Helpful to understand if WGs relate to issues I am dealing with.
 - Use “search server” in filezilla
 - Challenges: corporate security controls
 - Search for meeting notes, who was there, major decisions
- Search for related (cross-part) content
 - Using current publication standard-full html for context. Keeps several browsers open
 - Full HTML needed to search
 - CHTML helpful when communicating targeted context
 - Historical version to the standard
 - Painful for Pt. 18
 - URLs/locations are different
- Other SDOS:
 - IHE (Rad) technical and planning use Google Drive
 - Good: publicly available
 - OK: to find old version of tech framework
 - Bad: Difficult to search, have to know where stuff is, rely on file names, lots of “try-do”
 - Need corporate IT exception to access
 - IHE Europe
 - Zoho (for connectathon)- free CRM
 - Not comfortable with Google IP policies
 - One other tool for IHE/Catalyst (private, like IHE services documents, engagements, etc.)- ask Charles or someone else.
 - Confluence (HL7)
 - OK: JIRA for ballot. Good: link ballots, bad: lots of clicks, process cryptic
 - OK: search
 - OK: Browse and look around
 - Bad: Manual operations
 - AAMI/Continua/UL
 - Custom? Areas for ea. WG
 - Used for events/meetings, rosters, and ballot items (re: document, ballot content is usually stored somewhere else)
 - Not public
 - Event: meetings

The only issue is space for laptop but could work this out. Role of this group- explore issues, put together some proposals. WG-6 would require moving forward. Would be helpful to ask all the WGs.

4. Potential listserv update- Reviewed answers from the group.

Email list- used to having a mailing list function- burst out to those.

2 flavors of solution: Mailing list, others are online, forum-type solution. Somewhere the archive listed, said move to forum. From their understanding, that was a requirement. Actually, not so. If had an archive email list, and have that somewhere.

Potentially, talking about piloting another solution.

Some package that open source seems to use- sort by thread and date. If we are going to request a new system and we'd like to go with a mailing list. Do we have preferences for a particular mailing list solution? (Mailman, but no longer). Primary use—is the primary use for mailing conversations? And other requirement to somehow maintain the archive-

Action: Discuss switching servers with IT and if they have ideas. Preferred list solution. Tell us what it is and we can take a look. Or if open, something like what Rob just put up. Set up another call on expectations, etc. then set up a pilot.

Possible options: Mailman (maybe ideal), Listserv, Mailtrain (newsletters), List Monk- do a search for them.

7. OLD BUSINESS

8. NEW BUSINESS

9. DATE AND TIME OF NEXT MEETING

Next DSC meeting @ RSNA, Chicago, USA, Thursday, December 1

Next WG-10/29 meeting

(not SIIMINI)- 2-3rd, week of IHE/ITI, Oct. 17-21 Japan Connectathon, week of the 10th- not on 13-14. (Doodle for mid-October). 10th-end of October, then after RSNA.

WG-10- push off until December

Adjourn 5:05PM CET

Submitted: 11/18/22

Legal: Bezael Stern 11/20/22