



Secretariat: MITA/NEMA  
 1300 North 17th Street, Suite 900  
 Arlington, VA 22209, USA  
<http://www.dicomstandard.org/>  
[dicom@dicomstandard.org](mailto:dicom@dicomstandard.org)  
 +1-703-841-3259

MINUTES t-con  
**DICOM WORKING GROUP TWENTY**  
**(Imaging Integration Information Systems)**  
 &  
**HL7 IMAGING INTEGRATION WORK GROUP**  
 May 22, 2019  
 10:00-11:00 US ET

Presiding Officer:  
 DICOM Secretariat:

Jonathan Whitby, Vital/Canon  
 Luiza Kowalczyk, MITA

Present	First Name	Last Name	Organization	Voting Status
Present	Chris	Treml	ACR	Observer
Present	Bill	Wallace	Agfa HealthCare	Voting
Present	Isaac	Vetter	Epic	Observer
Present	Will	Maethner	Epic	Observer
Present	Steven	Nichols	GE Healthcare	Observer
Present	Tanner	Trombly	Nuance	Observer
Present	George	Kustas	Nuance	Observer
Present	Sander	Kloet	Nuance	Observer
Present	Brad	Genereaux	NVIDIA	Voting
Present	Ricardo	Quintano	Philips	Observer
Present	Chris	Carr	RSNA	Voting
Present	Niklas	Svenzen	Sectra	Voting
Present	Jonathan	Whitby	Vital/Canon	Voting

## 1. **Opening**

- 1.1. The meeting was called to order at 10:00 a.m. US ET.
- 1.2. The antitrust rules were reviewed, and DICOM patent policy as well.
- 1.3. The agenda was approved: <https://confluence.hl7.org/display/IMIN/2019-05-22>

## 2. **2019 September Agenda:**

- 2.1. Agenda link: <https://confluence.hl7.org/display/IMIN/2019-09+WGM>

**Secretary Note:** Q4, Tuesday Sep. 17<sup>th</sup>, 15:30-17:00 local time, Infrastructure and Messaging is hosting II/WG-20 to discuss the FHIRcast transition from II to InM.

Since the HL7 CCOW work group was merged into the Infrastructure and Messaging in work group in 2010, the Technical Steering Committee (TSC) thinks that FHIRcast should be under the InM ownership not II/WG-20.

## 3. **FHIRcast**

### 3.1. FHIRcast ballot comment resolution ([Project 1392 FHIRcast: Application Context Synchronization in FHIR](#)).

- The following issues related to web sockets were addressed today:
  - [Issue #33](#);
  - [Pull request #57](#);
  - [Issue #61](#) (reference point DICOMweb: <http://dicom.nema.org/medical/dicom/current/output/chtml/part18/sect 8.1 0.4.html>).
  - Which route should we take? Should web sockets be incorporated in the FHIRcast directly or through the intermediary, open-source STOMP specification?
  - **Motion:** We will move forward with extending Websub to incorporate websocket support in lieu of the more complete and complex alternative messaging framework specified in [STOMP](#). We will publish PR [#57](#) on fhircast.org. We will modify the approach described in [#57](#) to allow the subscriber to connect over wss:to a hub-provided url in the subscription response, instead of connecting directly to the hub.topic as a url. We will investigate replicating the verification of intent step from Websub when websockets is used. (1-0-14)
- <https://fhircast.org>-This site is the latest and greatest, unstable and un-balloted version of the specification based upon community input; whereas,
- <https://fhircast.hl7.org> is more formal, contains balloted, frozen content and isn't changed after it gets published.
- Link to comment resolutions: <https://github.com/HL7/fhircast-docs/issues?utf8=%E2%9C%93&q=is%3Aissue+is%3Aopen+label%3Aballot+-label%3Aresolved>

## 4. **Imaging Study Resource**

- 4.1. If we want to bring it to normative stage 5, we need to be there by January next year, and do the testing at the connectathon. We need to organize the connectathon tracker item for it. Jonathan has volunteered to do the tracker. Time: 2019 September-2020 January.
- 4.2. Imaging References-At the last WG-20 F2F mtg, it was agreed to bring imaging study back, it is a good idea to create extensions linking other references to imaging. The easiest way to do it by the Imaging Manifest.

## 5. **Work in progress**

- 5.1. Please click on the following link to see work in progress:

<https://confluence.hl7.org/display/IMIN/Works+in+Progress>

## 6. **DICOM WG-23 Artificial Intelligence/ Application Hosting**

- 6.1. Members of WG-23 are working on the DICOM Structured Report. It is a SR working document not the end of the process. Members of WG-23 need to be aware of the mapping between AI results and objects in FHIR
- 6.2. Link to DICOM WG-23 minutes: <http://dicom.nema.org/Dicom/minutes/WG-23/2019/>

## **Reminder - AI Coalition at SIIM 2019 & C-MIMI 2019**

- SIIM 2019: Fri 28 June 2019, 5:15-6:45pm in Adams B at the Gaylord Rockies – call-in will also be available
- C-MIMI 2019: 22-23 Sept 2019, TBD, probably the same, on Monday afternoon

AI Coalition Town Hall: A coalition of medical industry associations including ACR, MITA, DICOM and SIIM will host a town hall to field discussion about the AI & ML challenges faced by the medical imaging community. The first half of the session will highlight the conception and progress of a DICOM project, started by a similar meeting at the September 2018 C-MIMI conference that aims to provide a standardized method for displaying AI results. The second half of the session will be an open forum for interested members to voice concerns about issues like usability, ease of integration, development, or standardization.

## 7. **RSNA-Chris Carr**

- 7.1. RSNA is planning a demonstration of emerging data technologies at the RSNA 2019 Annual Meeting. The intent is to show the clinical benefits in medical imaging of new tools enabled by advances in computer technology and informatics. The demo will emphasize the importance of interoperability standards in bringing these advances into regular practice.

Specifically, we would like to showcase applications that use Artificial Intelligence (AI) and Common Data Elements (CDEs) to enhance:

- Ordering, scheduling and protocoling
- Acquisition and reporting workflow
- Detection, image analysis, and reporting
- Follow-up management and therapy
- Population health and research

The standards we hope to incorporate in the demonstration include:

- ACR-RSNA Common Data Elements
- FHIR R4
- DICOMweb
- FHIRcast
- SMARTonFHIR
- IHE IT Infrastructure and Radiology Profiles

We look forward to getting your feedback on our plan and discussing your initial interest in taking part. We invite you to join us for discussion of the planned demo in two teleconference sessions, Wednesday, May 29 and Tuesday, June 4, both 11 am - Noon CT.

[RSVP using the form linked here](#) and you will receive a calendar invitation to take part in these calls.

## **8. Next Meetings:**

### **T-cons**

- WG-20 II t-cons focused on the FHIRcast ballot comment resolution Tuesday, May 28, 2019, 10:00-11:00 US ET
  - Thursday, May 30, 2019, 10:00-11:00 US ET
  - Tuesday, June 18, 2019, 11:00-12:00 US ET
  - Thursday, June 27, 2019, 10:00-11:00 US ET
- Regular WG-20 II t-cons:
  - Thursday, June 20, 2019, 10:00-11:00 US ET

### **In Person**

- At the September 14-20, 2019, Atlanta, GA, 33<sup>rd</sup> Annual Plenary & WGM

## **Future Meetings of HL7 <http://www.hl7.org/events/workgroupmeetings.cfm?ref=nav> 2019**

- September 14-20, 2019, Atlanta, GA, 33<sup>rd</sup> Annual Plenary & WGM  
**2020**
- February 1-7, 2020, Sydney, Australia, International Conference & WGM
- May 16-22, 2020, San Antonio, TX, WGM
- September 19-25, 2020, Baltimore, MD, 34<sup>th</sup> Annual Plenary & WGM

## **9. Adjournment**

The meeting was adjourned at 11:00 US ET

Submitted by Luiza Kowalczyk, DICOM Secretary

Reviewed by counsel: Clark Silcox, legal counsel, May 23, 2019.