

# Report on Japan Activities

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DSC

# Agenda

1. JIRA – DICOM committee  
Sub W/G Updates
2. JAHIS - DICOM WG
3. JSRT - Medical Informatics Section
4. IHE Japan  
Connectathon 2023

- **SWG-01** (follow CPs, Sups)
  - CPack-121: Standby
  - CPack-120: Voted w/o comments
  - CPack-119: Voted w/o comments
  
  - Sup231: Voted  
(Variable Modality LUT Softcopy Presentation State)
  - Sup229: Voted  
(Photoacoustic Imaging)
  - Sup230: Voted  
(Update BCP Secure Communications Profiles)  
Homework: Toolkit implementation based on Japanese cipher suites in JAHIS

# JIRA – DICOM cmte

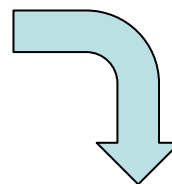
- SWG-02 (propose CPs, Sups)
  - #1 CP1636 (Examples of Specific Character Set in Worklist)
    - Resuming CP discussion together with CIMICS.
    - Plan
      - Updating the CP to meet the Sup209 form and submit to WG-6 once again (Jun?)
    - Purpose
      - To avoid mislead the way to use Specific Character Set (0008, 0005).
  - #2 planning (Fix ambiguity in the dose calibration described in RDSR)
    - Some devices can be used several dose indexes in CBCT for CTDIvol or DLP (for the patient), ex. Dental device. DICOM standard can be covered this area in Enhanced X-Ray Radiation Dose SR (Sup214) since the concept of multiple calibrations come from Projection X-Ray RDSR. Some dental devices can be acquired several images using more than one dose calibrations in a study. So Part16 should have multiple calibration data.
    - In corroboration with “Dose and Radiation” committee in JIRA starts reviewing proposal document to using expert point of view.
    - Hope, DICOM WG-xx(s) should be involved.

# JIRA – DICOM cmte

## ● SWG-06 (create De-Identified data sample)

### JIRA – DICOM cmte

- SWG-06 (create De-Identified data sample)
  - Goal
    - Disclose sample data in the JIRA's web page
  - Done
    - Creation de-identified data set (only basic profile) based on PS 3.15 E(\*1) and JESRA(\*2) guidance (TR-0045-2018).
    - Update an internal rule book to a designated numbering an UID for de-identification.



Published in JIRA's web.



Before

After

\*1: DICOM 2021d, \*2: Japanese Engineering Standards of Radiological Appar

Reported in DSC on Spring, 2022.

[https://www.jira-net.or.jp/dicom/dicom\\_data\\_04.html](https://www.jira-net.or.jp/dicom/dicom_data_04.html)

JIRA 一般社団法人 日本画像医療システム工業会  
Japan Medical Imaging and Radiological Systems Industries Association

Home

DICOMの世界 お知らせ

個人情報関連

### 匿名化標準サンプルの公開 (2023/03)

DICOM委員会のサブWG活動として、一般社団法人日本画像医療システム工業会規格(JESRA)のTR-0045 画像医療システムにおける匿名化技術ガイドとDICOM規格の属性機密性プロファイル(PS3.15 E)を参照し、匿名化した医療画像データをサンプルとして作成しました。  
JIRA会員各社が医療画像データを匿名化する際の参考データとしてご利用ください。

**参照規格**

- 画像医療システムにおける匿名化技術ガイド TR-0045-2018
- DICOM規格 属性機密性プロファイル(PS3.15 E) 2017c

**使い方**

- [SWG-06\\_BASIC\\_PROF2.dcm](#)  
DICOM規格の属性機密性プロファイル(PS3.15 E)に沿って匿名化したデータ
- [SWG-06\\_SAMPLE2.dcm](#)  
匿名化前のサンプルデータ(CTのファントム画像)

- SWG-07 (seminar)

- Done

- Date: Dec.16<sup>th</sup> and 17<sup>th</sup>, 2022. (4h \* 2time)
- Fee: JPY3,300(\$25, member), Webinar (LIVE)
- Program



#1 RDSR

#2 Enhanced X-Ray Radiation Dose SR + Dental area

#3 Explanation Security together with JIRA's guidelines<sup>(\*)</sup>

PS3.15 A Secure use, B Secure Transport Connection,  
D Media Storage Security and E Attribute Confidentiality

#4 Outline of Newly Approved Sup(s)

Sup160, Sup220, Sup221, Sup222, Sup223, Sup225 and Sup227

#5 Q&A

- Results

- 43 (User, Vendor, R&D) participants (from regions of Japan)
- Very positive feedbacks (Response rate: 86%)

2022年度DICOMセミナー  
DICOMは画像だけではない！  
線量管理、セキュリティ要件、最新動向

第3部 PS 3.15 Security関連 + JESRA解説



# JIRA – DICOM cmte

- SWG-08 (Requested Lectures)

- “JIRA Workshop”

- The 79<sup>th</sup> Annual Meeting of JSRT
    - Date: Apr.15<sup>th</sup>, 2023. Time: 16:30-17:30
    - Program: Cyber security measures in medical devices

- #1 (JSRT, user)

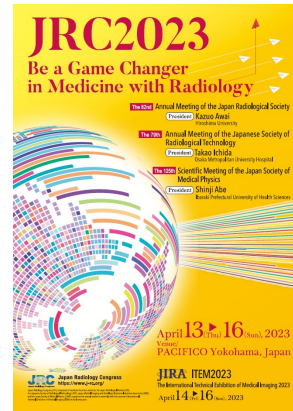
- Medical Device Cybersecurity Countermeasure Issues  
from the Perspective of Medical Information System Managers

- #2 (JIRA, vendor)

- Current Status and Efforts for Cyber Security in Medical Devices Including  
SaMD

- #3 (JIRA DICOM committee, Vendor)

- Practical Issues and Guidelines for Countermeasures Related to Cyber  
Security



- **WG Routine activity**
  - Investigate & Vote : Supps, CPs
  - Share the information about DSC, WG-13, 14, 26, etc. with JAHIS members
- **Sup/CP proposal in WG-14 (JIRA joint work)**

Sup230(Final Text)

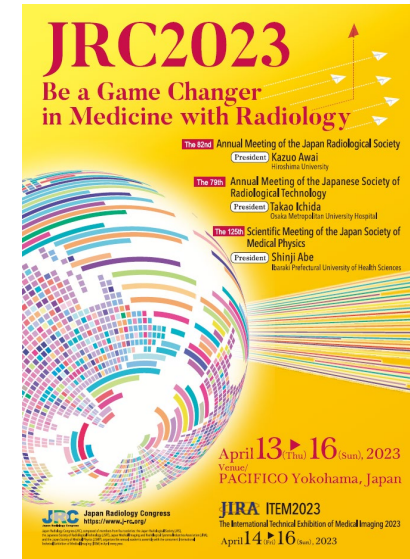
B.13 Modified BCP 195 RFC 8996 TLS Secure Transport Connection Profile

## The 79th Annual Meeting of the JSRT / The 2nd ICRPT Be a Game Changer in Medicine with Radiology

Date : April, 13-16, 2023

Venue : Yokohama, Japan= Hybrid Event

Conference President : Takao Ichida



## 41st Medical Informatics Division

### Research on Radiology Medical Information Research Practice Beyond Image Data

- ① Expectations for Radiation-related Medical Information Research Beyond Imaging
- ② Fusion of Image and Medical Information Using Machine Learning Models
- ③ Multimodal Neuroimaging and Clinical Parameters: Data Collection and Analysis
- ④ Natural Language Processing for Medical Reports



## What is JRC tube?



## Medical Informatics Section Seminar and Webinar for 2023

### 😊 PACS Specialist Seminar

32nd 2023/Dec/7(Web)

Cyber security and Business Continuity Plan

# IHE – Japan

- Connectathon 2023

- Oct.16-20, 2023 @Asakusa
- Workshop (for whole vendor) May.11th

- Connectathon 2022

- Oct.17-21, 2022 @Asakusa (In-person + remote via VPN)
- 24 vendors / 39 systems (on registration)
- Connectathon results open



# Report on Japan Activities

JSRT : Japan Society of Radiological Technology

JAHIS : Japanese Association of Healthcare  
Information Systems Industry

JIRA : Japan Medical Imaging and Radiological  
Systems Industries Association

