

# Report on Japan Activities

Hiroshi Sakamoto / JSRT

Masao Murata / JAHIS

Shinichi Nakano/ JIRA

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- Sub W/G Updates
  - SWG-01: follow CPs, Sups
  - SWG-02: propose CPs, Sups
  - SWG-03: follow DSC, WGs
  - SWG-04: translate DSC, WGs minutes
  - SWG-05: translate DICOM Standards
  - SWG-06: create De-Identified data sample
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  - SWG-09: maintain web page in JIRA
  - SWG-10: Taskforce - patient name expression
  - SWG-11: HELICS(\*)
  - SWG-12: IHE Japan

- **SWG-01** (follow CPs, Sups)
  - CPack-101: Voted
  - CPack-102: Voted with 1 comment
  - CPack-103: Voted
  - CPack-104: Ongoing
  - Sup202: Affirmative
  - Sup176: Affirmative
  - Sup219: Ongoing
  - Sup208: Ongoing

# JIRA – DICOM cmte

- SWG-02 (propose CPs, Sups)
  - New CP (End of review in JIRA)
  - Correct inconsistent Directory contents of DICOMDIR both PS3.10 and PS3.3

DICOM PS3.10 2019e - Media Storage and File Format for Media Interchange

DICOM PS3.3 2019e - Information Object Definitions

## A Example of DICOMDIR File Content (Informative)

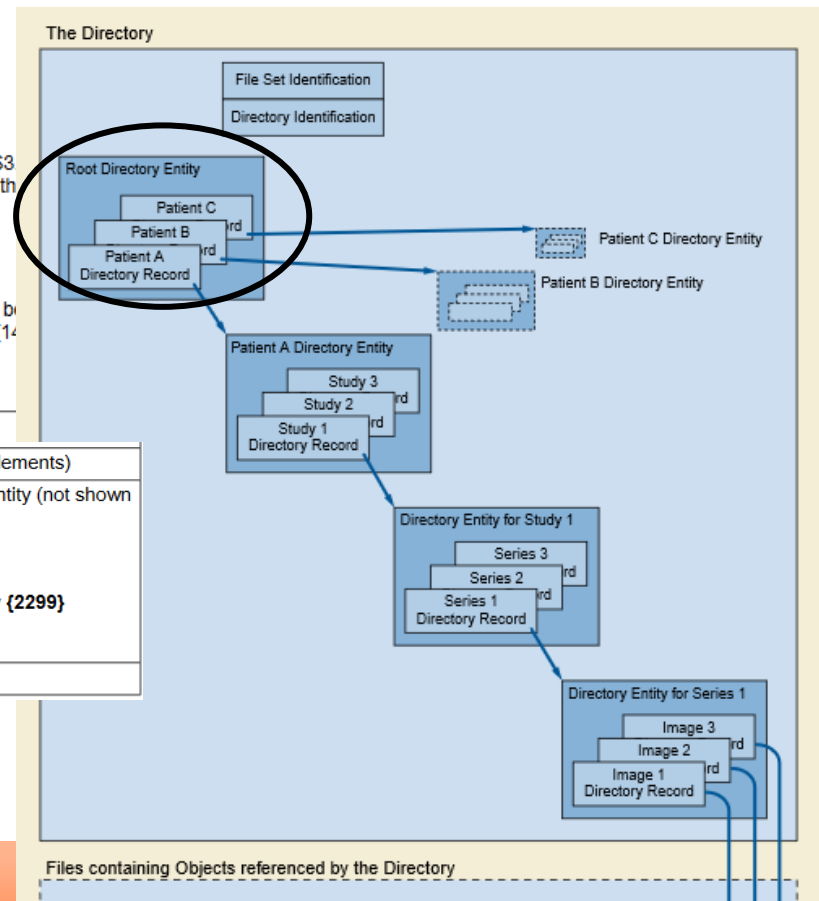
This Annex provides an example of a File content that is based on selected aspects of the example introduced in PS3 Directory Information Object. This is not a normative Annex. It is only an illustration, which is simply intended to help the understand the organization of a DICOM Directory stored in a DICOMDIR File.

### A.1 Simple Directory Content Example

Table A.1-1 shows in a simplified manner, the content of a simple DICOMDIR File. Values of elements are noted by brackets (e.g., [1.2.840.10008.34.7.6]). Byte Offsets are shown by symbolic Values noted between brackets (e.g., {14

Table A.1-1. Directory Content Example

	Meta-Info	128 bytes	File Preamble [all bytes set to 00H]
{1829}	Item Tag	FFFE,E000	Item Data Element (includes the following Data Elements)
	Study 1	0004,1400	Offset of the next Directory Record in Directory Entity (not shown in example)
	Directory Record	0004,1410	Record In-use Flag [FFFFH]
		0004,1420	Offset of Referenced Lower Level Directory Entity {2299}
		...	
		0004,1430	Directory Record Type [STUDY]



# JIRA – DICOM cmte

- **SWG-03** (follow DSC, WGs)
  - DSC: share highlight points
  - WGs: share highlight points from minutes & T-con
- **SWG-04** (translate DSC&WG minutes)
  - Newly minutes will be reviewed and then send them to SWG-09
- **SWG-05** (translate DICOM Standards)
  - PS3.1, 3.15 (done, available download)
  - PS3.16, 3.18 (translated)
  - When translating of PS3.16 and 18 done, we'll continue to discuss about DICOM Standard document including Japanese. Consideration points are (1) a review process in WG-06 and (2) avoiding direct modification to standard documents.

- SWG-06 (create De-Identified data sample)
  - Try to create De-Identified data based on PS3.15 E
    - Apply some Worklist data into the header (done)
    - Apply some Overlay data into the Pixel data (ongoing; hard)
  - Why
    - JIRA provides some SAMPLE dataset in our webpage.
    - Anonymization Technique Guide for Image Medical Systems
      - JESRA(\*) TR-0045-2018
  - By how
    - Check with DICOM Cleaner or other DICOM editors

# JIRA – DICOM cmte

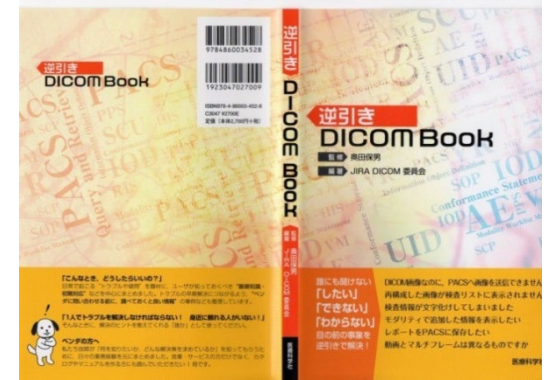
- SWG-07 (seminar)

- DONE

- Jun.14<sup>th</sup>(Fr) (for beginner)
- Participants 34

- PLAN

- Dec.20<sup>th</sup>(Fr) -21<sup>st</sup>(Sa), 2019 (for tech/provider)
- Highlight to RDSR



- New DICOM Book

- SOON

- “DICOM PLUS” (previously called as DICOM book II)

- Dose (MPPS, RDSR, P-RDSR, RT-Dose)
- monitor display QA, Security, Report

*Medical Care Act Implementing Regulation will be revised on Apr. 2020. Hospital will be asked maintain safety management of radiation dose.*

- SWG-08 (education)
  - DONE Dispatch an instructor on Sep..
    - RRDSR and IHE REM
  - PLAN Dispatch speakers in the workshop
    - Apr.11<sup>th</sup> ,2020 (@Yokohama, JRC<sup>(\*)</sup>)
    - Update DICOM standards
    - Image compression and Security consideration on patient under the system replacement
- SWG-09 (maintain web page in JIRA)
  - DONE Upload translated documents
  - Published related seminar articles

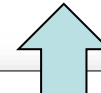
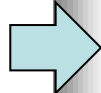


- SWG-10 (TF: patient name expression)
  - Designated mapping table
    - Each system may has own table
      - Roman ↔ Kana
        - Ohtani? Ootani? Otani? ↔ オオタニ? オータニ? オウタニ?
  - Wide variety of Kanji expressions
    - 崎 or 崎 高 or 高
  - DONE Survey to User/Vendor (2017/2018)
  - DONE Report & Discussion (@Osaka on Oct.)
  - Data of patient name is born in HIS then transferred to RIS then go into Modality and displayed on the PACS.

# JIRA – DICOM cmte

## ローマ字変換の読み仮名記ルールと変換方式

オオタニ ショウハイ 医療?	Ootani Shouhei	ヘボン式
	<b>OOTANI SHOUHEI</b>	ヘボン式 (パスポート式)
	OHTANI SHOUHEI	ヘボン式 (パスポート式亜種)
	Ootani Syouhei	訓令式
	Ootani Shouhei	英語式
オータニ ショーハイ パスポート	Ōtani Shōhei	ヘボン式
	<b>OTANI SHOHEI</b>	ヘボン式 (パスポート式)
	Ōtani Shōhei	訓令式
	Otani Shohei	英語式
オタニ ショハイ	Otani Shohei	ヘボン式
	<b>OTANI SHOHEI</b>	ヘボン式 (パスポート式)
	Otani Syohei	訓令式
	Otani Shohei	英語式



## 医事・HIS(患者氏名登録画面)

氏名 ドナルド トランプ  
読み仮名 ドナルド トランプ



ヘボン式で変換

## 装置

アルファベット DONARUDO TORAMPU



正字は DONALD TRUMP



## Solution ideas:

Official characters should be stored in the Patient module as a special SQ.

Use case#1: Display official characters on the viewer.

Use case#2: Handle unified patient information remotely.

Official characters: Visible characters that patient recognize it officially.

## 開発企業の悩み

- ✓ 出荷時設定はヘボン式だが要求に合わせて変更。
  - 打ち合わせや作業工数が増える。
  - 施設ごとのカスタマイズになる。
- ✓ できるだけ上流の発生元で変換してほしい。
  - できればHISで解決してほしい。

## 解決できるとユーザーが嬉しいこと。

- ✓ 開発コスト削減または他の開発費に転化。
- ✓ 「どれが正解？」という悩みが無くなる。
- ✓ ベンダー変更時の確認が不要。

# JIRA – DICOM cmte

- SWG-11 (HELICS<sup>(\*)</sup>)
  - Annual report (scheduled)
  - IHE-Japan has proposed IHE REM profile as a Japanese standard in this August.
    - JIRA will review translated edition as a member of inspection.

*Medical Care Act Implementing Regulation will be revised on Apr. 2020. Hospital will be asked maintain safety management of radiation dose.*

- SWG-12 (IHE-J)
  - Supporting IHE-J's activity based on DICOM.

- **2019 DICOM activity**
  - Attend WG-26 F2F Meeting (2019/10 Orland)
  - Investigate & Vote : CPs, Supps
  - Share the information about DSC, WG-13, 14, 26, etc. with JAHIS members
- **Update JAHIS DICOM Image Guidance**
  - for Pathology based on Standard 2019d (Work)
  - for Endoscopy based on Standard 2018e (Done)



The 47th Autumn Scientific Congress of JSRT  
2019/Oct/17 to 19 (OSAKA)

## **Medical Informatics Section**

- **Educational Lecture**

「Introduction to medical management  
-Case of radiation department」

Hokkaido University Katsuhiko Ogasawara

- **Symposium**

「Considering medical management  
from the radiology department」

- **Basic Course 1**  
「Introduction to medical informatics」
- **Basic Course 2**  
「Introduction to DICOM RDSR」
- **JIRA workshop**  
「Radiation dose assessment」
- **Standardization Forum**  
「Standardization of patient name notation 」



## 「M.I Section seminar plan for 2019」



### 😊 **PACS Basic Seminar :**

The 11th 2019/Nov/16(Osaka)

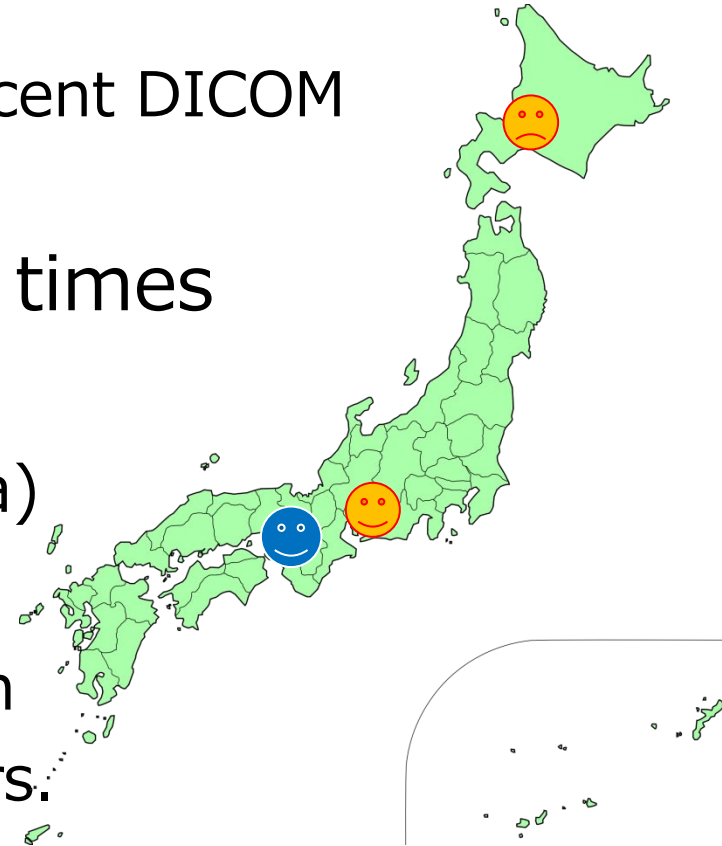
- Continuing lectures of basic and recent DICOM

### 😊 **PACS Specialist Seminar : 2 times**

The 25th 2019/Jul/7(Sapporo)

The 26th 2020/Jan/18(Nagoya)

- Encourages Business Continuity Plan aftermath of recent natural disasters.
- Introduces the use of JJ1017



## JRC2020

# The power of Imaging

**April 9 [Thu] – 12 [Sun], 2020**

**Venue PACIFICO Yokohama, Japan**

**The 79th Annual Meeting of the Japan Radiological Society**

President: Shigeki Aoki Juntendo University

**The 76th Annual Meeting of the Japanese Society of Radiological Technology**

President: Yasuo Okuda Quantum and Radiological Science and Technology

**The 119th Scientific Meeting of the Japan Society of Medical Physics**

President: Hidetaka Arimura Kyushu University

ITEM2020

**The International Technical Exhibition of Medical Imaging 2020**

April 10 [Fri] – 12 [Sun], 2020

**JRC** Japan Radiology Congress  
<http://www.j-rc.org/>

Japan Radiology Congress (JRC), composed of members from four societies: the Japan Radiological Society (JRS), the Japanese Society of Radiological Technology (JSRT), the Japan Medical Imaging and Radiological Systems Industries Association (JRIAS), and the Japan Society of Medical Physics (JSMP), organizes the annual academic assembly with the concurrent International Technical Exhibition of Medical Imaging (ITEM) in April every year.



## Invited Lecture

April 10 [Fri]

15:00 ~ 16:00 (502)

# 「DICOM in future」

## David Clunie



# IHE – Japan

- DONE Connectathon 2019

- Oct.7-11, 2019 @Yokohama

- 36 companies / 58 systems

- fee member non-member

- USD 3,990+880/sys(\*) USD 4,870+1,770/sys

- Globalization

- 5 systems comes from Germany, Netherland and USA



- PLAN Connectathon 2020

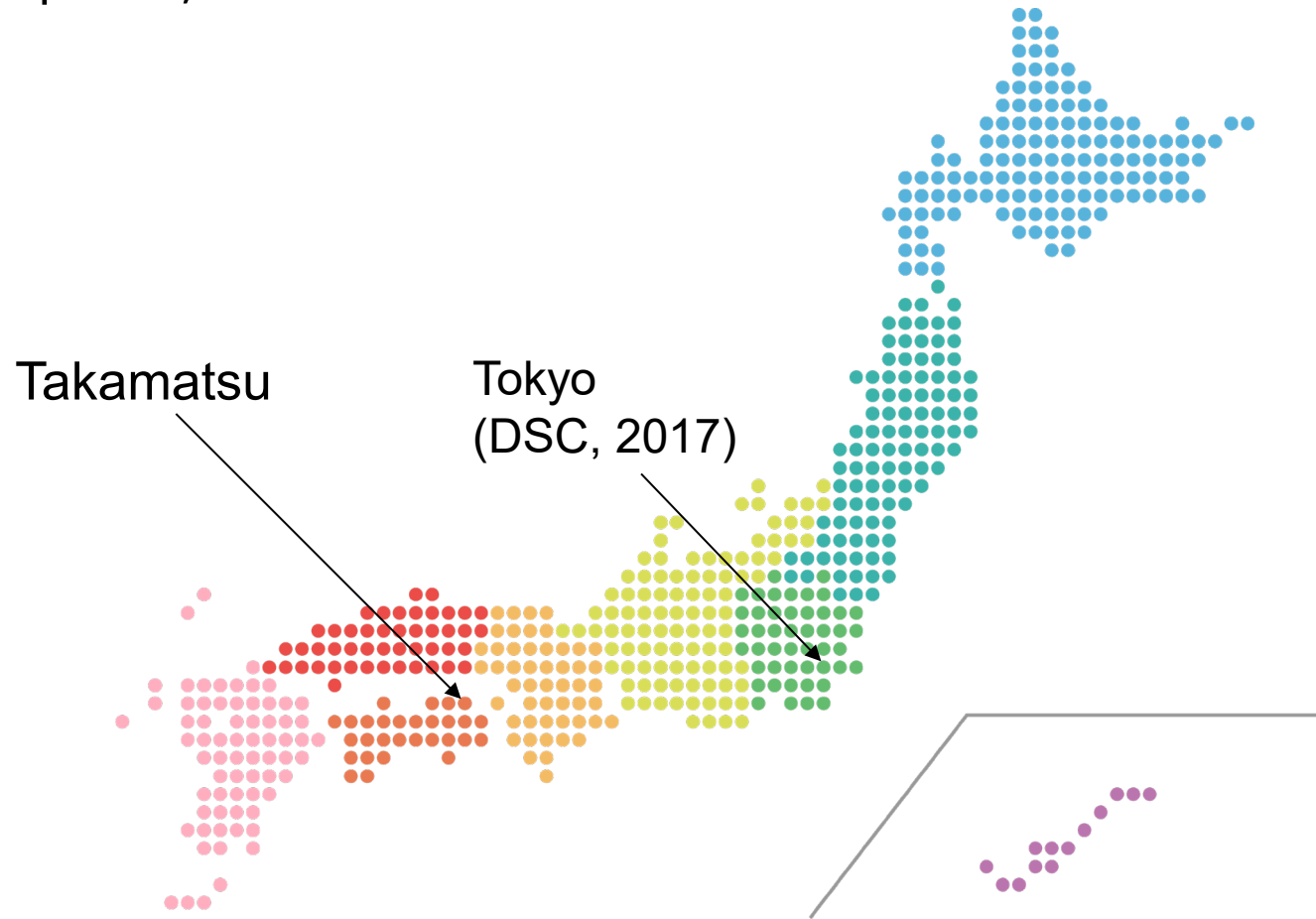
- Oct.19-23, 2020 @Asakusa

\*: n systems free when joined n times in past.

- Misc.

- WG6 in Japan (@Takamatsu)

- Mar.30<sup>th</sup> – Apr.3<sup>rd</sup>, 2020



# 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

