

Report on Japan Activities

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2020-Aug-21

DSC@T-Con

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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
 - SWG-07: Seminar
 - SWG-08: Education
 - 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-104: Voted
 - CPack-105: Voted (Comment on CP-1961)
 - CPack-106: Voted (Comment on CP-1966)
 - CPack-107: Ongoing
 - Sup208: Voted (DICOM Ext Encapsulation of Models for 3D Manu)
 - Sup217: Voted (Neurophysiology Waveforms)
 - Sup199: Voted (RT Radiation Record)
 - Sup212: No comment (XA Protocol Storage)
 - Sup221: Ongoing (Dermoscopy)

- SWG-02 (propose CPs, Sups)

- CP-2020

Correct Directory Content Example in 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)

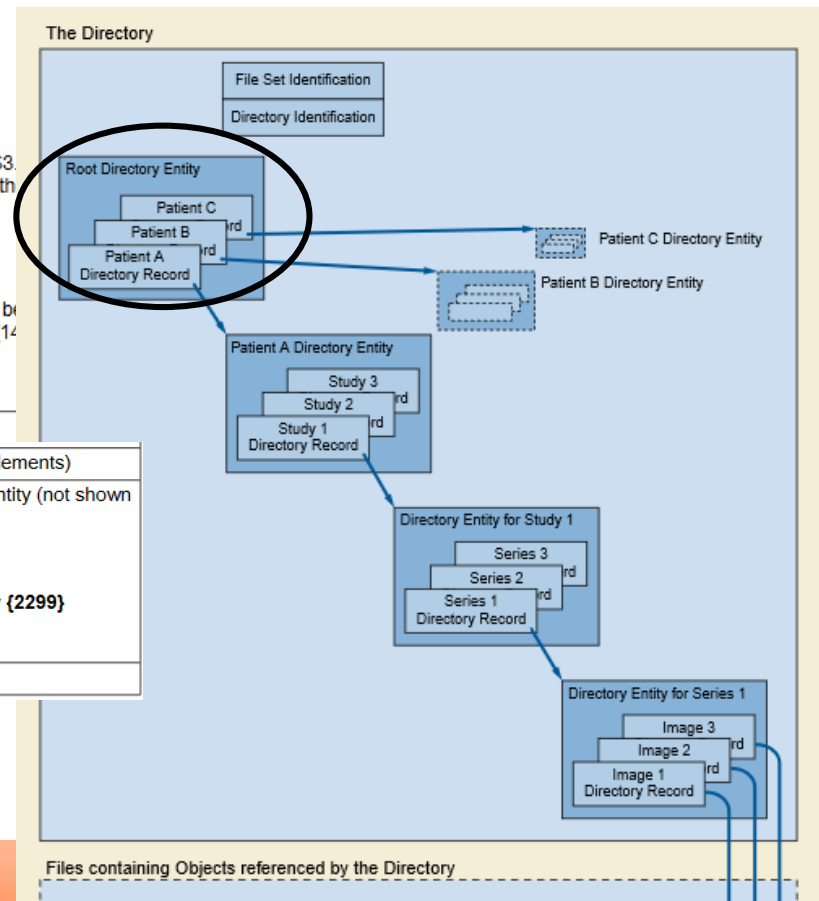
This Annex provides an example of a File content that is based on selected aspects of the example introduced in PS3. Directory Information Object. This is not a normative Annex. It is only an illustration, which is simply intended to help the understand the organization of a DICOM Directory stored in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

JIRA – DICOM cmte

- SWG-06 (create De-Identified data sample)
 - Goal
 - Meet to
 - PS 3.15 E
 - Anonymization Technique Guide for Image Medical Systems
 - » JESRA(*) TR-0045-2018
 - Now
 - Done: Dummied except Pixel or Overlay.

Group	Element	Description	VR	Size	Value
0008	0050	Accession Number	SH	24	SWG-06_Accession Number
0010	0010	Patient's Name	PN	22	SWG-06_Patient's Name
0010	0020	Patient ID	LO	18	SWG-06_Patient ID
0010	0021	Issuer of Patient ID	LO	28	SWG-06_Issuer of Patient ID
0010	0030	Patient's Birth Date	DA	28	SWG-06_Patient's Birth Date
0010	0040	Patient's Sex	CS	20	SWG-06_Patient's Sex
0010	1002	Other Patient IDs Sequence	SQ	FFFFFFFF	(Sequence Data)
0010	1010	Patient's Age	AS	20	SWG-06_Patient's Age
0010	1020	Patient's Size	DS	22	SWG-06_Patient's Size
0010	1030	Patient's Weight	DS	22	SWG-06_Patient's Weight

Next step is apply D/Z/X... for each.

*: Japanese Engineering Standards of Radiological Apparatus

JIRA – DICOM cmte

- SWG-07 (seminar)

- DONE

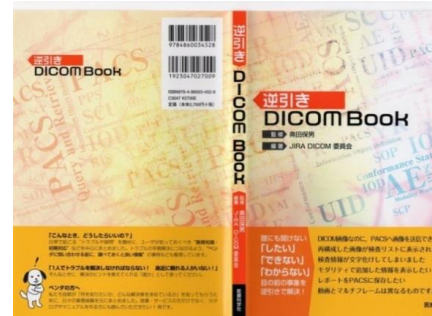
- 4days (2days * 2 times), 140 guests
 - Focus on RDSR
 - General DICOM, Basic SR
 - Radiation Dose SR (X-Ray/CT)
 - (plus)R-RDSR / P-RDSR / CBCT

Medical Care Act Implementing Regulation has been effected on Apr. 2020. Hospital has responsible maintain safety management of radiation dose.

- DICOM Book Plus

- ISSUED!

- Ch1. Dose (MPPS, RDSR, P-RDSR, RT-Dose)
 - Ch2. Monitor display, QA
 - Ch3. Security
 - Ch4. Report
-
- JPY 2,600



- SWG-08 (education)
 - CANCEL
 - JRC⁽¹⁾, Apr.11th, 2020
 - “Update DICOM standards and Security”
 - Image compression and Security consideration on patient under the system replacement. Brief slides will be used in the future workshop.
 - CANCEL
 - Private study group in JSRT, May. 2020.
 - “General Angio & PACS in DICOM”
 - JCMP⁽²⁾, Aug. 2020.
 - Focus on “RDSR”. Recording will be used.
- SWG-09 (maintain web page in JIRA)
 - DONE Upload translated documents
 - Published related seminar articles



1: Japan Radiology Congress

2: Japanese College of Medical Physics

- SWG-10 (TF: patient name expression)
 - Designated mapping table
 - Ohtani or Ootani or Otani ⇔ オオタニ or オータニ or オウタニ
 - Wide variety of Kanji expressions
 - 崎 or 崎 高 or 高 吉 or 吉
 - DONE Survey to User/Vendor (2017/2018), report & Discussion in JSRT⁽¹⁾(2019)
 - Key point
 - RIS may key component in the DICOM world.
 - Unified mapping table makes interoperability problems low.
 - UTF-8
 - Now & Then
 - JSRT and JIRA is discussing and planning report to the HIS group.

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
	OOTANI SHOUHEI	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
	OTANI SHOHEI	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
	OTANI SHOHEI	ヘボン式 (パスポート式)
	Otani Syohei	訓令式
	Otani Shohei	英語式



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.

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
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正字は DONALD TRUMP



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。



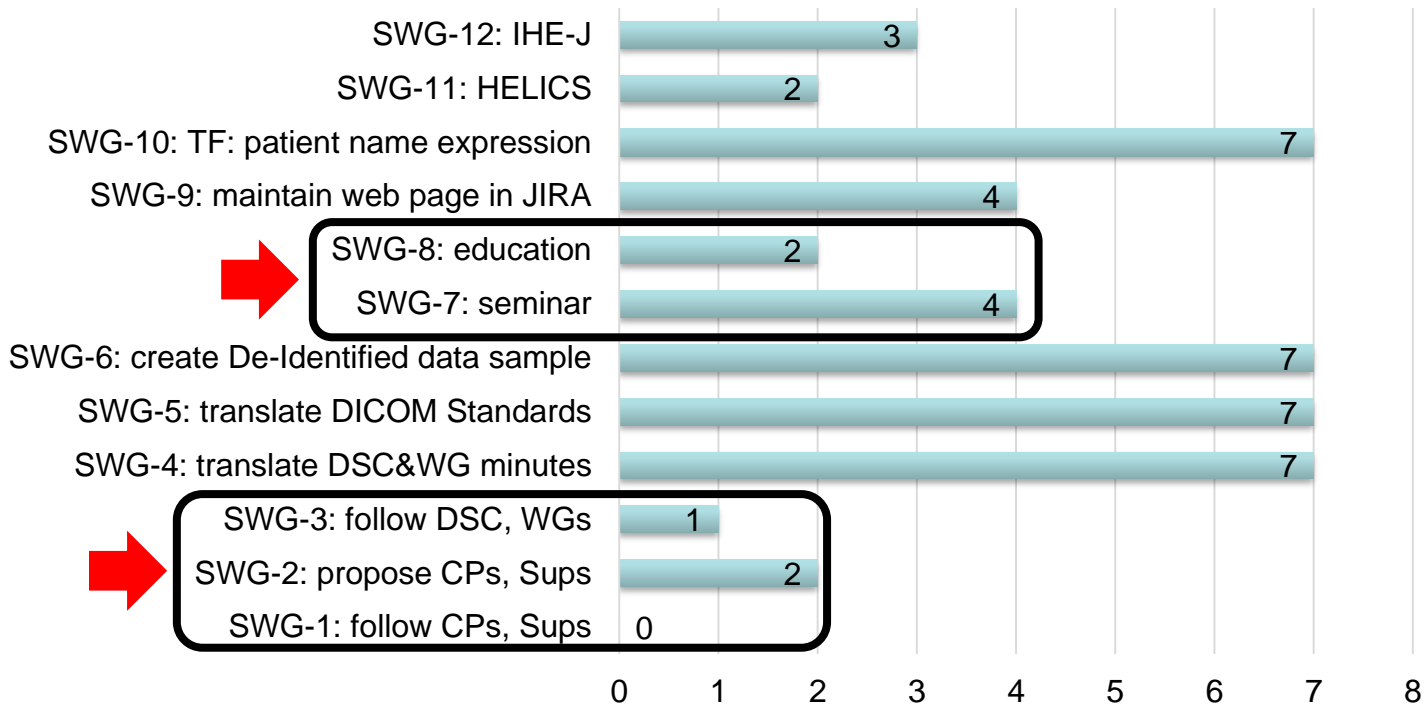
- ✓ 開発コスト削減または他の開発費に転化。
- ✓ 「どれが正解？」という悩みが無くなる。
- ✓ ベンダー変更時の確認が不要。

- **SWG-11** (HELICS^(*))
 - 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. Public comments done.
 - IHE REM profiles has also become a Japanese standard.
- **SWG-12** (IHE-J)
 - Supporting IHE-J based on DICOM.

JIRA – DICOM cmte

- Restart SWGs
 - As-IS

Num. of member w/o co-chair



JIRA – DICOM cmte

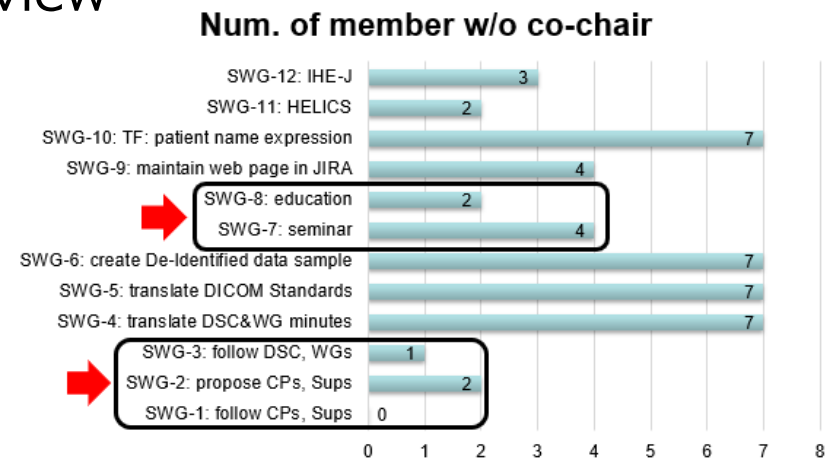
- Restart SWGs

- To-Be

- Decrease load of co-chairs and increase active members
- Let each SWG become an independent activity

- New SWG-13; Clinical

- For user
- Share user's voice, actual operation based on DICOM standard with clinical point of view
- Linked with other SWGs



- **2020 DICOM activity**
 - 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 2019e (Done)
 - for Endoscopy based on Standard 2018e (Done)

JSRT - Medical Informatics Section

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), Japan Medical Imaging and Radiological Systems Industries Association (JRIA), and the Japan Society of Medical Physics (JSMPP), organizes the annual academic assembly with the concurrent International Technical Exhibition of Medical Imaging (ITEM) in April every year.

(YOKOHAMA)

**76th
JSRT**



**Virtual
Event**

JRC
Japan Radiology Congress

JRC 2020 web

一寸の光陰
The power of Imaging

Remarks from Presidents

The Power of Imaging Contest

会誌・大会誌様影
Remarks from Presidents

会期が終了
しました
Web-ITEM2020

Ceremonies

JRC
Japan Radiology Congress
What's JRC

Scientific Sessions

(Online Meeting)

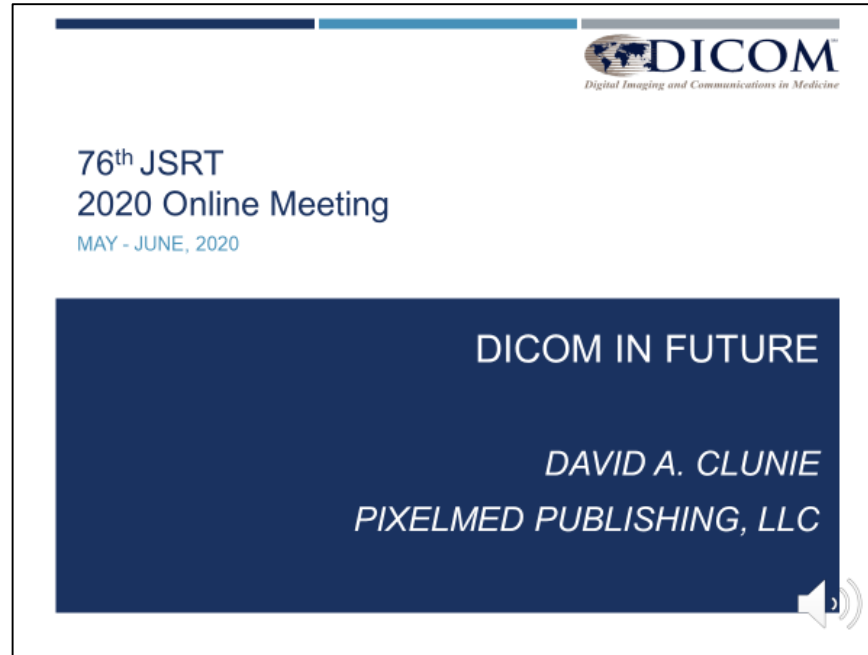
JSRT - Medical Informatics Section



76th
JSRT



Invited Lecture 「DICOM IN FUTURE」



Thank you for
your cooperation.



- Connectathon 2020
 - Oct.19-23, 2020 @Asakusa

<Info>

COVID-19.

Final decision on this event will be held in mid of September. Guideline document will also be released.

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

