

# Structured Report Implement rev2.1

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Konica Minolta Medical & Graphic Inc.  
R&D Center  
Software Development Division  
Hiroyuki KUBOTA  
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# Contents

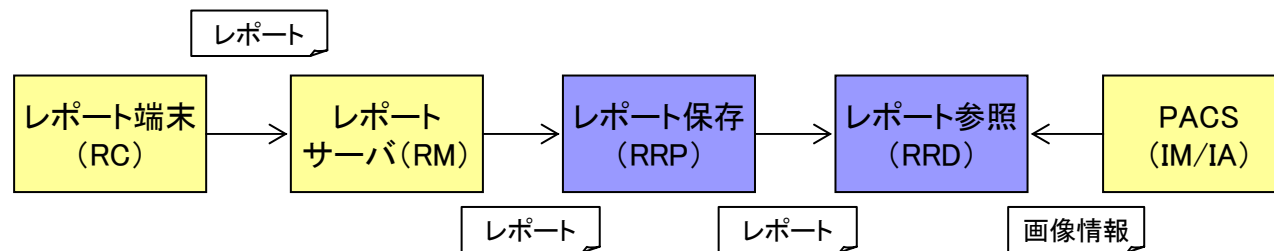
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- SINR
  - IHE Profile
  - レポート系プロファイル
  - SINR-Diagram
  - SINR – Actors & Transactions
  - SINRの概要
  - SRとは何か
  - SR情報モデル(part1)
  - SR情報モデル(part2)
  - タイトル・ヘッダ・エレメントのコード化
  - SR Relationship
  - レポートシステムとSR
- RWF
  - RWF-Diagram
  - RWF – Actors & Transactions(part1)
  - RWF – Actors & Transactions(part2)
  - RWFの概要
  - GP-WLの構成
  - GP-PPSの構成
  - GP-PPSのステータス
- Appendix
  - Query Reports

## IHE Profile

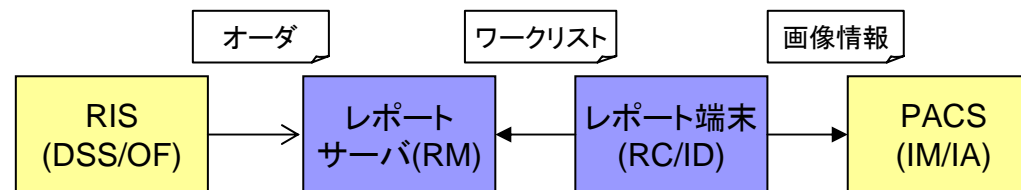
- SINR (Simple Image & Numeric Report)

- 翻訳名: 画像および数値を含むレポート
- レポート作成に関わる機能を分割し、システム間連携によりDICOM SRによる標準化された文書を作成/保存する。機能分割によりレポートの作成はモダリティやRISなどでも可能となり、レポートの保存先はPACSでも構わない。HL7、CDAによる外部公開も視野に入れている。



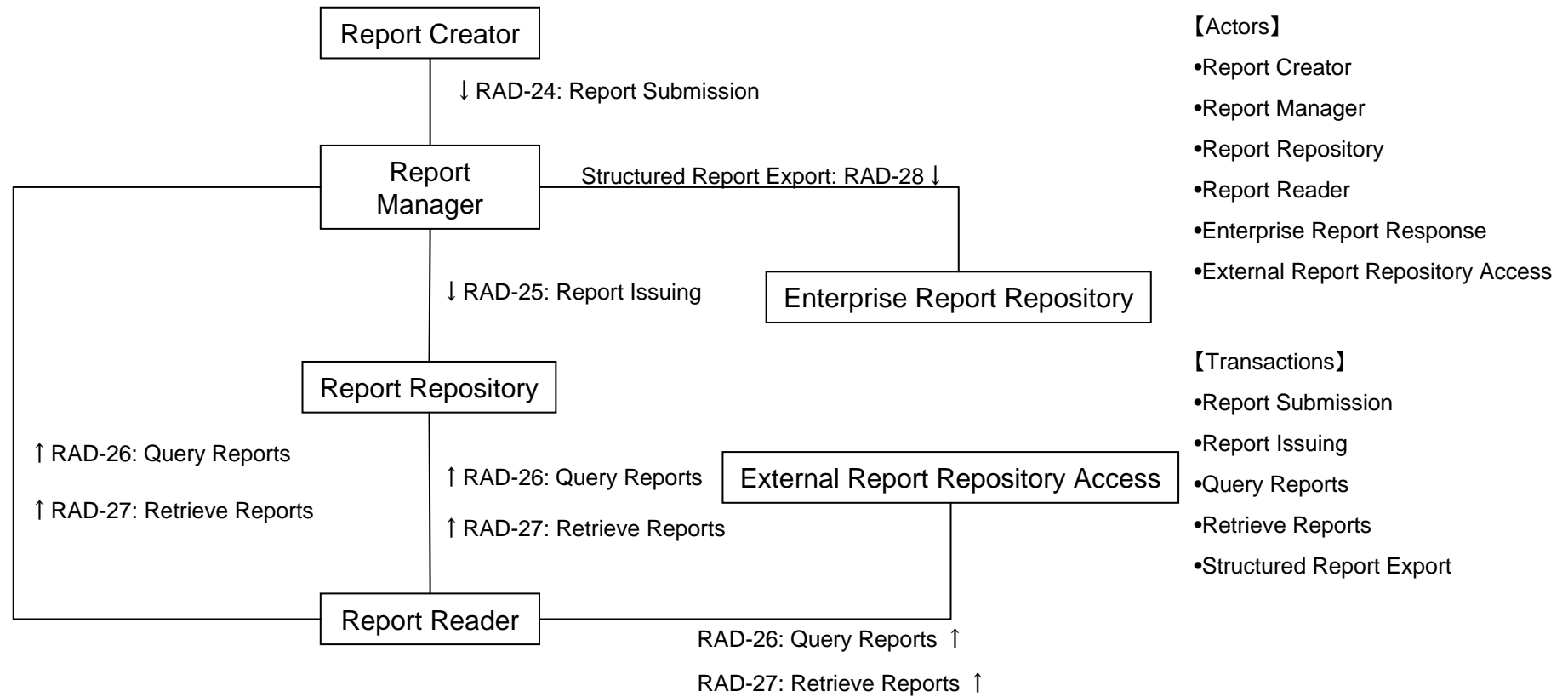
- RWF (Reporting Workflow)

- 翻訳名: レポートテイングワークフロー
- レポート作成における行為(解釈/口述/転写/確認等)の進捗管理とGP-WLやGP-PPSによるレポートのライフサイクルを管理している。

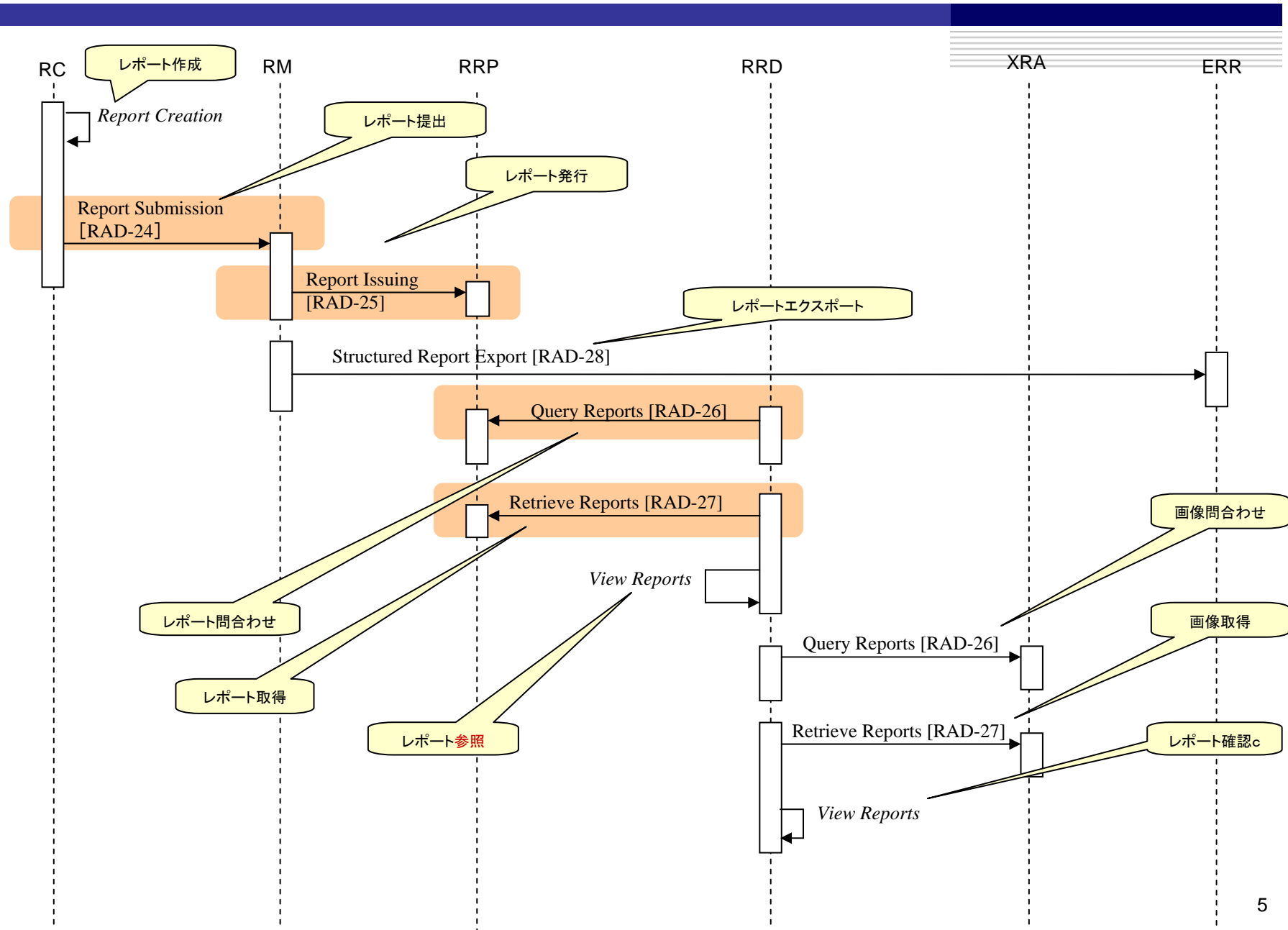


RC : Report Creator  
 RM : Report Manager  
 RRP : Report Repository  
 RRD : Report Reader  
 DSS : Department System Scheduler  
 OF : Order Filler  
 IM : Image Manager  
 IA : Image Archive

# SINR – Diagram

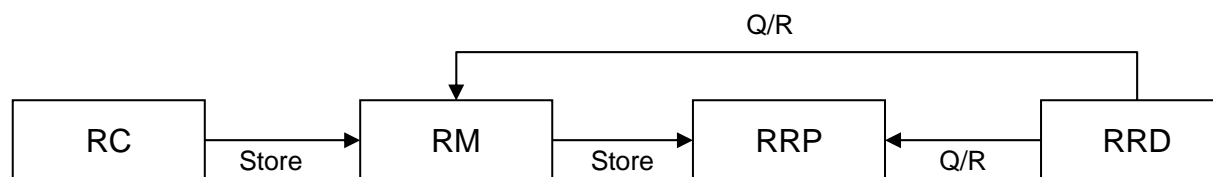


# SINR – Actors & Transactions



## SINRの概要

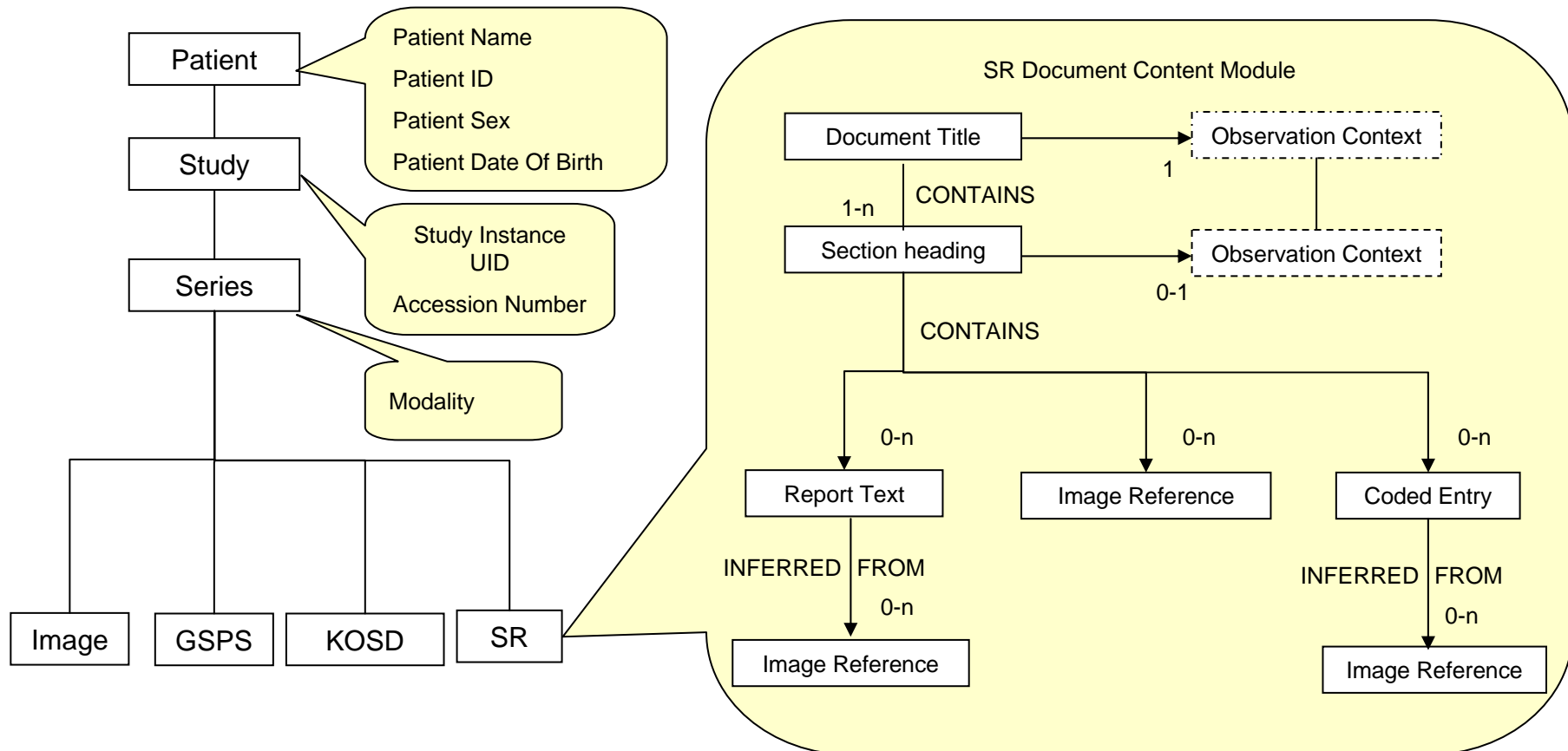
- RC (Report Creator)
  - レポートを作成する。
- RM (Report Manager)
  - レポートを受取り保持する。
  - レポートを確認する。
- RRP (Report Repository)
  - レポートを保存する。
  - レポートを公開する。
- RRD (Report Reader)
  - レポートを参照する。



## SRとは何か

- SR (Structured Report)

- 翻訳名: 構造化文章
- メリット
  - 同じDICOMオブジェクトなので画像との親和性が高い(検査UIDやシリーズUID、SOPUIDで管理することができる。)
  - テキスト、コード、参照画像、数値といった情報を決められた形式で記述でき、保存できる。
  - 作成者や作成日時、確認者、完成/未完成、確認/未確認のステータス管理ができる。



## SR情報モデル(part1)

## PATIENT

Attribute Name	Tag	Attribute Description
Patient's Name	(0010,0010)	Patient's full name
Patient ID	(0010,0020)	Primary hospital identification number or code for the patient.
Patient's Birth Date	(0010,0030)	Date of birth of the named patient
Patient's Sex	(0010,0040)	Sex of the named Patient. Enumerated Values: M = male F = female O = other

## STUDY

Attribute Name	Tag	Attribute Description
Study Instance UID	(0020,000D)	Unique identifier for the Study
Study Date	(0008,0020)	Date on which the acquisition of the study information was started
Study Time	(0008,0030)	Time at which the acquisition of the study information was started
Referring Physician's Name	(0008,0090)	Patient's primary referring physician for this visit
Study ID	(0020,0010)	User or equipment generated Study identifier
Accession Number	(0008,0050)	A RIS generated number that identifies the order for the Study.
Physician(s) of Record	(0008,1048)	Names of the physician(s) who are responsible for overall patient care at time of Study (see Section C.7.3.1 for Performing Physician)
Name of Physician (s) Reading Study	(0008,1060)	Name of the physician(s) reading the study
Patient's Age	(0010,1010)	Age of the Patient.
Patient's Size	(0010,1020)	Patient's height or length in meters
Patient's Weight	(0010,1030)	Weight of the patient in kilograms

## SERIES

Attribute Name	Tag	Attribute Description
Modality	(0008,0060)	Type of equipment that acquired the data used to create the images in this Study Component. See C.7.3.1.1.1 for Defined Terms.
>Series Instance UID	(0020,000E)	Unique identifier of the Series.
Series Number	(0020,0011)	A number that identifies this series.

## SR

Attribute Name	Tag	Attribute Description
Instance Number	(0020,0013)	A number that identifies this object instance.
Completion Flag	(0040,A491)	The estimated degree of completeness of this SR Document with respect to externally defined criteria in a manner specified in the Conformance Statement. Note: It may be desirable to make these criteria adaptable to local policies or Enumerated Values: PARTIAL = Partial content. COMPLETE = Complete content
Completion Flag Description	(0040,A492)	Explanation of the value sent in Completion Flag (0040,A491).
Verification Flag	(0040,A493)	Indicates whether this SR Document is Verified. Enumerated Values: UNVERIFIED = Not attested to. VERIFIED = Attested to by a Verifying Observer Name (0040,A075) who is accountable for its content. Note: The intent of this specification is that the "prevailing final version" of an SR Document is the version having the most recent Verification DateTime (0040,A030), Completion Flag (0040,A491) of COMPLETE and Verification Flag (0040,A493) of VERIFIED.
Content Date	(0008,0023)	The date the image pixel data creation started.
Content Time	(0008,0033)	The time the image pixel data creation started.
Verifying Observer Sequence	(0040,A073)	The person or persons authorized to verify documents of this type and accept responsibility for the content of this document. One or more items may be included in this sequence. Required if Verification Flag (0040,A493) is VERIFIED.
>Verifying Observer Name	(0040,A075)	The person authorized by the Verifying Organization (0040,A027) to verify documents of this type and who accepts responsibility for the content of this document
>Verifying Observer Identification Code Sequence	(0040,A088)	Coded identifier of Verifying Observer. Zero or one items shall be permitted in this sequence.
>>Include 'Code Sequence Macro' Table 8.8-1		
>Verifying Organization	(0040,A027)	Organization to which the Verifying Observer Name (0040,A075) is accountable for this document in the current interpretation procedure.
>Verification DateTime	(0040,A030)	Date and Time of verification by the Verifying Observer Name (0040,A075).



## SR情報モデル(part2)

## DOCUMENT RELATIONSHIP MACRO ATTRIBUTES

Attribute Name	Tag	Attribute Description
Observation DateTime	(0040,A032)	The date and time on which this Content Item was completed. For the purpose of recording measurements or logging events, completion time is defined as the time of data acquisition of the measurement, or the time of occurrence of the event. Required if the date and time are different from the Content Date (0008,0023) and Content Time (0008,0033) or the Observation DateTime (0040,A032) defined in higher items. May be present otherwise. Note: When Content
Content Template Sequence	(0040,A504)	Template that describes the content of this Content Item. Only a single Item shall be permitted in this sequence. Required if a template was used to define the content of this Item, and the template consists of a single CONTAINER with nested content, and it is the outermost invocation of a set of nested templates that start with the same
>Include 'Template Identification Macro' Table 9-1		
Content Sequence	(0040,A730)	A potentially recursively nested Sequence of Items that conveys content that is the Target of Relationships with the enclosing Source Content Item. One or more Items may be included in this sequence. Required if the enclosing Content Item has relationships. Notes: 1. If this Attribute is not present then the enclosing Item is a leaf. 2. The order of
>Relationship Type	(0040,A010)	The type of relationship between the (enclosing) Source Content Item and the Target Content Item. IODs specify additional constraints on Relationships (including lists of Enumerated Values). Defined Terms: CONTAINS HAS
>Include Document Relationship Macro Table C.17-6 if the Target Content Item is included by-value in the Source Content Item. The Macro shall not be		
>Include Document Content Macro Table C.17-5 if the Target Content Item is included by-value in the Source Content Item. The Macro shall not be present		
>Referenced Content I	(0040,DB73)	An ordered set of one or more integers that uniquely identifies the Target Content Item of the relationship. The root Content Item is referenced by a single value of 1. Each subsequent integer represents an ordinal position of a Content Item in the Content Sequence (0040,A730) in which it belongs. The Referenced Content Item Identifier is the set of these ordinal positions along the by-value relationship path. The number of values in this Multi-Value Attribute is exactly the number of relationships traversed in the SR content tree plus one. Note: 1. See C.17.3.2.5.

## CONTENT ITEM MACRO ATTRIBUTES DESCRIPTOR

Attribute Name	Tag	Attribute Description
Value Type	(0040,A040)	The type of the value encoded in this name-value Item. Defined Terms:xxx DATETIME DATE TIME PNAME UIDREF TEXT CODE NUMERIC
Concept Name Code S	(0040,A043)	Coded concept name of this name-value Item.
>Include 'Code Sequence Macro' Table 8.8-1		
Continuity of Content	(0040,A050)	This flag specifies for a CONTAINER whether or not its contained Content Items are logically linked in a continuous textual flow, or are separate items. Required if Value Type (0040,A040) is CONTAINER. Enumerated Values:
Text Value	(0040,A160)	This is the value of the Content Item. Required if Value Type (0040,A040) is TEXT. Text data which is unformatted and whose manner of display is implementation dependent. The text value may contain spaces, as well as multiple lines separated by either LF, CR, CR LF or LF CR, but otherwise no format control characters (such as horizontal or vertical tab and form feed) shall be present, even if permitted by the Value Representation of UT. The text shall be interpreted
Date Time	(0040,A120)	This is the value of the Content Item. Required if Value Type (0040,A040) is DATETIME.
Date	(0040,A121)	This is the value of the Content Item. Required if Value Type (0040,A040) is DATE.
Time	(0040,A122)	This is the value of the Content Item. Required if Value Type (0040,A040) is TIME.
Person Name	(0040,A123)	This is the value of the Content Item. Required if Value Type (0040,A040) is PNAME.
UID	(0040,A124)	This is the value of the Content Item. Required if Value Type (0040,A040) is UIDREF.

## タイトル・ヘッダ・エレメントのコード化

### CID 7000 Diagnostic Imaging Report Document Titles

Coding Scheme Designator	Code Value (0008,0100)	Code Meaning (0008,0104)
LN	18745-0	Cardiac Catheteization Report
LN	11540-2	CT Abdomen Report
LN	11538-6	CT Chest Report
LN	11539-4	CT Head Report
LN	18747-6	CT Report
LN	18748-4	Diagnostic Imaging Report
LN	11522-0	Echocardiography Report
LN	18760-9	Ultrasound Report
LN	11541-0	MRI Head Report
LN	18755-9	MRI Report
LN	18756-7	MRI Spine Report
LN	18757-5	Nuclear Medicine Report
LN	11525-3	Ultrasound Obstetric and Gyn Report
LN	18758-3	PET Scan Report
LN	11528-7	Radiology Report

### CID 7001 Diagnostic Imaging Report Headings

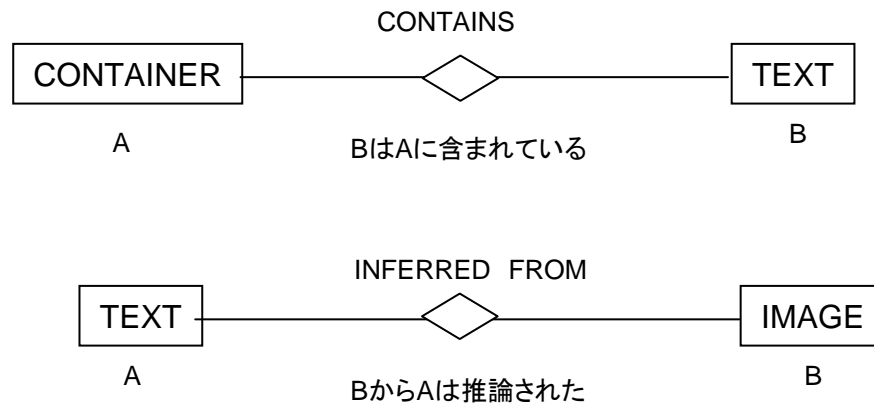
Coding Scheme Designator	Code Value (0008,0100)	Code Meaning (0008,0104)
DCM	121060	History
DCM	121062	Request
DCM	121064	Current Procedure Descriptions
DCM	121066	Prior Procedure Descriptions
DCM	121068	Previous Findings
DCM	121070	Findings
DCM	121072	Impressions
DCM	121074	Recommendations
DCM	121076	Conclusions
DCM	121078	Addendum
DCM	121109	Indications for Procedure
DCM	121110	Patient Presentation
DCM	121113	Complications
DCM	121111	Summary

### CID 7002 Diagnostic Imaging Report Elements

Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)
DCM	121060	History
DCM	121062	Request
DCM	121065	Procedure Description
DCM	121069	Previous Finding
DCM	121071	Finding
DCM	121073	Impression
DCM	121075	Recommendation
DCM	121077	Conclusion
SRT	DD-60002	Complication of Procedure
DCM	121110	Patient Presentation
DCM	121111	Summary

## SR Relationship

- Dicom SRのContentsとContentsはRelationしている。



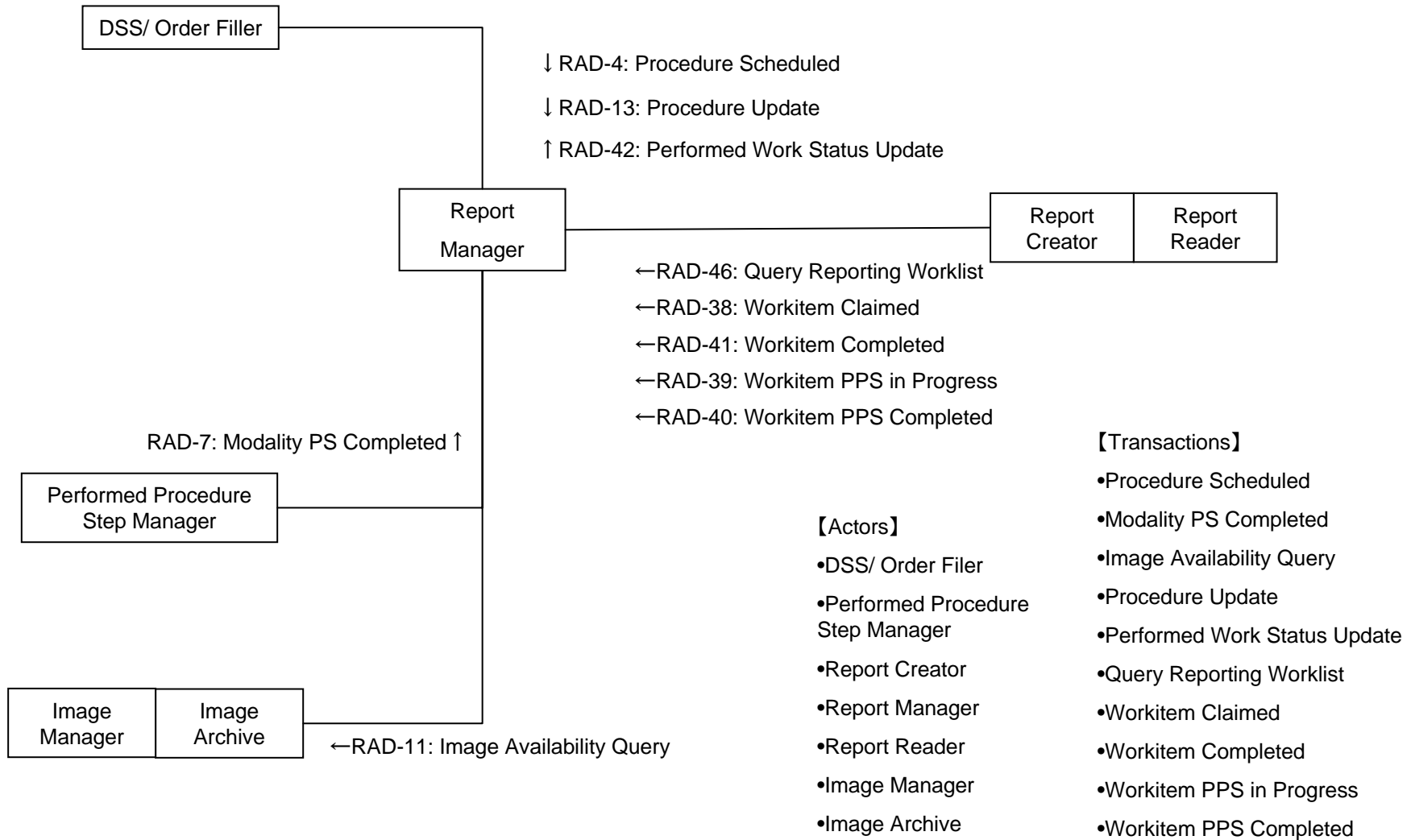
### RELATIONSHIP CONTENT CONSTRAINTS FOR BASIC TEXT SR IOD

Source Value Type	Relationship Type (Enumerated Values)	Target Value Type
CONTAINER	CONTAINS	TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME, COMPOSITE1, IMAGE1, WAVEFORM1, CONTAINER
CONTAINER	HAS OBS CONTEXT	TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME, COMPOSITE1
CONTAINER, IMAGE1, WAVEFORM1, COMPOSITE1	HAS ACQ CONTEXT	TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME
any type	HAS CONCEPT MOD	TEXT, CODE2
TEXT	HAS PROPERTIES	TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME, IMAGE1, WAVEFORM1,
TEXT	INFERRED FROM	TEXT, CODE, DATETIME, DATE, TIME, UIDREF, PNAME, IMAGE1, WAVEFORM1,

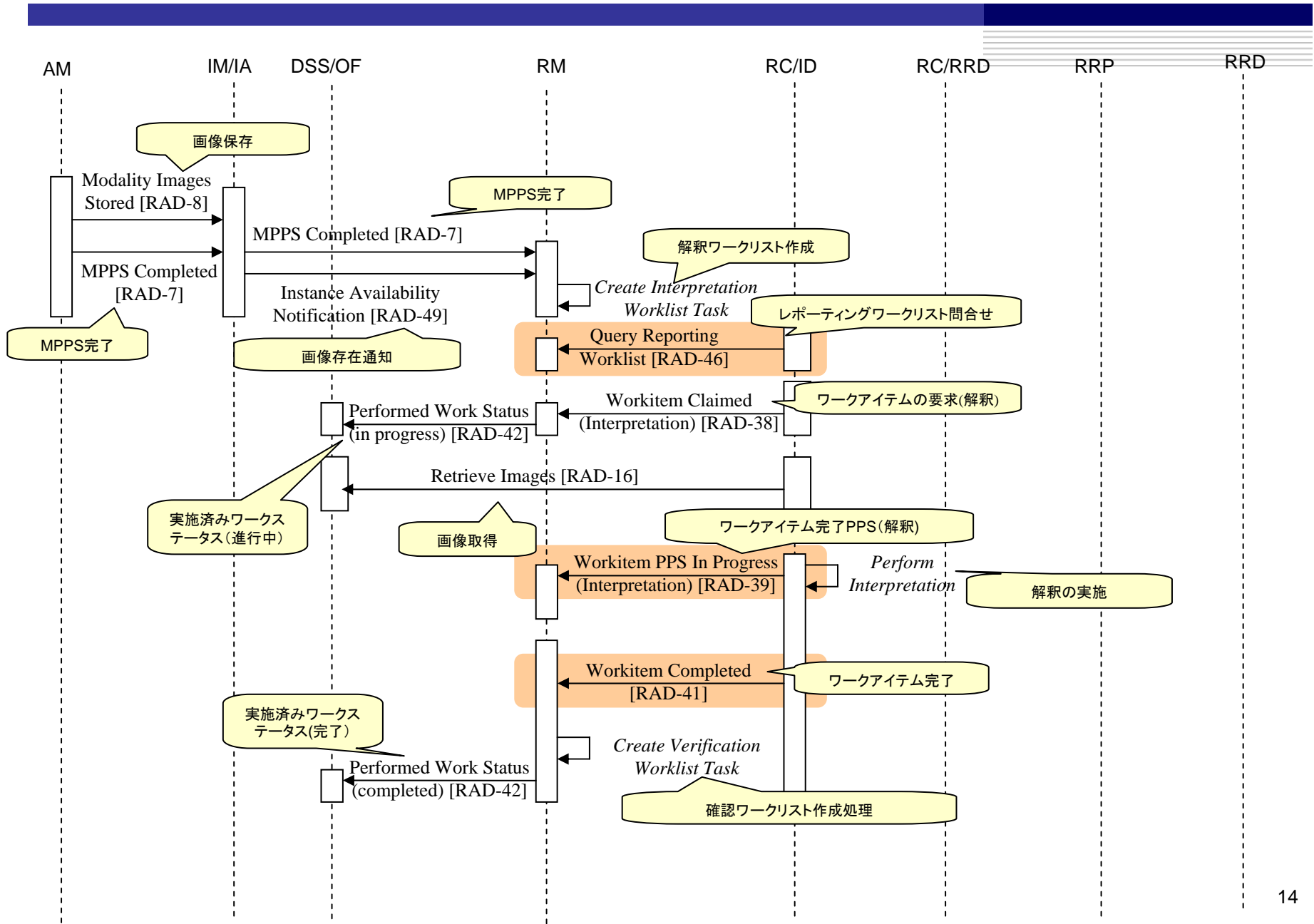
# レポートシステムとSR

The screenshot displays a medical reporting application interface. On the left, four axial CT scan slices are arranged in a 2x2 grid. Each slice includes technical parameters such as '画像番号' (Image Number), 'スライス厚' (Slice Thickness), 'KVP', 'mA', 'スライス位置' (Slice Position), and 'WW/WC'. The top right of the interface features a toolbar with icons for '新規作成' (New), '承認' (Approve), '承認依頼' (Request Approval), '修正依頼' (Request Correction), '保存' (Save), and 'キャンセル' (Cancel). Below the toolbar, the 'レポート情報' (Report Information) section contains patient and study details: '患者ID: anon16908', '患者氏名: Anonymous16908', '検査年齢: モダリティ: CT', '検査ID: 16908', and '検査日: 2006.04.15'. The '観察者' (Observer) section lists '作成医師: def app' and '作成日: 2006.07.06'. The 'MRI Report' section shows 'Concept Modifier: Language of Content Item and Descendants = English(eng, ISO639\_2)', 'Complete Flag: PARTIAL', and 'Verify Flag: UNVERIFIED'. The 'History' section contains the text 'Rule out internal derangement.'. The 'Findings' section contains the text 'Within the posterior horn of the medial meniscus is minimal increase in signal intensity.' and 'Best illustration of findings: MR image'. A small thumbnail image of a slice is shown at the bottom of the findings section. Callouts on the right side of the interface identify various elements: 'Patient, Study, Series' points to the report information; 'Observation Contest' points to the observer information; 'Text' points to the history and findings sections; 'Text' points to the findings text; and 'Reference Image' points to the thumbnail image.

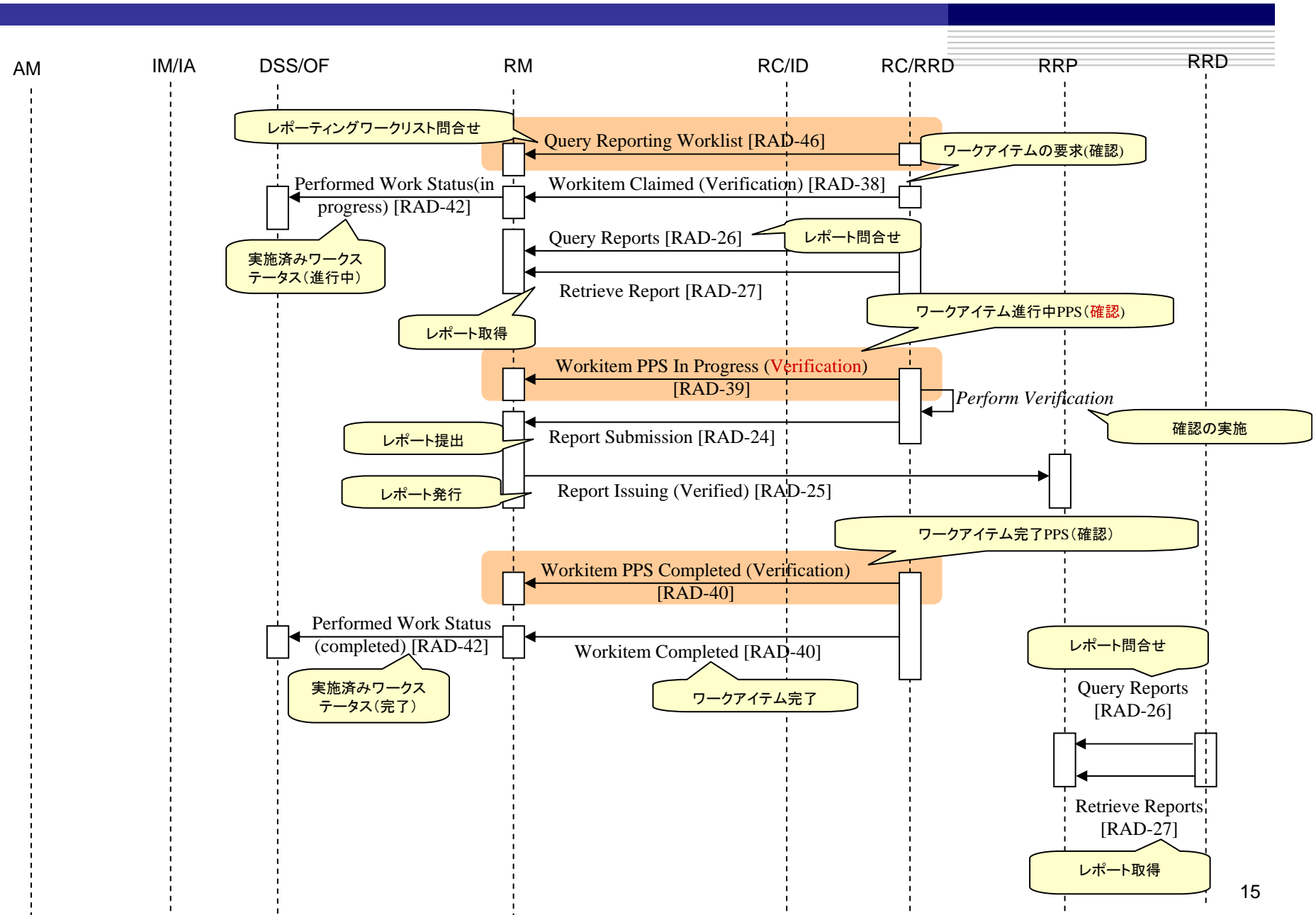
# RWF - Diagram



# RWF – Actors & Transactions(part1)

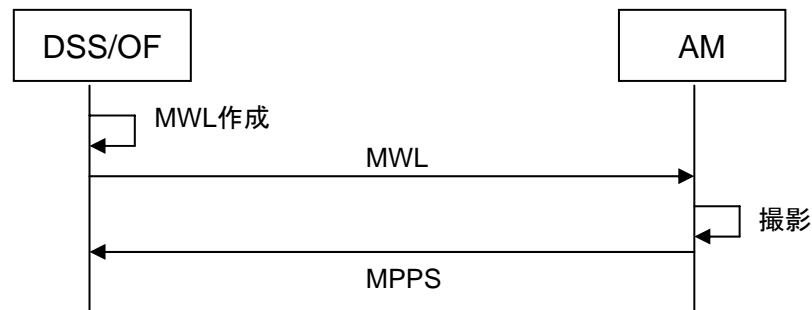


# RWF – Actors & Transactions(part2)

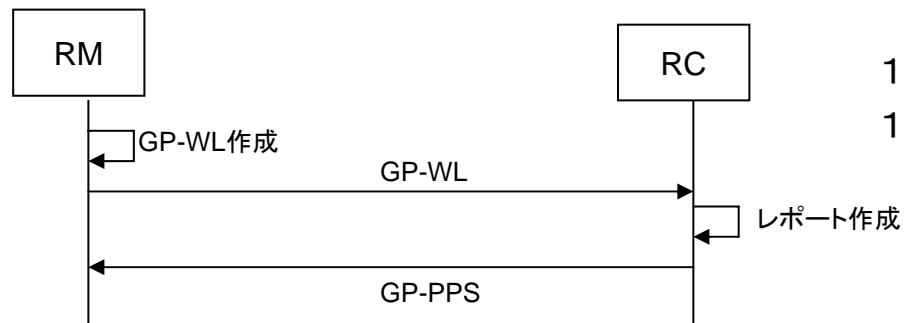


## RWFの概要

### •MWLとMPPS



### •GP-WLとGP-PPS



### 11のユースケース

- 1: Predefined Report (草案レポート)
- 2: Workitem Deferred (読影作業を延期する)
- 3: Direct Report Creation (直接レポート作成)
- 4: Interpretation and Dictation (読影とディクテーション)
- 5: Transcription (文書化)
- 6: Partial completion (部分的完成)
- 7: Verification (検証)
- 8: Double Reading (2重読影)
- 9: Comparison (比較)
- 10: Review (レビュー)
- 11: Over Read (確認読影)

RWFはSWFの『DSS/OF』と『AM』と大きな違いはない。

また11のユースケースはワークアイテムやPPSのステータスがそれぞれ異なるが基本は同じ。



## GP-WLの構成

## General Purpose Scheduled Procedure Step Information

Description / Module	Tag	Description / Module	Tag
General Purpose Scheduled Procedure Step Status	(0040,4001)	Referenced Performed Procedure Step Sequence	(0008,1111)
Input Availability Flag	(0040,4020)	>Referenced SOP Class UID	(0008,1150)
General Purpose Scheduled Procedure Step Priority	(0040,4003)	>Referenced SOP Instance UID	(0008,1155)
Scheduled Procedure Step ID	(0040,0009)	Input Information Sequence	(0040,4021)
Scheduled Procedure Step Modification Date and Time	(0040,4010)	>Study Instance UID	(0020,000D)
Scheduled Workitem Code Sequence	(0040,4018)	>Referenced Series Sequence	(0008,1115)
>Code Value	(0008,0100)	>>Series Instance UID	(0020,000E)
>Coding Scheme Designator	(0008,0102)	>>Retrieve AE Title	(0008,0054)
>Code Meaning	(0008,0104)	>>Storage Media File-Set ID	(0088,0130)
Scheduled Processing Applications Code Sequence	(0040,4004)	>>Storage Media File-Set UID	(0088,0140)
>Code Value	(0008,0100)	>>Referenced SOP Sequence	(0008,1199)
>Coding Scheme Designator	(0008,0102)	>>>Referenced SOP Class UID	(0008,1150)
>Code Meaning	(0008,0104)	>>>Referenced SOP Instance UID	(0008,1155)
Scheduled Station Name Code Sequence	(0040,4025)	Relevant Information Sequence	(0040,4022)
>Code Value	(0008,0100)	>Study Instance UID	(0020,000D)
>Coding Scheme Designator	(0008,0102)	>Referenced Series Sequence	(0008,1115)
>Code Meaning	(0008,0104)	>>Series Instance UID	(0020,000E)
Scheduled Station Class Code Sequence	(0040,4026)	>>Retrieve AE Title	(0008,0054)
>Code Value	(0008,0100)	>>Storage Media File-Set ID	(0088,0130)
>Coding Scheme Designator	(0008,0102)	>>Storage Media File-Set UID	(0088,0140)
>Code Meaning	(0008,0104)	>>Referenced SOP Sequence	(0008,1199)
Scheduled Station Geographic Location Code Sequence	(0040,4027)	>>>Referenced SOP Class UID	(0008,1150)
>Code Value	(0008,0100)	>>>Referenced SOP Instance UID	(0008,1155)
>Coding Scheme Designator	(0008,0102)	Resulting General Purpose Performed Procedure Step Sequence	(0040,4015)
>Code Meaning	(0008,0104)	>Referenced SOP Class UID	(0008,1150)
Scheduled Procedure Step Start Date and Time	(0040,4005)	>Referenced SOP Instance UID	(0008,1155)
Expected Completion Date and Time	(0040,4011)	Actual Human Performers Sequence	(0040,4035)
Scheduled Human Performers Sequence	(0040,4034)	>Human Performer Code Sequence	(0040,4009)
>Human Performer Code Sequence	(0040,4009)	>>Code Value	(0008,0100)
>>Code Value	(0008,0100)	>>Coding Scheme Designator	(0008,0102)
>>Coding Scheme Designator	(0008,0102)	>>Code Meaning	(0008,0104)
>>Code Meaning	(0008,0104)	>Human Performer's Name	(0040,4037)
>Human Performer's Name	(0040,4037)	>Human Performer's Organization	(0040,4036)
>Human Performer's Organization	(0040,4036)	Study Instance UID	(0020,000D)
		Multiple Copies Flag	(0040,4006)

## General Purpose Scheduled Procedure

Description / Module	Tag
Referenced Request Sequence	(0040,A370)
>Study Instance UID	(0020,000D)
>Referenced Study Sequence	(0008,1110)
>>Referenced SOP Class UID	(0008,1150)
>>Referenced SOP Instance UID	(0008,1155)
>Requested Procedure ID	(0040,1001)
>Requested Procedure Description	(0032,1060)
>Requested Procedure Code Sequence	(0032,1064)
>>Code Value	(0008,0100)
>>Coding Scheme Designator	(0008,0102)
>>Code Meaning	(0008,0104)
>Accession Number	(0008,0050)
>Requesting Physician	(0032,1032)

## Patient Relationship

Description / Module	Tag
Patient's Name	(0010,0010)
Patient ID	(0010,0020)

## Patient Demographic

Description / Module	Tag
Patient's Birth Date	(0010,0030)
Patient's Sex	(0010,0040)

## General Purpose Workitem Definition

Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)
DCM	110001	Image Processing
DCM	110002	Quality Control
DCM	110003	Computer Aided Diagnosis
DCM	110004	Computer Aided Detection
DCM	110005	Interpretation
DCM	110006	Transcription
DCM	110007	Report Verification
DCM	110008	Print
DCM	110009	No subsequent
DCM	110013	Media Import

## GP-PPSの構成

General Purpose Performed Procedure Step  
Relationship Module Attributes

Attribute Name	Tag
Patient's Name	(0010,0010)
Patient ID	(0010,0020)
Issuer of Patient ID	(0010,0021)
Patient's Birth Date	(0010,0030)
Patient's Sex	(0010,0040)
Referenced Request Sequence	(0040,A370)
>Study Instance UID	(0020,000D)
>Referenced Study Sequence	(0008,1110)
>>Referenced SOP Class UID	(0008,1150)
>>Referenced SOP Instance UID	(0008,1155)
>Accession Number	(0008,0050)
>Requested Procedure Code Sequence	(0032,1064)
>>Include Code Sequence Macro Table 8.8-1	
>Placer Order Number/Imaging Service Request	(0040,2016)
>Filler Order Number/Imaging Service Request	(0040,2017)
>Requested Procedure ID	(0040,1001)
>Requested Procedure Description	(0032,1060)
Referenced General Purpose Scheduled Procedure Step Sequence	(0040,4016)
>Referenced SOP Class UID	(0008,1150)
>Referenced SOP Instance UID	(0008,1155)
>Referenced General Purpose Scheduled Procedure Step Transaction UID	(0040,4023)

## General Purpose Results Module Attributes

Attribute Name	Tag
Output Information Sequence	(0040,4033)
>Include 'SOP Instance Reference Macro' Table C.17-3	
Requested Subsequent Workitem Code Sequence	(0040,4031)
>Include Code Sequence Macro Table 8.8-1	
Non-DICOM Output Code Sequence	(0040,4032)
>Include Code Sequence Macro Table 8.8-1	

General Purpose Performed Procedure Step Information  
Module Attributes

Attribute Name	Tag
Actual Human Performers Sequence	(0040,4035)
>Human Performer Code Sequence	(0040,4009)
>>Include Code Sequence Macro Table 8.8-1	
>Human Performer's Name	(0040,4037)
>Human Performer's Organization	(0040,4036)
Performed Station Name Code Sequence	(0040,4028)
>Include Code Sequence Macro Table 8.8-1	
Performed Station Class Code Sequence	(0040,4029)
>Include Code Sequence Macro Table 8.8-1	
Performed Station Geographic Location Code Sequence	(0040,4030)
>Include Code Sequence Macro Table 8.8-1	
Performed Processing Applications Code Sequence	(0040,4007)
>Include Code Sequence Macro Table 8.8-1	
Performed Procedure Step Start Date	(0040,0244)
Performed Procedure Step Start Time	(0040,0245)
Performed Procedure Step ID	(0040,0253)
Performed Procedure Step End Date	(0040,0250)
Performed Procedure Step End Time	(0040,0251)
General Purpose Performed Procedure Step Status	(0040,4002)
Performed Procedure Step Description	(0040,0254)
Comments on the Performed Procedure Step	(0040,0280)
Performed Workitem Code Sequence	(0040,4019)
>Include Code Sequence Macro Table 8.8-1	

## GENERAL PURPOSE SCHEDULED PROCEDURE STEP STATES

State	Description
Scheduled	General Purpose Scheduled Procedure Step created and scheduled to be performed
In Progress	General Purpose Scheduled Procedure Step created and execution in progress. This is the only state that implies an exclusive lock.
Suspended	Execution of the General Purpose Scheduled Procedure Step temporarily suspended.
Discontinued	Execution of General Purpose Scheduled Procedure Step canceled by SCU
Completed	General Purpose Scheduled Procedure Step completed by SCU

MPPSとステータスは同じである。

## Study Level

- 共通のStudyレベルの検索条件

Attribute Name	Tag	Query Keys Matching		Query Keys Return	
		SCU	SCP	SCU	SCP
<b>Study Level</b>					
Study Date	(0008,0020)	R+	R	R+	R
Study Time	(0008,0030)	R+	R	R+	R
Accession Number	(0008,0050)	R+	R	R+	R
Patient Name	(0010,0010)	R+	R	R+	R
Patient ID	(0010,0020)	R+	R	R+	R
Study ID	(0020,0010)	R+	R	R+	R
Study Instance UID	(0020,000D)	R+	R	R+*	R
Modalities in Study	(0008,0061)	R+	R+	R+	R+
Referring Physician's Name	(0008,0090)	R+	R+	R+	R+
Study Description	(0008,1030)	O	O	O	O
Procedure Code Sequence	(0008,1032)				
>Code Value	(0008,0100)	O	O	O	O
>Coding Scheme Designator	(0008,0102)	O	O	O	O
>Coding Scheme Version	(0008,0103)	O	O	O	O
>Code Meaning	(0008,0104)	O	O	O	O
Name of Physician(s) Reading Study	(0008,1060)	O	O	O	O
Admitting Diagnoses Description	(0008,1080)	O	O	O	O
Referenced Study Sequence	(0008,1110)				
>Referenced SOP Class UID	(0008,1150)	O	O	O	O
>Referenced SOP Instance UID	(0008,1155)	O	O	O	O
Referenced Patient Sequence	(0008,1120)				
>Referenced SOP Class UID	(0008,1150)	O	O	O	O
>Referenced SOP Instance UID	(0008,1155)	O	O	O	O
Patient's Birth Date	(0010,0030)	O	O	R+	R+
Patient's Birth Time	(0010,0032)	O	O	O	O
Patient's Sex	(0010,0040)	O	O	R+	R+
Other Patient IDs	(0010,1000)	O	O	O	O
Other Patient Names	(0010,1001)	O	O	O	O
Patient's Age	(0010,1010)	O	O	O	O
Patient's Size	(0010,1020)	O	O	O	O
Patient's Weight	(0010,1030)	O	O	O	O
Ethnic Group	(0010,2160)	O	O	O	O
Occupation	(0010,2180)	O	O	O	O
Additional Patient History	(0010,21B0)	O	O	O	O
Patient Comments	(0010,4000)	O	O	O	O
Other Study Numbers	(0020,1070)	O	O	O	O
Number of Patient Related Studies	(0020,1200)	N/A	N/A	O	O
Number of Patient Related Series	(0020,1202)	N/A	N/A	O	O
Number of Patient Related Instances	(0020,1204)	N/A	N/A	O	O
Number of Study Related Series	(0020,1206)	N/A	N/A	O	R+
Number of Study Related Instances	(0020,1208)	N/A	N/A	O	R+
Interpretation Author	(4008,010C)	O	O	O	O

## Series Level & Object Instance Level

- 共通のSeriesレベルの検索条件

Attribute Name	Tag	Query Keys Matching		Query Keys Return	
		SCU	SCP	SCU	SCP
<b>Series Level</b>					
Modality	(0008,0060)	R+	R	R+	R
Series Number	(0020,0011)	R+	R	R+	R
Series Instance UID	(0020,000E)	R+	R	R+*	R
Number of Series Related Instances	(0020,1209)	N/A	N/A	O	R+
Series Description	(0008,103E)	O	O	R+	R+
Performed Procedure Step ID	(0040, 0253)	O	O	O	O
Referenced Performed Procedure Step Sequence	(0008,1111)				
>Referenced SOP Class UID	(0008,1150)	O	O	O	O
>Referenced SOP Instance UID	(0008,1155)	O	O	O	O
Request Attribute Sequence	(0040, 0275)				
>Requested Procedure ID	(0040,1001)	R+	R+	R+	R+
>Scheduled Procedure Step ID	(0040,0009)	R+	R+	R+	R+
Performed Procedure Step Start Date	(0040,0244)	R +	R+	R+	R+
Performed Procedure Step Start Time	(0040,0245)	R +	R+	R+	R+

- 共通のObjectレベルの検索条件

Attribute Name	Tag	Query Keys Matching		Query Keys Return	
		SCU	SCP	SCU	SCP
<b>Composite Object Instance Level</b>					
Instance Number	(0020,0013)	R+	R	R+*	R
Overlay Number	(0020,0022)	O	O	O	O
Curve Number	(0020,0024)	O	O	O	O
LUT Number	(0020,0026)	O	O	O	O
SOP Instance UID	(0008,0018)	R+	R	R+*	R
SOP Class UID	(0008,0016)	O	R+	O	R+

## SR Instance Level

- SR固有のObjectレベルの検索条件

Attribute Name	Tag	Query Keys Matching		Query Keys Return	
		SCU	SCP	SCU	SCP
<b>SR Instance Specific Level</b>					
Completion Flag	(0040,A491)	R+	R+	R+	R+
Verification Flag	(0040,A493)	R+	R+	R+	R+
Content Date	(0008,0023)	O	O	O	R+
Content Time	(0008,0033)	O	O	O	R+
Observation DateTime	(0040,A032)	O	O	O	R+
Verifying Observer Sequence	(0040,A073)				
>Verifying Organization	(0040,A027)	O	O	R+	R+
>Verification DateTime	(0040,A030)	R+	R+	R+	R+
>Verifying Observer Name	(0040,A075)	R+	R+	R+	R+
>Verifying Observer Identification Code Sequence	(0040,A088)				
>> Code Value	(0008,0100)	O	O	R+	R+
>> Coding Scheme Designator	(0008,0102)	O	O	R+	R+
>> Coding Scheme Version	(0008,0103)	O	O	R+	R+
>> Code Meaning	(0008,0104)	O	O	R+	R+
Referenced Request Sequence	(0040,A370)				
>Study Instance UID	(0020,000D)	O	O	R+*	R+
>Accession Number	(0008,0050)	O	O	R+	R+
>Requested Procedure ID	(0040,1000)	O	O	R+	R+
>Requested Procedure Code Sequence	(0032,1064)				
>>Code Value	(0008,0100)	O	O	O	R+
>>Coding Scheme Designator	(0008,0102)	O	O	O	R+
>>Coding Scheme Version	(0008,0103)	O	O	O	R+
>>Code Meaning	(0008,0104)	O	O	O	R+
Concept Name Code Sequence	(0040,A043)				
>Code Value	(0008,0100)	R+	R+	R+	R+
>Coding Scheme Designator	(0008,0102)	R+	R+	R+	R+
>Coding Scheme Version	(0008,0103)	O	O	O	R+
>Code Meaning	(0008,0104)	O	O	R+	R+



ご清聴ありがとうございました

急募  
IHE-J SRWGにて委員募集中  
次回8/1 13:00~@JIRA会議室