



Change Healthcare Workflow Intelligence™

Product Documentation

**Change Healthcare Workflow Intelligence
DICOM Conformance Statement**

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Corporate address

Change Healthcare Holdings, LLC
 100 Airpark Center Drive East
 Nashville, TN 37217
 U.S.

Address

Change Healthcare Canada Company
 10711 Cambie Road
 Richmond, BC V6X 3G5, Canada
 Telephone: 604-279-5422
 Toll-Free: 1-800-661-5885
 Fax: 1-800-261-5432
www.changehealthcare.com

Conformance Statement Overview

This document describes the DICOM features supported by Change Healthcare Workflow Intelligence 14.2 and the system components: PDR, PDQ and Study Router.

Change Healthcare Workflow Intelligence 14.2 comprises tools used by imaging professionals to assign, prioritize, review and display all interpretation, quality improvement and communication tasks in a unified enterprise presentation. In addition, dependent on the environment, Change Healthcare Workflow Intelligence 14.2 can launch multiple PACS viewers or be triggered within the PACS based on the task. Synchronizing data, depending on the type of task, is accomplished by both push and pull methods which include query and data retrieval from the PACS.

Change Healthcare Workflow Intelligence 14.2 provides a Web-based content management solution. From any PACS workstation or image viewer users may author and publish tasks to searchable worklists. Customers can configure custom worklists, dictionaries, and fields to create site-tailored task formats. PDR application acts as a DICOM repository for Change Healthcare Workflow Intelligence 14.2 to retrieve and store the images.

Change Healthcare Workflow Intelligence 14.2 is a fully customizable, Web-based and PACS-integrated solution to address quality, workflow and communications challenges, including:

- Critical Test Results Management (CTRM)
- ACR required Peer Review
- Emergency Dept. Discrepancy Management
- Technologist Performance quality improvement
- Radiation Dose Reporting

PDQ application provides DICOM query/receive service to retrieve the DICOM objects from PACS for Change Healthcare Workflow Intelligence 14.2. Study Router moves studies between PACS for Peer Review workflow.

Table 1 on page 3 provides an overview of the network services supported by Change Healthcare Workflow Intelligence 14.2.

Table 1 Network Services

SOP Class Name	SOP Class UID	SCU	SCP
Verification			
Verification	1.2.840.10008.1.1	Yes	Yes
Transfer			
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	Yes	Yes
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	Yes	Yes
Ultrasound Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.6	Yes	Yes
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Yes	Yes

SOP Class Name	SOP Class UID	SCU	SCP
Ultrasound Multi-frame Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.3	Yes	Yes
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Yes	Yes
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	Yes	Yes
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	Yes	Yes
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	Yes	Yes
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	Yes	Yes
Digital Mammography X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.2	Yes	Yes
Digital Mammography X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	Yes	Yes
Digital Intra-Oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3	Yes	Yes
Digital Intra-Oral X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	Yes	Yes
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	Yes	Yes
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	Yes	Yes
X-Ray Radio fluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2	Yes	Yes
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Yes	Yes
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Yes	Yes
Multi-frame Grayscale Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	Yes	Yes
Multi-frame Grayscale Word Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.3	Yes	Yes
Multi-frame True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	Yes	Yes
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Yes	Yes
X-Ray Radio fluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2	Yes	Yes
X-Ray 3D Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.13.1.1	Yes	Yes
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	Yes	Yes
X-Ray Radiation Dose SR	1.2.840.10008.5.1.4.1.1.88.67	Yes	No
Query/Retrieve			
Study Root Q/R- FIND	1.2.840.10008.5.1.4.1.2.2.1	Yes	Yes *
Study Root Q/R- MOVE	1.2.840.10008.5.1.4.1.2.2.2	Yes	Yes *
Patient Root Q/R - FIND	1.2.840.10008.5.1.4.1.2.1.1	Yes	No
Workflow Management			

SOP Class Name	SOP Class UID	SCU	SCP
Modality Worklist Information Model - FIND	1.2.840.10008.5.1.4.31	Yes	No

- * **Note: It is only applicable when other AEs are querying studies for teaching files. Otherwise, Study Root Q/R – FIND and MOVE would not be acting as SCP. Teaching files is not supported by Workflow Intelligence.**

Other than the SOP classes listed in Table 1, additional SOP classes from user's RFP response may be still supported. It needs to be tested to confirm whether supported by Change Healthcare Workflow Intelligence.

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Introduction

Audience

This document is the DICOM 3.0 Conformance Statement for Change Healthcare Workflow Intelligence 14.2. It is intended for hospital staff, health system integrators, and software designers or implementers who need to have a detailed understanding of the DICOM features of the product. This document contains some basic DICOM definitions so that any reader may understand how this product implements DICOM features. However, integrators are expected to fully understand all the DICOM terminology, how the tables in this document relate to the product's functionality, and how that functionality integrates with other devices that support compatible DICOM features.

Remarks

Change Healthcare Workflow Intelligence 14.2 comprises tools used by imaging professionals to assign, prioritize, review and display all interpretation, quality improvement and communication tasks in a unified enterprise presentation. In addition, dependent on the environment, Change Healthcare Workflow Intelligence 14.2 can launch multiple PACS viewers or be triggered within the PACS based on the task. The system conforms to the DICOM 3.0 standard to allow the sharing of medical information with other digital imaging systems.

DICOM, by itself, does not guarantee interoperability. However, the Conformance Statement facilitates a first-level validation for interoperability between different applications supporting the same DICOM functionality.

This Conformance Statement is not intended to replace validation with other DICOM equipment to ensure proper exchange of information.

The scope of this Conformance Statement is to facilitate communication between Change Healthcare Workflow Intelligence 14.2 modules and other DICOM systems. The Conformance Statement should be read and understood in conjunction with the DICOM Standard. DICOM by itself does not guarantee interoperability. The Conformance Statement does, however, facilitate a first-level comparison for interoperability between different applications supporting compatible DICOM functionality.

The user should be aware of the following important issues:

- The comparison of different Conformance Statements is the first step towards assessing interconnectivity between Change Healthcare Workflow Intelligence 14.2 and other DICOM conformant equipment and systems.
- Test procedures should be defined to validate the desired level of connectivity.

Terms and Definitions

Application Entity (AE)

An end point of a DICOM information exchange, including the DICOM network or media interface software; i.e., the software that sends or receives DICOM information objects or messages. A single device may have multiple Application Entities.

Application Entity Title (AET)

The externally known name of an Application Entity, used to identify a DICOM application to other DICOM applications on the network.

Association

A network communication channel set up between Application Entities.

Attribute

A unit of information in an object definition; a data element identified by a tag. The information may be a complex data structure (Sequence), itself composed of lower level data elements. Examples: Patient ID (0010,0020), Accession Number (0008,0050), Photometric Interpretation (0028,0004), Procedure Code Sequence (0008,1032).

Module

A set of Attributes within an Information Object Definition that are logically related to each other. Example: Patient Module includes Patient Name, Patient ID, Patient Birth Date, and Patient Sex.

Service Class Provider (SCP)

Role of an Application Entity that provides a DICOM network service; typically, a server that performs operations requested by another Application Entity (Service Class User). Examples: Picture Archiving and Communication System (image storage SCP, and image query/retrieve SCP), Radiology Information System (modality worklist SCP).

Service Class User (SCU)

Role of an Application Entity that uses a DICOM network service; typically, a client. Examples: imaging modality (image storage SCU, and modality worklist SCU), imaging workstation (image query/retrieve SCU)

Service/Object Pair Class (SOP Class)

The specification of the network or media transfer (service) of a particular type of data (object); the fundamental unit of DICOM interoperability specification. Examples: Ultrasound Image Storage Service, Basic Grayscale Print Management.

Service/Object Pair Instance (SOP Instance)

An information object; a specific occurrence of information exchanged in a SOP Class. Examples: a specific x-ray image.

Tag

A 32-bit identifier for a data element, represented as a pair of four digit hexadecimal numbers, the "group" and the "element". If the "group" number is odd, the tag is for a private

(manufacturer-specific) data element. Examples: (0010,0020) [Patient ID], (07FE,0010) [Pixel Data], (0019,0210) [private data element]

Transfer Syntax

The encoding used for exchange of DICOM information objects and messages. Examples: JPEG compressed (images), little endian explicit value representation.

Unique Identifier (UID)

A globally unique "dotted decimal" string that identifies a specific object or a class of objects; an ISO-8824 Object Identifier. Examples: Study Instance UID, SOP Class UID, SOP Instance UID.

Task

A Change Healthcare Workflow Intelligence task is created by applying preconfigured rules to new patient exams as they are ordered or acquired in the system and displayed as a task on the Change Healthcare Workflow Intelligence 14.2 Worklist that requires an interpretation or quality action.

Basics of DICOM Communication

Two Application Entities (devices) that want to communicate with each other over a network using DICOM protocol must first agree on several things during an initial network "handshake". One of the two devices must initiate an Association (a connection to the other device), and ask if specific services, information, and encoding can be supported by the other device (Negotiation).

DICOM specifies a number of network services and types of information objects, each of which is called an Abstract Syntax for the Negotiation. DICOM also specifies a variety of methods for encoding data, denoted Transfer Syntaxes. The Negotiation allows the initiating Application Entity to propose combinations of Abstract Syntax and Transfer Syntax to be used on the Association; these combinations are called Presentation Contexts. The receiving Application Entity accepts the Presentation Contexts it supports.

For each Presentation Context, the Association Negotiation also allows the devices to agree on Roles - which one is the Service Class User (SCU - client) and which is the Service Class Provider (SCP - server). Normally the device initiating the connection is the SCU, i.e., the client system calls the server, but not always.

The Association Negotiation finally enables exchange of maximum network packet (PDU) size, security information, and network service options (called Extended Negotiation information).

The Application Entities, having negotiated the Association parameters, may now commence exchanging data. Common data exchanges include queries for worklists and lists of stored images, transfer of image objects and analyses (structured reports), and sending images to film printers. Each exchangeable unit of data is formatted by the sender in accordance with the appropriate Information Object Definition, and sent using the negotiated Transfer Syntax. There is a Default Transfer Syntax that all systems must accept, but it may not be the most efficient for some use cases. Each transfer is explicitly acknowledged by the receiver with a Response Status indicating success, failure, or that query or retrieve operations are still in process.

Abbreviations

AE	Application Entity
CR	Computed Radiography
CT	Computed Tomography
DX	Digital X-ray
MG	Mammography (X-ray)
MR	Magnetic Resonance Imaging
NM	Nuclear Medicine
PDR	peerVue DICOM Repository
PDQ	peerVue DICOM Query
RDSR	Radiation Dose Structured Report
SR	Structured Reporting
US	Ultrasound
WI	Workflow Intelligence
XA	X-ray Angiography

References

NEMA PS3 Digital Imaging and Communications in Medicine (DICOM) Standard, available free at <http://medical.nema.org/>.

Networking

This section contains the networking related services.

Implementation Model

The Implementation model consists of three sections: the Application Data Flow Diagram, specifying the relationship between the Application Entities and the "external world" or Real-World activities, a functional description of each Application Entity, and the sequencing constraints among them.

Application Data Flow

Change Healthcare Workflow Intelligence 14.2 implements the following Windows services as DICOM application entities to provide/consume DICOM services.

Change Healthcare Workflow Intelligence PDR Service

PDR service is installed as a Windows service.

PDR Service provides:

- Query a remote DICOM application entity (typically a DICOM archive) for images and other objects.
- Import images from a remote DICOM application entity to Change Healthcare Workflow Intelligence 14.2.
- Replies to communication tests from remote DICOM application entities.

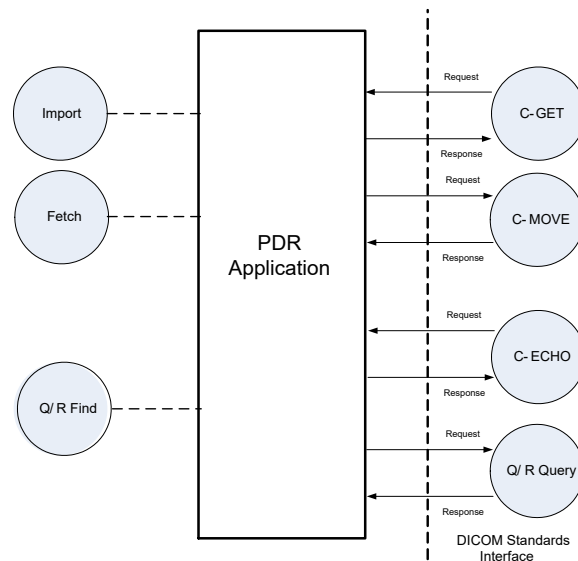


Figure 1 PDR application Data Flow

Change Healthcare Workflow Intelligence PDQ service

PDQ service is installed as a Windows service.

Change Healthcare Workflow Intelligence 14.2 relies on the peerVue DICOM Query (PDQ) Windows Service to query the PACS archive at regular intervals to populate typical QI Spaces, such as Peer Review and ED Over-reads.

- PDQ contains a single Application Entity (AE), Q/R SCU.
- The AE only has one instance.
- Query a remote DICOM application entity (typically a DICOM archive) for images and other objects.

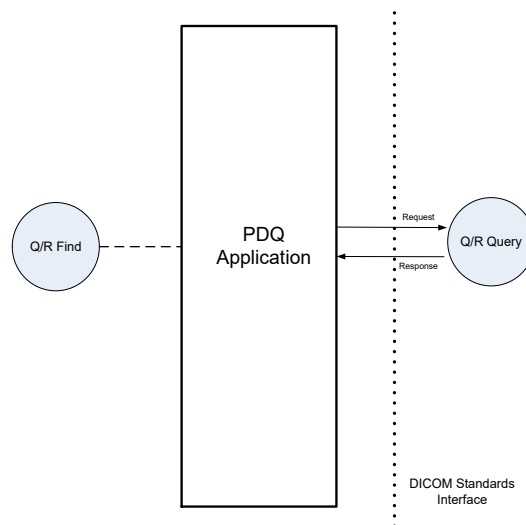


Figure 2 PDQ Application Data Flow

Change Healthcare Workflow Intelligence Study Router

The Study Router service is installed as a Windows service.

Change Healthcare Workflow Intelligence 14.2 relies on the peerVue Study Router Windows Service to move DICOM images between PACS and DICOM archives. The Study Router also collects the RDSR objects.

- Study Router contains a single Application Entity (AE), SCU.
- The AE only has one instance.
- Import RDSR objects from a remote DICOM application entity (typically a modality).

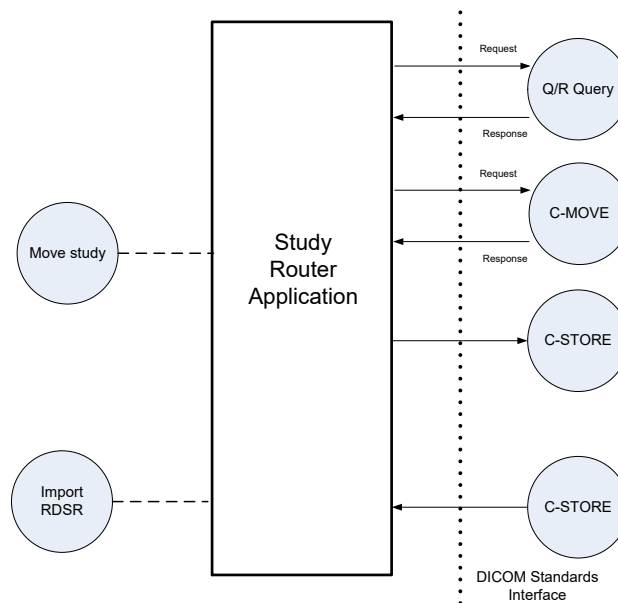


Figure 3 Study router Application Data Flow

Functional Definition of AEs

Functional Definition of PDR as SCU

PDR acts as a SCU and handles requests from users to query a DICOM PACS archive during general data mining of PACS data.

Functional Definition of PDQ as SCU

PDQ acts as a SCU to query new studies added to the DICOM PACS Archive to maintain synchronization between WIs and PACS.

Functional Definition of Study Router as SCU

Study Router acts as a SCU to query the remote application entities for study and series information and retrieve of composite SOP instances from the remote application entities using C-MOVE requests. Also it stores the RDSR objects received from the remote application entities (typically modalities) by C-STORE.

Functional Definition of Study Router as SCP

Study Router acts as an SCP to store studies to the remote application entities using C-STORE requests.

Functional Definition of Modality Worklist Management as SCU

Modality Worklist Management can use DICOM Modality Worklist queries to maintain synchronization.

Sequencing Real-World Activities

PDR

PDR allows another DICOM application to verify whether a DICOM association can be established.

PDR performs a Query/Retrieve when the user requests to have a study moved from the PACS Archive. PDR listens to the configured port as a SCP. In the event of successful C-MOVE operation, PDR stores the new images to a configured archive repository.

PDQ

PDQ performs a DICOM Query at regular intervals based on user-defined configuration. In the event of successful C-FIND operation, PDQ stores the DICOM attributes to the local database. See table 3 for supported DICOM attributes in C-FIND.

Study Router

Study Router performs study move between different application entities.

In the event of successful C-MOVE operation, Study Router stores the images in a local temporary storage and issues a C-STORE command to send the study to the destination PACS.

Study Router also collects RDSR objects from the remote application entities. In the event of successful C-STORE operation, Study Router checks if the DICOM object is a valid RDSR object. It stores the RDSR object to the local database after a data integrity test. If the DICOM object fails the test, it is discarded. Change Healthcare Workflow Intelligence 14.2 may use the saved RDSR information to evaluate the designed workflow rules. The RDSR information is also presented to the Change Healthcare Workflow Intelligence 14.2 users on UI.

AE Specifications

PDR AE Specifications

PDR is a component of Change Healthcare Workflow Intelligence 14.2. It supports the DICOM Study Root Q/R- FIND and Study Root Q/R – Move SOP Class. All parameters such as AE title, IP and Port can be accessed and changed by using Change Healthcare Workflow Intelligence Administration Web application.

SOP Classes

Table 2

DICOM SOP Class Name	SOP Class UID	SCU	SCP
Study Root Q/R- FIND	1.2.840.10008.5.1.4.1.2.2.1	Yes	Yes
Verification	1.2.840.10008.1.1	Yes	Yes
Study Root Q/R – Move	1.2.840.10008.5.1.4.1.2.2.2	Yes	No

Association Policies

PDR accepts associations for the purposes of Study Q/R and Study Move. Association requests from a remote DICOM AE is accepted only when the AE is configured as a known AE (typically a PACS) with IP and AE title.

Association Initiation Policy

PDR attempts to initiate with a remote application entity

- When an internal Q/R Find demand is raised.
- When an internal Fetch Study demand is raised.
- PDR attempts to initiate with a remote application entity when an internal Fetch Study demand is raised.

C-FIND Supported Attributes

Table 3: Attributes supported by C-FIND

Attribute Name	Attribute Tag	Attribute Description	Key
Patient Level			
Patient's Name	(0010,0010)	Patient's full name	Y
Patient ID	(0010,0020)	Primary hospital identification number or code for the patient.	Y
Patient's Birth Date	(0010,0030)	Birth date of the patient.	N
Patient's Sex	(0010,0040)	Sex of the named patient.	N

Attribute Name	Attribute Tag	Attribute Description	Key
		Enumerated Values: <ul style="list-style-type: none"> • M = male • F = female • O = other 	
Study Level			
Study Date	(0008,0020)	Date the Study started.	Y
Study Time	(0008,0030)	Time the Study started.	Y
Accession Number	(0008,0050)	A RIS generated number that identifies the order for the Study.	Y
Modalities in Study	(0008,0061)	Type of equipment(s) that originally acquired the data used to create the images in this study.	N
Operator's Name	(0008,0070)	Name(s) of the operator(s) supporting the Series.	N
Study Description	(0008,1030)	Description of the Study	Y
Study ID	(0020,0010)	User or equipment generated Study identifier	Y
Study Instance UID	(0020,000D)	Unique identifier for the Study of the Contributing SOP Instances.	N
Number of Study Related Series	(0020,1206)	Number of Study Related Series	N
Series Level			
Series Date	(0008,0021)	Date the Series started.	N
Series Time	(0008,0031)	Time the Series started.	N
Modality	(0008,0060)	Type of equipment that originally acquired the data used to create the images in this series.	N
Series Description	(0008,103E)	User provided description of the Series	N

Note: DICOM attributes can be removed and added via configurations in Change Healthcare Workflow Intelligence.

C-MOVE Supported Attributes

Table 4: Attributes supported by C-MOVE

Attribute Name	Attribute Tag	Attribute Description
Patient Level		
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)	Birth date of the patient.
Patient's Sex	(0010,0040)	Sex of the named patient. Enumerated Values: <ul style="list-style-type: none"> • M = male • F = female • O = other
Study Level		
Study Date	(0008,0020)	Date the Study started.
Study Time	(0008,0030)	Time the Study started.
Accession Number	(0008,0050)	A RIS generated number that identifies the order for the Study.
Modalities in Study	(0008,0061)	Type of equipment(s) that originally acquired the data used to create the images in this study.
Referring Physician's Name	(0008,0090)	Name of the patient's referring physician
Study Description	(0008,1030)	Description of the Study
Study ID	(0020,0010)	User or equipment generated Study identifier
Study Instance UID	(0020,000D)	Unique identifier for the Study of the Contributing SOP Instances.
Number of Study Related Series	(0020,1206)	Number of Study Related Series

Note: The complete DICOM instances may be accessible.

Association Acceptance Policy

PDR accepts an association only from remote DICOM AEs which are configured as known AE in the system.

PDR rejects associations in the following situations:

- Incorrect AE title in association requests

- When the maximum number of associations is reached (default: 5)

Change Healthcare Workflow Intelligence AE accepts associations for the following events:

- DICOM C-ECHO used during verification

PDQ AE Specifications

PDQ is a component of Change Healthcare Workflow Intelligence 14.2. It supports the DICOM Study Q/R- FIND and Patient Root Q/R – FIND SOP Class.

SOP Classes

Table 5

DICOM SOP Class Name	SOP Class UID	SCU	SCP
Study Root Q/R- FIND	1.2.840.10008.5.1.4.1.2.2.1	Yes	No
Patient Root Q/R – FIND	1.2.840.10008.5.1.4.1.2.1.1	Yes	No

Association Policies

Not Applicable.

Association Initiation Policy

PDQ attempts to initiate with a remote application entity when an internal Q/R Find demand is raised.

C-FIND Supported Attributes

See Table 3 for C-FIND supported attributes.

Association Acceptance Policy

Not Applicable.

Study Router AE Specification

Study Router is a component of Change Healthcare Workflow Intelligence 14.2. It supports the DICOM Study Q/R- FIND and Study Root Q/R – Move SOP Class. All parameters such as AE title, IP and Port can be accessed and changed by using Change Healthcare Workflow Intelligence 14.2 Administration Web application.

SOP Classes

Table 6

DICOM SOP Class Name	SOP Class UID	SCU	SCP
Study Root Q/R- FIND	1.2.840.10008.5.1.4.1.2.2.1	Yes	No
Study Root Q/R – Move	1.2.840.10008.5.1.4.1.2.2.2	Yes	No

Association Policies

Not Applicable.

Association Initiation Policy

Study Router attempts to initiate with a remote application entity

- When an internal Q/R Find demand is raised.
- When an internal Move Study demand is raised.

C-FIND Supported Attributes

See *Table 3* for C-FIND supported attributes.

C-MOVE Supported Attributes

See *Table 4* for C-MOVE supported attributes.

Association Acceptance Policy

Study Router accepts an association only from remote DICOM AEs, which are configured as known AE in the system.

Study Router rejects associations in the following situations:

- Reject any syntaxes not beginning with “1.2.840.10008”

Configuration

The Change Healthcare Workflow Intelligence 14.2 Web application is used for configuration and administration. Configurable parameters include known remote application entities and the local AE parameters.

Table 7: AE Title configuration

Application Entity	Default AE Title	Default TCP/IP Port
PDQ	PEERVUE_SCU	Not applicable
PDR for query/retrieve	PEERVUE_SCU	Not applicable
PDR for storage	PEERVUE_SCP	4000
Study Router	PEERVUE_SCU	Not applicable
Study Router	PEERVUE_SCP	4000

PDR AE

The AE titles and TCP/IP port number of PDR must be configured in Change Healthcare Workflow Intelligence Administration, General configuration for Integration.

PDQ AE

The AE titles, TCP/IP port number, and hostname or IP address of the remote DICOM application entities (typically a PACS) must be configured in Change Healthcare Workflow Intelligence Administration, General configuration for Integration.

Study Router AE

The AE title, TCP/IP port number, hostname or IP address of the Study Router, C-Move Timeout, Query Timeout, and as well as the temporary storage for DICOM objects must be configured in Change Healthcare Workflow Intelligence Administration, General configuration for Study Move.

Configurable Parameters

Table 8: Configuration parameters

Parameter	Configurable (Yes/No)	Default value
Supported Transfer Syntax	Yes	Transfer syntax listed in Table 9: Supported Transfer Syntaxes
C-Move Time out in study move for Study Router	Yes	5 minutes

Parameter	Configurable (Yes/No)	Default value
Query Time out in study move for Study Router	Yes	60 seconds

Table 9: Supported Transfer Syntaxes

Name	UID
Little-endian Implicit VR	1.2.840.10008.1.2
Little-endian Explicit VR	1.2.840.10008.1.2.1
Big-endian Explicit VR	1.2.840.10008.1.2.2
Little-endian Explicit VR : Run-Length Encoding of pixel data	1.2.840.10008.1.2.5
Little-endian Explicit VR : Baseline JPEG encoding of pixel data	1.2.840.10008.1.2.4.50
Little-endian Explicit VR : Extended JPEG encoding of pixel data	1.2.840.10008.1.2.4.51
Little-endian Explicit VR : Lossless JPEG encoding of pixel data	1.2.840.10008.1.2.4.57
Little-endian Explicit VR : Lossless JPEG encoding of pixel data (psv=1)	1.2.840.10008.1.2.4.70
Little-endian Explicit VR : Lossless JPEG 2000 encoding of pixel data	1.2.840.10008.1.2.4.90
Little-endian Explicit VR : Lossy JPEG 2000 encoding of pixel data	1.2.840.10008.1.2.4.91

Supported Extended Character Sets

Change Healthcare Workflow Intelligence 14.2 supports the ISO-IR 100 character set. Unsupported characters received may lead to failures in data update or DICOM operations.