



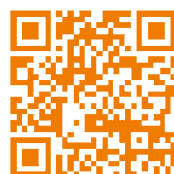
WORKLIST

DICOM WORKLIST SERVER

OPTIMIZING YOUR WORKFLOW



VERSION 2.0





CONSISTENT DATA THROUGHOUT RIS AND PACS

iQ-WORKLIST is a powerful DICOM worklist server and a must-have in every imaging center.

DICOM worklists are indispensable in a radiological environment, as they accelerate the modality workflow and ensure that typing errors are avoided. Through their use, consistent data is maintained throughout all medical imaging systems.

iQ-WORKLIST can interface with virtually any radiology, practice or hospital information system, read scheduling data, and create DICOM worklists for imaging modalities.

In addition, it can read HL7 order requests (ORM/OMG), patient update/merge messages (ADT), and also accepts BDT/GDT or structured text files as a data source.

iQ-WORKLIST can be easily installed and configured due to the included configuration presets. It is reliable and easy to maintain. For special circumstances, iQ-WORKLIST offers PACS administrators a powerful mapping tool for data conversion between various standards.

Three versions are available to meet all of your connection needs:

iQ-WORKLIST

for a maximum of 2 modalities

iQ-WORKLIST PRO

for a maximum of 10 modalities

iQ-WORKLIST PREMIUM

for an unlimited number of modalities
Also includes an ADT module for patient reconciliation support.

FULLY AUTOMATED WORKFLOW

iQ-WORKLIST can read procedure information from connected modalities, such as radiation dose, billing data, study status, series, or image data, and provide it to the feeding information system like HIS, RIS or EMR. This is possible through MPPS (Modality Performed Procedure Steps) which enables iQ-WORKLIST to accept messages for creating, modifying, and returning MPPS information.

SUPERIOR PERFORMANCE

iQ-WORKLIST 2.0 uses an SQL database which increases its performance and results in more efficient data processing. It can be employed flexibly in both small imaging centers and big hospitals. Because it processes incoming messages and simultaneous worklist queries using multi-threads, iQ-WORKLIST can also be used centrally for large multi-site projects.

COMPATIBILITY

Many information systems lack an HL7 interface. By using iQ-WORKLIST, virtually any information system can be connected using freely configurable text files.

In addition, iQ-WORKLIST provides Unicode support (UTF-8) and thus speaks all major world languages. Local character sets can be automatically converted to Unicode.

iQ-WORKLIST supports the following C-FIND Query and Retrieve tags. (A complete list can be found in the iQ-WORKLIST 2.0 DICOM Conformance Statement):

PATIENT

- Patient's Name, Patient ID, Patients Birth Date, Patient's Sex, Patient's Weight, Patient State (NEW!)
- Pregnancy Status (NEW!)
- Medical Alerts (NEW!)
- Additional Patient History
- Allergies
- Special Needs (NEW!)

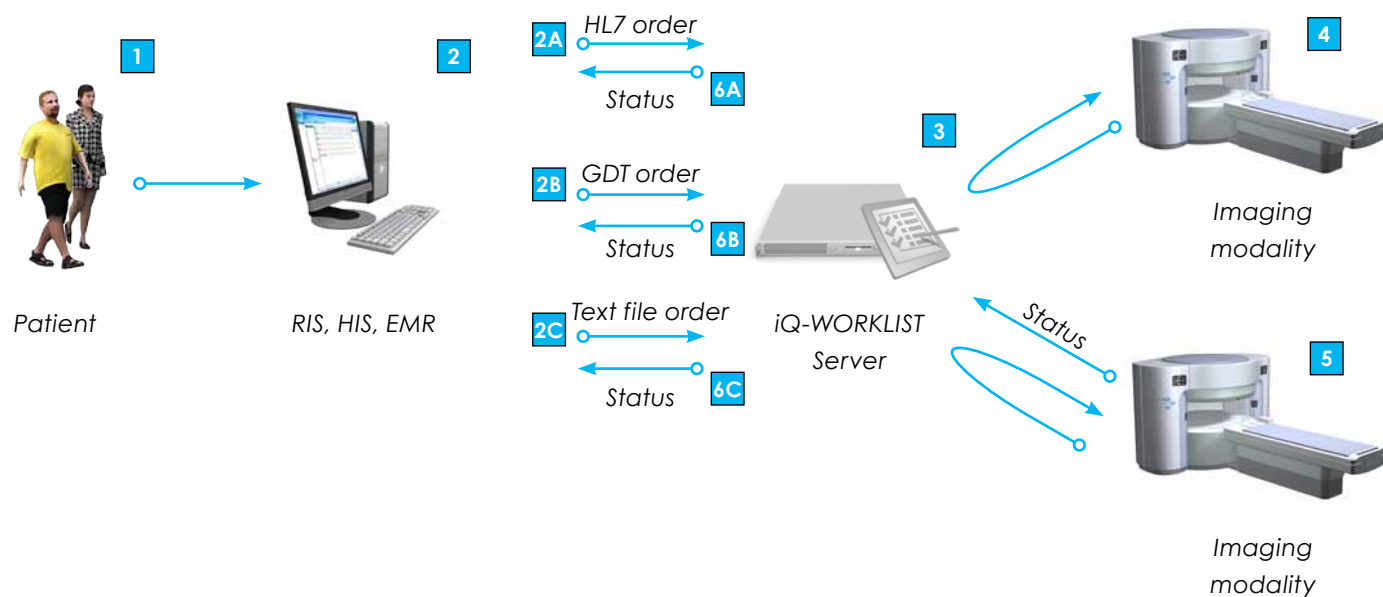
VISIT

- Admission ID (NEW!)
- Current Patient Location (NEW!)

STUDY

- Accession Number
- Requesting Physician
- Referring Physician's Name (NEW!)
- Requesting Service (NEW!)
- Requested Procedure ID, Requested Procedure Description
- Study Instance UID
- Requested Procedure Priority
- Patient Transport Arrangements (NEW!)
- Scheduled Station AE Title
- Scheduled Procedure Step Start Date and Start Time
- Modality
- Scheduled Performing Physician's Name
- Scheduled Procedure Step Description
- Scheduled Station Name
- Scheduled Procedure Step Location
- Scheduled Protocol Codes (NEW!)
- Scheduled Procedure Step ID (NEW!)

iQ-WORKLIST BASIC/PRO WORKFLOW



1 The patient is registered to a RIS, HIS, PMS, or any other medical information system (MIS).

2 The MIS sends scheduling data to the iQ-WORKLIST server.
a) as an HL7 order
b) as a GDT order
c) as a text file

3 iQ-WORKLIST collects the scheduling information in a local database and provides a DICOM worklist to any imaging modality.

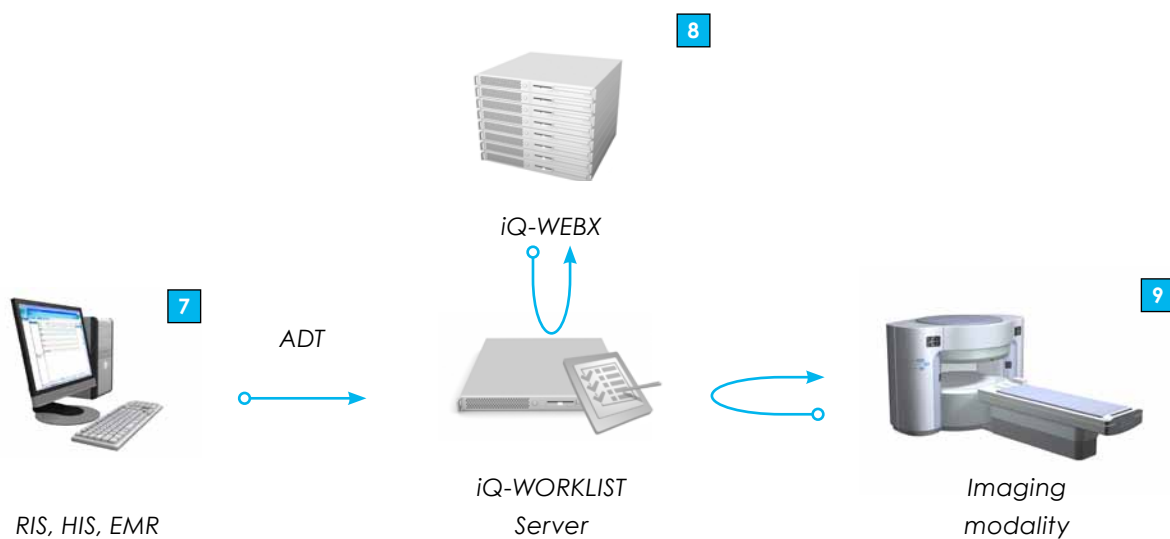
4 The imaging modalities query the worklist manually or automatically to get accurate patient and scheduling information.

5 The imaging modalities query the worklist manually or automatically and send status information back to iQ-WORKLIST.

6 iQ-WORKLIST forwards the status information to the medical information system:
a) answering the HL7 order request
b) answering the GDT order request
c) in response to the text file

iQ-WORKLIST PREMIUM WORKFLOW

IN ADDITION TO iQ-WORKLIST BASIC/PRO WORKFLOW



7 The MIS sends an ADT message to iQ-WORKLIST, e.g. in case the patient information is unknown during initial imaging.

8 iQ-WEBX queries iQ-WORKLIST in order to reconcile patient demographics after the identity of the patient is known or has changed.

9 The imaging modalities query the worklist manually or automatically to get accurate patient and scheduling information.

**THE SOLUTION
CAN BE SO SIMPLE**



iQ-WORKLIST FEATURES

GENERAL

- Runs as an NT service in the background
- Includes several logging levels and files for documentation and easy error tracking (NEW!)
- Fully automated workflow through MPPS (Modality Performed Procedure Steps) (NEW!)
- SQL database for enhanced performance and scalability (NEW!)
- Higher compatibility through Unicode support for virtually all languages, a customizable text parser, and an extended list of supported worklist search keywords (NEW!)
- Application and event acknowledgment support (NEW!)
- Message syntax dictionary (NEW!)

INPUT

- Reads HL7 order messages (ORM, **OMG**); (Refer to HL7 Conformance Statement for detailed information) (NEW!)
- Reads BDT/GDT data
- Reads study data from structured text files
- Processes multiple sources (HL7/BDT/Text) concurrently
- Compatible to HL7 2.x
- Maps files using regular expressions to adapt BDT/GDT/Text file dialects
- Maps HL7 files using message fields
- HL7 network and file message listener
- Customizable actions based on incoming messages (NEW!)
- Support of multiple orders in a single order message (NEW!)

DICOM

- Serves up to two devices (DICOM WORKLIST SCU nodes)
- DICOM worklists based on scheduling data
- Creates unique Study Instance UIDs for the querying modalities
- Accession numbers can be created based on time stamps or incremented IDs
- Compatible with any DICOM worklist client
- Supports any modality queries, e.g. by patient name, patient ID, birth date, modality, scheduled station AE title, scheduled procedure start time and date

iQ-WORKLIST PRO FEATURES

IN ADDITION TO iQ-WORKLIST FEATURES

DICOM

- Serves up to 10 devices (DICOM WORKLIST SCU nodes)

iQ-WORKLIST PREMIUM FEATURES

IN ADDITION TO iQ-WORKLIST PRO

DICOM

- Serves an unlimited number of devices (DICOM WORKLIST SCU nodes)

INPUT

- Reads HL7 ADT messages for DICOM modality worklist-based patient data reconciliation



HARDWARE & SOFTWARE REQUIREMENTS

	MINIMUM	RECOMMENDED
OS:	Windows XP Professional with SP3 (only as an upgrade for currently running iQ-WORKLIST 1.x versions) Windows 7 with SP 1, Windows 8, 8.1, 10, Professional or higher (32/64 bit) Windows Server 2008 R2, 2012, 2012 R2, Standard (64 bit)	Windows Server 2008 R2 Enterprise with SP 1 (64 bit) Windows Server 2012 R2 Standard (64 bit)
CPU:	Single Core, 2 GHz	Dual or Multi Core, 1.8 GHz or higher
RAM:	1024 MB RAM	2048 MB RAM or higher
HDD:	20 GB free hard disc space	120 GB free hard disc space
Network:	100 Mbit/s	1 Gbit/s



OUR PRODUCTS FOR YOUR IMAGING NEEDS



iQ-SYSTEM PACS

iQ-RIS

MED-TAB™

The full featured, reliable and affordable PACS

The smooth radiology information system

Superior portable image analysis