

Overview

At the core of the IQPACS system sits IQPACS ImageStore, a server application mainly intended for storing, routing and archiving the DICOM instances (images, audio recordings and text reports) received from imaging modalities or from other DICOM nodes. It handles both short and long term archive storage. This software module is also responsible for auto-routing the images based on rules pre-defined at the configuration level. When IQPACS ImageStore receives a request to store images from the imaging modality, the received image is stored in an on-line storage and image attributes are extracted and stored in the local database. All the received instances are copied from the on-line storage to the archive storage either automatically or when receiving a special request, as specified at the configuration level. Only recently received or requested instances are stored on the on-line storage for quick access. These instances may be automatically moved to archive according to user defined policies. The location for storing the DICOM instances as well as the policies for moving the instances from the on-line storage are configurable.

Operating System and Hardware Requirements

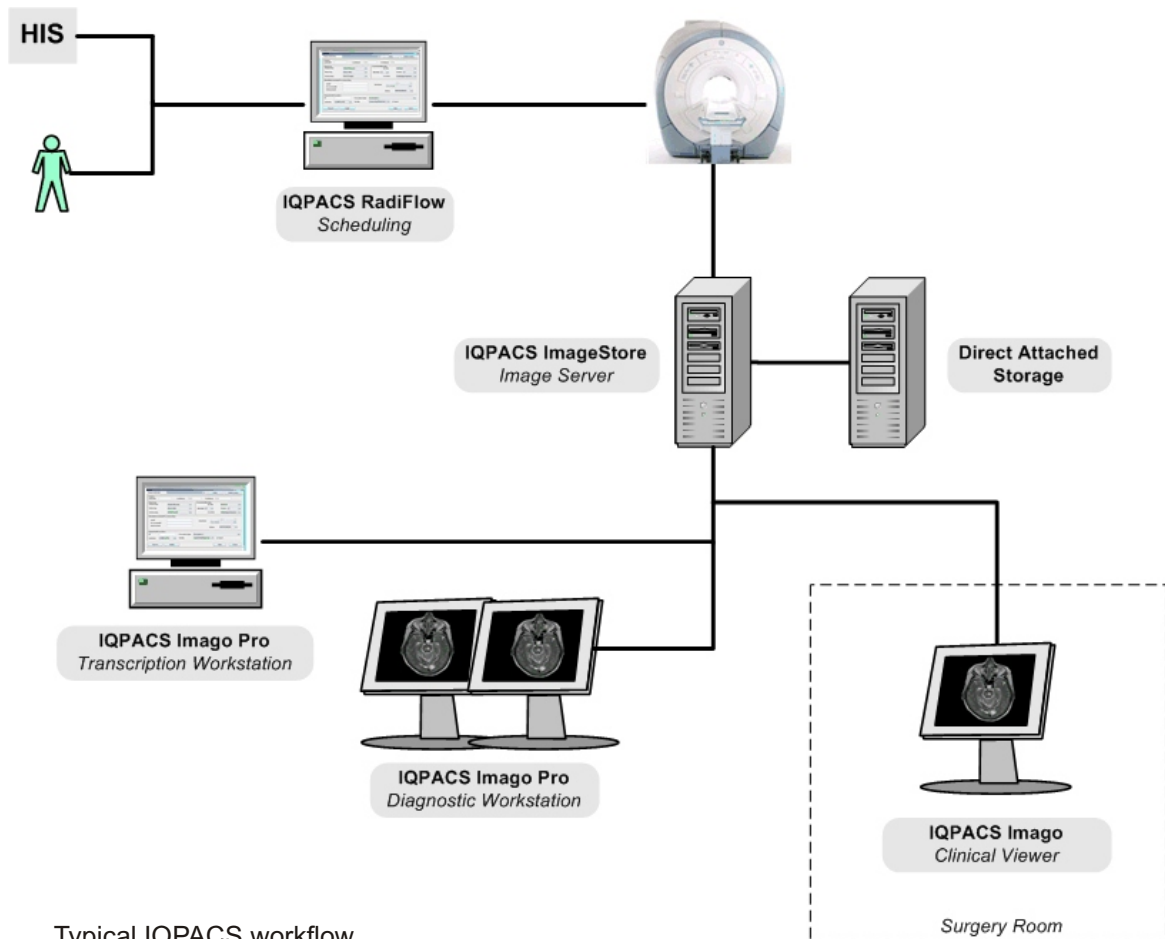
Windows 2000 Server, Microsoft SQL Server 2000
Possible hardware configuration (depends on the number of users and number of studies):
Dual Xeon CPU, 1-2 GB DDRAM, RAID Disks

DICOM Services and Configuration Options

- Verifies connection to other DICOM nodes in the network
- Receives and stores different types of images, both single frame and multi-frame: CR, CT, MR, US, SC, XA, NM, DX, MG, VL, and other
- Supports PR, SR, KO, AU, OT storage
- Stores images as they arrive, without altering them
- On-line storage (for quick access to recent studies), archive storage and offline storage (on CD/DVD or tape)
- Support for different compression types and the possibility to convert the images from the incoming format to other formats
- DICOM Query and Retrieve
- Image transfer and auto-routing capabilities
- DICOM notifications to/from RIS for the study status change
- CD/DVD burning
- DICOMDIR support - create and read DICOMDIR files
- Access to all the information from the DICOM header
- Removes studies by using automatic policies for removing: according to the status of the study (read, dictated, transcribed, approved), by study date, incoming date, completion date and others
- The automatic removal of studies can be scheduled to a specified time of the day (for less network upload)
- Imports DICOM images into the PACS system
- Reconciliation - possibility to merge patient's studies
- RIS connectivity

Other Features

- Multiple user access; password based access
- Application screen saver
- Application lock the application; autolock
- Events notification settings
- Support for different character sets
- GUI in English, Romanian and Bulgarian
- User profile settings
- Help available, users manuals and tutorials provided



Typical IQPACS workflow

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