



HIS interface for patient examination scheduling

A solution to streamline workflow between patient registration, examination scheduling and imaging modalities

ETIAM IDEal Broker is used in many different environments, from Radiology to Operating rooms, hospital-wide or connected to a single modality.

As a medical imaging connecting hub, ETIAM IDEal Broker improves workflow and accuracy. It eliminates images with no links to EHR or identifiers.

It enables imaging systems such as CT, MR, CR, ultrasound or surgical systems and cameras to receive patient demographics and examination data from scheduling applications electronically using a DICOM Worklist service.

IDEal Broker communicates using industry-standard (HL7 and DICOM) interfaces and is adjustable to other protocols and formats.

Using ETIAM IDEal Broker, system integrators can connect their DICOM imaging solutions to most database and patient systems.

Connection modules and workflow options are available to address various configurations and needs.

The comprehensive Web interface facilitates the configuration, administration and day-to-day use.

Statistics are provided to monitor workflow and to provide information on the examinations-resource ratio for each declared information system.

System Requirements

Processor: At least two 2-GHz logical cores
 RAM: 4 GB or more
 Network adapters: At least 2 adapters for network redundancy + additional ports if a physical connection to more than one network is required
 Hard drives: SAS controller supporting 2 RAID-1 hard drives
 Primary hard drive: At least 80 GB, SAS
 Secondary hard drive: At least 80 GB, SAS
 Operating system: Windows Server 2003 R2/2008 Standard Edition

Main Features

Automatically transfers patient identifiers created by existing information systems to your network as DICOM worklists.
 Returns examination statuses (converted from DICOM MPPS to HL7) to information systems.
 Handles identifier reconciliation and merges in compliance with IHE profiles.
 Receives HL7 messages (2.x formats), and is adjustable to other protocols.
 Includes a powerful, Web-based administration module and supports an unlimited number of connected devices.

Linking patient reports and images for integration into an EHR.
 Web interface for patient and examination data entry (configuration with no RIS).

DICOM Connectivity

DICOM Basic Worklist Management SCP
 DICOM Modality Performed Procedure Step SCP

Benefits

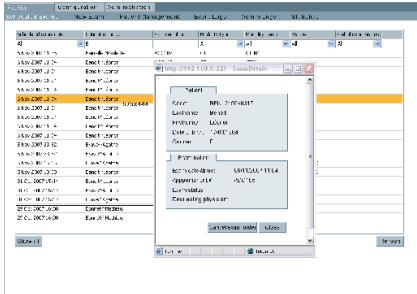
Eliminates data retyping on the modality.
 Optimizes workflow, retrieves relevant data at point of care and delivers information quickly.
 Web-based interface.
 Ideal Broker is scalable to address various needs with an affordable solution.

Usage Scenarios

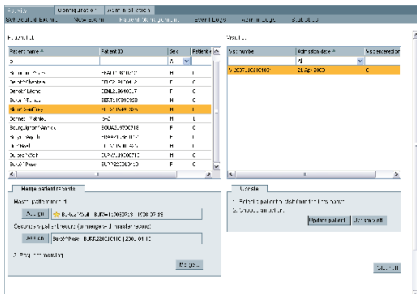
Implementation of a worklist link in a non-radiology department (ophthalmology, endoscopy, surgery...) or in a radiology department when there is no RIS.
 Implementation of an image server in a single department or across the institution, requiring central management of patient identifiers.

A Scalable Solution

From a simple worklist connection to a IHE-oriented project in conformance with the SWF and PIR integration profiles.



Scheduled examinations with details.



Patient management with update and merge features.

Base	
Application Engine, Database, Web Administration, Worklist Support	

Modules de communication (1 au minimum)	
Manual Input Module	New patient registration and examination scheduling through a Web interface
HL7 Module	HL7 message management (send/receive/route)
Other Structured Text Module	Structured text message management for formats other than HL7
Custom Module	Specific interface (database query...)
HPRIM Module	Module (French standard): HPRIM message management

Workflow Options	
Patient Updates	Update or merging of patient data (HL7 or HPRIM messages) originating from the IS
Examination Progress	Examination statuses received from modalities (MPPS) + transferred to HIS (HL7)
PACS Integration	Examinations synchronized with PACS (received, or created on the Web) + patient and examination updates transferred to PACS
Automated Worklist	In combination with the HL7 module: Creation of worklist entries on the fly

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