

# CharruaSoft S.A.

## User Manual

Worklist Server User Manual\_en

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## User Manual

## Worklist Server

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## 1. Introduction

This application is a standalone **Worklist Server**, integrating scheduled studies with medical imaging equipment. A Worklist Server eliminates manual entry errors, speeding up study completion.

Scheduled studies can be sent by HL7 ORM commands or using HTTP protocol Post/Get calls. Multiple modalities can be connected, querying simultaneously the worklist server.

The list can be updated continuously, deleting completed studies, using a MPPS simulation mode.

## 2. Computer Platform

- Windows 7, Windows 8 or Windows 10, (32 or 64 bits)
- Intel i3, i5 or i7 processor.
- 4 GBytes RAM.
- 300 GBytes HDD.

## 3. Software installation

### Software installation:

1. Download the Installer from <http://charruasoft.com/products/wls/index.php>
2. Unzip the ZIP file downloaded.
3. Run WLS\_install.exe
4. Follow the Wizard to correctly install the software.

**Note:** It is suggested to install the Software in the path recommended in the installation Wizard (C:\CharruaSoft).

## 4. Worklist Server Functionality

### 4.1 Main Window

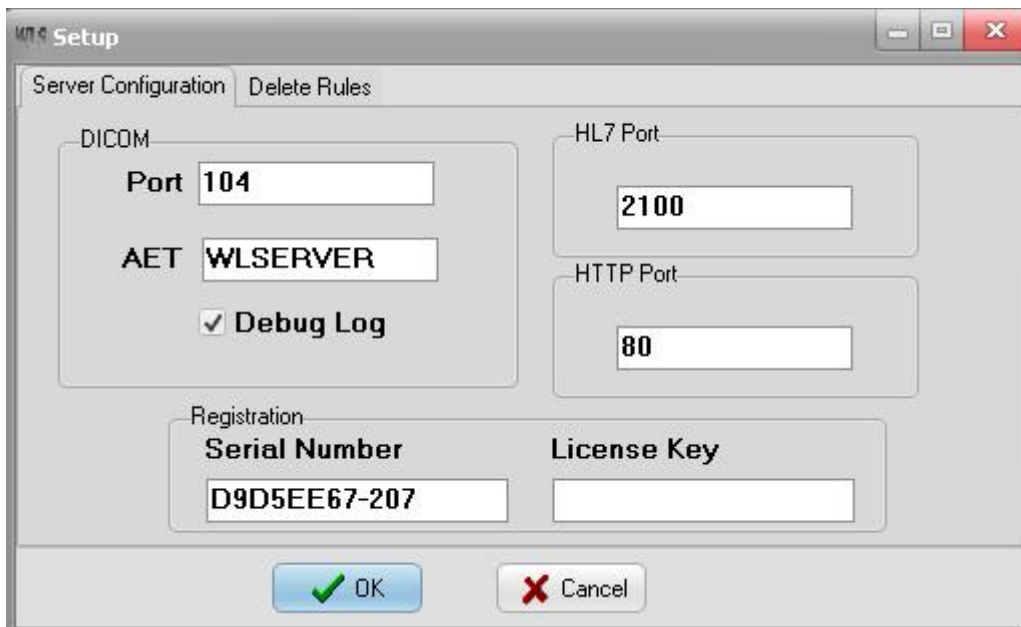


*Figure 1. Main Window*

After the installation is completed, the main window will appear. You must go to the Setup tab to configure the Worklist Server.

## 4.2 Setup

### 4.2.1 Server Configuration



*Figure 2. Server Configuration Window*

The HL7 Listener uses HL7 Port.

The HTTP Port is for the WEB server. The WEB server is for configuration and for adding or querying the Worklist database.

The DICOM Worklist Server configuration needs the AET and Port number.

## 4.2.2 Discontinued and Completed Rules

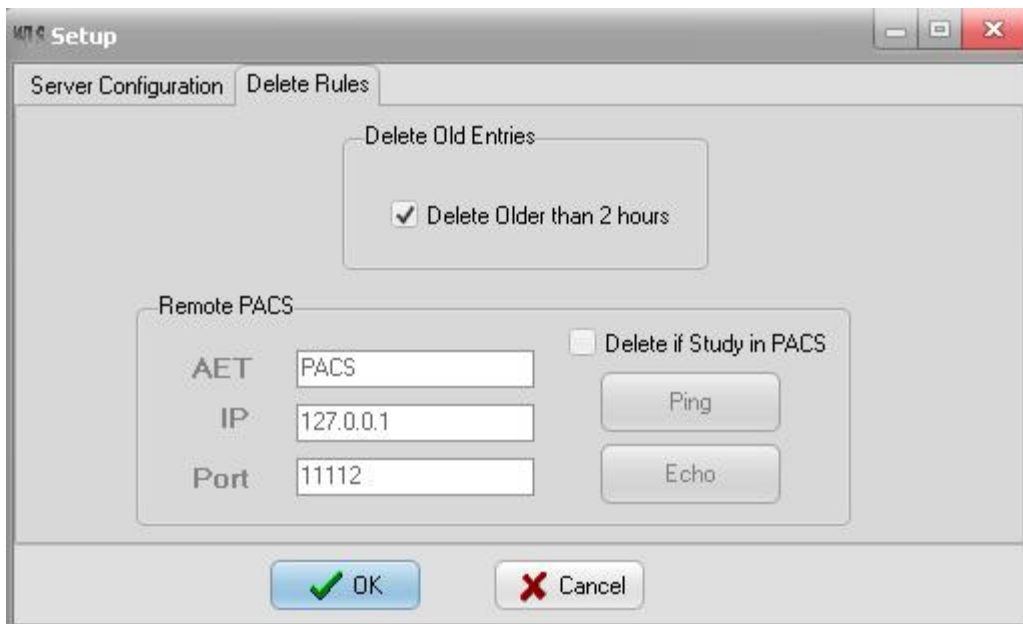
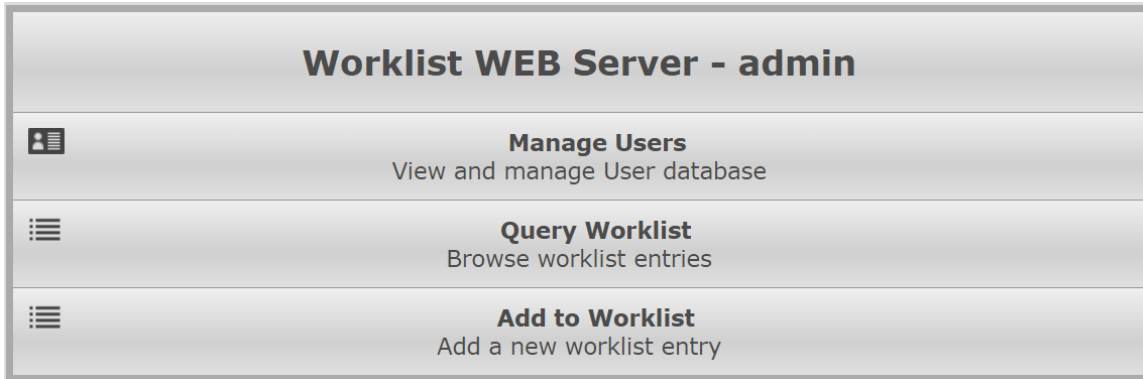


Figure 2. Delete Rules

Remote PACS configuration information (AET, IP Address and Port number), are needed in case of using the MPPS simulation. This will delete worklist entries once the study images arrive at the PACS system.

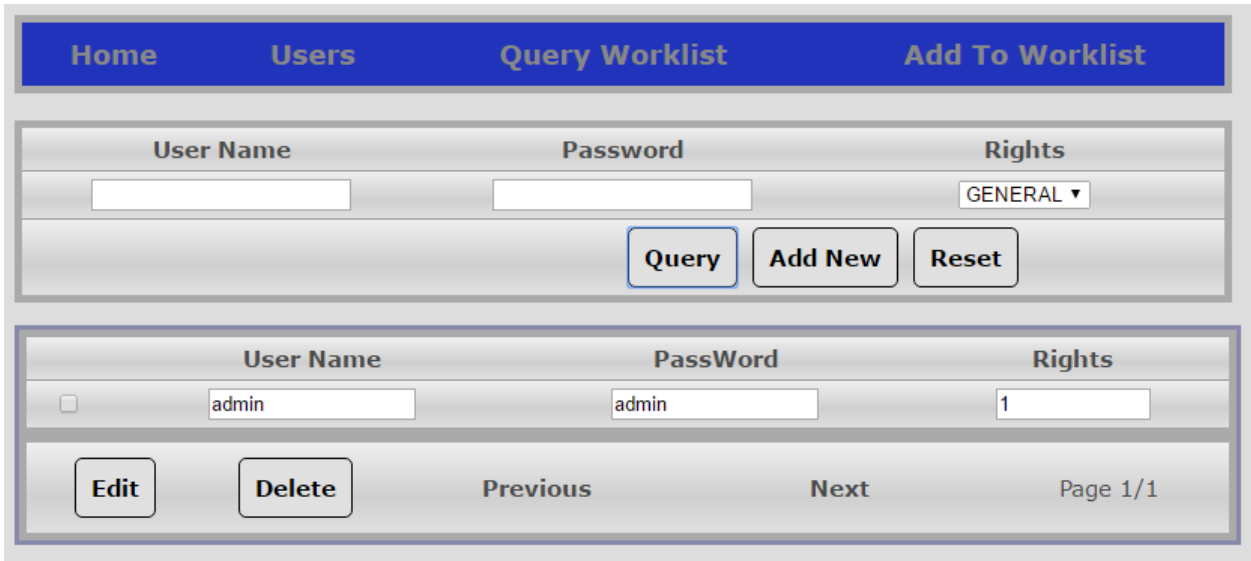
The other option for automatically deleting the entries is selecting the “Delete Older than 2 hours” checkbox.

## 4.3 WEB Interface



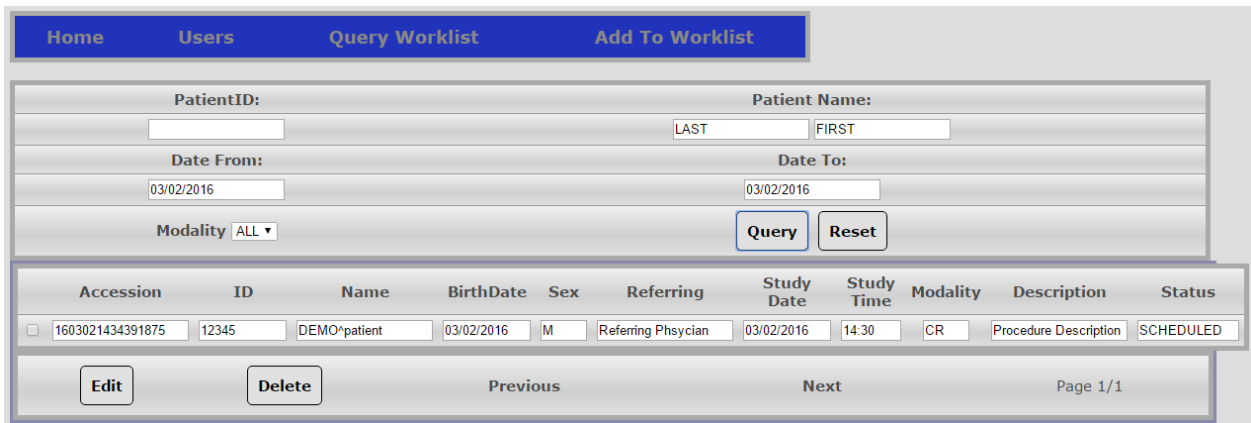
This is the administrative view, it features:

- User management; add, query, modify or delete users.
- Query Worklist: query, modify or delete Worklist Entries.
- Add to Worklist: add new entries into the Worklist.



The screenshot shows the 'User Management' interface. At the top, there is a navigation bar with 'Home', 'Users', 'Query Worklist', and 'Add To Worklist'. Below this is a form with three input fields: 'User Name', 'Password', and 'Rights' (with a dropdown menu set to 'GENERAL'). There are three buttons: 'Query', 'Add New', and 'Reset'. Below the form is a table with one row containing a checkbox, 'admin', 'admin', and '1'. At the bottom, there are 'Edit' and 'Delete' buttons, 'Previous' and 'Next' navigation links, and 'Page 1/1'.

User Management



The screenshot shows the 'Query Worklist' interface. At the top, there is a navigation bar with 'Home', 'Users', 'Query Worklist', and 'Add To Worklist'. Below this is a form with several input fields: 'PatientID:', 'Patient Name:' (with 'LAST' and 'FIRST' sub-fields), 'Date From:', 'Date To:', and 'Modality' (with a dropdown menu set to 'ALL'). There are 'Query' and 'Reset' buttons. Below the form is a table with columns: 'Accession', 'ID', 'Name', 'BirthDate', 'Sex', 'Referring', 'Study Date', 'Study Time', 'Modality', 'Description', and 'Status'. The table contains one row with data: '1603021434391875', '12345', 'DEMO\*patient', '03/02/2016', 'M', 'Referring Physician', '03/02/2016', '14:30', 'CR', 'Procedure Description', and 'SCHEDULED'. At the bottom, there are 'Edit' and 'Delete' buttons, 'Previous' and 'Next' navigation links, and 'Page 1/1'.

- Query Worklist; filter the worklist and list scheduled studies.



Home	Users	Query Worklist	Add To Worklist
Patient ID:	<input type="text"/>		
Patient Name:	LAST <input type="text"/>	FIRST <input type="text"/>	
Patient BirthDate:	<input type="text" value="03/02/2016"/>		
Patient Sex:	Male ▾		
Modality	CR ▾		
Referring Pysician:	<input type="text"/>		
Procedure Description:	<input type="text"/>		
Start Date	<input type="text" value="03/02/2016"/>		
Start Time	14 ▾ 30 ▾		
Status	SCHEDULED ▾		
<input type="button" value="Submit"/>		<input type="button" value="Reset"/>	

- Add to Worklist, add a new study to the list.

General users only can query or add to the Worklist.

## 8. Document Change History

Document Version	Date	Changed performed by	Change description
1.0	1/3/2017	Rafael Sanguinetti	Document Creation
1.1	02/03/2016	Rafael Sanguinetti	Small updates were made.
1.2	28/11/2019	Rafael Sanguinetti	The chapters referring physicians and procedure description data base were removed