

This document describes how to install the DICOM worklist environment on the SCINTRON 7. All configuration of the DICOM worklist for NM or PT data are the same on the SCINTRON PC. To set the NM or PT modality the configuration is performed on the SCINTRON PPC.

Install the DICOM Worklist Programs

DICOM worklist programs are installed as background task on the SCINTRON system. The DICOM worklist router program dcmwlroutrsv installed on the SCINTRON PC manages worklist queries to one or more RIS/HIS server in a time period configured by the DICOMManager program.

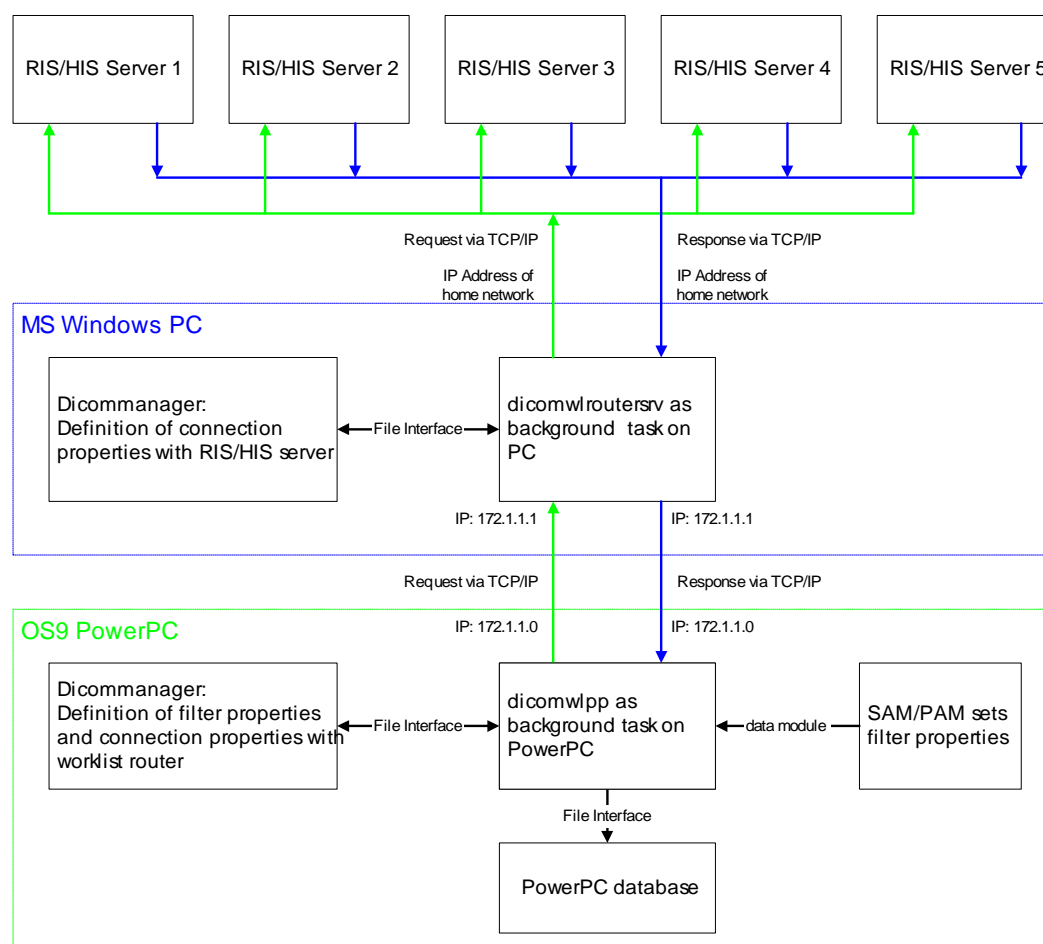
The worklist program dicomwlpp installed on the SCINTRON PPC acquisition system communicates with the worklist router program dcmwlroutrsv installed as background task on the SCINTRON PC.

The Filter and the connection properties are configured by the DICOMManager program.

The connection properties from worklist router to the RIS/HIS server are configured by the DICOMManager program on the SCINTRON PC.

The connection properties to the worklist router and filter properties for worklist queries are configured by the DICOMManager program on the SCINTRON PPC acquisition system.

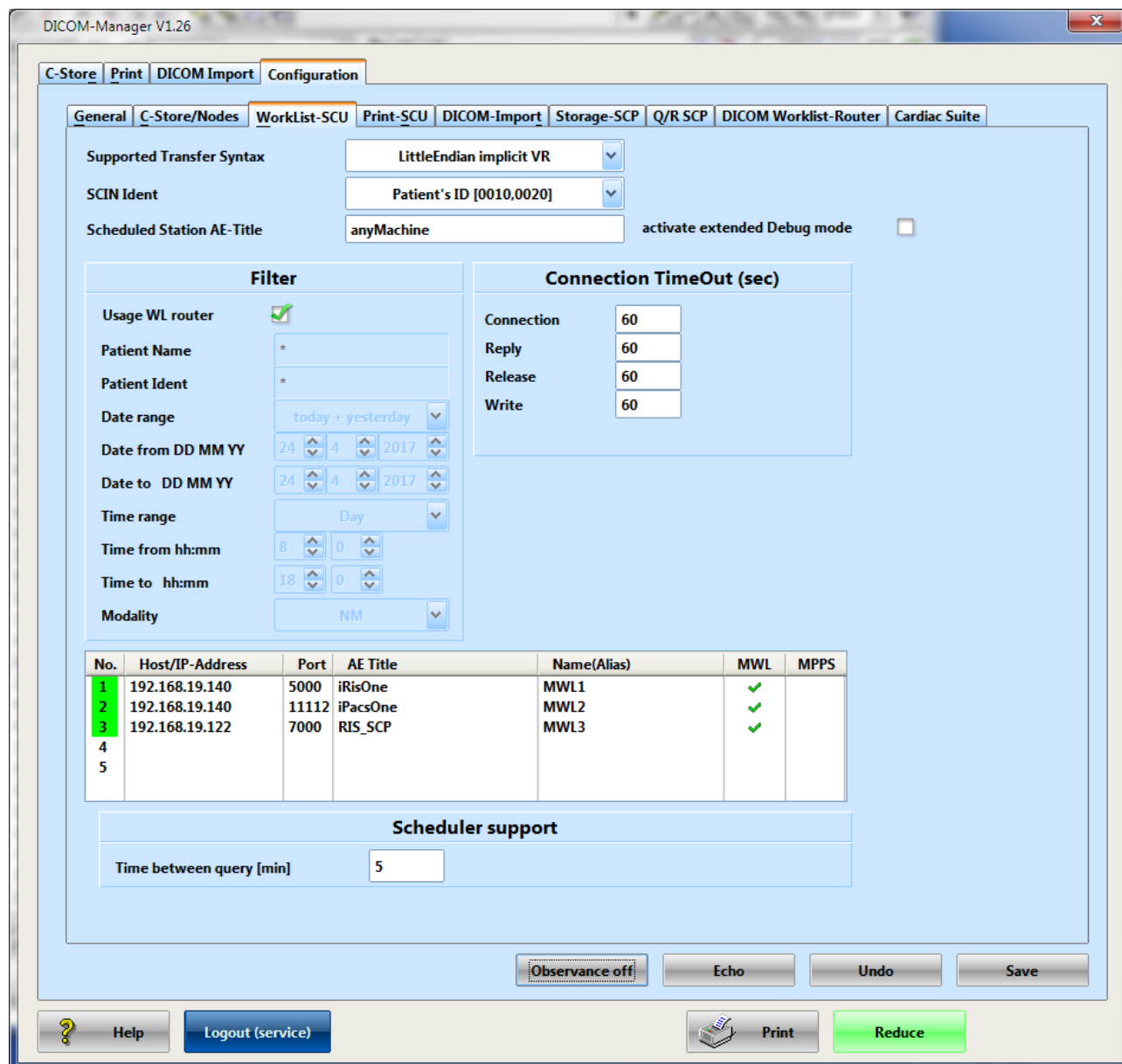
The SCINTRON acquisition module SAM/PAM can initiate a manual worklist at any time. The data transfer is done via a TCP/IP connection.



Data transfer between SCINTRON PC, PPC acquisition system, and RIS/HIS server.

Configuration of DICOM WorkList-SCU on the SCINTRON PC

The connection properties from the worklist router to the RIS/HIS server have to be defined in the DICOMManager on the page Configuration -> WorkList-SCU on the SCINTRON PC.



The screenshot shows the DICOM-Manager V1.26 Configuration window, specifically the WorkList-SCU tab. The window is divided into several sections:

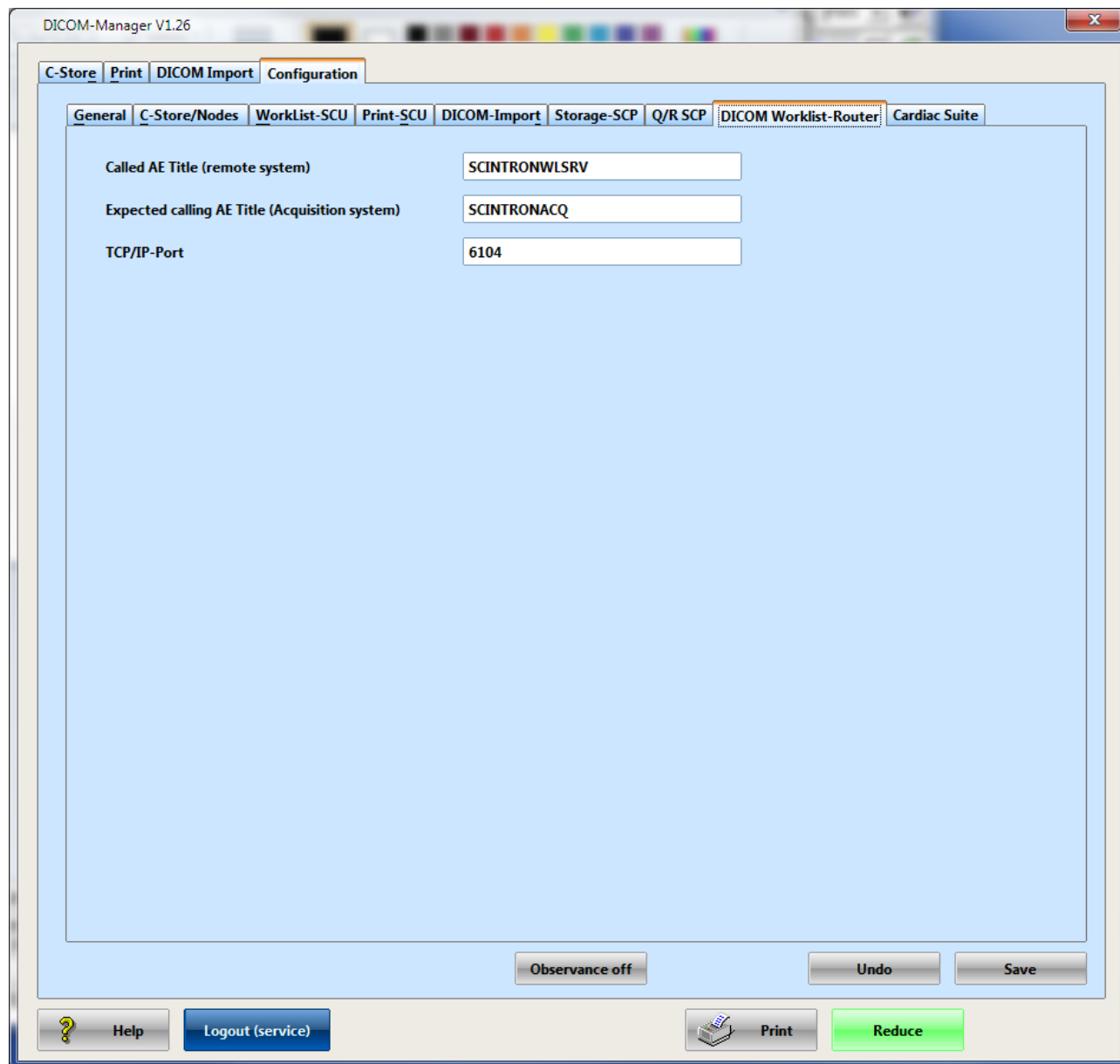
- General Settings:**
 - Supported Transfer Syntax: LittleEndian implicit VR
 - SCIN Ident: Patient's ID [0010,0020]
 - Scheduled Station AE-Title: anyMachine
 - activate extended Debug mode: ☐
- Filter:**
 - Usage WL router: ☒
 - Patient Name: *
 - Patient Ident: *
 - Date range: today + yesterday
 - Date from DD MM YY: 24 / 4 / 2017
 - Date to DD MM YY: 24 / 4 / 2017
 - Time range: Day
 - Time from hh:mm: 8 / 0
 - Time to hh:mm: 18 / 0
 - Modality: NM
- Connection TimeOut (sec):**
 - Connection: 60
 - Reply: 60
 - Release: 60
 - Write: 60
- Table of Configured Worklist Nodes:**

No.	Host/IP-Address	Port	AE Title	Name(Alias)	MWL	MPPS
1	192.168.19.140	5000	iRisOne	MWL1	✓	
2	192.168.19.140	11112	iPacsOne	MWL2	✓	
3	192.168.19.122	7000	RIS_SCP	MWL3	✓	
4						
5						
- Scheduler support:**
 - Time between query [min]: 5
- Buttons:**
 - Observance off
 - Echo
 - Undo
 - Save
 - Help
 - Logout (service)
 - Print
 - Reduce

The specific parameters filter properties (name , identification, date range and time range) and connection properties (host name, TCP/IP port and AE title) of a DICOM worklist node must be determined by the administrator of the RIS/HIS system and can be entered in the input dialog above by clicking into the corresponding table column using the keyboard. The user should enter for the node name an appropriate name because this name appears in the list of DICOM worklist nodes and not the AE title. A maximum number of five worklist nodes can be configured.

Configuration of DICOM Worklist Router on the SCINTRON PC

The configuration page for the DICOM worklist router is only shown in PC version of the DICOMManager program.



DICOM-Manager V1.26

Configuration

General C-Store/Nodes WorkList-SCU Print-SCU DICOM-Import Storage-SCP Q/R SCP **DICOM Worklist-Router** Cardiac Suite

Called AE Title (remote system) SCINTRONWLSRV

Expected calling AE Title (Acquisition system) SCINTRONACQ

TCP/IP-Port 6104

Observance off Undo Save

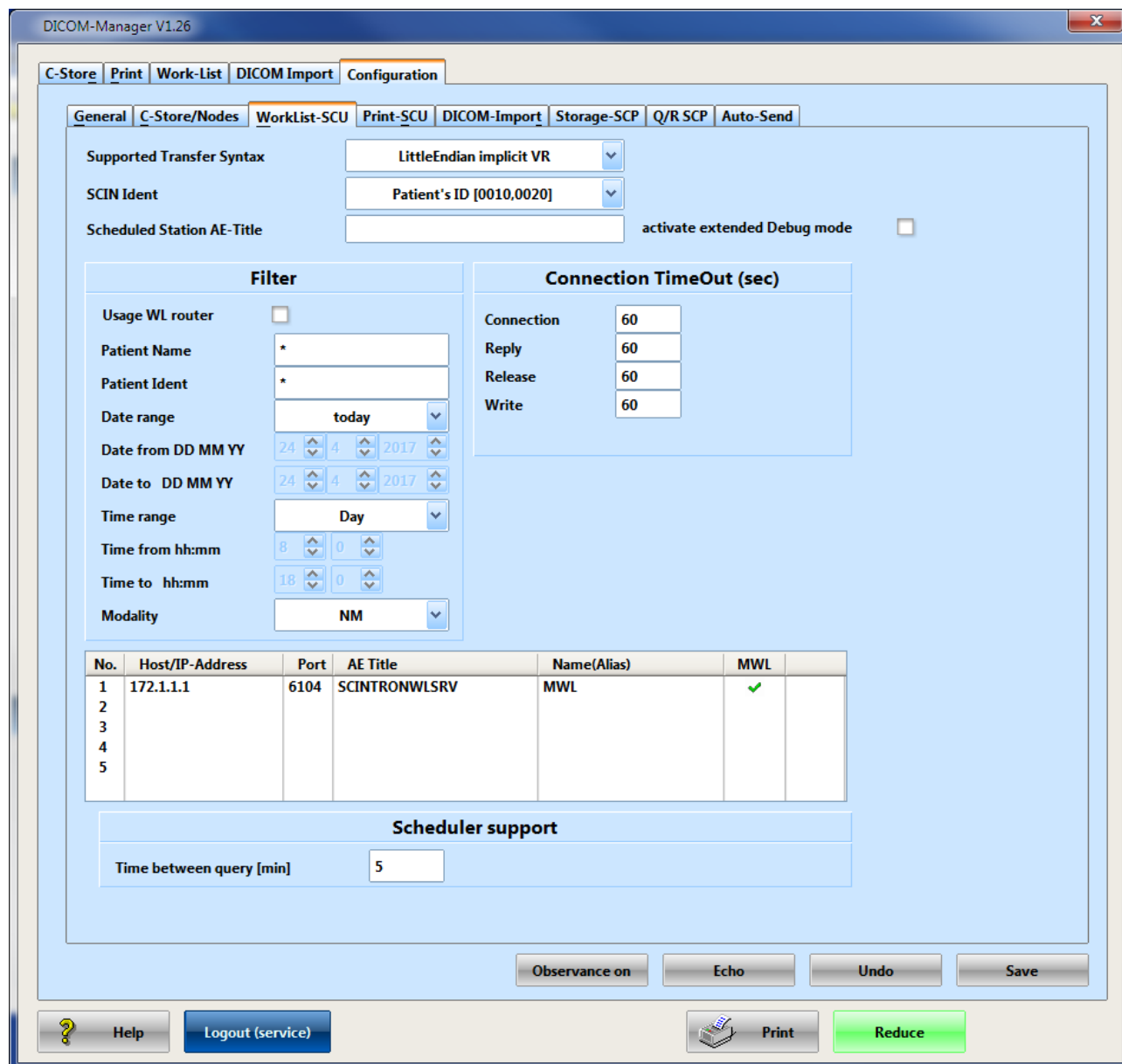
Help Logout (service) Print Reduce

The AE title of the worklist router, the AE title of the calling system (SCINTRON PPC acquisition system) and the TCP/IP port have to be entered.

The AE title of the worklist router and TCP/IP port are configured in the worklist configuration of the PPC acquisition system as worklist node.

Configuration of DICOM WorkList-SCU on the SCINTRON PPC for NM worklist data

The connection properties from SCINTRON PPC to worklist router have to be defined in the DICOMManager on the page Configuration -> WorkList-SCU on the SCINTRON PPC.



The screenshot shows the DICOM-Manager V1.26 Configuration window, specifically the WorkList-SCU tab. The window is divided into several sections:

- General Settings:**
 - Supported Transfer Syntax: LittleEndian implicit VR
 - SCIN Ident: Patient's ID [0010,0020]
 - Scheduled Station AE-Title: (empty)
 - activate extended Debug mode: ☐
- Filter:**
 - Usage WL router: ☐
 - Patient Name: *
 - Patient Ident: *
 - Date range: today
 - Date from DD MM YY: 24 / 4 / 2017
 - Date to DD MM YY: 24 / 4 / 2017
 - Time range: Day
 - Time from hh:mm: 8 / 0
 - Time to hh:mm: 18 / 0
 - Modality: NM
- Connection TimeOut (sec):**
 - Connection: 60
 - Reply: 60
 - Release: 60
 - Write: 60
- Table:**

No.	Host/IP-Address	Port	AE Title	Name(Alias)	MWL
1	172.1.1.1	6104	SCINTRONWLSRV	MWL	✓
2					
3					
4					
5					
- Scheduler support:**
 - Time between query [min]: 5

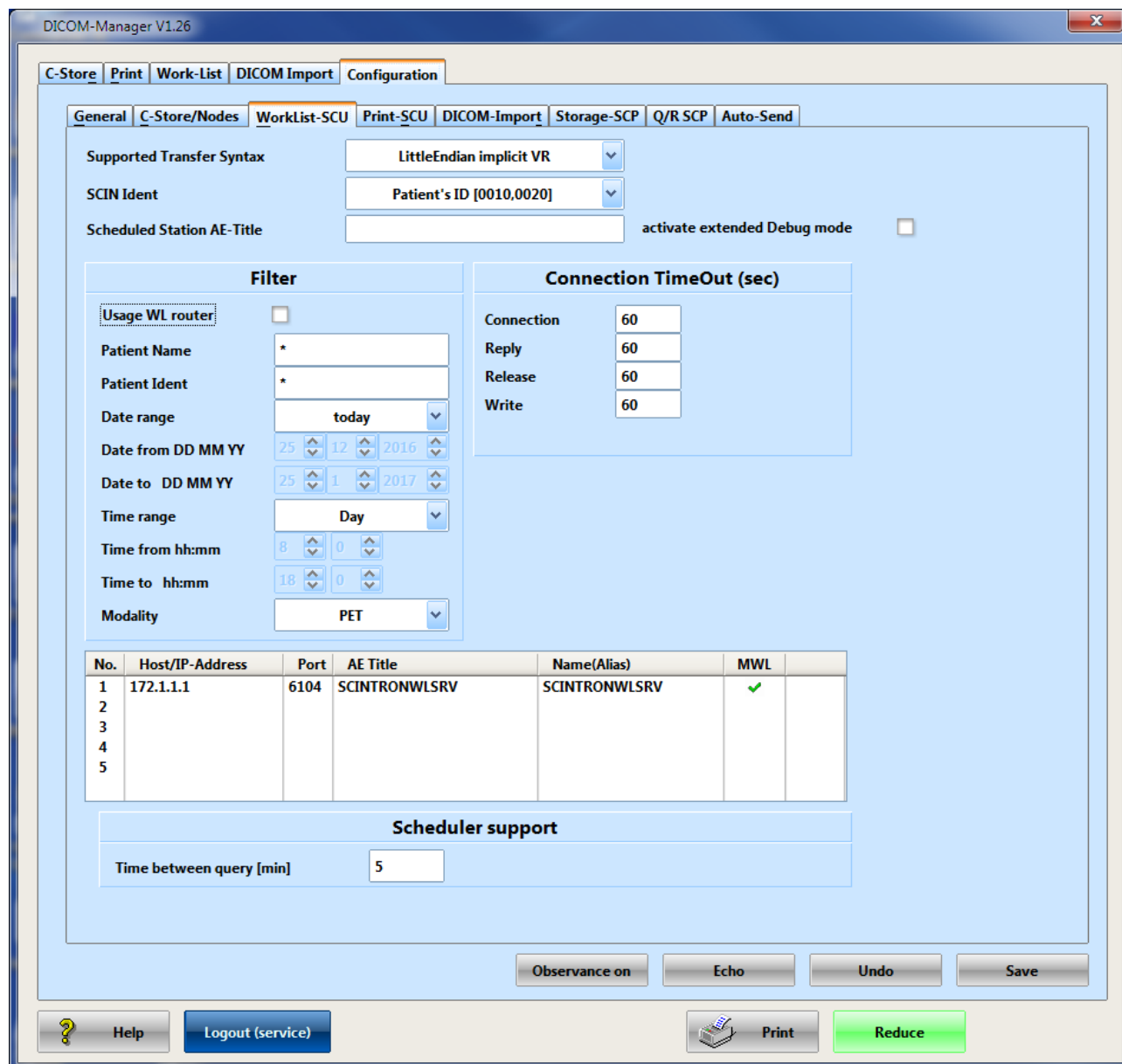
At the bottom of the window, there are buttons for "Observance on", "Echo", "Undo", "Save", "Help", "Logout (service)", "Print", and "Reduce".

The filter properties for worklist query and the connection properties to the worklist router program, running on the SCINTRON PC, are defined here.

The user starts the DICOMManager with the option -nt to enable the selection of the modality and set the modality to NM to query the NM worklist data. The program dicomwlp on the SCINTRON PPC should be started without option to query the NM worklist data. No option should be entered in the PPC desktopfile.

Configuration of DICOM WorkList-SCU on the SCINTRON PPC for PT worklist data

The connection properties from SCINTRON PPC to worklist router have to be defined in the DICOMManager on the page Configuration -> WorkList-SCU on the SCINTRON PPC.



The screenshot shows the DICOM-Manager V1.26 Configuration window, specifically the WorkList-SCU tab. The window is divided into several sections:

- General Settings:**
 - Supported Transfer Syntax: LittleEndian implicit VR
 - SCIN Ident: Patient's ID [0010,0020]
 - Scheduled Station AE-Title: (empty)
 - activate extended Debug mode: ☐
- Filter:**
 - Usage WL router: ☐
 - Patient Name: *
 - Patient Ident: *
 - Date range: today
 - Date from DD MM YY: 25 12 2016
 - Date to DD MM YY: 25 1 2017
 - Time range: Day
 - Time from hh:mm: 8 0
 - Time to hh:mm: 18 0
 - Modality: PET
- Connection TimeOut (sec):**
 - Connection: 60
 - Reply: 60
 - Release: 60
 - Write: 60
- Table:**

No.	Host/IP-Address	Port	AE Title	Name(Alias)	MWL
1	172.1.1.1	6104	SCINTRONWLSRV	SCINTRONWLSRV	✓
2					
3					
4					
5					
- Scheduler support:**
 - Time between query [min]: 5

At the bottom of the window, there are buttons for "Observance on", "Echo", "Undo", "Save", "Help", "Logout (service)", "Print", and "Reduce".

The filter properties for worklist query and the connection properties to the worklist router program, running on the SCINTRON PC, are defined here.

The user starts the DICOMManager with the option -nt to enable the selection of the modality and set the modality to PET to query the PT worklist data. The program dicomwllpp on the SCINTRON PPC should be started with the option -nt to query the PT worklist data. The option should be entered in the PPC desktopfile.