

## **MESA Software**

# **MESA RIS Mall User's Guide**

Electronic Radiology Laboratory  
Mallinckrodt Institute of Radiology  
510 South Kingshighway Blvd.  
St. Louis, MO 63110  
314.362.6965 (Voice)  
314.362.6971 (Fax)

January 10, 2007

Copyright © 2003: Washington University

## Contents

1	Introduction.....	4
1.1	General site overview .....	4
2	What is RIS Mall? .....	5
2.1	User Login.....	5
2.2	Destination Configuration .....	5
2.3	Creating, sending and re-sending messages .....	5
2.4	Debugging flags.....	5
2.5	Logging.....	5
3	Acquisition Modality Customers.....	6
3.1	New Patient: Create Patient, and Visit .....	6
3.2	Existing Patient: Create Visit, Order .....	7
3.3	Existing Patient, and Order: Send/Cancel Order .....	7
3.4	Existing Patient, and Visit: Send ADT.....	7
3.5	Existing Patient, Visit, and Order: Send ADT and ORM to DSS (MESA/Vendor) .....	7
3.6	Existing Patient, Visit, and Order: Send ORM and schedule MWL on MESA system...	8
4	Image Manager Customers .....	9
4.1	Existing Patient, Visit, Order, and SPS: Send a scheduling Message.....	9
4.2	New Patient: Create Patient, and Visit .....	9
4.3	Existing Patient: Create Order.....	10
4.4	Existing Patient: Send ADT .....	10
4.5	Existing Patient, Visit, and Order: Send ADT and ORM to DSS (MESA/Vendor) .....	10
4.6	Existing Patient, Visit, and Order: Schedule MWL .....	10
4.7	Send A08 (Rename Message) .....	11
4.8	Send A40 (Merge Message) .....	11
5	Order Filler Customers .....	12
5.1	Existing Order: Send existing order from database.....	12
5.2	Existing Visit, new Order: Create and Send/Cancel Order .....	12
5.3	Existing Visit: Send A01, A04 (Admit/Registration Message).....	13
5.4	Existing Visit: Send A03 (Discharge Message) .....	13
5.5	Existing Patient: Send A08 (Rename Message).....	13
5.6	Existing Patient: Send A40 (Merge Message).....	14
5.7	Existing Patient: Create Visit .....	14
5.8	New Patient: Create Patient.....	14
6	Order Placer Customers .....	15
6.1	Existing Visit: Send A01, A04 (Admit/Registration Message).....	15
6.2	Existing Visit: Send A03 (Discharge Message) .....	15
6.3	Existing Patient: Send A08 (Rename Message).....	16
6.4	Existing Patient: Send A40 (Merge Message).....	16
6.5	Existing Patient: Create Visit .....	16
6.6	New Patient: Create Patient.....	17
7	Patient Demographics Consumer .....	18
7.1	New Patient: Create Patient.....	18
7.2	Existing Patient: Send ITI-8-A04 message .....	18

8	Unspecified menu option .....	19
	Screen shots	
	Order Filler Customers: Get an order to Order Filler .....	20
	Modality Customers: Retrieve Modality Worklist .....	23

## 1 Introduction

The Mesa RIS Mall is a web-based application designed to simulate the functionality of the following five components: Acquisition Modality, Image/Report Manager, Order Filler, Order Placer and Patient Demographics Consumer.

The MESA RIS Mall is available for testing on the Internet prior to the Connectathon, and during the Connectathon. The URLs where the RIS Mall may be found are detailed below:

<b>MESA RIS Mall URL</b>	
<b>Internet test</b>	<a href="http://ihe.wustl.edu/ris_mall">http://ihe.wustl.edu/ris_mall</a>
<b>Connectathon</b>	<a href="http://ihe/ris_mall">http://ihe/ris_mall</a>

This document describes the functionality of the MESA RIS Mall. It illustrates how different classes of users can interface with the MESA RIS Mall for testing purposes. The use of the MESA RIS Mall will be described in detail for the following users:

- Acquisition Modality Customers
- Image Managers
- Order Filler Customers
- Order Placer Customers
- Patient Demographics Consumer

### 1.1 General site overview

For easy navigation through the RIS Mall site use the hyperlinks on the top navigation.

- Clicking on RIS Mall link on the top navigation bar will take the users to RIS Mall home page where the users can pick appropriate component.
- When the users are on any action page, the top navigation will have relevant component link along with appropriate action title.
- Clicking on the component link will take the users to component's control page from where the users can choose action relevant to that component.

## **2 What is RIS Mall?**

The MESA RIS Mall is a web based application which provides communication peers for certain IHE Radiology actors. Any browser may be used to interface with the MESA RIS Mall. During the course of testing, the RIS Mall will produce various HL7 messages which may be sent to other RIS Mall components or to other predefined destinations.

### **2.1 User Login**

Users need to login to the MESA RIS Mall using a valid company name. No password is necessary. The company login names are listed separately.

### **2.2 Destination Configuration**

Valid destinations for various HL7 messages are defined individually for the five MESA RIS Mall components: Acquisition Modality, Image Manager, Order Placer, Order Filler and Patient Demographics Consumer. Any valid destination capable of receiving such messages may be placed in the destination list. You must contact an administrator to place new entries in the destination tables.

### **2.3 Creating, sending and re-sending messages**

Since the primary purpose of the MESA RIS Mall is for testing, sending a message generally takes place in two steps: first the message data is created, and then it is sent. Furthermore, once a message is sent, it may be resent any arbitrary number of times.

For instance, sending a registration message is a three-step process. First, a patient entry is created, and then a visit entry is constructed. These write to an internal database and do not send any messages. Finally, a registration message may be sent for a selected visit. After this message is created, it may be resent again as necessary.

### **2.4 Debugging flags**

All actions in the MESA RIS Mall have a “Debug” checkbox. Selecting this option before performing the action will result in verbose output of all the steps performed by the action. This is useful in tracking down errors.

Certain actions (merge, rename) also have a “Do not update Database” checkbox. Since these actions permanently alter database entries, selecting the “no update” option allows the actions to be performed repeatedly without having to create new patients.

### **2.5 Logging**

All user actions are logged internally. These logs keep track of the data involved with each action and may be accessed by an administrator.

### 3 Acquisition Modality Customers

After logging in and choosing Acquisition Modality on the components page, the main screen of the MESA RIS Mall lists 7 different actions possible for an Acquisition Modality customer.

Once the Modality Worklist entries are created, an acquisition modality may access them by performing CFind queries against the MESA RIS Mall Modality Worklist SCP. The following table defines the parameters necessary in connecting to the SCP.

<b>MESA RIS Mall Modality Worklist SCP Information</b>	
Hostname (Internet test)	ihe.wustl.edu
Hostname (Connectathon)	ihe
IP (Connectathon)	
Port	4250
AE Title	MESA_MWL

These are:

- New Patient: Create Patient, and Visit
- Existing Patient: Create Visit, Order.
- Existing Patient, and Order: Send/Cancel Order.
- Existing Patient, and Visit: Send ADT.
- Existing Patient, Visit, and Order: Send ADT and ORM to DSS (MESA/Vendor).
- Existing Patient, Visit, and Order: Send ORM and schedule MWL on MESA system.

#### 3.1 New Patient: Create Patient, and Visit

On the Create Patient page, certain fields need to be filled in, and others have automatic values. The Patient entry will be created in the internal database when the Create button is pressed, and the success or failure of the action will be indicated. Upon completion on create Patient; user can click on the link on the “success” page to create a Visit.

On the Create Visit page, the user can pick on any existing patient entry from the drop-down list or search for patients based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click

on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Create” button to create a Patient Visit.

### **3.2 Existing Patient: Create Visit, Order**

On the Create Order page, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Create” button to create an Order.

### **3.3 Existing Patient, and Order: Send/Cancel Order**

On the Send/Cancel Order page, the user can pick on any existing order record entry from the drop-down list or search for order records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Send Message” button to send an Order and “Cancel Order” button to cancel an order.

### **3.4 Existing Patient, and Visit: Send ADT**

To send Admit/Registration message for existing patient, and visit, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Send Message” button to send Admit/Registration message.

### **3.5 Existing Patient, Visit, and Order: Send ADT and ORM to DSS (MESA/Vendor)**

To send Admit/Registration message for existing patient, visit, and order, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Send Message” button to send Admit/Registration message.

On the send ADT success page, the user needs to click on the link to send ORM to DSS and follow similar steps above to send ORM to DSS.

### **3.6 Existing Patient, Visit, and Order: Send ORM and schedule MWL on MESA system**

To send ORM for existing patient, visit, and order, the user can pick on any existing order record entry from the drop-down list or search for order records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Send Message" button to send an ORM.

On the send ORM success page, the user needs to click on the link to schedule a MWL. To schedule a MWL for existing patient, visit, and order, the user can pick on any existing requested procedure entry from the drop-down list or search for procedure records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Create" button to schedule a MWL.

Upon completion of successfully scheduling a requested procedure, the user has an option to go back to Acquisition Modality test control page or to send a scheduling message to an Image Manager. If the user decides to send a scheduling message to an Image Manager, the user needs to complete various fields on the Send a Scheduling Message page and click on the "Send Message" button to send a scheduling message.



## **4 Image Manager Customers**

After logging in and choosing Image Manager on the components page, the main screen of the MESA RIS Mall lists 8 different actions possible for an Image Manager customer.

These are:

- Existing Patient, Visit, Order, and SPS: Send a scheduling Message.
- New Patient: Create Patient, and Visit
- Existing Patient: Create Order.
- Existing Patient: Send ADT
- Existing Patient, Visit, and Order: Send ADT and ORM to DSS (MESA/Vendor).
- Existing Patient, Visit, and Order: Schedule MWL.
- Send A08 (Rename Message)
- Send A40 (Merge Message)

### **4.1 Existing Patient, Visit, Order, and SPS: Send a scheduling Message**

To send a scheduling message for existing patient, visit, order, and SPS, the user can pick on any existing SPS entry from the drop-down list or search for SPS based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Send Message" button to send a scheduling message.

### **4.2 New Patient: Create Patient, and Visit**

On the Create Patient page, certain fields need to be filled in, and others have automatic values. The Patient entry will be created in the internal database when the Create button is pressed, and the success or failure of the action will be indicated. Upon completion on create Patient; user can click on the link on the "success" page to create a Visit.

On the Create Visit page, the user can pick on any existing patient entry from the drop-down list or search for patients based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Create" button to create a Patient Visit.

### **4.3 Existing Patient: Create Order**

On the Create Order page, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Create" button to create an Order.

### **4.4 Existing Patient: Send ADT**

To send Admit/Registration message for existing patient, visit, and order, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Send Message" button to send Admit/Registration message.

### **4.5 Existing Patient, Visit, and Order: Send ADT and ORM to DSS (MESA/Vendor)**

To send Admit/Registration message for existing patient, visit, and order, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Send Message" button to send Admit/Registration message.

On the send ADT success page, the user needs to click on the link to send ORM to DSS and follow similar steps above to send ORM to DSS.

### **4.6 Existing Patient, Visit, and Order: Schedule MWL**

To schedule a MWL for existing patient, visit, and order, the user can pick on any existing requested procedure entry from the drop-down list or search for procedure records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Create" button to schedule a MWL.

## **4.7 Send A08 (Rename Message)**

From the “Rename Message” page, an A08 message will be sent, and the patient name will be changed in the internal database.

To send a Rename message for existing patient, visit, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Send Message” button to send a Rename message.

## **4.8 Send A40 (Merge Message)**

From the “Send Merge Message” page, select a surviving patient record and the old/secondary patient record. An A40 message will be sent to the destination. In the internal database, the old patient record will be deleted, and all visit records referring to the old patient will be associated with the new patient record.

To send a Merge message for existing patient, visit, the user can pick on any existing dominant patient record entry from the drop-down list or search for patient records based on patient's last name. To search for dominant patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any dominant patient from the resulting search list. The user can pick on any existing secondary patient record entry from the drop-down list or search for patient records based on patient's last name. To search for secondary patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any secondary patient from the resulting search list, complete various fields, and click on “Send Message” button to send a Merge message.

## **5 Order Filler Customers**

After logging in and choosing Order Filler on the components page, the main screen of the MESA RIS Mall lists 8 different actions possible for an Order Filler customer.

These are:

- Existing Order: Send existing order from database.
- Existing Visit, new Order: Create and Send/Cancel Order
- Existing Visit: Send A01, A04 (Admit/Registration Message)
- Existing Visit: Send A03 (Discharge Message)
- Existing Patient: Send A08 (Rename Message)
- Existing Patient: Send A40 (Merge Message)
- Existing Patient: Create Visit
- New Patient: Create Patient

### **5.1 Existing Order: Send existing order from database**

To send existing order from database, the user can pick on any existing order record entry from the drop-down list or search for order records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Send Message" button to send an Order.

### **5.2 Existing Visit, new Order: Create and Send/Cancel Order**

On the Create Order page, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Create" button to create an Order.

To send/cancel existing order from database, the user can pick on any existing order record entry from the drop-down list or search for order records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any

patient from the resulting search list, complete various fields, and click on “Send Message” button to send an Order and “Cancel Order” to cancel an order.

### **5.3 Existing Visit: Send A01, A04 (Admit/Registration Message)**

To send Admit/Registration message for existing patient, visit, and order, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Send Message” button to send Admit/Registration message.

### **5.4 Existing Visit: Send A03 (Discharge Message)**

From the “Send Discharge Message” page, A03 message will be sent to the selected destination for the selected visit. Trying to discharge an outpatient will result in an error.

To send Discharge message for existing patient, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Send Message” button to send Discharge message.

### **5.5 Existing Patient: Send A08 (Rename Message)**

From the “Rename Message” page, an A08 message will be sent, and the patient name will be changed in the internal database.

To send a Rename message for existing patient, visit, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Send Message” button to send a Rename message.

## **5.6 Existing Patient: Send A40 (Merge Message)**

From the “Send Merge Message” page, select a surviving patient record and the old/secondary patient record. An *A40* message will be sent to the destination. In the internal database, the old patient record will be deleted, and all visit records referring to the old patient will be associated with the new patient record.

To send a Merge message for existing patient, visit, the user can pick on any existing dominant patient record entry from the drop-down list or search for patient records based on patient's last name. To search for dominant patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any dominant patient from the resulting search list. The user can pick on any existing secondary patient record entry from the drop-down list or search for patient records based on patient's last name. To search for secondary patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any secondary patient from the resulting search list, complete various fields, and click on “Send Message” button to send a Merge message.

## **5.7 Existing Patient: Create Visit**

On the Create Visit page, the user can pick on any existing patient entry from the drop-down list or search for patients based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Create” button to create a Patient Visit.

## **5.8 New Patient: Create Patient**

On the Create Patient page, certain fields need to be filled in, and others have automatic values. The Patient entry will be created in the internal database when the Create button is pressed, and the success or failure of the action will be indicated.

## **6 Order Placer Customers**

After logging in and choosing Order Placer on the components page, the main screen of the MESA RIS Mall lists 6 different actions possible for an Order Placer customer.

These are:

- Existing Visit: Send A01, A04 (Admit/Registration Message)
- Existing Visit: Send A03 (Discharge Message)
- Existing Patient: Send A08 (Rename Message)
- Existing Patient: Send A40 (Merge Message)
- Existing Patient: Create Visit
- New Patient: Create Patient

### **6.1 Existing Visit: Send A01, A04 (Admit/Registration Message)**

To send Admit/Registration message for existing patient, visit, and order, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Send Message" button to send Admit/Registration message.

### **6.2 Existing Visit: Send A03 (Discharge Message)**

From the "Send Discharge Message" page, A03 message will be sent to the selected destination for the selected visit. Trying to discharge an outpatient will result in an error.

To send Discharge message for existing patient, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the "Search Patients" button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on "Send Message" button to send Discharge message.

### **6.3 Existing Patient: Send A08 (Rename Message)**

From the “Rename Message” page, an *A08* message will be sent, and the patient name will be changed in the internal database.

To send a Rename message for existing patient, visit, the user can pick on any existing visit record entry from the drop-down list or search for visit records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Send Message” button to send a Rename message.

### **6.4 Existing Patient: Send A40 (Merge Message)**

From the “Send Merge Message” page, select a surviving patient record and the old/secondary patient record. An *A40* message will be sent to the destination. In the internal database, the old patient record will be deleted, and all visit records referring to the old patient will be associated with the new patient record.

To send a Merge message for existing patient, visit, the user can pick on any existing dominant patient record entry from the drop-down list or search for patient records based on patient's last name. To search for dominant patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any dominant patient from the resulting search list. The user can pick on any existing secondary patient record entry from the drop-down list or search for patient records based on patient's last name. To search for secondary patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any secondary patient from the resulting search list, complete various fields, and click on “Send Message” button to send a Merge message.

### **6.5 Existing Patient: Create Visit**

On the Create Visit page, the user can pick on any existing patient entry from the drop-down list or search for patients based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Create” button to create a Patient Visit.



## **6.6 New Patient: Create Patient**

On the Create Patient page, certain fields need to be filled in, and others have automatic values. The Patient entry will be created in the internal database when the Create button is pressed, and the success or failure of the action will be indicated.

## **7 Patient Demographics Consumer**

After logging in and choosing Patient Demographics Consumer actor on the components page, the main screen of the MESA RIS Mall lists 2 different actions possible for Patient Demographics Consumer actor.

These are:

- New Patient: Create Patient
- Existing Patient: Send ITI-8-A04 message.

### **7.1 New Patient: Create Patient**

On the Create Patient page, certain fields need to be filled in, and others have automatic values. The Patient entry will be created in the internal database when the Create button is pressed, and the success or failure of the action will be indicated.

### **7.2 Existing Patient: Send ITI-8-A04 message**

From the “Send ITI-8-A04” page, an *A04* message will be sent.

To send a ITI-8-A04 for existing patient, the user can pick on any existing patient record entry from the drop-down list or search for patient records based on patient's last name. To search for patients using their last name, the user needs to enter few starting letters from patient's last name in the search field and click on the “Search Patients” button. The user then needs to pick any patient from the resulting search list, complete various fields, and click on “Send ITI-8-A04 Message” button to send a message.

## **8 Unspecified menu option**

This interface allows the user to use previous year's MESA RIS Mall interface to generate ADT events, orders and to place scheduled procedure steps on a MESA MWL server.

Using this option the user can perform the following actions:

- Create Patient Record
- Create Visit Record
- Send Admit/Registration Message
- Send Discharge Message
- Send Rename Message
- Send Merge Message
- Create Order
- Send Order Message
- Schedule a Requested Procedure
- Send Scheduling Message

The documentation for the above mentioned actions have been described in detail in the previous pages of this document.

## Order Filler Customers: Get an order to Order Filler

A modality that wants to obtain a worklist from a vendor MWL SCP can use the RIS Mall to place an HL7 order with that vendor system. There are several steps the MODALITY operator will need to perform to create and send the order to the vendor system.

Order Filler Customers will be using the RIS Mall's ADT functionality as well as the Order Placer functionality.

1. Create a visit from existing patient list.

**MESA RIS Mall: Order Filler: Create a Visit** [Logout](#)

Visit Number: Automatically Assigned

**Search for Patients:**

Patient's lastname begins with:

Patient (Name, DOB, PatID, Issuer):

Patient Class:

Assigned Patient Location:

Attending Doctor:

Admitting Doctor:

Admit Date: 20070109

Admit Time: 0853

Referring Doctor:

Debugging Output: ☐

[RIS MALL Users Guide](#)

- From the "Create an Order" page, select an existing visit entry. If the appropriate visit is not visible, make sure that the patient was registered with the RIS Mall Order Placer. Make sure you select a value for Universal Service ID that will map to the proper Scheduled Procedure Steps for your modality. For MESA tests, you used P1; for Connectathon tests, you will use a modality specific code (MR of the head...)

**MESA RIS Mall: Order Filler: Create an Order** [Logout](#)

**Search for Patients:**

Patient's lastname begins with:

Please select visit record:

- USER^JOE^M. M. 19471212. MV1000^^^MESA. I. 20070109
- USER^JOE^M. M. 19471212. MV1000. I. 20070109

Placer Order Number: Automatically Assigned

Filler Order Number: " "

Universal Service ID:

Visit Number: From Selected Visit

Order UID: Automatically Assigned

Order Control: NW

Placer Group Number: " "

Order Status: " "

MESA Status: REQUESTED

Quantity/Timing: 1^once^S

Parent: " "

Date/Time of Transaction: 200701090858

Entered By: ^ROSEWOOD^RANDOLPH

Ordering Provider:

Referring Doctor: From Selected Visit

Order Effective Date/Time: 200701090858

Entering Organization: 922229-12^North Region^99IHEDEMO

Specimen Source:

Order Callback Phone Number: 314-555-1212

3. To send an order message, select a created Order message and the appropriate Order Filler destination. An *001-order* message will be sent.

The screenshot shows a web browser window titled "MESA RIS Mall: Order Filler :: Send/Cancel an Order Message - Microsoft Internet Explorer". The address bar shows the URL: [http://ihe.wustl.edu/ris\\_mall/doc/send\\_order.php?source=ordfil](http://ihe.wustl.edu/ris_mall/doc/send_order.php?source=ordfil). The page content includes logos for Washington University in St. Louis School of Medicine and the IHE logo. A yellow banner at the top reads "MESA RIS Mall: Order Filler: Send/Cancel an Order Message" with a "Logout" link. Below this, the "Search for Patients:" section has a text input for "Patient's lastname begins with" containing the text "user", and a "Search Patients" button. The "Please select Order" section features a dropdown menu with the selected option "USER^JOE^M, 19471212, 20070109, P1^Procedure 1^ERL\_MESA (order id=1)". The "Destination" section has a dropdown menu with "AGFA (AGFA OF agfa11.2250)" selected. There is an unchecked checkbox for "Debugging Output". At the bottom of the form are four buttons: "Cancel", "Reset", "Send Message", and "Cancel Order". A link for "RIS MALL Users Guide" is located below the buttons. The browser's status bar at the bottom shows "Done" and "Internet".

4. Check with the vendor Order Filler to see that the order arrived. If it did not, you can resend the same order from the RIS Mall.

## Modality Customers: Retrieve Modality Worklist

Acquisition Modality customers retrieve Modality Worklist entries from the Modality Worklist SCP.

In order to serve Acquisition Modality customers, the MESA RIS Mall needs to have Modality Worklist entries created. The following steps need to be performed:

1. Create a Visit

Create a visit from existing patient list.

The screenshot shows a web browser window titled "MESA RIS Mall: Actions :: Create a Visit - Microsoft Internet Explorer". The address bar shows the URL: `http://ihe.wustl.edu/ris_mall/doc/create_visit.php?source=unspecified`. The page content includes logos for Washington University in St. Louis School of Medicine and the Mallinckrodt Institute of Radiology, along with the IHE logo. The main heading is "MESA RIS Mall: Actions:: Create a Visit" with a "Logout" link. The form is divided into two columns: "Visit Number" and "Automatically Assigned". Under "Visit Number", there is a "Search for Patients:" section with a text input "Patient's lastname begins with" containing the word "user", a "Search Patients" button, and a list box showing "USER^JOE^M, 19471212, MP3000, MESA". The "Automatically Assigned" column contains several fields: "Patient Class" (Inpatient), "Assigned Patient Location" (1E^101^1^MESA Hospital), "Attending Doctor" (11234^WEAVER^TIMOTHY^P^DR), "Admitting Doctor" (11234^WEAVER^TIMOTHY^P^DR), "Admit Date" (20070109), "Admit Time" (1042), "Referring Doctor" (5101^NELL^FREDERICK^P^DR), and "Debugging Output" (unchecked checkbox). At the bottom are "Cancel", "Reset", and "Create" buttons.

## 2. Create an Order

From the “Create an Order” page, select a registered visit entry. Make sure you select a Universal Service ID that will get mapped to appropriate Scheduled Procedure Steps for your system. During the MESA tests, you used “P1”. During the Connectathon, you will order a modality specific procedure (MR of the head...)

**MESA RIS Mall: Acquisition Modality: Create an Order** [Logout](#)

**Search for Patients:**  
 Patient's lastname begins with:

Please select visit record:

Placer Order Number	Automatically Assigned
Filler Order Number	" "
Universal Service ID	<input type="text" value="P1^Procedure 1^ERL_MESA"/>
Visit Number	From Selected Visit
Order UID	Automatically Assigned
Order Control	NW
Placer Group Number	" "
Order Status	" "
MESA Status	REQUESTED
Quantity/Timing	1^once^^^^S
Parent	" "
Date/Time of Transaction	200701091044
Entered By	^ROSEWOOD^RANDOLPH
Ordering Provider	<input type="text" value="7101^ESTRADA^JAIME^P^^DR"/>
Referring Doctor	From Selected Visit
Order Effective Date/Time	200701091044
Entering Organization	922229-12^North Region^99IHEDEMO



### 3. Send an Order Message

To send an order message, select a created Order message and select MESA OF as the destination. An *001-order* message will be sent.

If you want the MESA system to provide the worklist, you must send an order to the MESA DSS/OF. Do not send the order to a vendor system.

**MESA RIS Mail: Acquisition Modality :: Send/Cancel an Order Message - Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites

Address [http://ihe.wustl.edu/ris\\_mall/doc/send\\_order.php?source=acqmod](http://ihe.wustl.edu/ris_mall/doc/send_order.php?source=acqmod)

Washington University in St. Louis SCHOOL OF MEDICINE  
MIR Mallinckrodt Institute of Radiology

**MESA RIS Mail:: Acquisition Modality:: Send/Cancel an Order Message** [Logout](#)

**Search for Patients:**

Patient's lastname begins with

Please select Order

Destination

Debugging Output ☐

[RIS MALL Users Guide](#)

Done Internet

### 4. Schedule a Requested Procedure

From the “Schedule a Requested Procedure” page, select a requested procedure from the selection box. Select the scheduled system name and the modality. The scheduled procedure step (SPS) time and date may be modified from their default values. Pressing “Create” will create an entry in the Modality Worklist.

The screenshot shows a web browser window titled "MESA RIS Mall: Acquisition Modality - Schedule a Requested Procedure - Microsoft Internet Explorer". The address bar shows the URL: `http://ihe.wustl.edu/ris_mall/doc/schedule_procedure.php?source=acqmod`. The page header includes logos for Washington University in St. Louis School of Medicine and the Mallinckrodt Institute of Radiology, along with the IHE logo. The main content area has a yellow background and contains the following elements:

- MESA RIS Mall: Acquisition Modality: Schedule a Requested Procedure** (with a [Logout](#) link)
- Search for Patients:**
  - Text: "Patient's lastname begins with" followed by a text input field containing "user".
  - A "Search Patients" button.
- Please select a Requested Procedure:**
  - A dropdown menu showing the selected item: "USER^JOE^M, 19471212, 20070109, P1^Procedure 1^ERL\_MESA (order id=1)".
- Scheduled System Name (AE Title):** A dropdown menu showing "MOD\_CEDARA (MOD\_CEDARA)".
- SPS Start Date:** A text input field containing "20070109".
- SPS Start Time:** A text input field containing "1048".
- Modality:** A dropdown menu showing "CR".
- Debugging Output:** An unchecked checkbox.
- At the bottom right, there are three buttons: "Cancel", "Reset", and "Create".

## 5. Query Worklist

Once the Modality Worklist entries are created, an acquisition modality may access them by performing CFind queries against the MESA RIS Mall Modality Worklist SCP. The following table defines the parameters necessary in connecting to the SCP. Please note that during the Connectathon the hostname will be different.

<b>MESA RIS Mall Modality Worklist SCP Information</b>	
<b>Hostname (Internet test)</b>	ihe.wustl.edu
<b>Hostname (Connectathon)</b>	ihe
<b>IP (Connectathon)</b>	
<b>Port</b>	4250
<b>AE Title</b>	MESA MWL