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**Integrating the Healthcare Enterprise**

**IHE/MESA Patient Encounter  
Source Tests**

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1	Patient Encounter Source.....	3
1.1	Introduction .....	3
1.2	Patient Identification .....	3
1.3	Configuration.....	3
1.4	Starting the MESA Servers .....	3
1.5	Installation Test .....	4
1.6	Test Software Environment.....	4
1.7	Submission of Results .....	4
2	Test Cases PAM .....	4
2.1	Test 12120: PAM Admit/Discharge Patient.....	4
2.2	Test 12121: PAM Register Outpatient .....	6

# 1 Patient Encounter Source

## 1.1 Introduction

The MESA tests include a number of cases each of which rely on a sequence of messages between actors. These tests range across different integration profiles:

- Patient Administration Management

This document lists the transactions and messages for a number of cases. It may not describe the clinical scenario behind each case, but listing the transactions should clearly define what is expected of each actor. These are all of the transactions involving all of the actors. When you test with your particular actor, you may see only a subset of these messages.

## 1.2 Patient Identification

The tests described in this document rely on patient demographics supplied as part of the test procedure. This document is intended for the Patient Encounter Source; therefore the tests assume the source is responsible for supplying an identifier for each test patient.

## 1.3 Configuration

The MESA scripts are run from the directory  
*\$MESA\_TARGET/ mesa\_tests/iti/actors/pat\_encounter\_src.*

The ASCII configuration file *pat\_encounter\_src.cfg* contains parameters that describe your system and the test environment. If the Patient Encounter Source is not grouped with a Patient Demographics Source and needs to receive patient demographic information, the following parameters are used to tell the MESA software where to send those messages:

Variable Name	Default Value
TEST_PES_HOST_HL7	pat_encounter_src
TEST_PES_PORT_HL7	3900

## 1.4 Starting the MESA Servers

MESA servers are started from a DOS/CMD window or a terminal emulator. Follow these steps for Unix systems

1. `cd $MESA_TARGET/ mesa_tests/iti/actors/pat_encounter_src`
2. `scripts/start_mesa_servers.csh`

To stop the servers:

```
scripts/stop_mesa_servers.csh
```

The start instructions for MESA tools on a Windows system are:

1. `cd %MESA_TARGET%\mesa_tests\iti\actors\pat_encounter_src`
2. `scripts\start_mesa_servers.bat`

To stop the servers:

`scripts/stop_mesa_servers.bat`

## **1.5 Installation Test**

## **1.6 Test Software Environment**

## **1.7 Submission of Results**

Test descriptions below inform the reader to “submit results to the Project Manager”. This is does not mean “email”. The current submission process should be documented by the Project Manager, but will not include emailing files directly to the Project Manager.

## **2 Test Cases PAM**

This section describes test cases that are generally associated with the PAM Integration Profile. There may be some overlap with other profiles.

### **2.1 Test 12120: PAM Admit/Discharge Patient**

In test 12120, the Patient Encounter Source is required to send two messages to first admit and then discharge a patient. The test script allows the Patient Encounter Source to receive demographic information from the MESA system (that is, a standalone Encounter Source) or to use demographic information if grouped with a Patient Demographic Source.

#### **2.1.1 Reference**

ITI TF

## 2.1.2 Instructions

To run this test, follow these steps using a DOS window or terminal emulator:

1. Read the document “IHE IT Infrastructure Test Cases” for a description of the transactions used for this test. Your system is required to produce the administration messages described in that document.
2. Refer to the table in Section 2.1.4 below. It lists values that are used for Patient Demographics. If you are also a Patient Demographics Source, you need to use those values when you create the patient. If you choose to receive a demographics feed from MESA, you will receive those values.
3. Set the current directory to *\$MESA\_TARGET/ mesa\_tests/iti/actors/ pat\_encounter\_src*.
4. Make sure the MESA servers have been started as described in section 1.4 above.
5. If your system is grouped with a Patient Demographics Source, you can generate your own Patient Identifier; however, you should use the demographics defined for this test. If you are a standalone Patient Encounter Source, you can receive an ADT message with the demographic information from the test script.

6. Run the test script as follows:

```
perl scripts/pat_encounter_src.pl 12120 <log level>
```

where <log level> is a value between 1 (low) and 4 (high).

7. Run the evaluation script below.

## 2.1.3 Evaluation

1. Run the evaluation script:

```
perl 12120/eval_12120.pl <log level>
```

2. The evaluation output is found in 12120/grade\_12120.txt. The final result should indicate 0 errors. Submit the result run at log level 4 to the Project Manager.

## 2.1.4 Patient Demographics for Test 12120

Segment / Field	Element Name	Value
PID.3.4	(Patient ID) Assigning Authority	&1.3.6.1.4.1.21367.2005.1.1&ISO
PID.3.5	(Patient ID) Identifier Type Code	PI
PID.5	Patient Name	YATES^MARY
PID.7	Date/Time of Birth	19381213
PID.8	Administrative Sex	M
PID.11	Patient Address	15 WESTMINSTER^^WEBSTER^MO^63119
PV1	Patient Class	N

## 2.2 Test 12121: PAM Register Outpatient

In test 12121, the Patient Encounter Source is required to send one messages to register a patient as an outpatient. The test script allows the Patient Encounter Source to receive demographic information from the MESA system (that is, a standalone Encounter Source) or to use demographic information if grouped with a Patient Demographic Source.

### 2.2.1 Patient Demographics for Test 12121

Segment / Field	Element Name	Value
PID.3.4	(Patient ID) Assigning Authority	&1.3.6.1.4.1.21367.2005.1.1&ISO
PID.3.5	(Patient ID) Identifier Type Code	PI
PID.5	Patient Name	SMITH^AMBER
PID.7	Date/Time of Birth	19791130
PID.8	Administrative Sex	M
PID.11	Patient Address	17 OCEAN^^WEBSTER^MO^63119
PV1	Patient Class	N

### 2.2.2 Reference

ITI TF

### 2.2.3 Instructions

To run this test, follow these steps using a DOS window or terminal emulator:

1. Read the document “IHE IT Infrastructure Test Cases” for a description of the transactions used for this test. Your system is required to produce the administration messages described in that document.
2. Refer to the table in Section 2.2.1 above. It lists values that are used for Patient Demographics. If you are also a Patient Demographics Source, you need to use those values when you create the patient. If you choose to receive a demographics feed from MESA, you will receive those values.
3. Set the current directory to *\$MESA\_TARGET/ mesa\_tests/iti/actors/ pat\_encounter\_src*.
4. Make sure the MESA servers have been started as described in section 1.4 above.
5. If your system is grouped with a Patient Demographics Source, you can generated your own Patient Identifier; however, you should use the demographics defined for this test. If you are a standalone Patient Encounter Source, you can receive an ADT message with the demographic information from the test script.
6. Run the test script as follows:

```
perl scripts/pat_encounter_src.pl 12121 <log level>
```

where <log level> is a value between 1 (low) and 4 (high).

7. Run the evaluation script below.

#### **2.2.4 Evaluation**

1. Run the evaluation script:

```
perl 12121/eval_12121.pl <log level>
```

2. The evaluation output is found in 12121/grade\_12121.txt. The final result should indicate 0 errors. Submit the result run at log level 4 to the Project Manager.

