
Integrating the Healthcare Enterprise

**IHE/MESA Patient Demographics
Source Tests**

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

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1 Patient Demographics 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 Demographics 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/pd_source*.

The ASCII configuration file *pd_source.cfg* contains parameters that describe your system and the test environment. As the Patient Demographics Source is output only, you should not need to modify this file.

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/ps_source`
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\pd_source`
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 Case 12101: PAM Create New Patient

In test 12101

2.1.1 References

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. You will create a patient using the values in the table.
3. Set the current directory to *\$MESA_TARGET/ mesa_tests/iti/actors/ pd_source*.
4. Make sure the MESA servers have been started as described in section 1.4 above.
5. Run the test script as follows:

```
perl scripts/pds_pam.pl 12101 <log level>
```

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

6. Run the evaluation script below.

2.1.3 Evaluation

1. Run the evaluation script:

```
perl 12101/eval_12101.pl <log level>
```

2. The evaluation output is found in 12101/grade_12101.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 12101

Use the values in the table below. For some fields, the specification may include a component of a field. For example, we specify the assigning authority for the Patient ID, but understand the Patient Demographics Source would produce the actual identifier.

Segment / Field	Element Name	Value
MSH.9	Message Type	ADT^A28^ADT_A05
MSH.11	Processing ID	P
MSH.12	Version ID	2.5
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	FROST^BOB
PID.7	Date/Time of Birth	19480924
PID.8	Administrative Sex	M
PID.11	Patient Address	4525 SCOTT^^ST LOUIS^MO^63110
PV1	Patient Class	N

2.2 Test Case 12102: PAM Update Patient Information

In test 12102

2.2.1 References

ITI TF

2.2.2 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. Set the current directory to *\$MESA_TARGET/ mesa_tests/iti/actors/ pd_source*.
3. Refer to the table in section 2.2.4 below. You will create a patient using the values in the table. Then, you will update the patient name as indicated in the text.
4. Make sure the MESA servers have been started as described in section 1.4 above.
5. Run the test script as follows to perform:

```
perl scripts/pds_pam.pl 12102 <log level>
```

where <log level> is a value between 1 (low) and 4 (high).
6. Run the evaluation script below.

2.2.3 Evaluation

1. Run the evaluation script:

```
perl 12102/eval_12102.pl <log level>
```

2. The evaluation output is found in 12102/grade_12102.txt. The final result should indicate 0 errors. Submit the result run at log level 4 to the Project Manager.

2.2.4 Patient Demographics for Test 12102

Use the values in the table below. For some fields, the specification may include a component of a field. For example, we specify the assigning authority for the Patient ID, but understand the Patient Demographics Source would produce the actual identifier.

Segment / Field	Element Name	Value
MSH.9	Message Type	ADT^A28^ADT_A05
MSH.11	Processing ID	P
MSH.12	Version ID	2.5
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	BROWN^SARAH
PID.7	Date/Time of Birth	19601014
PID.8	Administrative Sex	F
PID.11	Patient Address	14 WILLOW^^LADUE^MO^63124
PV1	Patient Class	N

The only field to be updated for test 12102 is PID-5, Patient Name. Change the Patient Name to JACKSON^SARAH. All other demographics remain the same.