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**Integrating the Healthcare Enterprise**

**IHE/MESA Patient Demographics  
Consumer Tests**

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# 1 Patient Demographics Consumer

## 1.1 Introduction

## 1.2 Patient Identification

Patient IDs are assigned to test specific features of the PDQ profile. The values used for Assigning Authority in PID.3 are taken from the HIMSS 2005 demonstrations. The values work equally well for test cases. The values for assigning authority are listed in the table below.

Note that the use of OIDs replaces simple assigning authority names used in other MESA tests.

Name	Value
XDS 2005	&1.3.6.1.4.1.21367.2005.1.1&ISO

## 1.3 Configuration

The MESA scripts are run from the directory *\$MESA\_TARGET/ mesa\_tests/iti/actors/pd\_consumer*. The ASCII configuration file *pd\_consumer.cfg* contains parameters that configure the MESA Patient Demographics Supplier. The default port number is 3700. You should only change this port number if there is a conflict with another service on the MESA test computer. There will be no conflicts with other MESA servers; the only conflict would occur with something from the operating system or other software package.

You should configure your Patient Demographics Consumer to send HL7 query messages to the MESA Cross Reference Manager listening on port 3700. HL7 communication uses TCP sockets and the minimal lower level protocol.

For testing the PAM profile, the Patient Demographics Consumer is expected to have an HL7 server that accepts ADT messages. The *pd\_consumer.cfg* file lists entries for the server as follows:

TEST_PDC_PAM_HOST	pd_c
TEST_PDC_PAM_PORT	3800

Modify the text file as appropriate to designate the system under test.

## 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/rid/actors/pd_consumer`
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\rid\actors\pd_consumer`
2. `scripts\start_mesa_servers.bat`

To stop the MESA servers:

Kill the server using ^C in the same DOS window where you started the server. When you started the server, it ran the server in the foreground.

## 1.5 Installation Test

## 1.6 Loading MESA PD Supplier

The MESA PD supplier needs demographic records loaded to support the PD Consumer under test. After the MESA servers are running, the PD Supplier is loaded as follows:

```
perl scripts/pdc_pdq.pl 11300 1 x
```

This is a one time setup that should be run before the first test. It does not have to be run in between tests.

## 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: PDQ**

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

## 2.1 Test Case 11311: Exact Name Search

Test case 11311 covers an exact name search by the Patient Demographics Consumer.

Several ADT messages are sent to the Patient Demographics Supplier. Then, the PD Consumer sends a query. The consumer is expected to query by exact patient name:

PID.5.1 = MOORE

PID.5.2 = CHIP

No other query keys should be present.

If populated, field RCP-2 should contain the value 10^RD or a higher number. This will allow a response with all records. There are later tests for limiting the number of records in a response.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

QRY\_PDQ\_1001^Query By Name^IHEDEMO

### 2.1.1 References

ITI TF-2: 3.21

### 2.1.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/ mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.
3. Make sure the MESA servers have been started. See section 1.4 for details.
4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:

```
perl scripts/pdc_pdq.pl 11311 <log level>
```

where <log level> is a value between 1 and 4.

6. Your system is prompted to send one Patient Demographics Query.

### 2.1.3 Evaluation

To evaluate your response to this test:

1. Run the evaluation script

```
perl 11311/eval_11311.pl 4
```

2. The output file is 11311/grade\_11311.txt. This test is successfully completed when the last line in the output file indicates 0 errors.

3. Submit the grade file to the Project Manager. The Project Manager may examine the file and require you to modify your query and/or to perform additional queries.

Notes:

1. The evaluation script takes a single argument, <log level>. When debugging output, it is sometimes helpful to use a log level of 1 to see only differences. When submitting results, we prefer the output with the most verbose level, 4.
2. If you want to see a query generated by a MESA PD Consumer, run test 11311 in self test mode. Then run the evaluation as above and examine the grade file. To run in self test mode:

```
perl scripts/pdc_pdq.pl 11311 4 self
```

## 2.2 Test 11312: Name Search – No Match

Test case 11312 covers an exact name search by the Patient Demographics Consumer that results in no records found/returned by the Supplier.

Several ADT messages are sent to the Patient Demographics Supplier. Then, the PD Consumer sends a query. The consumer is expected to query by exact patient name:

```
PID.5.1 = ZEBRA
```

No other query keys should be present.

If populated, field RCP-2 should contain the value 10^RD or a higher number. This will allow a response with all records. There are later tests for limiting the number of records in a response.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

```
QRY_PDQ_1001^Query By Name^IHEDEMO
```

### 2.2.1 References

ITI TF-2: 3.21

### 2.2.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/ mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.
3. Make sure the MESA servers have been started. See section 1.4 for details.
4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:

```
perl scripts/pdc_pdq.pl 11312 <log level>
```

where <log level> is a value between 1 and 4.

6. Your system is prompted to send one Patient Demographics Query.
7. Perform a screen capture that shows your user interface with the user input that triggers the query.
8. Perform a screen capture that shows your user interface with results indicating no matches/returned records.

### 2.2.3 Evaluation

To evaluate your response to this test:

1. Save the screen capture of the query trigger in a file named <SYSTEM>\_11312\_query.<ext> where <ext> is the appropriate extension.
2. Save the screen capture of the response window in a file named <SYSTEM>\_11312\_response.<ext>.
3. Submit the screen captures to the Project Manager. The Project Manager may examine the files and require you to modify your query and/or to perform additional queries.

Notes:

## 2.3 Test Case 11315: Partial Name Search

Test case 11315 covers a partial name search by the Patient Demographics Consumer.

Several ADT messages are sent to the Patient Demographics Supplier. Then, the PD Consumer sends a query. The consumer is expected to query with a partial name

```
PID.5.1 = MOO*
```

No other query keys should be present.

If populated, field RCP-2 should contain the value 10^RD or a higher number. This will allow a response with all records. There are later tests for limiting the number of records in a response.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

```
QRY_PDQ_1001^Query By Name^IHEDEMO
```

When querying a vendor system, you may need different wildcard characters (or no wildcard characters).

### 2.3.1 References

ITI TF-2: 3.21

### 2.3.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.
3. Make sure the MESA servers have been started. See section 1.4 for details.
4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:

```
perl scripts/pdc_pdq.pl 11315 <log level>
```

where <log level> is a value between 1 and 4.

6. Your system is prompted to send one Patient Demographics Query.
7. Perform a screen capture of your user interface that shows the result of the query. The MESA PD Supplier should return several records.

### 2.3.3 Evaluation

To evaluate your response to this test:

1. Run the evaluation script

```
perl 11315/eval_11315.pl 4
```

2. The output file is 11315/grade\_11315.txt. This test is successfully completed when the last line in the output file indicates 0 errors.
3. Name the screen capture of the results window <SYSTEM>\_11315\_response.<ext> where <ext> is the appropriate file extension.
4. Submit the grade file and screen capture to the Project Manager. The Project Manager may examine the file and require you to modify your query and/or to perform additional queries.

Notes:

1. The evaluation script takes a single argument, <log level>. When debugging output, it is sometimes helpful to use a log level of 1 to see only differences. When submitting results, we prefer the output with the most verbose level, 4.
2. If you want to see a query generated by a MESA PD Consumer, run test 11315 in self test mode. Then run the evaluation as above and examine the grade file. To run in self test mode:

```
perl scripts/pdc_pdq.pl 11315 4 self
```

## 2.4 Test Case 11320: Complete ID Search - Unspecified Domain

Test case 11320 covers a complete ID search where the return domains are unspecified by the Patient Demographics Consumer.

Several ADT messages are sent to the Patient Demographics Supplier. Then, the PD Consumer sends a query. The consumer is expected to query with a Patient identifier

PID.3.1 = PDQ113XX05

No other query keys should be present.

If populated, field RCP-2 should contain the value 10^RD or a higher number. This will allow a response with all records. There are later tests for limiting the number of records in a response.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

QRY\_PDQ\_1001^Query By Name^IHEDEMO

The field QPD-8 should be left empty.

### 2.4.1 References

ITI TF-2: 3.21

### 2.4.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.
3. Make sure the MESA servers have been started. See section 1.4 for details.
4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:

```
perl scripts/pdc_pdq.pl 11320 <log level>
```

where <log level> is a value between 1 and 4.

6. Your system is prompted to send one Patient Demographics Query.

### 2.4.3 Evaluation

To evaluate your response to this test:

1. Run the evaluation script

```
perl 11320/eval_11320.pl 4
```

2. The output file is 11320/grade\_11320.txt. This test is successfully completed when the last line in the output file indicates 0 errors.

3. Submit the grade file to the Project Manager. The Project Manager may examine the file and require you to modify your query and/or to perform additional queries.

Notes:

1. The evaluation script takes a single argument, <log level>. When debugging output, it is sometimes helpful to use a log level of 1 to see only differences. When submitting results, we prefer the output with the most verbose level, 4.
2. If you want to see a query generated by a MESA PD Consumer, run test 11320 in self test mode. Then run the evaluation as above and examine the grade file. To run in self test mode:

```
perl scripts/pdc_pdq.pl 11320 4 self
```

## 2.5 Test Case 11325: Complete ID Search - Single Domain

Test case 11325 covers a complete ID search within a single domain that is specified by the PD Consumer.

Several ADT messages are sent to the Patient Demographics Supplier. Then, the PD Consumer sends a query. The consumer is expected to query with a Patient identifier

```
PID.3.1 = PDQ113XX02
```

No other query keys should be present.

If populated, field RCP-2 should contain the value 10^RD or a higher number. This will allow a response with all records. There are later tests for limiting the number of records in a response.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

```
QRY_PDQ_1001^Query By Name^IHEDEMO
```

The field QPD-8 should have the value “^^^&1.3.6.1.4.1.21367.2005.1.1&ISO” to specify that domain in the response.

### 2.5.1 References

ITI TF-2: 3.21

### 2.5.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/ mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.
3. Make sure the MESA servers have been started. See section 1.4 for details.

4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:  

```
perl scripts/pdc_pdq.pl 11325 <log level>
```

where <log level> is a value between 1 and 4.
6. Your system is prompted to send one Patient Demographics Query.

### 2.5.3 Evaluation

To evaluate your response to this test:

1. Run the evaluation script  

```
perl 11325/eval_11325.pl 4
```
2. The output file is 11325/grade\_11325.txt. This test is successfully completed when the last line in the output file indicates 0 errors.
3. Submit the grade file to the Project Manager. The Project Manager may examine the file and require you to modify your query and/or to perform additional queries.

Notes:

1. The evaluation script takes a single argument, <log level>. When debugging output, it is sometimes helpful to use a log level of 1 to see only differences. When submitting results, we prefer the output with the most verbose level, 4.
2. If you want to see a query generated by a MESA PD Consumer, run test 11325 in self test mode. Then run the evaluation as above and examine the grade file. To run in self test mode:

```
perl scripts/pdc_pdq.pl 11325 4 self
```

## 2.6 Test Case 11330: Complete ID Search - Multiple Domains

*Not implemented in this release.*

Test case 11330 covers a complete ID search where the domain of interest (QPD-8) is different from the Patient ID Domain associated with MSH-5 Receiving Application..

Several ADT messages are sent to the Patient Demographics Supplier. Then, the PD Consumer sends a query. The consumer is expected to query with a Patient identifier

```
PID.3.1 = PDQ113XX01
```

If populated, field RCP-2 should contain the value 10^RD or a higher number. This will allow a response with all records. There are later tests for limiting the number of records in a response.

No other query keys should be present.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

```
QRY_PDQ_1001^Query By Name^IHEDEMO
```

The field QPD-8 should have the value “ADT2” to specify that domain in the response. This is a different domain from the domain specified by MSH-5 Receiving Application.

### 2.6.1 References

ITI TF-2: 3.21

### 2.6.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.
3. Make sure the MESA servers have been started. See section 1.4 for details.
4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:

```
perl scripts/pdc_pdq.pl 11330 <log level>
```

where <log level> is a value between 1 and 4.

6. Your system is prompted to send one Patient Demographics Query.

### 2.6.3 Evaluation

To evaluate your response to this test:

1. Run the evaluation script

```
perl 11330/eval_11330.pl 4
```

2. The output file is 11330/grade\_11330.txt. This test is successfully completed when the last line in the output file indicates 0 errors.
3. Submit the grade file to the Project Manager. The Project Manager may examine the file and require you to modify your query and/or to perform additional queries.

Notes:

1. The evaluation script takes a single argument, <log level>. When debugging output, it is sometimes helpful to use a log level of 1 to see only differences. When submitting results, we prefer the output with the most verbose level, 4.
2. If you want to see a query generated by a MESA PD Consumer, run test 11330 in self test mode. Then run the evaluation as above and examine the grade file. To run in self test mode:

```
perl scripts/pdc_pdq.pl 11330 4 self
```

## 2.7 Test Case 11335: Partial ID Search - Single Domain

Test case 11335 covers a partial ID search within a single domain that is specified by the PD Consumer.

Several ADT messages are sent to the Patient Demographics Supplier. Then, the PD Consumer sends a query. The consumer is expected to query with a Patient identifier

```
PID.3.1 = PDQ113*
```

If populated, field RCP-2 should contain the value 10<sup>RD</sup> or a higher number. This will allow a response with all records. There are later tests for limiting the number of records in a response.

No other query keys should be present.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

```
QRY_PDQ_1001^Query By Name^IHEDEMO
```

The field QPD-8 should have the value “^^^&1.3.6.1.4.1.21367.2005.1.1&ISO” to specify that domain in the response.

### 2.7.1 References

ITI TF-2: 3.21

### 2.7.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/ mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.
3. Make sure the MESA servers have been started. See section 1.4 for details.
4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:

```
perl scripts/pdc_pdq.pl 11335 <log level>
```

where <log level> is a value between 1 and 4.

6. Your system is prompted to send one Patient Demographics Query.

### 2.7.3 Evaluation

To evaluate your response to this test:

1. Run the evaluation script

```
perl 11335/eval_11335.pl 4
```

2. The output file is 11335/grade\_11335.txt. This test is successfully completed when the last line in the output file indicates 0 errors.
3. Submit the grade file to the Project Manager. The Project Manager may examine the file and require you to modify your query and/or to perform additional queries.

Notes:

1. The evaluation script takes a single argument, <log level>. When debugging output, it is sometimes helpful to use a log level of 1 to see only differences. When submitting results, we prefer the output with the most verbose level, 4.
2. If you want to see a query generated by a MESA PD Consumer, run test 11335 in self test mode. Then run the evaluation as above and examine the grade file. To run in self test mode:

```
perl scripts/pdc_pdq.pl 11335 4 self
```

## 2.8 Test Case 11340: Date of Birth Search

*Not implemented in this release.*

Test case 11340 covers a Date of Birth search within a single domain. The user may specify the return domain (^^^&1.3.6.1.4.1.21367.2005.1.1&ISO) or leave that field empty.

Several ADT messages are sent to the Patient Demographics Supplier. Then, the PD Consumer sends a query. The consumer is expected to query with a Patient identifier

```
PID.7 = 19780920
```

If populated, field RCP-2 should contain the value 10^RD or a higher number. This will allow a response with all records. There are later tests for limiting the number of records in a response.

No other query keys should be present.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

```
QRY_PDQ_1001^Query By Name^IHEDEMO
```

The field QPD-8 should have the value “^^^&1.3.6.1.4.1.21367.2005.1.1&ISO” to specify that domain in the response or can be left empty.

### 2.8.1 References

ITI TF-2: 3.21

### 2.8.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.

3. Make sure the MESA servers have been started. See section 1.4 for details.
4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:

```
perl scripts/pdc_pdq.pl 11340 <log level>
```

where <log level> is a value between 1 and 4.
6. Your system is prompted to send one Patient Demographics Query.

### **2.8.3 Evaluation**

To evaluate your response to this test:

1. Run the evaluation script

```
perl 11340/eval_11340.pl 4
```
2. The output file is 11340/grade\_11340.txt. This test is successfully completed when the last line in the output file indicates 0 errors.
3. Submit the grade file to the Project Manager. The Project Manager may examine the file and require you to modify your query and/or to perform additional queries.

Notes:

1. The evaluation script takes a single argument, <log level>. When debugging output, it is sometimes helpful to use a log level of 1 to see only differences. When submitting results, we prefer the output with the most verbose level, 4.
2. If you want to see a query generated by a MESA PD Consumer, run test 11340 in self test mode. Then run the evaluation as above and examine the grade file. To run in self test mode:

```
perl scripts/pdc_pdq.pl 11340 4 self
```

## **2.9 Test Case 11345: Age Range Search Search**

Test case 11345 covers a search with a range of ages (30-40 years of age). This test is not defined as the mechanism for this is not defined in the Technical Framework.

### **2.9.1 References**

### **2.9.2 Instructions**

### **2.9.3 Evaluation**

## **2.10 Test Case 11350: Multi Key Search 1**

In test 11350, a Patient Demographics Consumer is required to send a search using two search keys, patient name and date of birth.

Several ADT messages are sent to the Patient Demographics Supplier. Then, the PD Consumer sends a query. The consumer is expected to query with a Patient identifier

PID.5.1 = MOORE

PID.7 = 19380224

Field RCP-2 should contain the value 10<sup>RD</sup> or a higher number. This will allow a response with all records. There are later tests for limiting the number of records in a response.

No other query keys should be present.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

QRY\_PDQ\_1001^Query By Name^IHEDEMO

The field QPD-8 should have the value “^^^&1.3.6.1.4.1.21367.2005.1.1&ISO” to specify that domain in the response or can be left empty.

### 2.10.1 References

ITI TF-2: 3.21

### 2.10.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.
3. Make sure the MESA servers have been started. See section 1.4 for details.
4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:

```
perl scripts/pdc_pdq.pl 11350 <log level>
```

where <log level> is a value between 1 and 4.

6. The test script will send several A04 registration messages to the MESA Patient Demographics Supplier. After the A04 messages, your system is prompted to send one Patient Demographics Query.

### 2.10.3 Evaluation

To evaluate your response to this test:

1. Run the evaluation script

```
perl 11350/eval_11350.pl 4
```

2. The output file is 11350/grade\_11350.txt. This test is successfully completed when the last line in the output file indicates 0 errors.

3. Submit the grade file to the Project Manager. The Project Manager may examine the file and require you to modify your query and/or to perform additional queries.

Notes:

1. The evaluation script takes a single argument, <log level>. When debugging output, it is sometimes helpful to use a log level of 1 to see only differences. When submitting results, we prefer the output with the most verbose level, 4.
2. If you want to see a query generated by a MESA PD Consumer, run test 11350 in self test mode. Then run the evaluation as above and examine the grade file. To run in self test mode:

```
perl scripts/pdc_pdq.pl 11350 4 self
```

## 2.11 Test Case 11355: Multi Key Search 2

*Not implemented in this release.*

In test 11355, a Patient Demographics Consumer is required to send a search using two search keys, patient name and date of birth.

Several ADT messages are sent to the Patient Demographics Supplier. Then, the PD Consumer sends a query. The consumer is expected to query with a Patient identifier

PID.5.1 = MOORE

PID.11.1 = 10 PINETREE

No other query keys should be present.

If populated, field RCP-2 should contain the value 10^RD or a higher number. This will allow a response with all records. There are later tests for limiting the number of records in a response.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

QRY\_PDQ\_1001^Query By Name^IHEDEMO

The field QPD-8 should have the value “^^^&1.3.6.1.4.1.21367.2005.1.1&ISO” to specify that domain in the response or can be left empty.

### 2.11.1 References

ITI TF-2: 3.21

### 2.11.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.

3. Make sure the MESA servers have been started. See section 1.4 for details.
4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:

```
perl scripts/pdc_pdq.pl 11355 <log level>
```

where <log level> is a value between 1 and 4.
6. Your system is prompted to send one Patient Demographics Query.

### 2.11.3 Evaluation

To evaluate your response to this test:

1. Run the evaluation script

```
perl 11355/eval_11355.pl 4
```
2. The output file is 11355/grade\_11355.txt. This test is successfully completed when the last line in the output file indicates 0 errors.
3. Submit the grade file to the Project Manager. The Project Manager may examine the file and require you to modify your query and/or to perform additional queries.

Notes:

1. The evaluation script takes a single argument, <log level>. When debugging output, it is sometimes helpful to use a log level of 1 to see only differences. When submitting results, we prefer the output with the most verbose level, 4.
2. If you want to see a query generated by a MESA PD Consumer, run test 11360 in self test mode. Then run the evaluation as above and examine the grade file. To run in self test mode:

```
perl scripts/pdc_pdq.pl 11355 4 self
```

## 2.12 Test Case 11360: Attending Doctor

*Not implemented in this release.*

In test 11360, a Patient Demographics Consumer is required to send a Patient Demographics and Visit Query Search.

No other query keys should be present.

Field RCP-2 should contain the value 10^RD or a higher number. This will allow a response with all records. There are later tests for limiting the number of records in a response.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

```
QRY_PDQ_1001^Query By Name^IHEDEMO
```

The field QPD-8 should have the value “^^^&1.3.6.1.4.1.21367.2005.1.1&ISO” to specify that domain in the response or can be left empty.

### 2.12.1 References

ITI TF-2: 3.22

### 2.12.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.
3. Make sure the MESA servers have been started. See section 1.4 for details.
4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:  

```
perl scripts/pdc_pdq.pl 11360 <log level>
```

where <log level> is a value between 1 and 4.
6. Your system is prompted to send one Patient Demographics Query.

### 2.12.3 Evaluation

To evaluate your response to this test:

1. Run the evaluation script  

```
perl 11360/eval_11360.pl 4
```
2. The output file is 11360/grade\_11360.txt. This test is successfully completed when the last line in the output file indicates 0 errors.
3. Submit the grade file to the Project Manager. The Project Manager may examine the file and require you to modify your query and/or to perform additional queries.

Notes:

1. The evaluation script takes a single argument, <log level>. When debugging output, it is sometimes helpful to use a log level of 1 to see only differences. When submitting results, we prefer the output with the most verbose level, 4.
2. If you want to see a query generated by a MESA PD Consumer, run test 11360 in self test mode. Then run the evaluation as above and examine the grade file. To run in self test mode:

```
perl scripts/pdc_pdq.pl 11360 4 self
```

## 2.13 Test Case 11365: Continuation Test 1

Test 11365 is a test of the HL7 Continuation Protocol. In this test, a Patient Demographics Consumer needs to configure their request with a specific limit and successfully process the response from the PD Supplier.

PID.5.1 = MOO\*

No other query keys should be present.

Field RCP-2 should contain the value 1^RD to indicate one record per response.

QPD-1 (Message Query Name) is a field that the Supplier needs to be able to configure on a site specific basis. For these tests, set the value to

QRY\_PDQ\_1001^Query By Name^IHEDEMO

The field QPD-8 should have the value “^^^&1.3.6.1.4.1.21367.2005.1.1&ISO” to specify that domain in the response or can be left empty.

The evaluation script will examine your query, but will not examine the intermediate and subsequent queries sent by your system. If you do not send the proper continuation data, the MESA server will not respond and will log information in the MESA log messages.

### 2.13.1 References

ITI TF-2: 3.21.4.1.2.3.2

### 2.13.2 Instructions

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

1. Set the current directory to \$MESA\_TARGET/mesa\_tests/iti/actors/pd\_consumer.
2. The file *pd\_consumer.cfg* describes the MESA servers for this test. You should be aware of this file but should not modify it unless you have problems starting the MESA servers.
3. Make sure the MESA servers have been started. See section 1.4 for details.
4. Load the MESA PD Supplier with data as described in section 1.6 (if not already done).
5. Run the test script as follows:

```
perl scripts/pdc_pdq.pl 11365 <log level>
```

where <log level> is a value between 1 and 4.

6. The test script will send several A04 registration messages to the MESA Patient Demographics Supplier. After the A04 messages, your system is prompted to send one Patient Demographics Query.

### 2.13.3 Evaluation

To evaluate your response to this test:

1. Run the evaluation script

```
perl 11365/eval_11365.pl 4
```

2. The output file is 11365/grade\_11365.txt. This test is successfully completed when the last line in the output file indicates 0 errors.
3. Submit the grade file to the Project Manager. The Project Manager may examine the file and require you to modify your query and/or to perform additional queries.

Notes:

1. The evaluation script takes a single argument, <log level>. When debugging output, it is sometimes helpful to use a log level of 1 to see only differences. When submitting results, we prefer the output with the most verbose level, 4.
2. If you want to see a query generated by a MESA PD Consumer, run test 11365 in self test mode. Then run the evaluation as above and examine the grade file. To run in self test mode:

```
perl scripts/pdc_pdq.pl 11365 4 self
```

### **3 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.

#### **3.1 Test Case 12101: PAM Create New Patient**

##### **3.1.1 References**

ITI TF Supplement 2005 - 2006

##### **3.1.2 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 receive the administration messages described in that document.
2. Set the current directory to *\$MESA\_TARGET/ mesa\_tests/iti/actors/ pd\_consumer*.
3. Make sure the MESA servers have been started as described in section 1.4 above.

4. Run the test script as follows:

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

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

5. Accept the A28 message that sends Patient Demographics to your system. The intention of the transaction is that you will use this information in further transactions, but that is not specified. Perform a screen capture of a database dump, your system user interface or other evidence that you have received this demographic information in the message. Submit the screen capture to the Project Manager.

You are trying to demonstrate that you have proper demographics (Name, Patient ID, Sex, DOB, Address, etc.)

#### **3.2 Test Case 12102: PAM Update Patient Information**

##### **3.2.1 References**

ITI TF Supplement 2005 - 2006

##### **3.2.2 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 receive the administration messages described in that document.
2. Set the current directory to *\$MESA\_TARGET/ mesa\_tests/iti/actors/ pd\_consumer*.
3. Make sure the MESA servers have been started as described in section 1.4 above.
4. Run the test script as follows:

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

where <log level> is a value between 1 (low) and 4 (high).
5. Accept the A28 message that sends Patient Demographics and A31 that sends Updated Patient Demographics to your system . The intention of the transaction is that you will use this information in further transactions, but that is not specified. Perform a screen capture of a database dump, your system user interface or other evidence that you have received both these messages. Submit the screen captures to the Project Manager.