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**Integrating the Healthcare Enterprise**

**IHE/MESA Test Tools Release  
Notes**

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Revision 11.11.0  
17-Mar-2008

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## 1 Version 11.11.0: 17-Mar-2008

Bug	Resolution
125	Could not replicate the problem, and there were no reports during the fall of 2007. Consider this one closed unless there is new information.
163	PD Consumer test was run from the wrong folder, so the configuration was not properly done. Advised user to move to the proper folder.
171	Repaired format of callback phone numbers in all radiology and cardiology messages.
178	Changed the encoding for the country from JAPAN to JPN to match ISO 3166
179	We believe the XPN issues are escape sequences for Japanese character sets.
180	XCN encoding in 231.104.o01.hl7 was incorrect. We moved DR prefix to the proper position.
182	Japanese character encoding is intended for Japanese implementation testing
190	Repaired documentation for Acquisition Modality test 231
214	Removed the requirement in PDQ queries to include QPD 8.5. That was a mistake in the tests. PDQ queries should only include QPD 8.4
216	The XRef Mgr issue was really an installation problem. No fix to MESA tests needed.
217	Fixed the message that labels the merge request. It is an A40 and not an A04 is printed in the runtime instructions.
219	Fixed the document UIDs in tests 20308 and 20309

### 1.1 Other Updates

1. Repaired the format of PDQ queries. The MESA tests had the incorrect format for QPD-8. We were including component 5 (“PI”) and should have only specified component 4 (Assigning Authority) per the ITI specifications.

## 2 Version 11.10.0: 10-Dec-2007

### 2.1 Bugs Listed/Fixed on MESA Flyspray System

Bug	Resolution
77,96	Changed the TLS server to send output to the terminal and to a different log file (one for the registered case, one for the expired case, one for the unregistered case). Updated the test instructions.

### 2.2 Other Updates

2. Modified Secure Node test 1221, 1222, 1223. Created a new TLS server with output that goes directly to the terminal emulator and not to a log file.
  3. Added these tests for PIX Managers:
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- a. 10511
- b. 10515
- 4. Added these tests for Patient Demographic Consumers
  - a. 11316
  - b. 12103
- 5. Changed the MESA syslog server to better handle shutdown messages. There was a side effect from a change back in April when we started to better manage TAG values.
- 6. Fixed a typo in PDQ query 11320. We had the wrong string for specifying the limit on the query.
- 7. Updated the TLS tests 1221, 1222, 1223. Wrote new instructions and separate scripts to start the MESA servers. The logfile that was supposed to be generated has been replaced with a different mechanism. Please re-read the test instructions.
  - a. Added the new start scripts that are referenced in the instructions. We wrote the instructions before the scripts were published. That was confusing, and our fault.

### 3 Version 11.9.0: 9-Nov-2007

#### 3.1 Bugs Listed/Fixed on MESA Flyspray System

Bug	Resolution

#### 3.2 Other Updates

- 1. Changes to PIX and PDQ tests.
    - a. Modified input ADT and query messages to include the more complete version of the patient ID. Many of the tests were inconsistent. You should now see consistent representation: 123^^^HIMS2005&1.3.4...&ISO^PI. There remains one test where we send different formats of the Assigning Authority to simulate what you will likely see in the field.
    - b. Changed the telephone number format in the ADT messages. We were using illegal formats. The format we use today is a deprecated format, so still have work to do to get to the right format.
  - 2. Changed evaluation of PIX Manager responses to also check the value in PID 3.5. For the existing MESA tests, this will be 'PI'.
  - 3. Updated the output of PD Supplier (PDQ) tests 11325 and 11335. They now generate XML output like other tests.
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4. Updated PIX Manager PIX tests 10501, 10502, 10503, 10506. These now generate XML output like other tests.
5. Added PCC Content Creator Tests:
  - a. 40109
  - b. 40110
  - c. 4011
  - d. 40112
  - e. 40113
  - f. 40115
6. Updated the HTML file used as a model for RID queries. The dates in the file had expired, so we updated to current dates (through the end of 2008).
7. Software update to MESA PIX Manager to include Identifier Type in PID 3.

## 4 Version 11.8.0: 2-Nov-2007

### 4.1 Bugs Listed/Fixed on MESA Flyspray System

Bug	Resolution
129	Test 283: Modified documentation and requested that the user run the DVTK tools directly. Our scripts added no value and caused problems.
109	TCE Test Results are failing for Clinical Trial Export vs Teaching File Export

### 4.2 Other Updates

1. Changes to PCC Content Creator Tests
    - a. EDR: Modified test 40101 to use schematron from TF, not last year's schematron. Please use this version.
    - b. XPHR: Deprecated 40100. This is now replaced by 40107 and 40108.
    - c. XPHR: Added tests 40107 and 40108 to release.
    - d. EDES: Added tests 40114 and 40117.
  - 2.
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## 5 Version 11.7.0: 29-Oct-2007

### 5.1 Bugs Listed/Fixed on MESA Flyspray System

Bug	Resolution
159	ATNA TLS test: servers not included Agreed, the build was flawed
158	PDQ Change Proposal 203 Changed MESA testing to require PID.5.1.1 and PID.7.1 for PDQ queries
156	Database (perl) scripts cannot connect to database server (SQL Server 2000) Added another environment variable: MESA_SQL_SERVER_NAME and updated perl scripts to use that when invoking isql (isql -S %MESA_SQL_SERVER_NAME%)
155	Compare_dcm utility with person name We did not properly handle trailing ^ charaters for attributes of type PN. Now repaired.
149	Evaluation of tests 11320 and 11325 halts with error Repaired in this release.
143	All TCE tests (3001 + 3003) for all actors (selector, manager, receiver) script error Fixed the scripts to understand the command PROFILE that is now in the test descriptions
138	PID 2.3.1 segment not conformant Decided not to fix this under the theory that other implementations will send segments with extra fields. Receivers should be accommodating of such implementations.

### 5.2 Other Updates

1. For Windows versions, added a new environment variable.  
MESA\_SQL\_SERVER\_NAME is the name of the SQL server instance that you installed. This is passed to isql as -S %MESA\_SQL\_SERVER\_NAME%. Some of our perl scripts did not uses that before. This is not the name associated with the ODBC connection. We're sorry that we have two different ways to name the connection to the database (one for applications using ODBC and the other for scripts that use isql).
  2. Modified tests for Acquisition Modality actor. The output to be loaded in Kudu is now an XML file rather than the txt file seen in previous years. If you have not yet started your modality tests, please switch to this version. If you are in the middle of your tests, you are NOT required to use this update.
  3. Repaired Order Filler test 109. It would not run to completion.
  4. PDQ tests for Consumer and Supplier modified to support CP 203. The required syntax to search by Last Name is PID.5.1.1. The required syntax to search by DOB is PID.7.1.
  5. Fixed Teaching File tests. These should now run properly and evaluations should work.
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6. Added scripts for NM Image Display tests. We were missing 24xx/load\_img\_mgr.pl. Updated documentation on Image Display tests. Some of the NM tests are not implemented.
7. Repaired EVN segment in PAM messages. We mistakenly placed '01' in EVN-3.

## 6 Version 11.6.0: 26-Sep-2007

### 6.1 Bugs Listed/Fixed on MESA Flyspray System

Bug	Resolution

### 6.2 Other Updates

1. Updated Patient Demographic Consumer tests for the PDQ profile (113zz) to use XML formatted output rather than the simple text output.
2. Updated Patient Demographic Supplier tests for PDQ profile (113zz) to use XML formatted output rather than the simple text output.

## 7 Version 11.5.0: 21-Sep-2007

We used to list the open bug reports for each release. That was taking up too much room. The list of open bug reports is now found at the end of the document in a separate section.

### 7.1 Bugs Listed/Fixed on MESA Flyspray System

Bug	Resolution

### 7.2 Other Updates

1. Repaired test 313. We were still missing the text file that is used to drive that test.
  2. Added Eye Care IM test 50401. Updated MESA STORAGE – A for IM test 50401. You will need to obtain the A\_11\_5\_0 version of MESA STORAGE.
  3. Repaired a bug in IM test 50411. We failed to load the MESA IM with proper test data to run that test.
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## 8 Version 11.4.0: 14-Sep-2007

### 8.1 Bugs Listed/Fixed on MESA Flyspray System

Bug	Resolution

### 8.2 Other Updates

1. Updated the database table definitions for PIX and PDQ tests running on Windows systems. If you use the MESA tools on a Windows box, you will need to drop and reinstall the database tables. This is documented in the Installation Manual.
2. Updated Order Filler tests to use new XML output scheme. The standard 103/grade\_103.txt is replaced by an XML result: 103/mir\_mesa\_103.xml. This was accomplished for these Order Filler tests:
  - a. 151
  - b. 152
  - c. 153
3. Repaired the test steps for test 50004. There was an incorrect pointer to a folder in the storage area.

## 9 Version 11.3.0: 11-Sep-2007

### 9.1 Bugs Listed/Fixed on MESA Flyspray System

Bug	Resolution

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## 9.2 Other Updates

1. Repaired a bug in the of\_schedule program relating to database access. This was preventing the Radiology and Cardiology workflow tests from running properly (105, 131, 132 and lots of others). This bug was introduced at the April release.
2. Updated Image Manager tests to use new XML output scheme. The standard 103/grade\_103.txt is replaced by an XML result: 103/mir\_mesa\_103.xml. This was accomplished for these Image Manager tests:
  - a. 103
  - b. 105
  - c. 109
  - d. 131
  - e. 133
  - f. 134
3. Updated Order Filler tests to use new XML output scheme. The standard 103/grade\_103.txt is replaced by an XML result: 103/mir\_mesa\_103.xml. This was accomplished for these Order Filler tests:
  - a. 103
  - b. 105
  - c. 107
  - d. 131
  - e. 132
  - f. 133
4. Updated MESA test 1 for all actors to use new XML output scheme.

## 10 Version 11.2.0: 6-Sep-2007

### 10.1 Bugs Listed/Fixed on MESA Flyspray System

Bug	Resolution

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## 10.2 Other Updates

1. Changed database schemas to support Eye Care queries at the DICOM SOP Instance Level. Users should drop and create database tables per the instructions in the Installation Guide.
2. Repaired Modality tests 50201, 50202, 50215. The documentation indicates the output is in an XML file. That was not implemented before this release.
3. Added these Eye Care tests for Image Manager actors:
  - a. 50404
  - b. 50405
  - c. 50411
4. Generated new digital certificates for use with TLS tests.

## 11 Version 11.1.0: 21-Aug-2007

### 11.1 Bugs Listed/Fixed on MESA Flyspray System

Bug	Resolution

### 11.2 Other Updates

1. Repaired Evidence Creator evaluation for test 301. The scripts failed to create a scratch directory that was needed.
  2. Evaluation script for Eye Care test 50218 was missing a perl module required to complete the output. This is now added.
  3. Updated PCC Content Creator tests
    - a. 40105: Used schematron from PCC TF; still incomplete awaiting feedback from committee.
  4. Added PCC Content Creator tests:
    - a. 40311
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## 12 Version 11.0.0: 14-Aug-2007

### 12.1 Bugs Listed/Fixed on MESA Flyspray System

Bug	Resolution

### 12.2 Other Updates

1. First release of software for Eye Care 2007. Includes test 50218 for Report Creator.

## 13 Open Bug Reports

### 13.1 Open Bug Reports on INRIA Fly Spray System

Bug	Title
20	MESA tools installation improvements
24	Spatial Reg and BSPS objects missing attributes (Fusion profile)
26	add support for Hemodynamic Waveform Storage to MESA Img Server
29	images for mammo display test plan not included in distribution
30	10.4.0 Image Display Test 501 does work for system only support US
34	RAD Test 151: evaluation is not done correctly: Added note to Flyspray asking for data from submitter
40	Case 153: Grade for AIS(3) not correct
45	Image Mgr Test 111 script error
48	Tests 414 and 1701 show cmove failure even though move succeeded
50	IM Tests Document minor issues
55	MSH-9 length checking incorrect in a few tests
59	RAD: Identifiers in MESA Scheduling messages not synchronized with runtime creation
60	Mammo Image Changes
62	Eval script of IM test 134 fails to find IAN received by MESA_FILLER
63	IM test 1401 – no such test
64	IM test 1412 – internal script error

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65	IM test 1411 – no such test
66	IM test 1414 – no such test
67	IM test 1421 – internal script error
68	IM test 1422 – internal script error
69	MESA_TARGET/bin/cfind_resp_evaluate relies on some order of C-FIND RSPs
70	RM test 1602 – no such test
71	RM test 1603 – missing Study Instance UID in reference GPWL Find RSP
77	Tls_server.exe pegs cpu to 100%
78	PID-7 length checking wrong in a few tests
79	PID-3 value check incorrect in some PD-Supplier tests
83	Eval script for test #3003 produces unwarranted errors
84	Evaluation script for 11143 failing
85	Test 11190 show allow for more event outcome values
86	Evaluate script for test case 1222 fails to generate HTML form of audit event
87	Mammo test 4052 image has wrong pixel padding
91	test 1221 & 1222 ( 11141 , 11142 ) - Asking submitter for clarification
92	test 20108 eval script missing
96	tls_server for test 1221 does not generate tls_server.txt file
100	MESA Post Processing tests broken
101	MESA Reporting Work tests broken
103	Modality test 2225 missing evaluation script
110	Order Filler test 132 is broken
111	Test 20710
112	Person Name issue in test 3512
113	Enhancement request for code version checking
114	Tight check for encoding of coding scheme designator
119	IM test 20106 – internal script error
125	PDQ Supplier, test 11311 broken (Sent question back to submitter)
126	send_hl7 goes infinite loop? (Sent question back to submitter)
128	TEST 20710
135	Importer test 3725 – remove check for some attr.
136	Evaluation script for tes t1223 does not support IETF format
140	Test Description 3725 Incorrect
141	Correction and Bug in 1412 Report Creator
144	Test 103 – false error on PID-18 check
145	Document for ID Test 552 is missing
146	Order Filler Test 153 mixes up order codes

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147	Importer Tests 3725, 3726, 3740, 3742 broken on XP
150	Card TC 20108 Actor;OrdeFil script stops execution
152	Eval script of SN test 1103: ATAN Audit: Actor Specific Audit Message fails
160	Sample HL7 message contains extra CRLF in ED data

## 13.2 Open Bug Reports on MESA Bugzilla System

Bug	Title
9	The software for tests 505 and 506 are both incomplete and will be incomplete with the 5.5.0 release. We have updated the documentation to make this more clear. We will complete the test software and correct the documentation in a future release.
18	Removed 0028, 0120 attribute check on "For Processing" image.
21	MESA SR evaluation has difficulty when the tools encounter extra content items. To be repaired during Y5 development process.
33	Report creator test 1511 is incomplete
64, 65	Will be fixed as part of the process of changing scripts to use a common test engine rather than individual scripts.
67	Part of IHE-Europe extensions. We need to work with IHE-Europe to add as part of the baseline distribution.
68	Part of IHE-Europe extensions. We need to work with IHE-Europe to add as part of the baseline distribution.
71	Waiting for feedback from the person who issued the report.
72	User requested other transfer syntaxes for MESA servers.
99	
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144	ITI test 10133 is not implemented. This will be addressed in a later release.
147	Display test 10143 is not implemented. This will be addressed in a later release.
153	Need some further help from the system performing the test.
157	NM Evidence Creator tests are not ready
160	Order Filler test 100 is deferred
164	No stress echo test data
170	Waiting for feedback from issuer
181	Error message about modalities in study is misleading, but this will not be fixed until after Jan, 2005.

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183	Image Manager test 111 is not implemented and will not be implemented before Jan, 2005.
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198	Tests 151, 152, 153 were not included. 151 was added; 152 and 153 still require work.
199	
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205	Need to rethink tests 10145 and 10146. IE always wants to send */* in the accept field, so it is hard to force a failure by configuring to only accept JPEG or PDF documents.
207	
208	
212	Error when testing ADT A04 for ID Source
214	Modality test 1305 missing
215	PDC Test 11330 is not implemented
219	Need to implement Reliable Syslog. That will not happen until at least May 2005.
220	Needs to be removed or redefined. There is no ATNA event defined for System configuration.
221	Eric Poiseau cannot post bugs to bugzilla system
223	test spec for 10144 - RID/ECG
226	incorrect implementation of type handling RID 10142, 10144, 1
235	
242	Need to update Modality tests to not assume automated protocol handling
243	Accept field is ambiguous in TF. Need CP resolution to close this issue.
246	Need some additional feedback from the user.
298	Installation of RIS Mail
299	MESA test #281 DICOM servers need to support more SOP class
300	Note for next year – ED – CARD 1402 – 1404
306	Trouble with DVT 2.1 (test 283)
308	PID Segment is HL7 v2.4 and not v.2.3.1
310	Secure Node tests – 1221 etc. not responding to initial client
311	MESA Scripts need better logging when they have configuration
314	Order Filler evaluation for 132 flawed

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315	MESA 2006 - add EC actor to Rad SWF and Card Cath and Echo
316	cmove proposes Storage SOP Classes to Q/R SCP Service and re
323	NAV test 12903 - something wrong with using the scheme file?
324	NAV signature xml file can not be validated – 12903
326	xds_ms_doc_source test 12503 is missing. Will be added in a later cycle; will not be ready in Dec 05
328	Typos in Image Display Consistency tests VLUT_08, VLUT_P10
329	MESA test 103 , use different AE titles ?
330	Modality PGP Test 106 is flawed
331	MESA 8.8.3 , Test 111 not work's
333	Evaluation problem, but this may be a configuration issue at the user's site.
334	Schematron issue: need to resolve namespace issue
349	tls handshake error
350	eval_client_1222.pl uses last_log.txt instead of last_log.xml
351	test 1223 not ready for IETF schema
354	Display 20309 - Mesa information source sends incorrect resp; attached a jar file with extra debugging information to try to find the MESA bug.
355	Display 10146 not ready with this software release; needs to be updated and corrected; will not be completed in December, 05
356	TAG is not respected by the syslog server - test 11101; need to repair MESA syslog server and manage the TAG data; also need to construct a test for Audit Record Repositories to see if they can take that data.
357	OF 111 Fails to send gpwl query to itself
358	Eval_20530 failes since SOP Instance UID has spaces: The real issue is that MESA should not accept DICOM Composite objects with bad UIDs; will repair MESA servers to reject those objects before we ever get to evaluation scripts.
359	IETF Audit record schema is inconsistent
360	20530 - double quotes needed: The real issue is that MESA should not accept DICOM Composite objects with bad UIDs; will repair MESA servers to reject those objects before we ever get to evaluation scripts.
361	CSR validation tool returns false negatives
362	XDS-MS validation tool reports false negatives
366	PD_SUPPLIER TC 11365 appears to hang
367	Problems with the hl7_rcvr
369	Connectathon test issue - CARD- DRPT test case
371	Problem with ACKA28
372	Image manager test 111 is blocked and there no eval
373	Runtime scripts should test to make sure database is running
378	Evaluation ADT 103: MESA expectation for PV1 data in A08 is likely flawed. Need resolution from the Radiology Technical Committee.
379	Problem with radiology test 107

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	Referred questions back to the submitter.
381	Test 131 PID-7 check too restrictive
382	Tests 103: PID-10 is R2 in ADT messages
383	mesa_xml.pm problems Our JAVA runtime environment and documentation need repair.
384	testscript 1701 (imgmgr_swf.pl 1701) failes in TRANSACTION 1 Waiting for feedback from submitter; we think this was solved in a previos release.
385	Img Mgr Test 411: Time format check too restrictive
388	2 byte char test, and other funky characters (Japanese characters are tested; we do need to add tests for European names).
390	imgmgr/134/eval_134.pl prompts "MESA IAN directory does not
391	Media Creator Tests fails under Linux/Unix with pure ISO9660
393	Tests 103, 107, 20106: ERR: MSH 4 Sending Facility, test val
394	Test 20106: ERR: MSH 5 Receiving Application, test value doe
395	Test 103, 107, 20106: MSH 6 Receiving Facility, test value d
396	Tests 103, 20106: ERR: PID 5 Patient Name, test value does n
397	Test 20106: ERR: OBR 4 Universal Service ID, test value doe
398	Tests 20101, 20102, 20106 (and maybe others): DSS_MESA vs. E
402	Test 20101: [RAD-4] is expected too late. Referred back to issuer for claification.
404	Tests 103, 20106: ERR: PID 3 Patient ID, test value does not
405	Test 103: PID-18, Fields do not match
408	MESA Test 2031- there are no ecg documents
409	Error in evaluation of test 604 Referred back to submitter for more details.
410	NMI Profile, Acq. Modality Actor, test 283, STATIC Image, D Asked submitter to log bug at <a href="http://www.dvtk.org">www.dvtk.org</a>
411	NMI Profile, Acq. Modality Actor, test 283, TOMO Image, DVT Asked submitter to log bug at <a href="http://www.dvtk.org">www.dvtk.org</a>
412	NMI Profile, Acq. Modality Actor, test 283, GATED TOMO Imag Asked submitter to log bug at <a href="http://www.dvtk.org">www.dvtk.org</a>
413	NMI Profile, Acq.Modality Actor,Tests 2202-2203 - no script
414	NMI Profile, Acq.Modality Actor,Tests 2210-2217 - No script
416	The evaluation script of the 11143 (ATNA certificate exchange
418	Empty WLM query requires as result a date somewhere in the p Asked submitter for further clarfication.
419	PDQ 13311 - Inconsistency between test and evaluation Probably a MESA runtime error; not an evaluation error
420	Eval script for test case 20520 / No URL in grade_20520.txt Sent request to submitter for followup information

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421	Wrong interpretation of empty name fields in DICOM messages Asked for followup data from the submitter;
422	Time in HL7-datetime-objects has to be accepted All SWF and other scripts need to be updated to insert the current date/time. Otherwise, systems are expected to work in the past or future.
423	Documentation ("IHE Tests: Radiology Transaction Sequence" a Test documentation is incomplete and should be generated from the test data so they remain consistent. This is a longer term effort.
425	Image Creator Test 1412: PWF CT: internal error
426	Report Creator Test 1601: Internal failure
427	Report Creator RWF test 1602: internal failure

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