

# **Integrating the Healthcare Enterprise**

## **IHE NA 2007 Connectathon Fact Sheet**

Revision 1.0

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**Revision History**

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1.0	21-August-2006	Moore	Added email addresses and other links Updated table in A.5 to include PIX/PDQ V3 implementation without MESA tests Corrected errors in Appendix A to give proper due dates for Class B tests.

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## 1 Purpose of the Connectathon

The IHE Connectathon is a week long testing event managed by sponsoring organizations. Currently there are events annually in North America, Europe and Asia. The major goal of the Connectathon is to promote the adoption in commercially available healthcare IT systems of the standards-based interoperability solutions defined by IHE. The Connectathon serves as an industry-wide testing event where participants can test their implementations with those of other vendors.

The sponsors record the results of the testing and produce a results matrix that lists the Integration Profile and Actor combinations that each participant has successfully tested. These results are published and promoted by the sponsors to inform the healthcare community about the breadth of adoption of IHE solutions by industry and to encourage purchasers of healthcare IT systems to require support of IHE Actors and Integration Profiles in their requests for proposals and purchasing specifications.

Connectathon participants are encouraged to offer the IHE Integration Profile/Actor combinations they test in commercially available systems as quickly as possible. When they do they are encouraged to publish IHE Integration Statements to describe for prospective purchasers the IHE capabilities offered in these systems. IHE maintains a page of links to company sites where Integration Statements are published and encourages purchasers of healthcare IT systems to consult these documents to identify IHE-compliant systems.

A second purpose of a Connectathon is to prepare for public demonstrations at meetings of the sponsoring organizations or other medical professional societies. Near the end of the testing period, systems registered for public demonstrations are organized into demonstration groups and walked through the demonstration process. This happens after the systems have completed their Connectathon tests.

Successful completion of Connectathon testing is a requirement for participation in IHE demonstrations. Systems that do not successfully complete the required tests for an actor/profile combination are not included in public IHE demonstrations. By signing up for an IHE demonstration, the company is accepting the part of the IHE process that is the Connectathon testing.

Many vendors participate in Connectathons without any direct plans to participate in a demonstration. Even in cases where vendors are participating in preparation for a demonstration, the major goal of the Connectathon is to refine the implementation of IHE Actors and Integration Profiles in the systems being tested.

In January 2007, for the first time, the North American sponsors will combine the five-day testing event with a two-day conference. The targeted audience for this event includes vendor and provider executives, public health officials, systems implementers, purchasers, users and other stakeholders in healthcare IT systems interoperability and decision makers from the U.S., Canada and elsewhere who play critical roles in implementing regional and national health information networks. Participants in the testing process are not expected to attend or deliver

presentations associated with the Conference. Conference attendees will be offered guided tours of the testing area. These tours will be conducted and scheduled so as to interfere as little as possible with the testing process.

## **1.1 Connectathon Results**

Each IHE actor/profile combination is assigned a series of tests to perform. An actor is said to have successfully completed Connectathon testing for a profile when it has completed three instances of each test with other participants. In order to foster testing, the IHE sponsors only report those systems that have successfully completed the Connectathon tests. IHE does not report failures. This removes “risk of embarrassment” as an impediment to participation.

Participants are encouraged to refer to their participation in the Connectathon in marketing and promotional materials. The appropriate language to use is to indicate that the vendor has “successfully completed testing of <<one or more specific IHE actors in one or more IHE integration profiles>>”.

Companies are strongly discouraged from using IHE participation to make unsupported product claims, including comparisons with other vendors. Claims using such words as “gold stars,” “certification,” and “validation” are not appropriate, as the Connectathon is not a certification event and IHE is not a certifying body. Companies using references to their IHE participation in ways that, in the view of the sponsoring organizations, violate the spirit of the initiative will risk having their names removed from the official list of IHE participants.

Again, publishing IHE Integration Statements is the best way to document your products’ IHE capabilities.

## **1.2 IHE Integration Statements**

Publication of IHE Integration Statements is the responsibility of vendors. IHE will publish links to participating vendor Integration Statements but makes no claims about the validity of such statements. It is the responsibility of the vendor to provide IHE with the direct link to its web page listing the Integration Statements.

A vendor is NOT required to participate in a Connectathon in order to publish an IHE Integration Statement.

## 2 Definitions

**Sponsor:** One of the professional societies who convene/manage/sponsor the activities in a specific domain. With committees, they set the overall vision for IHE, Connectathon and demonstrations. Implementation is left to committees, participants and project managers.

**Planning Committee:** In a domain, the collection of participating vendors with sponsor representation who plan the annual cycle for a domain. This typically includes selecting the Integration Profiles to be written and developing marketing material.

**Technical Committee:** In a domain, a collection of participating vendors with sponsor representation who write the Technical Framework for that domain. May share members with the Planning Committee or have separate representation.

**Connectathon Manager:** Responsible for the overall Technical Project Management of the Connectathon. For NA 2007, these are Lynn Felhofer and Steve Moore.

**Technical Project Manager:** Responsible for Technical Project Management in a specific IHE domain. Will work with Connectathon Managers during Connectathon. For NA 2007, these are Lynn Felhofer, Steve Moore, Manny Furst.

**Connectathon Monitor:** A member of the industry who will serve as an independent tester during the Connectathon. Monitors will examine tests during real time or will examine evidence after the fact.

**Demonstration Manager:** Responsible for organizing demonstration at an annual conference. These are John Donnelly (HIMSS 2007) and Teri Sippel Schmidt (ACC 2007).

**MESA** – The set of software tools used by participating companies implementing IHE capabilities in their systems and preparing for the Connectathon. Their purpose is to provide communication partners, test data and test plans to allow organizations to demonstrate a baseline level of testing as they implement the IHE Technical Framework. Successful completion of MESA tests is a prerequisite to Connectathon participation.

**System:** A reasonable collection of IHE Actors and Profiles that one would bring to market. The definition is intentionally vague so that sponsors and project managers do not limit collections of actors. However, the term “reasonable” is used to prevent a company from registering one “system” with a combination of 20 actors and profiles to get around registration fees.

**Kudu:** A web-based Connectathon registration and management system. With the exception of email lists, most other communication and management processes are handled by this system.

### 3 Registration

#### 3.1 Connectathon Registration

Connectathon registration consists of an electronic registration system, a printed/signed contract and payment. Questions about the registration process should be sent to moores@mir.wustl.edu or felhofer@charter.net.

1. Each participating organization will register with the Kudu system (<http://ihe-kudu.wustl.edu/na2007>). This system will be open for registration from August 15 through September 14. Electronic registration closes on September 14, assuming it takes at least one day to print the contract and overnight ship the contract with payment to the RSNA.
  - a. Each organization should create one login for the entire organization/company. Use the same name that is listed in the IHE online results if possible. If not possible, use a name that identifies your organization (Siemens) and not an individual (Moore).
  - b. Add an entry to the Kudu web system for each system you wish to register. Make sure you add all combinations of actors, profiles, and profile options that you support. Correct Kudu entries (correct profiles, correct actors, correct options) are critical since these Kudu entries determine which MESA and Connectathon tests you must pass for your system.

For some actors/profiles, the Kudu web system will remind you that you are missing a required actor. The Kudu web system is not guaranteed to find all such requirements; you are responsible for that level of detail. If you find inconsistencies between Kudu and the Technical Frameworks please inform the Connectathon Managers.
  - c. You will also need to identify a technical contact (name, email, phone, Skype ID) within your company for each registered system.
  - d. You can work on your registration over a period of days; you can add and delete systems during the registration month.
  - e. Once the registration period is over, you cannot add/remove actors/profiles to your systems. Please make your selections with proper estimates on effort required to complete the work.
2. After you have completed the Kudu electronic registration, use the Kudu system to print a completed contract that lists all of your registered systems. Print the contract, have the responsible person in your organization sign the contract, and send payment to the address listed on the contract. Signed contracts with payment are due September 15, 2006.

3. Once a system is registered, a Connectathon Manager (Moore, Felhofer) will email the technical contact for that system to arrange a telephone interview. The purpose of the telephone interview is to make sure your engineers understand what their system has been registered for, and their responsibilities in all Connectathon-related activities. Telephone interviews will occur between August 15 and the end of September and are a requirement for participation.

### **3.2 Thorough vs Supportive Testing**

Most systems participating at a Connectathon register for “Thorough” testing. This means they must execute a required set of tests for each actor/profile the system supports. Each test is run with 3 different vendor partners to demonstrate interoperability.

Some participants have previously tested combinations of actors and profiles. They bring those systems to new Connectathons and do not desire to retest those combinations. However, we find it useful to the community to have those systems registered in a “Supportive” role, meaning they are available to help other participants with their testing. Supportive testing is registered on a per actor/profile basis. A system needs to register at least one combination for Thorough testing before Supportive testing will be allowed.

In order to register for Supportive testing:

1. The participant must have successfully tested the combination at a prior Connectathon (Europe, Japan, North America), as listed in the Connectathon results.
2. The participant must have a published IHE Integration Statement for the system.
3. The participant must confirm this registration with the Connectathon Project Managers (Moore, Felhofer). Participants will not be allowed to register for this role without confirmation from the Project Managers.

Supportive actors do not submit MESA test results. However, they also do not receive credit for participating in the Connectathon under the normal “completed” category. In order to be listed in the Supportive category, they need to participate in at least one set of tests rather than the normal three sets.

### **3.3 HIMSS 2007 Interoperability Showcase Registration**

Didi Davis is the HIMSS representative responsible for the HIMSS 2007 Interoperability Showcase. Questions about HIMSS Interoperability Showcase Registration should be sent to [ddavis@himss.org](mailto:ddavis@himss.org). John Donnelly is the demonstration manager and will work with demonstration participants on demonstration details.

1. Complete the Connectathon registration application as described above.
2. Obtain a contract from HIMSS ([ihe@himss.org](mailto:ihe@himss.org)). Fill in the contract, making note to list the system names using the names registered in Kudu.

3. Send the signed, completed contract with payment to the address listed on the contract.

### **3.4 ACC IHE 2007 Demonstration Registration**

Questions about ACC IHE Demonstration registration should be sent to [tsippel@acc.org](mailto:tsippel@acc.org).

1. Complete the Connectathon registration application as described above.
2. Obtain a contract from ACC ([ihe@acc.org](mailto:ihe@acc.org)). Fill in the contract, making note to list the system names using the names registered in Kudu.
3. Send the signed, completed contract to the address listed on the contract with payment.

## 4 Registration/System Requirements

Each system that is registered shall be an integrated product that:

1. is a reasonable collection of profiles/actors and
2. is a reasonable product to offer in the market.

This is a loose definition that is designed to prevent participants from registering one “system” that is a collection of 5 products to get around the registration fees. If you have questions about your specific system, contact the Connectathon Project Managers ([felhofer@charter.net](mailto:felhofer@charter.net), [moores@mir.wustl.edu](mailto:moores@mir.wustl.edu)) for interpretation.

The definition is also loose enough to provide latitude in marketing a system. There are some combinations that will be easily disallowed (“I am registering one system as a CT modality, an Image Manager and a Print Server”). The sponsors and Project Managers cannot list all allowed combinations.

The Project Managers will review each application and will have a telephone conversation with your engineering staff (see rule 3 in the “Rules” section) to make sure your staff understands the general Connectathon requirements and this requirement.

**Do NOT bring command line programs and try to pass them off as systems.**

### 4.1 Single Systems / Copy Systems

In the 2005-2006 cycle, the sponsors allowed a vendor to register a single system for the Connectathon and then bring duplicate hardware and extra personnel to complete testing. That will not be allowed for the North American 2007 Connectathon.

Participants are responsible for registering a reasonable number of actor/profile pairs for a single system and for completing all required tests. The sponsors do not guarantee that a registered system will have all of its tests reviewed by Connectathon Monitors or Project Managers. These are shared resources that have limits.

If you feel that you need extra hardware and extra staff members, you are free to register a second system at the full registration price. There will be no discount offered.

### 4.2 Middleware Shall Not Be Registered

The IHE Profile/Actor combinations are targeted toward end applications that users can purchase. The expectation is that those applications perform clinical functions and that IHE supports communication between those applications.

Middleware is an important part of the industry, but middleware applications shall not be registered for testing. If you are a middleware vendor, you need to partner with some other vendor and bring a combined “product” to the Connectathon for testing.

Each registered profile/actor pair should be able to support an IHE Integration Statement that refers to a product (maybe beta, hopefully production).

#### **4.2.1 Past Examples of Middleware that was Disallowed**

These are examples of software that were not allowed to register/test at Connectathons.

1. A PDQ Client that had a command line interface to query the PDQ server and print the results to the terminal standard output. This was not integrated with a product.
2. An XDS broker that had a private interface for accepting documents from third parties and submitting those documents to a Document Repository. It did not pass the XDS definition of a Document Source that “creates documents”.
3. A Report Manager in Radiology SINR that had a command line interface for setting report status to final and for modifying reports. This was not an integrated product.
4. A RID Display actor that was only a standard Web browser. The user wanted to enter the RID query in the address bar as the user interface to the system.

## **5 Connectathon Fees**

### **5.1 General Fee Structure**

1. A company pays fees based on the number of registered systems and the number of domains represented by those systems.
2. The first system and domain shall incur a charge of \$8000.
3. Each additional system shall incur a charge of \$4000.
4. The first system includes one domain (Cardiology, ITI, PCC, PCD, Radiology). Each additional domain shall result in a charge of \$4000. Exceptions are as noted.
  - a.
5. Each system that is registered shall be a reasonable combination of actors/profiles that is not configured to circumvent these rules.
6. Each system that is registered shall include Connectathon registration for two staff members. Each additional staff member shall be charged to the company at the rate of \$50 for each day of Connectathon participation.

## 6 Profiles to be Tested

The January 2007 North American Connectathon will test IHE Integration Profiles from the following domains:

- Cardiology
- IT Infrastructure
- Patient Care Coordination
- Patient Care Devices
- Radiology

The Radiology domain has deprecated SEC: Basic Security; it will not be tested at the Connectathon. Implement the ITI ATNA profile.

Other domains have profiles in Final Text or Trial Implementation versions. Some profiles are still works in progress (or pick your favorite term) that are not ready for Connectathon testing. Please refer to the two tables in Appendix A which list

- Profiles to be tested
- Profiles/works in progress not to be tested

If you do not find your favorite profile on the list, you need to contact the Connectathon Managers (Felhofer, Moore).

## 7 MESA

MESA is the term used to refer to test software that is distributed to vendors in advance of the Connectathon. As discussed in the rules, participants are required to run MESA tests in advance of the Connectathon, successfully complete/pass the tests and submit logs indicating success by published dates. If you do not pass the MESA tests for your actor/profile combinations, you will not be allowed to participate in the Connectathon. The purpose behind this is to make sure you prepare for the event and do not waste the time of your peers with things you could have done in your laboratory.

Historically, the MESA software was created by one organization and distributed and supported by that organization. Now that IHE has grown into more domains, the model for software development has changed, as has the support mechanism. This table lists the organizations that have taken on the responsibility for support for the MESA tools (by domain/profile).

Domain	Profile	Organization	URL	Contact	Email
ITI	XDS	NIST	See Important Web Addresses	Bill Majurski	<a href="mailto:bill@nist.gov">bill@nist.gov</a>
ITI	ATNA	MIR	See Important Web Addresses	Steve Moore	<a href="mailto:moores@mir.wustl.edu">moores@mir.wustl.edu</a>
ITI	XDS with TLS	NIST	See Important Web Addresses	Bill Majurski	<a href="mailto:bill@nist.gov">bill@nist.gov</a>
PCD	All		See Important Web Addresses	Manny Furst	<a href="mailto:efurst@imp-tech.com">efurst@imp-tech.com</a>
All other		MIR	See Important Web Addresses	Steve Moore	<a href="mailto:moores@mir.wustl.edu">moores@mir.wustl.edu</a>

### 7.1 MESA Test Process

All participants are required to run a series of software tests in advance of the Connectathon. These are designed as auditing tests to make sure you have prepared in advance; these are not full test suites or certification tests for a profile.

The general model for the MESA tests can be described as follows:

1. A number and name are assigned to each test. Tests cover a use case or requirement that is found directly in a Technical Framework.
2. Each combination of actor/profile pairs will be assigned one or more tests to complete in advance of the Connectathon. These requirements are listed in the Kudu web system.
3. The same test number/name may be reused for different actors in the same use case in the same profile (i.e., testing both the source and target of a transaction). Test names/numbers are not reused across profiles or domains.

4. Each participant is responsible for downloading the appropriate MESA software (remember the table) above and installing that software on a system in their laboratory. See the “Important Web Addresses” section below to find the URLs to find the appropriate MESA software.
5. Each participant runs each test as documented. Each test should have an evaluation script or other mechanism for generating a result log or success log. (In some cases, the log may be stored on a remote system if administered remotely, e.g., by NIST). Each participant is responsible for capturing the result/success log and submitting that file to the Kudu system.
6. Each participant is required to submit results for all listed tests. Each participant is required to complete all tests with “0 errors” or other indications that the tests are completed successfully. Participants are not to submit test results with known errors.
  - a. In some cases, the tests will have a bug that you will uncover. For example, some tests may be looking for an HL7 formatted name (WOLF^CHARLES) and your system may send a legally constructed alternative (WOLF^CHARLES^^). Exercise some judgment when reading the MESA results. Post bugs for these erroneous reports, but you may submit your results with annotations to help guide the Project Managers who perform grading.
7. Participants are given a bugzilla web system to log bug reports on the MESA tools. The tools are our best effort, but we make mistakes or misinterpret the Technical Framework. If you find a significant error in the MESA tools, you are required to submit a bug report and not just declare the test broken. By submitting a bug report, we can fix the problem and reissue the software.
8. Each participant is required to submit test results by the published deadlines. Failure to do so will lead to disqualification from the Connectathon. That is, you will be told not to attend with no refund of fees.

## **8 Network Description**

This will be provided in a separate document to participants.

## 9 Connectathon Test Process

The Connectathon follows this general model:

1. Participants should arrive at the location the evening before. Come to the site on Monday morning at 8:30 to find your boxes. Uncrate your boxes and connect your equipment to the network.
2. Connect to the Kudu web tool using the published IP address. Run several “tests” as dry runs before the official start time (11:00).
3. At 11:00 on Monday, all practice tests that you have run are removed from the Kudu web tool. There will be an announcement in advance of this step, and then the database will be cleared. The Connectathon is then open.
4. Use the Kudu web tool which will list potential test partners for tests you need to run. If a potential partner is busy with another test, they will not show up in your list at that moment.
5. Most of the tests found in Kudu are unit tests that involve an actor by itself or an actor with one partner. Some tests do require three actors. Experience has taught us to minimize the number of three-actor tests as it is hard to coordinate three people (must less four).
6. Find an idle partner and contact them (walk over to their table, call with Skype – see Section 13). If they have time to test with you, one of you will start the test in Kudu. This will lock both systems in the database so others should not interrupt you. Complete the test and mark the test as completed. An electronic worklist is used in Kudu to signal a Connectathon Monitor to come over and examine your test results.
  - a. It is considered bad form to use Kudu to find a test partner and to lock that partner with Kudu without asking them first. It is also bad form to just start sending messages to someone and then walk over and ask “Did you get that XXX that I sent you?” The normal and expected Connection response is a blank stare.
7. The Connectathon Monitor may ask you to run the test again or may ask to see logs as evidence that you completed the test. Connectathon Monitors may not visit you for several hours after you complete your test. Make sure you have stored your log data (e.g., using the Kudu chat window) so that you can quickly reproduce your results for the Connectathon Monitor.
8. After you complete a test, go on to start another test. You may find it efficient to use the same partner to run several tests in succession.
9. At the end of Tuesday, Wednesday and Thursday, the Connectathon Managers (Moore, Felhofer) will examine the test results and determine which systems have successfully completed testing for actor/profile pairs. These results are posted in Kudu. You should

- examine the results in the morning to determine your plan for that day and the remainder of the week.
10. The format of the Connectathon changes on Thursday at noon. At that time, all systems registered for demonstrations will turn their attention to rehearsal/testing for those demonstrations. If you are a demonstration system and have not completed your unit testing, you may be barred from demonstration. If you have one more instance of a test to complete (i.e., you have two of the three you need), the demonstration rehearsal will count for the third test, assuming you have not already tested with your demonstration partner and recorded results.
  11. Systems who are not part of demonstrations will be gathered by a Connectathon Monitor and placed in a larger group test to exercise the full set of transactions in a profile. Participants should not expect to have much time after noon on Thursday to complete unit tests; have those done by Thursday morning.

## **10 Connectathon / Demonstration Linkage**

As mentioned above, the Connectathon is an IHE requirement for participating in a sponsored IHE demonstration. Each participating system must successfully complete all required tests (three instances each) as a requirement for participation.

Some demonstrations may place other requirements on participants that are not explicitly found in a Technical Framework. The HIMSS Interoperability Showcase may place some requirements on your system for patient identification management that are not defined as prerequisites of other profiles. For example, you may be required to support PIX or PDQ.

It is your responsibility to determine these extra requirements the Demonstration Managers (Donnelly, Sippel Schmidt). If these require extra profiles that you had not previously considered, you must register them in Kudu and perform the appropriate tests. Connectathon Managers (Moore, Felhofer) are not monitoring those requirements; they are your responsibility.

## 11 Time Management

The Sponsors and Project Managers will not hold the Connectathon open for extended periods in the evening to accommodate your testing. You are responsible for managing your time to make sure you complete your tests. Here are some suggestions:

1. Read the Connectathon test plans in advance of the Connectathon. It is our goal to publish at least 30 days in advance. This will help you understand your requirements and also give you the chance to correct any ambiguous statements.
2. After the configuration deadline passes (Dec 1), load configuration data for all possible test partners in your system before shipping to the Connectathon. There is no reason to configure systems on site. Yes, some poorly prepared individuals will change their configuration on site. We cannot prevent that, but you can be prepared.
3. Make an honest assessment of the tests you need to complete before you arrive and reconsider this at the end of Monday, Tuesday and Wednesday. We will not allow you to add actors/profiles at the Connectathon. However, it is common for testers to realize mid-week that they cannot complete all required tests. If you come to that conclusion, work with the Connectathon Managers (Felhofer, Moore) to remove those combinations from Kudu. That will prevent other partners from pestering you about those actors.

Connectathon Monitors will do their best to examine your test results, but there is no guarantee we will evaluate all results. In fact, we know it is not possible as many tests are completed Wednesday and Thursday and we cannot keep pace. Our best advice is that you should be as prepared as possible and try to complete tests on Monday and Tuesday. These are better days to get assistance from Connectathon Monitors.

## 12 Connectathon Rules

The golden rule is to work in a cooperative manner and respect your peers. The fine print rules are:

1. The Connectathon is hosted by the sponsors and is a considerable burden to their staff. Please be considerate of the sponsors during the week. Procedural problems or complaints can be raised with Chris Carr of the RSNA or Steve Moore.
2. Registration is open from August 15 through September 14. Participants are charged fees depending on the number and types of systems registered (see definition above). Technical Project Managers will review applications to make sure that participants do not attempt to circumvent the intention of the registration process by loading up actors.
3. Each system that is participating is required to have a technical representative participate in a telephone interview with the Connectathon Managers (Moore, Felhofer) during the period of Aug 15 through Sep 30. The purpose of the telephone interview is to make sure the participant's system has a reasonable combination of actors/profiles, that the registered system includes all profiles required (e.g., XDS requires ATNA, CT), and that the participant understands the Connectathon rules and intentions.
4. In previous years, a participant was allowed to bring a copy of a registered system to help the participant complete more Connectathon tests. This practice will not be allowed this year. If your system has too many actors/profiles to test, you need to register another system (according to the Connectathon fees) or lower your expectations.
5. Some profiles list other profiles as pre-requisites (e.g., XDS requires ATNA). Participants are responsible to implement all such required profiles and for proper registration in the Kudu web system. The Kudu web system will list some of those requirements, but might not have all dependencies. Those dependencies are your responsibility, and you will be required to run those tests at the Connectathon.
6. Connectathon Managers are not responsible for making sure your system completes all of its Connectathon tests. We will attempt to assist you, but you are responsible to manage your own schedule and to remove actors/profiles in the event that you run short on time.
7. Some profiles are considered "at risk" if there are not enough participants registered. It is your responsibility to monitor the at risk profiles. Those profiles might not be tested if subscription is too low.
8. No integration profiles, actors or options will be added to the Kudu web system at the Connectathon. Participants will be allowed to add these before November 1, 2006 at the discretion of the Project Manager. In general, obvious combinations will be allowed ("I registered for Radiology SWF and forgot PIR"). Participants wanting to "sneak in" new functionality will not be allowed. Participants will only add combinations to existing systems and will not be allowed to add new systems.

9. Kudu provides you with the configuration details you will need to participate in the Connectathon. Thus, Project Managers will not answer these questions at the Connectathon:
  - a. What is my host name?
  - b. What is my IP address?
  - c. What is the default gateway?
  - d. What is the DNS?
  - e. Where are my test partners?
10. During the Connectathon, participants should arrive on time for all meetings. The list of meetings will be published later. Given the size of the group, managers cannot spend their time reminding participants of the time.
11. The schedule for eating lunch will be posted at the Connectathon. Please respect the schedule so that your testing partners can locate you when you are “on duty”.
12. Connectathon test schedule is:
  - a. Monday 08:30 – 11:00 system setup
  - b. Monday 11:00 – 17:00
  - c. Tuesday 08:30 – 17:00
  - d. Wednesday 08:30 – 17:00
  - e. Thursday 08:30 – 17:00
  - f. Friday 08:30 – 12:00

Managers need time to review daily problems. Please leave the area at the end of the testing period each day. If you need to perform more development, bring a laptop or other system and work in your hotel room.

13. If you require special network configuration, contact Steve Moore by December 1, 2006. Steve will put you in contact with the network group. You may be required to arrive early at the Connectathon (Friday, Jan 17) to perform special configuration.
14. Each system to be tested shall be staffed for the entire duration of the Connectathon (Monday 11:00 – Friday 12:00). Connectathon participants shall be technical staff able to configure, test and troubleshoot their system and produce evidence of tests as requested by Project Managers. One person shall not serve as the sole technical contact for more than one system. Bring qualified personnel!
  - a. Do not bring unqualified personnel. The space is limited; do not bring other people who will merely sit around and watch.
  - b. Do not train your employees on the equipment at the Connectathon.

15. Project Managers understand the IHE Integration Profiles, but may not necessarily understand your product or your specific market niche. Please constrain your conversations to Project Managers using the language of the IHE Technical Framework whenever possible.
16. Individual participants will understand their products better than the Project Manager, but the Project Manager will usually understand a larger picture than the participant. This larger picture may include other participants who need to test a feature, or problems that have been noticed. In general, follow the directions of the Project Manager and do not try to steer the manager to fit your needs.
17. Policy decisions shall be made only by domain Technical Project Managers (Felhofer, Furst, Moore). Many of the Connectathon Monitors who have volunteered to evaluate tests will not understand the full implications of IHE policies; submit policy questions by email to [felhofer@charter.net](mailto:felhofer@charter.net) or [moores@mir.wustl.edu](mailto:moores@mir.wustl.edu). If you ask a policy question during the Connectathon, the likely response will be “Send an email to [xxxx@yyy.zzz](mailto:xxxx@yyy.zzz).” Do not expect immediate responses to policy or similar questions during the Connectathon.
18. The Connectathon is not the time to review the test plans or to suggest changes to the overall test process. Participants should review test plans and propose changes in advance of the Connectathon. If there are Connectathon process problems, please see Steve Moore for discussion. The answer during the Connectathon week is likely to be “send me an email”. Changing test plans or process is difficult during that week; communication with 200-300 participants is challenging.
19. The Project Managers will communicate with participants in English. We understand this is not the first language for many participants. If this presents an issue, please bring a staff member who can assist in translation. If your members are better at reading English, please bring notepads so we can write instructions.
20. Participants will have signed a non-disclosure agreement prior to arrival. Participants are not to use the Connectathon to gain competitive knowledge of competitor systems. Wide-view photographs will be allowed. Close-up photographs of any system will not be allowed, even of your own system. We cannot always tell who owns which system, so we will apply a blanket rule and prohibit all close-up photographs unless taken by a demonstration manager.
21. Participants will assist other participants during the testing process. Even if you are convinced the problem is with “the other system”, the Project Managers will require you to help with testing and some debugging. Project Managers will assist in determining reasonable efforts.
22. Kudu helps participants to determine how many tests are required to “complete” the Connectathon testing for an Actor/Integration Profile. Project Managers will score systems using the Kudu web tool, but will not spend time asking participants to review the score card.

23. Participants who feel they are unfairly judged or treated by a Project Manager have two methods for appeal:
  - a. Contact Steve Moore first for review/appeal/discussion. Steve Moore is responsible for the overall Connectathon management.
  - b. If you are not satisfied with your first review, you can ask for review by a committee of sponsor (ACC, HIMSS, RSNA) staff and volunteer members. Again, contact Steve Moore to arrange for review.
24. In general, systems are required to pass 3 instances of each required test. Each instance will be performed with a different partner from a different company. A system is not allowed to test with a partner from the same company as one of the 3 systems. In the event that fewer test partners are available, Project Managers will make appropriate allowances.
25. Friday is used for completing demonstration tests and to complete any unit tests or larger system tests needed for a system to successfully complete testing. If a system has not completed at least 1 instance of a test by Thursday evening, Project Managers will not validate the 3 instances of that test on Friday. That is, you need to make sure you get through at least one instance of each test before Friday to demonstrate a good-faith effort to complete testing requirements for an actor/profile, and so you are not terribly surprised on Friday to find something is broken.
  - a. If you are involved in a demonstration, you will not have Friday available to you for this type of testing. You will need to be finished with your unit tests (all three instances) by Thursday noon so you can begin demonstration rehearsal.
26. During the Connectathon, Project Managers may advise systems to drop Actor/Profile pairs. This will be done on a case by case basis. Participants are encouraged to manage their time and complete testing for a full Actor/Profile pair rather than perform spot tests and not complete testing.
27. Some systems register for multiple profiles and actors. These owners need to manage their time appropriately and not monopolize the time of Project Managers at the expense of other participants.
28. Systems that want to merely test their system at the Connectathon and not complete all 3 instances are welcome to do so. Please advise the Project Manager so we understand your desires.
29. Some systems have signed up for Supportive testing rather than Thorough testing. A supportive system has successfully tested this Actor/Profile in previous years and is attending the Connectathon to test new combinations. You can test against these systems, but please respect their desires. Try to find other “Thorough” systems first before testing with Supportive systems.
30. Do not ask for special consideration for your system for non-emergency reasons. These reasons are not excuses for showing up late, leaving early or not following directions:

- a. My management did not allocate enough resources to cover this event
  - b. I am only testing one profile and one actor.
  - c. All of my test partners are busy
  - d. I am a committee member
  - e. I am a Cubs fan
31. Do not count on help from home to solve Connectathon problems. Past history indicates they will be in a meeting when you need to call and ask for help. (One company decided to have a company reorganization during the Connectathon, and all support people were unavailable for the week.) Bring the right people.
32. It is highly recommended that you bring a set of printed documents that lists your configuration information. It is helpful to give one page to a test partner to confirm your configuration. Configuration is available in the Kudu web tool, but the paper serves as backup. One thoughtful person last year brought that information on index cards.
33. Project Managers reserve the right to publish new rules during the Connectathon in reaction to unforeseen events. We hope not to do this.

## 13 Skype

The Connectathon is held in a large hall and communication is difficult. Testing works best when you are sitting next to your partner so you can communicate. Because this is not physically possible, we will use several methods of communication:

1. The Kudu web tool has a chat window that can be used for each test you run. See the Kudu User's Guide for more details. In brief, this can be used to record comments, data and logs for each test that you run with a partner. This is a great way to store the logs you need to show a Connectathon Monitor after the fact.
2. For more immediate communication, we request that each system have one registered account with Skype ([www.skype.com](http://www.skype.com)). As long as you are using Skype to Skype communication, the service is free. This will give you audio communication or a more interactive chat session than is possible with Kudu.

Connectathon Managers (Felhofer, Moore) plan to use Skype for the interview process during August and September. Please register for your account now; you will give us these details when you register your systems in Kudu for the Connectathon.

## 14 Important Dates

May, 2006	Radiology domain publishes Integration Profiles for Trial Implementation
Jun 15, 2006	Cardiology domain publishes Integration Profiles for Trial Implementation
Jun 19-21, 2006	IHE Workshop 2006: Changing the Way Healthcare Connects
July, 2006	ITI domain publishes Integration Profiles for Trial Implementation
Aug, 2006	PCC domain publishes Integration Profiles for Trial Implementation. PCD domain publishes Integration Profiles for Trial Implementation
Aug 15 – Sep 30, 2006	Telephone interviews conducted by Technical Project Manager for each Connectathon system. No system can complete registration without a 15 minute telephone interview with the Connectathon Technical Project Managers (Moore, Felhofer).
Aug 15, 2006	Electronic registration for Connectathon opens; paper registration for Connectathon 2007, HIMSS 2007 and ACC 2007 are based on electronic registration. Electronic registration: <a href="http://ihe-kudu.wustl.edu/na2007">http://ihe-kudu.wustl.edu/na2007</a>
Sep 15, 2006	All registration for NA 2007 closes. By this date, you should have completed: <ul style="list-style-type: none"> <li>• Electronic registration for Connectathon</li> <li>• Sent paper contract with payment to RSNA for Connectathon</li> <li>• Sent paper contract with payment to HIMSS (if applicable)</li> <li>• Sent paper contract with payment to ACC (if applicable)</li> </ul>
Oct 2, 2006	Class A MESA results are due. This is for all participants in NA 2007 Connectathon. (Classes of MESA tests are explained in Appendix A). Enter these in Kudu ( <a href="http://ihe-kudu.wustl.edu/na2007">http://ihe-kudu.wustl.edu/na2007</a> ). These are installation tests to make sure you have installed the software.
Oct 13, 2006	HIMSS 2007 Interoperability Showcase Demonstration Managers meet to define demonstration groups. Demonstration groups to be presented at participant meeting Oct 19-20.
Oct 1-15, 2006	Sometime during these two weeks, a Webex will be scheduled to go over Connectathon process.
Oct 19-20, 2006	Two day mandatory meeting for participants involved in ACC 2007 and HIMSS 2007 Interoperability Showcase demonstrations. Any Connectathon participant not involved in those demonstrations should not attend this meeting.
Nov 1, 2006	Class B MESA results are due. See Appendix for a list of Class B Integration Profiles. Enter these in Kudu ( <a href="http://ihe-kudu.wustl.edu/na2007">http://ihe-kudu.wustl.edu/na2007</a> ).
Nov 1	Digital certificates published for systems who have completed Connectathon configuration. Use these for testing with NIST and for Connectathon testing.
Dec 1, 2006	Class C MESA results are due. See Appendix for a list of Class C Integration Profiles.
Dec 1, 2006	Configuration information due for all participants in NA 2007 Connectathon. Enter these in Kudu ( <a href="http://ihe-kudu.wustl.edu/na2007">http://ihe-kudu.wustl.edu/na2007</a> ).
Jan 15, 2007	System setup begins at 8:30. Connectathon testing begins promptly at 11:00. Participants are responsible for knowing network information and connecting to network.
Jan 16-17, 2007	Connectathon Conference program takes place, including organized tours of testing area by conference participants
Jan 19, 2007	Connectathon ends promptly at 12:00.

## 15 Call List

There are many individuals involved in managing the IHE NA 2007 Connectathon. Please refer to the list below for contact information.

To be added to an email list	All email lists handled by request	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>
General Connectathon Logistics, including paper registration/contracts		<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>
Connectathon Electronic Registration (Kudu) Questions	Steve Moore, Lynn Felhofer	<a href="mailto:ihepmna@yahoo.com">ihepmna@yahoo.com</a>
ACC IHE 2007 Demonstration Registration	Teri Sippel Schmidt	<a href="mailto:tsippel@acc.org">tsippel@acc.org</a>
HIMSS 2007 Interoperability Showcase Registration	<a href="http://www.interoperabilityshowcase.org">http://www.interoperabilityshowcase.org</a>	
Radiology Sponsor Questions		<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>
Cardiology Sponsor Questions	Teri Sippel Schmidt	<a href="mailto:ihe@acc.org">ihe@acc.org</a>
ITI and PCC Sponsor Questions	Didi Davis	<a href="mailto:dddavis@himss.org">dddavis@himss.org</a>
PCD Sponsor Questions	Didi Davis	<a href="mailto:ddavis@himss.org">ddavis@himss.org</a>
Technical Management of Connectathon	Steve Moore, Lynn Felhofer	<a href="mailto:moores@mir.wustl.edu">moores@mir.wustl.edu</a> <a href="mailto:felhofer@charter.net">felhofer@charter.net</a>
Technical Management of: Cardiology, ITI, PCC, Radiology Domains	Steve Moore, Lynn Felhofer	<a href="mailto:moores@mir.wustl.edu">moores@mir.wustl.edu</a> <a href="mailto:felhofer@charter.net">felhofer@charter.net</a>
Technical Management of PCD	Manny Furst	<a href="mailto:efurst@imp-tech.com">efurst@imp-tech.com</a>

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HIMSS Interoperability Showcase Demonstration Questions	John Donnelly	<a href="mailto:jtdonnelly@intepro.biz">jtdonnelly@intepro.biz</a>
ACC 2007 IHE Demonstration Questions	Teri Sippel Schmit	<a href="mailto:tsippel@acc.org">tsippel@acc.org</a>
XDS Test Support	Bill Majurski: NIST	<a href="mailto:bill@nist.gov">bill@nist.gov</a>
XDS-I Test Support		
PCD Test Support	Manny Furst	<a href="mailto:efurst@imp-tech.com">efurst@imp-tech.com</a>
Other MESA Test Support	Steve Moore, Lynn Felhofer	<a href="mailto:moores@mir.wustl.edu">moores@mir.wustl.edu</a> , <a href="mailto:felhofer@charter.net">felhofer@charter.net</a>

## 16 Email Lists

There are many email lists used to manage the IHE process and demonstrations. You can be added to the list by sending a request as indicated in the table below. The request is read by a person, so you are not required to follow a specific format. Indicate the email list (or lists) you wish to join in your message.

List Function	Email address	Request to be Added
To get added to any of the email lists hosted at RSNA	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>	
IHE General News. Announcements roughly once per month.	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>
IHE NA 2007 Connectathon information. Lots of notifications from the sponsors and Technical Project Managers. Connectathon questions from participants.	<a href="mailto:iheyear8@rsna.org">iheyear8@rsna.org</a>	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>
HIMSS 2007 Interoperability Showcase Announcements		
ACC 2007 IHE Demonstration Announcements	<a href="mailto:ihe-demo-2007@lists.acc.org">ihe-demo-2007@lists.acc.org</a>	<a href="mailto:tsippel@acc.org">tsippel@acc.org</a>
HIMSS 2007 Interoperability Planning Committee	<a href="mailto:interopshowplan@rsna.org">interopshowplan@rsna.org</a>	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>
IHE Cardiology Planning Committee	<a href="mailto:ihe-card-pc@lists.acc.org">ihe-card-pc@lists.acc.org</a>	<a href="mailto:tsippel@acc.org">tsippel@acc.org</a>
IHE Cardiology Technical Committee	<a href="mailto:ihe-card-tc@lists.acc.org">ihe-card-tc@lists.acc.org</a>	<a href="mailto:tsippel@acc.org">tsippel@acc.org</a>
IHE ITI Planning Committee	<a href="mailto:itiplan@rsna.org">itiplan@rsna.org</a>	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>
IHE ITI Technical Committee	<a href="mailto:ititech@rsna.org">ititech@rsna.org</a>	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>
IHE PCC Planning Committee	<a href="mailto:pccplan@rsna.org">pccplan@rsna.org</a>	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>
IHE PCC Technical Committee	<a href="mailto:pcctech@rsna.org">pcctech@rsna.org</a>	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>
IHE PCD Planning Committee		
IHE PCD Technical Committee		
IHE Radiology Planning Committee	<a href="mailto:iheplan@rsna.org">iheplan@rsna.org</a>	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>
IHE Radiology Technical Committee	<a href="mailto:ihetech@rsna.org">ihetech@rsna.org</a>	<a href="mailto:ihe@rsna.org">ihe@rsna.org</a>

## 17 Important Web Addresses

<b>Function</b>	<b>Owner</b>	<b>URL</b>
All general IHE Information	ACC/HIMSS/RSNA	<a href="http://www.ihe.net">http://www.ihe.net</a>
HIMSS 2007 Interoperability Showcase	HIMSS	<a href="http://www.interoperabilityshowcase.org">http://www.interoperabilityshowcase.org</a>
ACC 2007 IHE Demonstration	ACC	To be announced.
NA 2007 Connectathon Electronic Registration (Kudu)	Mallinckrodt Institute of Radiology / INRIA	<a href="http://ihe-kudu.wustl.edu/na2007">http://ihe-kudu.wustl.edu/na2007</a>
NIST XDS test software	NIST	<a href="http://hcxw2k1.nist.gov/wiki/index.php">http://hcxw2k1.nist.gov/wiki/index.php</a>
All other MESA test software	Mallinckrodt Institute of Radiology	<a href="http://ihedoc.wustl.edu">http://ihedoc.wustl.edu</a>

## 18 Kudu Description

The Kudu system has a user's manual associated with it. You can read the manual pages using the 2006 version (<http://ihe-kudu.wustl.edu/na2006>) until August 15 and the 2007 version once registration opens (<http://ihe-kudu.wustl.edu/na2007>).

These are the main functions you need to understand:

1. Create a login account for your organization
2. Add organizational and contact information
3. Register one or more systems for the Connectathon
4. Enter configuration information for your systems
5. Enter MESA test results for your system
6. Identify test partners before the Connectathon
7. Find the profiles that might be at risk because there are insufficient test partners
8. Find configuration information for all other systems you will test with
9. Find the network configuration information
10. Prior to the Connectathon, review the tests you will be required to perform; provide feedback to Project Managers if you find errors
11. Find the map of the Connectathon area, your table location, and the location of testing partners.

## **19 Domain Specific Notes**

This document is primarily concerned with Connectathon process. Each domain has separate Planning and Technical Committees who publish the domain-specific information. However, there are some items we can discuss.

### **19.1 Cardiology**

1. The DRPT: Displayable Report profile has been suspended for this year. The Technical Committee discovered problems with that profile that need to be resolved.
2. The Cardiology domain would like participants to test some profiles in other domains. Participants will be required to register in Kudu for these profiles and execute the required MESA and Connectathon tests. It is up to the Cardiology vendors to understand those desires/requirements and to find test partners. Those test partners might not be located in the Cardiology corner of the Connectathon.

### **19.2 IT Infrastructure**

1. XDS has undergone several changes after the last Connectathon (Barcelona, April 2006). Please read the published Change Proposals and XDS text. (We do not want to summarize these and omit important changes. Please refer to the documentation.)
2. XUA: Cross Enterprise User Authentication is still in white paper form. It may be tested at the Connectathon by interested parties, but will not go through the MESA process and will not be part of the recorded Connectathon result matrix. Registration for testing TBD/TBA.
3. RFD: Request Forms for Display is will not be ready for Trial Implementation by Connectathon registration. It may be demonstrated at HIMSS. Registration for testing TBD/TBA.
4. PIX/PDQ/HL7 V3 is still in white paper form and will not be tested at the NA Connectathon in 2007.

### **19.3 Patient Care Coordination**

### **19.4 Patient Care Devices**

### **19.5 Radiology**

1. Radiology has deprecated SEC: Basic Security. This will not be tested at the Connectathon. Register for and test the ITI ATNA profile.
- 2.

## **20 ATNA Profile and Digital Certificates**

The ATNA profile merits extra consideration. The profile discusses what logging needs to occur and how to secure transactions, but also has other requirements on securing systems. Please read the ITI Technical Framework closely. Even if your system is “only a server”, you still have requirements for logging access to PHI.

Digital certificates used in the ATNA profile are the responsibility of the Connectathon Project Managers (Felhofer, Moore). This will be described in a separate document available at the close of registration.

## 21 Demonstration Advice

1. Connectathon Managers (Felhofer, Moore) are not managing demonstrations. Discuss demonstration issues with the proper manager (Donnelly, Sippel Schmidt).
2. Your system will have configuration information registered in Kudu. This includes an IP address, port numbers and other parameters. Use the same configuration at the demonstration that you use at the Connectathon. The only change could be that the subnet used at a demonstration is different. In that case, it is likely the last octet of your address will stay the same.
3. After the Connectathon is over, take your equipment home and lock it up in a room. Resist the temptation to “fix this one last thing”. You will spend extra time during demonstration setup and irritate your partners.

## 22 Miscellaneous Connectathon Advice

1. Agile systems that can reconfigure quickly have the best chance of completing more tests. The Connectathon is not a normal installation environment. Rather than installing your software one time in a clinical setting and leaving that unchanged for several months, you will be asked to reconfigure multiple times to test messages with different partners (on the same day, or during a single hour). Some things that might not make sense clinically (a pull down list of targets to send a message) make more sense in a Connectathon.
2. The Connectathon is primarily an engineering event, rather than a public exhibition. Comfortable clothing is encouraged.
3. The network is described in a separate document.
  - a. Do not bring firewalls to the Connectathon or demonstrations. The network should have a firewall.
  - b. If you must bring a firewall, do NOT use NAT to translate from the IP address we give you to something else.
  - c. Do not perform port forwarding.
  - d. Do not use a firewall to split services across machines.
  - e. If you need more IP addresses, ask for them BEFORE the Connectathon; they are free.
  - f. Follow our advice (based on seven years of observation). These are just more things that will distract you from your mission.
4. If you are a Connectathon participant and are using equipment that is shipped to the site, know the following:
  - a. Name of the carrier
  - b. Reference number of the shipment
  - c. Phone number/name of the person in your organization who shipped the equipment (and will be at their desk on Connectathon Monday to help you find your equipment).
5. If you are shipping equipment back from the Connectathon, have that information with you in advance of the Connectathon. Do not try to figure that out at the Connectathon site.

## Appendix A: MESA Test Result Due Dates

MESA test results are due on three different dates. These dates are based on the maturity of the Integration Profiles and the MESA software. Participants implementing well established profiles with well established MESA software will be required to submit results before those less established profiles.

### A.1 Class A Profiles

All systems implement a class A profile. This is the “IHE Actor” profile. There is one MESA test for the “IHE Actor” profile: Install the MESA tools and send evidence to the Project Manager by Oct 2, 2006.

### A.2 Class B Profiles

Class B profiles are those profiles (e.g. SWF in Radiology) that are well established and have stable MESA tests. Those test results are due Nov 1, 2006.

### A.3 Class C Profiles

Class C profiles are less established than Class B profiles. Those test results are due Dec 1, 2006.

### A.4 Profile List and Classifications

Domain	Profile	Class	Due Date
All	All IHE actors (install the MESA tools)	A	Oct 2
Rad	SWF: Scheduled Workflow	B	Nov 1
Rad	PIR: Patient Information Reconciliation	B	Nov 1
Rad	CPI: Consistent Presentation of Images	B	Nov 1
Rad	PGP: Presentation of Grouped Procedures	B	Nov 1
Rad	ARI: Access to Radiology Information	B	Nov 1
Rad	KIN: Key Image Note	B	Nov 1
Rad	SINR: Simple Image and Numeric Report	B	Nov 1
Rad	SEC: Deprecated / Not tested / See ITI ATNA		
Rad	CHG: Charge Posting	B	Nov 1
Rad	PWF: Post Processing Workflow	C	Dec 1
Rad	RWF: Reporting Workflow	C	Dec 1
Rad	ED: Evidence Documents	C	Dec 1
Rad	PDI: Portable Data for Imaging	C	Dec 1
Rad	NMI: Nuclear Medicine Image (both General and Cardio)	C	Dec 1
Rad	XDS-I: Cross-enterprise Document Sharing for Imaging	C	Dec 1
Rad	TCE: Teaching File and Clinical Trial Export	C	Dec 1

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Rad	FUS: Image Fusion	C	Dec 1
Rad	IRWF: Import Reconciliation Workflow	C	Dec 1
Rad	MAMMO: Mammography Image	C	Dec 1
Card	CATH: Cardiac Catheterization Workflow	B	Nov 1
Card	ECHO: Echocardiography Workflow	B	Nov 1
Card	ECG: Retrieve ECG for Display	B	Nov 1
Card	ED: Evidence Documents	B	Nov 1
Card	STRESS: Stress Workflow	C	Dec 1
Card	IDCO: Implantable Device Cardiac Observations	C	Dec 1
ITI	RID: Retrieve Information for Display	C	Dec 1
ITI	EUA: Enterprise User Authentication	C	Dec 1
ITI	PIX: Patient Identifier Cross-referencing	C	Dec 1
ITI	PSA: Patient Synchronized Applications	C	Dec 1
ITI	CT: Consistent Time	B	Nov 1
ITI	PDQ: Patient Demographics Query	C	Dec 1
ITI	ATNA: Audit Trail and Node Authentication	C	Dec 1
ITI	XDS: Cross-Enterprise Document Sharing	C	Dec 1
ITI	PWP: Personnel White Pages	C	Dec 1
ITI	DSG: Document Digital Signature	C	Dec 1
ITI	NAV: Notification of Document Availability	C	Dec 1
ITI	PAM: Patient Administration Management	C	Dec 1
ITI	XDM: Cross-Enterprise Document Media Interchange	C	Dec 1
ITI	XDR: Cross Enterprise Document Reliable Interchange (XDR)	C	Dec 1
ITI	XDS-SD: Cross Enterprise Sharing of Scanned Documents	C	Dec 1
PCC	XDS-MS: Cross-Enterprise Sharing of Medical Summaries	C	Dec 1
PCC	BPPC: Basic Patient Privacy Consents	C	Dec 1
PCC	EDR: Emergency Department Referral	C	Dec 1
PCC	XPHR: Exchange of PHR Content	C	Dec 1
PCC	PPHP: Pre-procedure History and Physical	C	Dec 1
PCD	DEC: Device Enterprise Communication	C	Dec 1
Lab	Sharing of Lab Documents (Content Profile)	C	Dec 1

### A.5 Profiles without MESA and Connectathon tests in 2006-07

Domain	Profile
ITI	RFD – Retrieve Forms for Data Entry
ITI	PIX/PDQ HL7 V3 Implementation
Card	DRPT: Displayable Report (2006-07 update)

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Card	PDQ-IDC: Patient Demographic Query - Urgent Implantable Device Cardiac Identification
Card	Portable Data Interchange (PDI) on DVD
Card	Data Harvesting (RFD - Retrieve Forms for Data Entry)
Rad	SEC: Basic Security. This is deprecated; please implement ITI ATNA