

**IHE-RO Planning Committee
Conference Call
Thursday, June 11, 2009
2:00 – 3:00 PM (EDT)**

Attendees:

Bruce Curran
Todd McNutt
Annette Coleman
Zee Chen
Richard Popple
Terry Michaelson

Charles Able
May Wahab
Akkamma Ravi
Nick Linton
Bill Simon
Steven Sutlief

Tony Quang
Prabhakar Tripuraneni
Colin Field
Andras Szentmiklossy
Andy Fuller
Christopher Lindop

ASTRO Staff:

Ms. Sunita Ranjitkar

I. Administrative Items

- a. The agenda was approved.
- b. The minutes from the conference call on April 9, 2008 were approved.

II. Reports & Updates

a. White Paper

Dr. Wahab gave an update on a draft white paper, entitled "IHE-RO, Plug and Play - the Future of Radiation Oncology?" The white paper will be updated with the following changes before sending to the members:

- Diagrams will be labeled.
- The actual name of each profile (as written in the Technical Frameworks) will be placed in parentheses following the current name of the profile.
- A group picture from the past connectathon will be included (names of all the members will be written in small print with their affiliations).
- Mr. Curran will include additional technical information in the white paper.

The white paper will be updated and distributed to the planning committee for comments, and then submitted to the ASTRO Executive Committee for a review before it is published in the Red Journal.

b. Development of Basic Radiotherapy Process Map

The committee discussed the Basic Radiotherapy Process Map prepared by Dr. Popple and Mr. Miettinen. Dr. Popple explained that it is a generic flow chart and it is not broken into different treatment modalities. All the elements of the plan apply in some way to all the different processes.

The following updates will be made to the process map:

- The different components of the plan will be color coded using scan, plan, treat, and QA categories.

- The chart will be modified to support adaptive planning and prior treatment information (e.g. insert “New dose?” prior to “New positioning?”, and insert “Prior treatment info” at the “Treatment intent” and “Image registration and segmentation” steps).

c. Report from IHE-RO Technical Committee

Mr. Curran gave an update on the IHE-RO Technical Committee.

- Mr. Curran could not attend the Domain Pre-testing in Erlangen due to his work commitment. Seven vendors attended this informal testing.
- ASTRO has contracted with ICT (software company) for the development of the test tools. The IHE-RO Technical Committee has submitted the required test data to ICT. Mr. Curran and Dr. Bosch are working with ICT to refine the test data. The first delivery of the test tool was on June 16th.

d. IHE-RO Japan

IHE-RO Japan is working on the Enterprise Schedule Integration Profile, which will be released for public comment soon.

f. Use Cases

The use case section on the wiki is divided into three sections:

- **Completed Use Cases and their Integration Profiles**
- **Use Cases Being Developed into Integration Profiles**
 - *Treatment Delivery Workflow*
This profile is divided into two types of workflow (Integrated Patient Positioning Devices and Independent Localization System). A preliminary test was done on the Integrated Patient Positioning Devices during the pre-testing in Erlangen. This profile will be further tested during the 2009 connectathon, given that there are sufficient vendors. As of now, only Tomotherapy has committed to being part of the testing.
 - *Advance Interoperability of Treatment Planning Systems*
Preliminary testing was done on this profile during the pre-testing in Erlangen. This will be further tested during the 2009 connectathon. Evaluation of this profile will be challenging. A reduced set of test tools were purchased for budgetary reasons.
 - *Dose Compositing*
The Technical Committee is developing this profile, which will be ready to test during the 2010 connectathon.
 - *Prescription Automation*
The Technical Committee is waiting for information from the DICOM Working Group 7 in order to develop this profile.
 - *Transfer of Anatomy/Aperture Data for Localization*
This profile has been partially developed since it is tied in with the Treatment Delivery Workflow profile.
 - *Registration Data Transfer*
This profile is being used in the Workflow Profile.

- **Use Case Wish List**

The Technical Committee has enough workload for 2010. Mr. Curran suggested identifying 2-3 use cases for the Technical Committee to work on for the 2010-2011 cycle. Currently, there are 14 outstanding use cases. In order to select three use cases from this list, each use case needs to be developed further. Therefore, the Planning Committee members were asked to be the champions for developing these use cases. A few members have already volunteered (please see the table below).

Year Introduced	Use Case	Champions
2006	Residual Dose Optimization	Annette Coleman, Nick Linton
2006	On-line Image Review	Terry Michaelson, Tony Quang
2006	Off-line Image Review	Terry Michaelson
2006	Instance-level Query Retrieve	
2006	Configuration Management	
2006	Clinical Trials Submission	Charles Able, May Wahab, Tony Quang
2007	User Authentication and Authorization	Colin Field
2007	Radiotherapy Planning and Treatment Record (Anonymization Use Case for Clinical Trials)	Todd McNutt, Colin Field , Tommy Knoos, Annette Coleman, and Nick Linton Charles Able (Anonymization)
2008	Structure Template Creation, Import, and Export	Charles Able, Nick Linton
2008	Brachytherapy	Zee Chen, May Wahab, Firas Mourtada, Kevin Albuquerque
2008	Integration with Proton Therapy	Jatinder Palta, Charles Able, Ramesh Rengan, Tony Quang
2008	Bronchoscopy Position Data Transfer	
2008	Radiation Oncology Workflow Exchange with HIS	Sam Brain, Steven Sutlief, Jeff West, Tommy Knoos
2008	Radiation Oncology Enterprise Schedule Integration (ESI). (Under development by IHE-RO Japan)	MUKAI Masami, Steven Sutlief, Jeff West

The following steps will be taken to select the top three use cases.

Steps	Action Item	Due Date
1	Identify use case champions	June 26, 2009
2	Review and update use cases	July 24, 2009

3	Present all developed use cases on a planning committee conference call	July 30, 2009 at 2:00-3:00 PM EDT
4	Vote on the top 3 use cases (using doodle.com) and forward to the Technical Committee	August 7, 2009

- g. Cancer Biomedical Informatics Grid
Mr. Philip was not present to give an update on this topic. This will be postponed until the next conference call.

III. New Business

- a. IHE-RO Planning Committee Face-to-Face Meeting during Connectathon
This year the ASTRO Annual Meeting will be held approximately one and a half months after the Connectathon. Therefore, the Planning Committee has decided not to have a face-to-face meeting during the 2009 Connectathon.

IV. Next Meetings:

- Wednesday, August 5, 2009 from 2:00-3:00 PM EDT (needs to be rescheduled)
- Thursday, October 1, 2009 from 2:00-3:00 PM EDT
- November during the ASTRO Annual Meeting

V. Action Items:

Task to be done	Who will do it	When it will be completed
Update the radiotherapy process map	Richard Popple	August, 2009
Prepare a short white paper on Cancer Biomedical Informatics Grid	Jacob Philip and Joel Goldwein	August, 2009
Send an email to members exploring their interest in developing the remaining use cases.	Sunita Ranjitkar	June 18, 2009