

caBIG[®] Architecture/Vocabularies and Common Data Elements Joint Workspace Face-to-Face Meeting Agenda

Meeting Location	W Atlanta Midtown Hotel: 188 14th St NE, Atlanta, GA 30361 / Main Meeting Room: Focus Room, Mezzanine Level <i>Note: All sessions to be held in the Focus Room with the exception of Birds of a Feather Sessions on Day Two</i>
-------------------------	---

Agenda - Day 1, Tuesday October 20, 2009	
12:00 – 1:00 PM	REGISTRATION
1:00 – 1:15 PM	Meeting Introduction & Agenda Overview <i>Speaker:</i> Avinash Shanbhag ¹ <i>Facilitator:</i> Natasha Sefcovic²
1:15 – 1:45 PM	Welcome & Plenary: The Contribution of caBIG[®] and In Silico Resources to Glioblastoma Research <i>Plenary Speaker:</i> Daniel Brat ³ , MD, PhD, Professor and Vice Chair, Translational Programs, Pathology and Laboratory Medicine, Director, Human Tissue and Pathology Core Winship Cancer Institute, Emory University School of Medicine <i>Facilitator:</i> Natasha Sefcovic
THEME 1: caBIG[®] Infrastructure Adoption	
1:45 – 2:15 PM	CDC Public Health Information Network <i>Speakers:</i> Ken Hall ⁴ , Brian Lee ⁵ <i>Facilitator:</i> Mike Keller⁶ <i>Goal: To describe the basic work necessary for local data stewards to establish Public Health Grid (PHGrid) nodes with the PHIN and to begin allowing access to aggregate analysis.</i>
2:15 – 2:45 PM	Adoption and Adaptation of caGrid for CTSA <i>Speaker:</i> Shannon Hastings ⁷ <i>Facilitator:</i> Mike Keller <i>Goal: To inform the audience of the work going on at OSU to adopt and adapt caGrid for use by CTSA. OSU is funded by the NCCR to enhance and disseminate caGrid technology to the CTSA national consortium. Under this effort OSU has been working on many aspects that enable easy adoption of caGrid across other domains.</i>
2:45 – 3:15 PM	caBIG[®] and Web 2.0: Service Integration and Federated Querying in the Cardiovascular Research Grid (CVRG) <i>Speakers:</i> Stephen Granite ⁸ , Raimond Winslow ⁹ <i>Facilitator:</i> Mike Keller <i>Goal: To provide feedback on current caBIG[®] infrastructure and guide future development.</i>

caBIG[®] Architecture/Vocabularies and Common Data Elements Joint Workspace Face-to-Face Meeting
Atlanta, Georgia ♦ October 20-22, 2009

Agenda - Day 1, Tuesday October 20, 2009

3:15 – 3:30 PM	COFFEE BREAK
3:30 – 4:00 PM	<p>Vocabulary Knowledge Center: Adoption Stories of the NCI Semantic Infrastructure</p> <p><i>Speaker:</i> Bob Freimuth¹⁰ <i>Facilitator:</i> Musharaf Rashid¹¹</p> <p><i>Goal:</i> To provide an overview of recent adoption activities facilitated by the Vocabulary Knowledge Center, review current and future projects conducted by the VKC, and solicit feedback from the community</p>
4:00 – 4:30 PM	<p>In Silico Research Centers of Excellence Program</p> <p><i>Speaker:</i> Kevin Groch¹² <i>Facilitator:</i> Natasha Sefcovic</p> <p><i>Goal:</i> To introduce the In Silico Research Centers of Excellence Program to the Architecture and VCDE Workspaces, including a brief overview of the work to be performed by the six Centers.</p>
4:30 – 5:00 PM	<p>Cancer Bench to Bedside (caB2B): An Easy-to-Use Tool for Searching Across the caGrid</p> <p><i>Speakers:</i> Juli Klemm¹³, Srikanth Adiga¹⁴, Stephen Goldstein¹⁵, Rakesh Nagarajan¹⁶, Chris Piepenbring¹⁷, Konrad Rokicki¹⁸, Mukesh Sharma¹⁹, Chandrakant Talele²⁰ <i>Facilitator:</i> Daniela Smith²¹</p> <p><i>Goal:</i> To introduce the next release of caB2B (caB2B v3.1) to the community. Demonstrate caB2B Web Application features and queries to retrieve data across the grid; for example, microarray data (caArray), imaging data (NBIA), and biospecimen data (caTissue). To present the current state of the caGrid iPhone App prototype, and seek community input on the approach and architectural considerations.</p>
5:00-5:30 PM	<p>.NET and caBIG[®]</p> <p><i>Speakers:</i> Marty Humphrey²², Joe Richardson²³ <i>Facilitator:</i> Daniela Smith</p> <p><i>Goal:</i> To give an update on .NET activities in caBIG[®], including an early prototype demo of the caAERS mobile app on the .NET Compact Framework, recent support for the open-source ClearCanvas imaging application, using Active Directory as a grid identity provider, support for caGrid transfer, general improvements regarding the development and deployment of .NET-based caGrid services (on server platforms as well as on Clouds), as well as an early prototype demo of the Heatmap Viewer on Silverlight 3 showcasing the Deep Zoom feature which gives the user the ability to smoothly zoom in/out and pan within high resolution images of gene expression data.</p>
5:30 PM	DAY 1 ADJOURNS

caBIG[®] Architecture/Vocabularies and Common Data Elements Joint Workspace Face-to-Face Meeting
Atlanta, Georgia ♦ October 20-22, 2009

Agenda – Day 2, Wednesday October 21, 2009

7:00 – 8:00 AM	REGISTRATION		
8:00 – 10:05 AM	BIRDS OF A FEATHER SESSIONS (Industry Rooms 1, 2 and 3 on Mezzanine Level)		
Locations:	Industry Room 1	Industry Room 2	Industry Room 3
8:00 – 9:00 AM	BOF #1: Semantic Infrastructure Requirements Redux <i>Facilitators:</i> Sal Mungal ²⁴ , Bilal Elahi ²⁵ , Brian Davis, Frank Hartel ²⁶ , Denise Warzel ²⁷	BOF #2: Development of caBIG® Comparative Effectiveness Research Enterprise Use Case <i>Facilitators:</i> Andrew Post ²⁸ , Joel Saltz, Sherri De Coronado ²⁹ , Javed Butler ³⁰ , Allan Kirk ³¹	BOF #3: Alignment of Developer Applications to DAMs <i>Facilitators:</i> Lynne Wilkens ³² , Bob Freimuth, Mukesh Sharma
9:05 – 10:05 AM	BOF #4: Software Engineering and Metadata Standards to Support ECCF and Service Specification <i>Facilitator:</i> Denise Warzel	BOF #5: caGrid Adoption and Adaption <i>Facilitators:</i> Stephen Langella ³³ , Justin Permar, Joel Saltz ³⁴	BOF #6: Harmonization of cgMDR Development <i>Facilitators:</i> Denis Avdic ³⁵ , Shannon Hastings, Steve Harris ³⁶
10:05 – 10:20 AM	COFFEE BREAK		
10:20 – 11:00 AM	Birds of a Feather Report Out (By BOF Session Facilitators)		<i>Facilitator:</i> Daniela Smith
THEME 2: Our Foundation and Our Future			
11:00 – 12:00 PM	Future Semantic Infrastructure and Enterprise Architecture Town Hall Panel Discussion <i>Speakers:</i> Dave Hau ³⁷ , Frank Hartel, John Koisch ³⁸ , Paul Boyes ³⁹ <i>Facilitators:</i> Brian Davis ⁴⁰ and Mike Keller		
12:00 PM – 1:00 PM	LUNCH BREAK		

caBIG[®] Architecture/Vocabularies and Common Data Elements Joint Workspace Face-to-Face Meeting
Atlanta, Georgia ♦ October 20-22, 2009

Agenda – Day 2, Wednesday October 21, 2009

1:00 – 1:45 PM	<p>More Town Hall Q&A</p> <p><i>Speakers:</i> Dave Hau, Frank Hartel, John Koisch, Paul Boyes <i>Facilitators:</i> Brian Davis and Mike Keller</p>
1:45 – 2:15 PM	<p>Enterprise Architecture for Metadata and Vocabulary Services at M.D. Anderson Cancer Center</p> <p><i>Speaker:</i> Michael Riben⁴¹ <i>Facilitator:</i> Daniela Smith</p> <p><i>Goal: To understand the challenges of implementing a metadata infrastructure with vocabulary services that can support legacy applications, home-grown applications, and align with critical external entities including caBIG[®]; to understand the components and approaches M.D. Anderson is using to solve semantic interoperability challenges; integration of caBIG[®] technologies and infrastructure to solve enterprise architecture.</i></p>
2:15 – 2:45 PM	<p>caBIG[®] Life Science Business Architecture Model (LSBAM) and Domain Analysis Model (LSDAM)</p> <p><i>Speakers:</i> Lauren Boyd⁴² and Lisa Schick⁴³ <i>Facilitator:</i> Larry Brem⁴⁴</p> <p><i>Goal: To familiarize F2F participants with the caBIG[®] Biomedical Research (BR) Business Architecture Model (BAM), its role in caBIG[®] infrastructure and governance, and its utility. The Biomedical Research BAM is comprised of the Clinical Sciences and Life Sciences (LS) BAMs, and this session will utilize the LSBAM to illustrate key concepts of the BR model and its development. To provide the community with updated information on the LSDAM and allow for an opportunity to see how it will be used.</i></p>
2:45 – 3:15PM	<p>Architectural and Ontological Issues in Quantitative Imaging</p> <p><i>Speaker:</i> Stuart Turner⁴⁵, Eliot Siegel⁴⁶, Joel Saltz, Andrew Buckler⁴⁷ <i>Facilitator:</i> Brian Davis</p> <p><i>Goal: To provide the Cross Cutting WS community an understanding of how our work is currently utilizing the resources provided, and facilitate a discussion to provide feedback on how to optimize harmonization/interoperability with regard to our current work and help us formulate next steps for the Architecture/VCDE-related product and enterprise use case development. The primary focus will be on our TCGA Radiology and In Silico projects.</i></p>
3:15 – 3:30 PM	COFFEE BREAK
3:30 – 4:00 PM	<p>caBIG[®] Workflow Infrastructure: Enabling Scientific Discovery</p> <p><i>Speaker:</i> Ravi Madduri⁴⁸ <i>Facilitator:</i> Larry Brem</p> <p><i>Goal: To demonstrate the use of workflow infrastructure in enabling scientific discovery within caBIG[®] community.</i></p>

caBIG[®] Architecture/Vocabularies and Common Data Elements Joint Workspace Face-to-Face Meeting
Atlanta, Georgia ♦ October 20-22, 2009

Agenda – Day 2, Wednesday October 21, 2009

4:00 – 4:30 PM	Semantic Workflows in caBIG[®]: Metadata Meets Computational Workflows <i>Speaker:</i> Yolanda Gil ⁴⁹ <i>Facilitator:</i> Brian Davis <i>Goal:</i> To introduce the use of metadata in semantic workflow systems to assist users with computational experimentation and data analysis.
4:30 – 5:00 PM	caGrid Knowledge Center: Contributions and Collaborations <i>Speaker:</i> Justin Permar ⁵⁰ <i>Facilitator:</i> Larry Brem <i>Goal:</i> To provide high-level feedback from communities adopting caGrid.
5:00 – 6:00 PM	Standards Panel Discussion <i>Speakers:</i> Libby Prince ⁵¹ , Hua Min ⁵² , Sal Mungal, Baris Suzek ⁵³ <i>Facilitator:</i> Brian Davis <i>Goal:</i> To update the community on emerging standards and VCDE efforts in this area.
6:00 PM	DAY 2 ADJOURNS

Agenda – Day 3, Thursday October 22, 2009

7:00 – 8:00 AM	REGISTRATION
8:00 – 8:15 AM	Introduction <i>Speaker:</i> Natasha Sefcovic
8:15 – 9:00 AM	Supporting Collaboration and Secure Data Sharing on the Grid: caGrid Portal, BioPortal, and Exposing caGrid Data Services as Linked Data <i>Speakers:</i> Jyotishman Pathak ⁵⁴ , Joshua Phillips ⁵⁵ , Trish Whetzel ⁵⁶ <i>Facilitator:</i> Mike Keller <i>Goal:</i> To discuss current efforts to support secure data sharing and collaboration on the grid. To educate the workspaces on emerging security standards and technologies as well as provide insight as to how they may be applicable in caBIG [®] .

caBIG[®] Architecture/Vocabularies and Common Data Elements Joint Workspace Face-to-Face Meeting
Atlanta, Georgia ♦ October 20-22, 2009

Agenda – Day 3, Thursday October 22, 2009

9:00 – 9:30 AM	<p>LexRDF: A Semantic-Web Compatible Extension of LexGrid</p> <p><i>Speaker:</i> Cui Tao⁵⁷ <i>Facilitator:</i> Brian Davis</p> <p><i>Goal:</i> In this session, we will introduce the new LexRDF model, which serves as a semantic-web compatible extension of the NCI-adopted LexGrid model.</p>
9:30 – 10:00 AM	<p>caGrid Future Plans</p> <p><i>Speaker:</i> Scott Oster⁵⁸ <i>Facilitator:</i> Larry Brem</p> <p><i>Goal:</i> To provide attendees insight into the future release plans for the caGrid infrastructure, so they can provide input and plan accordingly for their own development and adoption efforts.</p>
10:00 – 10:15 AM	COFFEE BREAK
10:15 – 10:45 AM	<p>caGrid Identifiers Overview</p> <p><i>Speaker:</i> Scott Oster <i>Facilitator:</i> Larry Brem</p> <p><i>Goal:</i> To present the audience a high level overview of the general approach and architecture of the caGrid identifier infrastructure currently being developed, and gather feedback.</p>
10:45 – 11:15 AM	<p>Dynamic Extensions (DE) in caBIG[®] & caTissue Suite DE Query Prototype Demonstration</p> <p><i>Speakers:</i> Ian Fore⁵⁹ <i>Facilitator:</i> Natasha Sefcovic</p> <p><i>Goal:</i> To discuss the use of dynamic extensions and the architecture and vocabulary/semantic requirements needed for them to be created and used in caBIG(R) tools. We will also demonstrate the current status of the TBPT-KC prototype to enable grid queries of caTissue dynamic extensions via caB2B.</p>
11:15 – 12:15 PM	<p>Metadata Registries</p> <p><i>Speakers:</i> Denise Warzel, Steve Harris, Guoqian Jiang⁶⁰, Ashwin Mathur⁶¹ <i>Facilitator:</i> Brian Davis</p> <p><i>Goal:</i> To provide attendees with an update on the caDSR/MDR strategy and status of any new tool development while the infrastructure is being built out.</p>

caBIG[®] Architecture/Vocabularies and Common Data Elements Joint Workspace Face-to-Face Meeting
Atlanta, Georgia ♦ October 20-22, 2009

Agenda – Day 3, Thursday October 22, 2009	
12:15 – 12:45 PM	Value Domain/Set and Pick List Support in LexEVS 5.1 <i>Speaker:</i> Sridhar Dwarkanath ⁶² <i>Facilitator:</i> Brian Davis <i>Goal:</i> To familiarize with Value Domain/Set and Pick List part of LexGrid model and their functions supported in LexEVS 5.1 release.
12:45 – 1:15 PM	caGrid XML Data Service Framework (xService) and AIM Data Service at Emory University (AIME) <i>Speaker:</i> Tony Pan ⁶³ <i>Facilitator:</i> Daniela Smith <i>Goal:</i> To describe and demonstrate a framework for creating caGrid services using XML databases in a model driven approach.
1:15 – 1:30 PM	Meeting Wrap-up <i>Speakers:</i> Brian Davis and Mike Keller <i>Facilitator:</i> Natasha Sefcovic <i>Goal:</i> To summarize outcomes of the meeting, including high level next steps and action items, and close the meeting.
1:30 PM	MEETING ADJOURNS

¹ National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)

² Booz Allen Hamilton

³ Emory University

⁴ Centers for Disease Control and Prevention (CDC)

⁵ Deloitte / Centers for Disease Control and Prevention (CDC)

⁶ Booz Allen Hamilton

⁷ Ohio State University

⁸ Johns Hopkins University

⁹ Johns Hopkins University

¹⁰ Mayo Clinic

¹¹ SAIC-Frederick

¹² SAIC-Frederick

¹³ National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)

¹⁴ Persistent Systems

caBIG[®] Architecture/Vocabularies and Common Data Elements Joint Workspace Face-to-Face Meeting
Atlanta, Georgia ♦ October 20-22, 2009

15 Sapiient
16 Washington University
17 Capability Plus Solutions
18 SAIC
19 Washington University
20 Persistent Systems
21 Booz Allen Hamilton
22 University of Virginia
23 Creative Information Technology, Inc.
24 Duke University
25 Sapiient
26 National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)
27 National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)
28 Emory University
29 National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)
30 Emory Healthcare
31 Emory Transplant Center
32 University of Hawaii
33 Ohio State University
34 Emory University
35 Ekagra Software Technologies
36 Oxford Computing Laboratory
37 National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)
38 Guidewire Architecture
39 Guidewire Architecture
40 3rd Millennium, Inc.
41 M.D. Anderson
42 Baylor College of Medicine
43 ScenPro, Inc.
44 SAIC-Frederick
45 University of California, Davis
46 University of Maryland
47 Draper Laboratory
48 University of Chicago, Argonne National Laboratory
49 University of Southern California
50 Ohio State University
51 Sapiient

caBIG[®] Architecture/Vocabularies and Common Data Elements Joint Workspace Face-to-Face Meeting
Atlanta, Georgia ♦ October 20-22, 2009

- 52 Fox Chase Cancer Center
- 53 Georgetown University
- 54 Mayo Clinic
- 55 SemanticBits
- 56 Stanford University
- 57 Mayo Clinic
- 58 Ohio State University
- 59 National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)
- 60 Mayo Clinic
- 61 National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)
- 62 Mayo Clinic
- 63 Emory University