

## caBIG<sup>®</sup> Architecture/Vocabularies and Common Data Elements Joint Workspace Face-to-Face Meeting Agenda - DRAFT

<b>Meeting Location</b>	<b>W Atlanta Midtown Hotel:</b> 188 14th St NE, Atlanta, GA 30361 <i>Note: All sessions to be held in main room unless otherwise noted</i>
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Agenda - Day 1, Tuesday October 20, 2009	
<b>12:00 – 1:00 PM</b>	<b>REGISTRATION</b>
<b>1:00 – 1:15 PM</b>	<b>Meeting Introduction &amp; Agenda Overview</b> <i>Speaker:</i> Avinash Shanbhag <sup>1</sup> <span style="float: right;"><i>Facilitator:</i> Natasha Sefcovic<sup>2</sup></span>
<b>1:15 – 1:45 PM</b>	<b>Welcome &amp; Plenary</b> <i>Plenary Speaker:</i> TBD <span style="float: right;"><i>Facilitator:</i> Natasha Sefcovic</span>
<b>Theme 1: caBIG<sup>®</sup> Infrastructure Adoption</b>	
<b>1:45 – 2:15 PM</b>	<b>CDC Public Health Information Network</b> <i>Speakers:</i> Ken Hall <sup>3</sup> , Brian Lee <sup>4</sup> <span style="float: right;"><i>Facilitator:</i> Mike Keller<sup>5</sup></span> <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>
<b>2:15 – 2:45 PM</b>	<b>caGrid Knowledge Center: Contributions and Collaborations</b> <i>Speaker:</i> Justin Permar <sup>6</sup> <span style="float: right;"><i>Facilitator:</i> Larry Brem<sup>7</sup></span> <i>Goal: To provide high-level feedback from communities adopting caGrid.</i>
<b>2:45 – 3:00 PM</b>	<b>COFFEE BREAK</b>
<b>3:00 – 3:30 PM</b>	<b>Adoption and Adaptation of caGrid for CTSA</b> <i>Speaker:</i> Shannon Hastings <sup>8</sup> <span style="float: right;"><i>Facilitator:</i> Mike Keller</span> <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 NCRR to enhance and disseminate caGrid technology to the CTSA national consortium and under this effort we have been working on many aspects that enable easy adoption of caGrid across other domains.</i>

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<b>3:30 – 4:00 PM</b>	<b>caBIG<sup>®</sup> and Web 2.0: Service Integration and Federated Querying in the Cardiovascular Research Grid (CVRG)</b> <i>Speakers:</i> Stephen Granite <sup>9</sup> , Raimond Winslow <sup>10</sup> <i>Facilitator:</i> Mike Keller <i>Goal:</i> To provide feedback on current caBIG <sup>®</sup> infrastructure and guide future development.
<b>4:00 – 4:30 PM</b>	<b>Vocabulary Knowledge Center: Adoption Stories of the NCI Semantic Infrastructure</b> <i>Speakers:</i> Bob Freimuth <sup>11</sup> <i>Facilitator:</i> Musharaf Rashid <sup>12</sup> <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.
<b>4:30 – 5:00 PM</b>	<b>In Silico Research Centers of Excellence Program</b> <i>Speaker:</i> Kevin Groch <sup>13</sup> <i>Facilitator:</i> Natasha Sefcovic <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.
<b>5:00 – 5:30 PM</b>	<b>Cancer Bench to Bedside (caB2B): An Easy-to-Use Tool for Searching Across the caGrid</b> <i>Speakers:</i> Juli Klemm <sup>14</sup> , Srikanth Adiga <sup>15</sup> , Stephen Goldstein <sup>16</sup> , Rakesh Nagarajan <sup>17</sup> , Chris Piepenbring <sup>18</sup> , Konrad Rokicki <sup>19</sup> , Mukesh Sharma <sup>20</sup> , Chandrakant Talele <sup>21</sup> <i>Facilitator:</i> Daniela Smith <sup>22</sup> <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.
<b>5:30-6:00 PM</b>	<b>.NET and caBIG<sup>®</sup></b> <i>Speakers:</i> Marty Humphrey <sup>23</sup> , Joe Richardson <sup>24</sup> <i>Facilitator:</i> Daniela Smith <i>Goal:</i> To give an update on .NET activities in caBIG <sup>®</sup> , 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.
<b>6:00 PM</b>	<b>DAY 1 ADJOURNS</b>

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**Agenda – Day 2, Wednesday October 21, 2009**

7:00 – 8:00 AM				REGISTRATION	
BIRDS OF A FEATHER SESSIONS					
8:00 – 9:00 AM		BOF #1: Semantic Infrastructure Requirements Redux <i>Facilitators:</i> Sal Mungal <sup>25</sup> , Bilal Elahi <sup>26</sup> , Brian Davis, Frank Hartel <sup>27</sup> , Denise Warzel <sup>28</sup>		BOF #2: Development of caBIG <sup>®</sup> Comparative Effectiveness Research Enterprise Use Case <i>Facilitators:</i> Andrew Post <sup>29</sup> , Joel Saltz, Sherri De Coronado <sup>30</sup> , Javed Butler <sup>31</sup> , Allan Kirk <sup>32</sup>	
8:00 – 9:00 AM				BOF #3: Alignment of Developer Applications to DAMs <i>Facilitators:</i> Lynne Wilkens <sup>33</sup> , 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 <sup>34</sup> , Justin Permar, Joel Saltz <sup>35</sup>	
9:05 – 10:05 AM				BOF #6: Harmonization of cgMDR Development <i>Facilitators:</i> Denis Avdic <sup>36</sup> , Shannon Hastings, Steve Harris <sup>37</sup>	
10:05 – 10:20 AM COFFEE BREAK					
10:20 – 11:00 AM		Birds of a Feather Report Out <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> TBD <i>Facilitators:</i> Brian Davis <sup>38</sup> and Mike Keller			
12:00 PM – 1:00 PM LUNCH BREAK					
1:00 – 1:45 PM		More Town Hall Q&A <i>Speakers:</i> TBD <i>Facilitators:</i> Brian Davis and Mike Keller			

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<b>1:45 – 2:15 PM</b>	<p><b>Enterprise Architecture for Metadata and Vocabulary Services at M.D. Anderson Cancer Center</b></p> <p>Speaker: Michael Riben<sup>39</sup>      Facilitator: 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<sup>®</sup>; to understand the components and approaches M.D. Anderson is using to solve semantic interoperability challenges; integration of caBIG<sup>®</sup> technologies and infrastructure to solve enterprise architecture.</i></p>
<b>2:15 – 2:45 PM</b>	<p><b>caBIG<sup>®</sup> Life Science Business Architecture Model (LSBAM) and Domain Analysis Model (LSDAM)</b></p> <p>Speakers: Lauren Boyd<sup>40</sup> and Lisa Schick<sup>41</sup>      Facilitator: Larry Brem</p> <p><i>Goal: To familiarize F2F participants with the caBIG<sup>®</sup> Biomedical Research (BR) Business Architecture Model (BAM), its role in caBIG<sup>®</sup> 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>
<b>2:45 – 3:15PM</b>	<p><b>Architectural and Ontological Issues in Quantitative Imaging</b></p> <p>Speaker: Stuart Turner<sup>42</sup>, Eliot Siegel<sup>43</sup>, Joel Saltz, Andrew Buckler<sup>44</sup>      Facilitator: 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>
<b>3:15 – 3:40 PM</b>	<p><b>caBIG<sup>®</sup> Workflow Infrastructure: Enabling Scientific Discovery</b></p> <p>Speaker: Ravi Madduri<sup>45</sup>      Facilitator: Larry Brem</p> <p><i>Goal: To demonstrate the use of workflow infrastructure in enabling scientific discovery within caBIG<sup>®</sup> community.</i></p>
<b>3:40 – 4:00 PM</b>	<p><b>Semantic Workflows in caBIG<sup>®</sup>: Metadata Meets Computational Workflows</b></p> <p>Speaker: Yolanda Gil<sup>46</sup>      Facilitator: Brian Davis</p> <p><i>Goal: To introduce the use of metadata in semantic workflow systems to assist users with computational experimentation and data analysis.</i></p>

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<b>4:00 – 4:15 PM</b>	<b>COFFEE BREAK</b>
<b>4:15 – 4:45 PM</b>	<b>Cloud Computing</b> <i>Speaker:</i> Avinash Shanbhag <i>Goal:</i> TBD <i>Facilitator:</i> John Eisenschmidt <sup>47</sup>
<b>4:45 – 5:45 PM</b>	<b>Standards Panel Discussion</b> <i>Speakers:</i> Hua Min <sup>48</sup> , Sal Mungal, Baris Suzek <sup>49</sup> <i>Goal:</i> To update the community on emerging standards and VCDE efforts in this area. <i>Facilitator:</i> Brian Davis
<b>5:45 PM</b>	<b>DAY 2 ADJOURNS</b>

**Agenda – Day 3, Thursday October 22, 2009**

<b>7:00 – 8:00 AM</b>	<b>REGISTRATION</b>
<b>8:00 – 8:15 AM</b>	<b>Introduction</b> <i>Speaker:</i> Natasha Sefcovic
<b>8:15 – 9:00 AM</b>	<b>Supporting Collaboration and Secure Data Sharing on the Grid: caGrid Portal, BioPortal, and Exposing caGrid Data Services as Linked Data</b> <i>Speakers:</i> Jyotishman Pathak <sup>50</sup> , Joshua Phillips <sup>51</sup> , Trish Whetzel <sup>52</sup> <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 <sup>®</sup> . <i>Facilitator:</i> Mike Keller
<b>9:00 – 9:30 AM</b>	<b>LexRDF: A Semantic-Web Compatible Extension of LexGrid</b> <i>Speaker:</i> Cui Tao <sup>53</sup> <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. <i>Facilitator:</i> Brian Davis

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<b>9:30 – 10:00 AM</b>	<p><b>caGrid Future Plans</b>  <i>Speaker:</i> Scott Oster<sup>54</sup>  <i>Facilitator:</i> Larry Brem  <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>
<b>10:00 – 10:15 AM</b>	<b>COFFEE BREAK</b>
<b>10:15 – 10:45 AM</b>	<p><b>caGrid Identifiers Overview</b>  <i>Speaker:</i> Scott Oster  <i>Facilitator:</i> Larry Brem  <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>
<b>10:45 – 11:15 AM</b>	<p><b>Dynamic Extensions (DE) in caBIG<sup>®</sup> &amp; caTissue Suite DE Query Prototype Demonstration</b>  <i>Speakers:</i> TBD in coordination with Ian Fore<sup>55</sup>  <i>Facilitator:</i> Natasha Sefcovic  <i>Goal:</i> TBD</p>
<b>11:15 – 12:15 PM</b>	<p><b>Metadata Registries</b>  <i>Speakers:</i> Denise Warzel, Steve Harris, Guoqian Jiang<sup>56</sup>, Ashwin Mathur<sup>57</sup>  <i>Facilitator:</i> Brian Davis  <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>
<b>12:15 – 12:45 PM</b>	<p><b>Value Domain/Set and Pick List Support in LexEVS 5.1</b>  <i>Speaker:</i> Sridhar Dwarkanath<sup>58</sup>  <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.</p>
<b>12:45 – 1:15 PM</b>	<p><b>caGrid XML Data Service Framework (xService) and AIM Data Service at Emory University (AIME)</b>  <i>Speaker:</i> Tony Pan<sup>59</sup>  <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.</p>



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<b>1:15 – 1:30 PM</b>	<b>Meeting Wrap-up</b> <i>Speakers:</i> Brian Davis and Mike Keller <i>Facilitator:</i> Natasha Sefcovic <i>Goal: To summarize outcomes of the meeting, including high level next steps and action items, and close the meeting.</i>
<b>1:30 PM</b>	<b>MEETING ADJOURNS</b>

- <sup>1</sup> National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)
- <sup>2</sup> Booz Allen Hamilton
- <sup>3</sup> Centers for Disease Control and Prevention (CDC)
- <sup>4</sup> Deloitte / Centers for Disease Control and Prevention (CDC)
- <sup>5</sup> Booz Allen Hamilton
- <sup>6</sup> Ohio State University
- <sup>7</sup> SAIC-Frederick
- <sup>8</sup> Ohio State University
- <sup>9</sup> Johns Hopkins University
- <sup>10</sup> Johns Hopkins University
- <sup>11</sup> Mayo Clinic
- <sup>12</sup> SAIC-Frederick
- <sup>13</sup> SAIC-Frederick
- <sup>14</sup> National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)
- <sup>15</sup> Persistent Systems
- <sup>16</sup> Sapient
- <sup>17</sup> Washington University
- <sup>18</sup> Capability Plus Solutions
- <sup>19</sup> SAIC
- <sup>20</sup> Washington University
- <sup>21</sup> Persistent Systems
- <sup>22</sup> Booz Allen Hamilton
- <sup>23</sup> University of Virginia
- <sup>24</sup> Creative Information Technology, Inc.
- <sup>25</sup> Duke University
- <sup>26</sup> Sapient

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27 National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)  
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29 Emory University  
30 National Cancer Institute Center for Biomedical Informatics and Information Technology (NCI CBIIT)  
31 Emory Healthcare  
32 Emory Transplant Center  
33 University of Hawaii  
34 Ohio State University  
35 Emory University  
36 Ekagra Software Technologies  
37 Oxford Computing Laboratory  
38 3<sup>rd</sup> Millennium, Inc.  
39 M.D. Anderson  
40 Baylor College of Medicine  
41 ScenPro, Inc.  
42 University of California, Davis  
43 University of Maryland  
44 Draper Laboratory  
45 University of Chicago, Argonne National Laboratory  
46 University of Southern California  
47 5AM Solutions  
48 Fox Chase Cancer Center  
49 Georgetown University  
50 Mayo Clinic  
51 SemanticBits  
52 Stanford University  
53 Mayo Clinic  
54 Ohio State University  
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