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| **Tue 23-Jun** | **caBIG® and caGrid Overview / Metadata Infrastructure** | **Paul Mulhern, Scott Oster, Justin Permar** |

# Team Introductions (30 min)

* History of caGrid team
* Goals of Novartis team

# caBIG® (1 hour)

* + Initiative
  + Concept
  + Governance
  + Motivating examples of semantic grid approach

1. **Grid Concept (1 hour)**
   * Differences from web services
   * WSRF / stateful services
   * Federated security
   * Semantically annotated resources
2. **caGrid Overview (2 hours)**
   * Architecture overview
   * Component/Service survey
   * Deployment
     + NCI Production Grid example
     + Options when deploying one’s own grid
3. **Metadata Infrastructure (2 hours)**

* General Information (30 min)
  + - Overview / Model-driven Architecture
    - Metadata Registries
      1. Annotated XMI -> caDSR
      2. XSD registered in GME
      3. Concepts in EVS Service / NCIt
* Grid Infrastructure (1.5 hours)
  + - Metadata Models
    - MMS
    - Advertisement and Discovery
    - caGrid Portal
    - Introduce Support

1. **Data Infrastructure (2 hours)**
   * Domain Modeling
   * CQL
   * FQP/DCQL

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| **Wed 24-Jun** | **caGrid Security Services** | **Scott Oster, Steve Langella, Justin Permar, Vijay Parmar, Santhosh Garmilla** |

1. **Security (8 hours)**
   * + General Background and Overview
     + Authentication Service
     + Dorian
     + Grid Trust Service
     + Credential Delegation Service
     + Web Single Sign-on
     + Deployment/ Integration

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| **Thu 25-Jun** | **Service Development** | **Steve Langella, Shannon Hastings, Justin Permar** |

1. **Introduce Overview (4 hours)**
   * + Extension Framework
       1. Archictecture
       2. Data Extensions
       3. caBIG® metadata extensions
       4. gRAVI
     + Service APIs
       1. WS-Enumeration
       2. WS-Notification
       3. caGrid Transfer
          1. Tide
     + Security Integration
     + Deployment and Packaging
2. **Hands on examples and demonstrations (4 hours)**
   * + Extensions to training materials relevant to the above
     + Working session with examples from requests from attendees

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| **Fri 26-Jun** | **Design and Deployment** | **Steve Langella, Shannon Hastings, Justin Permar** |

1. **Design Session: review topics covered as applicable to Novartis objectives (4 hours)**
2. **Workflow (1 hour)**
   * Taverna/BPEL/Caos
3. **caGrid and Novartis: Moving forward (1 hour)**

* Support
* caGrid Knowledge Center Overview

*Training ends at approximately 2:00pm*

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