caGrid Risks

# SHA 2 support release

* Downstream products will be required to upgrade to adopt the changes to caGrid which support SHA 2 certificates. Since most of the caBIG development teams are shut down, and are unable to upgrade, the SHA 2 support release cannot be published or deployed to production.
* Weeks reported: 18 (at least since July 2011 status report)
* Assigned to: NCI
* Assessment
  + Likelihood: (4 – High)
    - There does not appear to be significant movement toward bringing other product development teams back on line
  + Consequence: (4 – High)
    - Technical: (2 – Low)
      * Development of the SHA 2 support is code complete and a development grid instance has been deployed at OSU. Better product support and performance would be facilitated by interaction with active adopters.
    - Schedule: (4 – High)
      * The release and deployment of the SHA 2 support cannot be made until the other development teams are reactivated, a decision is made to support a parallel grid instance, or the downstream impact is deemed to be acceptable.
    - Cost: (Uncertain)
* Risk Handling Plan
  + Mitigation: The dev team proposes rolling out a parallel grid instance with SHA 2 support and bringing product development teams back on to perform their own migration and testing.

# De-scoped and scaled-back development

* The de-scoped and scaled down development model being applied to caGrid will make it difficult to deliver new features that customers and users have requested in a timely manner.
* Weeks reported: 18 (At least since July 2011 status report)
* Assigned to: NCI
* Assessment
  + Likelihood: (5 – Certainty)
    - The number of developers and their allocation to the caGrid project has been significantly reduced.
    - The scope of the project has been significantly narrowed.
  + Consequence: (3 – Moderate)
    - Technical: (3 – Moderate)
      * New feature requests are delayed or dropped from consideration.
    - Schedule: (3 – Moderate)
      * Features which are selected for inclusion in caGrid will take longer to implement than was previously possible.
      * External adopters considering adopting caGrid may choose other technology that can more quickly be adapted to their needs.
    - Cost: (2 – Low)
      * Potential funding from external adopters may not be forthcoming since the inclusion of new features may be delayed.
  + Risk Handling Plan:
    - TBD

# Tech Stack changes

* The NCI tech stack calls for specific versions of tools such as Hibernate, Spring, JBoss, and Tomcat. caGrid cannot always move to the approved / supported versions of those technologies due to external dependencies which themselves do not support the newer tech stack.
* Weeks reported: 2
* Assignment: TBD
* Assessment:
  + Likelihood: (3 – Likely)
    - The tech stack specifies versions of Tomcat and JBoss which are not currently supported, but work is under way to support them.
    - The tech stack specifies versions of Spring and Hibernate which external dependencies like Grouper and the caCORE SDK do not work with.
  + Consequence: (3 – Minor)
    - Technical: (3 – Minor)
      * If it is determined that in order to support the continued interoperation with external tools that the currently used versions of Spring, Hibernate, and a few other APIs is acceptable, then these particular instances are of little technical consequence.
      * Migration to the supported versions of Tomcat and JBoss is proving to be a technical hurdle
    - Schedule: (3 – Minor)
      * Support for JBoss may take some time to get right, as the tech stack version is dramatically different than the currently supported version. This could lead to delays in producing a release of caGrid which supports the tech stack version of JBoss.
    - Cost: (3 – Minor)
      * Continuing to use the older, currently supported versions of tools simplifies the development process at the cost of training administrators and adopters to utilize the software.
      * Conversely, updating caGrid to use the new tech stack will cost time and money, but at the somewhat reduced level of effort for adopters and systems administrators.
  + Risk Handling Plan:
    - The caGrid development team is proceeding under the assumption that the tech stack should be supported to the greatest reasonable extent.