# caGrid 1.x Core Development Top Issues

1. SHA 2 support
   1. Implemented as a follow-up to caGrid 1.4 using that codebase
   2. ***Community announcement required from ~~Enterprise Security~~******the Government*** (<https://tracker.nci.nih.gov/browse/CSS-4>)
   3. *Estimate 2-3 months of dev time remaining*
2. caCORE SDK 4.4 support as an Introduce Extension
   1. Can be rolled out to caGrid 1.3 and 1.4 post release
   2. *Estimate 1 weeks of dev time remaining*
3. Restructure the caGrid repository and build
   1. Improve modularity and ease of adoption
   2. *Estimate 1 week*
4. FQP enhancements
   1. Improve performance and scalability
   2. Borrow heavily from UAB’s changes
   3. *Estimate two weeks*
5. Support for Tomcat 6 and Jboss 5
   1. Migrate to modern NCI approved tech stack
   2. *Estimate two weeks*
      1. Possibly more time if integration tests need to substantially change

# Other major issues

1. Rework Introduce classloader to play nice under windows (long classpaths problem)
   1. https://jira.citih.osumc.edu/browse/CAGRID-631
2. Introduce client template changes to let users set the timeout
   1. https://jira.citih.osumc.edu/browse/CAGRID-597
3. Dorian UI and DB management fixes WRT user account suspension / revocation affecting host certificates requested by that account. The CRL calculates correctly, but the DB and UI still show the certs as Active
   1. https://jira.citih.osumc.edu/browse/CAGRID-635
4. Upgraders for Introduce to move services from 1.x-2 to 1.x
   1. https://jira.citih.osumc.edu/browse/CAGRID-594
5. Better / complete support for openJDK 6, maybe 7 too
   1. <https://jira.citih.osumc.edu/browse/CAGRID-652>
6. Rewrite the index service using the same WSDLs
   1. fix memory leaks!
   2. configuration to disallow non-routable hostnames
   3. https://jira.citih.osumc.edu/browse/CAGRID-653
7. Remove castor 0.9.9 in favor of 1.0.2 or 1.3 (caCORE uses 1.0.2)
8. Integration between data services / CQL 2 extensions and Identifiers
9. XMI to XSD grid service
10. API to get host identities
11. Top-level ‘configure’ ant target to be more flexible, support 3rd party target grids more easily
12. Rework GAARDS-UI’s target grid selector to do something more reasonable
13. Introduce deployment UI to support “advanced” mode with no-deployment-validation for example
14. caGrid build to support Ant 1.8.x
15. Dorian user password reset mechanism
16. Fix build w/ spaces in path
17. Unify caGrid ivy repository to one URL with multiple versions in it

# How it goes…

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Larry claims he wants to keep this to a strict time limit per user.

Project plan: dependencies, what needs done (bugs), what you’d like to do (features), how long it’ll take, whom (specifically – users by name, communities, external projects) it impacts. Do all that before actually working on stuff.

Derive use cases from John Speakman’s group (Arch WS??), vet with infrastructure team, present a package to the PMO and TRB, then go do it - Or not.