# 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*** (<https://tracker.nci.nih.gov/browse/CSS-4>)
   3. *Estimate 2-3 months of dev time*
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 2 weeks of dev time*
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)
2. Introduce client template changes to let users set the timeout
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
4. Upgraders for Introduce to move services from 1.x-2 to 1.x
5. Better / complete support for openJDK 6, maybe 7 too
6. Rewrite the index service using the same WSDLs
   1. fix memory leaks!
   2. configuration to disallow non-routable hostnames
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.