



Enabling Grids for E-science

# Security Packages Dependencies

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**Can't see any real dependency problems in components to be covered, only inconveniences in test-utils.**

- **Trustmanager**
- **Util-java**
- **Test-utils**
- **SSSS**
- **gJaf**
- **Delegation**

## Trustmanager

- **Bouncycastle** – needed for the PEM format reading, cryptography etc
- **Log4j** – needed for flexible logging
- **Junit** – only needed during build for unit testing
- **Util-java** – general security classes
- **Test-utils** – only during build, for test certificates
- **Axis** – for axis integration
- **Tomcat** – for tomcat integration

## Util-java

- **BC, log4j, junit, test-utils, axis** as above.

- **Openssl – for generating test certificates**
- **Voms – for generating test voms certificates**
- **Problematic as this pulls in a lot of dependencies on C software when we're building java!**
  - But, making test certificates in java would probably make things veery slow
- **There are plans of separating voms test certificates into authz-test-utils**
- **Rationalization of the test certificate set could make things a bit faster**

## Delegation

- Depends on util-java and it's dependencies
- Mockobjects and tomcat

## gJaf

- Util-java – for security utility classes
- Axis – for axis integration
- Jglobus – for gridmap support
- Junit - for unit testing
- Future work will add dependencies, OpenSAML, Sun XACML, Xml-sec

## Ssss

- Openssl – for generating secure random numbers