

GT4 Component Fact Sheet

WS Authentication & Authorization

Last updated: 19 July 2004

General Component Description

This component contains libraries supporting authentication and authorization for GT WS components. This includes functionality such as X.509 based authentication and message protection, GSI SecureConversation based authentication and message protection and an authorization framework including various authorization mechanisms.

What's New in GT4?

The following new features will be added:

- A more generic per-method authorization framework (includes integration with XACML)
- Now based on WSS4J (implies Web Services Security 1.0 support)
- Replay & Encryption support for messages secured using public key cryptography
- A delegation service (decouples delegation from GSI-SecureConversation)
- A SAML authorization callout (based on work done in the GGF OGSA-AUTHZ WG)
- A WSRF port of CAS (Community Authorization Service)
- CAS support in the new GridFTP server
- The ability to evaluate CAS assertions within the WS authorization framework

Backward Compatibility Statement

The changes in this component for GT4 will break both protocol and API compatibility with the WS Authentication and Authorization code included in GT3.

Technology Dependencies

This component depends upon the GT Java WS Core package, OpenSAML, BouncyCastle, Sun XACML, the Cryptix JCE provider and ASN1 library, PureTLS, CoG Java GSI GSSAPI and the Apache XML Security libraries.