

GT4 Component Fact Sheet

C WS Core

Last updated: 19 July 2004

Component Description

The C WS Core provides a basic toolset in C for creating WSRF-enabled web services and clients. It provides doc/literal binding generation from WSDL with asynchronous stub functions, efficient SOAP messaging and HTTP transport using Globus XIO, as well as dynamic handler support. Below are the different features expected for the release cycles:

- *July Alpha Release:* In this preliminary release, only client-side stub binding generation will be supported. Also support for WS-Security in the C WS Core component will not be included in the release.
- *October Full-Featured Release:* This release will include the features described for the July release, as well as full service-side binding generation, WS-Security support, and WS-Notification support.

What's New in GT4?

The previous C WS implementation in GT3 was a client-side only implementation based on gSOAP, and did not include binding generation directly from WSDL. The GT4 implementation provides support for WSRF as well as server-side support, binding generation from WSDL, and better integration into the Globus C framework.

Backward Compatibility Statement

This implementation will not be backward compatible with any previous GT3 releases.

Technology Dependencies

The C WS core implementation uses Globus XIO for efficient transport, with an HTTP driver for sending HTTP messages. The APIs in this implementation rely heavily on the Globus C framework, such as the asynchronous event handling provided by `globus_common`. The GSI in C codebase is used by the WS-Security implementation.