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Introduction to Fusion XML SOAP

Fusion's SOAP (Simple Object Access Protocol) toolkit provides a low level C language API for performing client and server SOAP 1.1 communication as defined by the W3C (World Wide Web Consortium).

SOAP provides an RPC (Remote Procedure Call) capability using XML encoding that allows greater platform independence and interoperability with enterprise networks.

The SOAP implementation supports the HTTP 1.1 (Hyper Text Transport Protocol) and includes both HTTP client and server software. The HTTP protocol is built on top of a Berkeley Sockets interface and has existing ports for Fusion, Windows and Linux.

The SOAP API is divided into four sections:

- Client framework API
- Server framework API
- Encoding API
- Decoding API

SOAP Client API

The SOAP client API provides the capability to:

- Build a SOAP compliant request (from C primitive types, structures and arrays)
- Send it to a compliant SOAP server
- Receive a response
- Decode the response using convenience routines provided in the toolkit

The encoding API is used to encode the request and the decoding API is used to decode the response. Convenience routines are provided to decode faults.

Server API

The SOAP server API provides the ability to:

- Set up a server
- Add services to and remove services from that server
- Implement a callback that will be invoked when the respective service is called.

The decoding API is used to decode the request and the encoding API is used to encode the response. Convenience routines are provided to encode faults.

Encoding and Decoding API

The encoding API provides the ability to take C primitive language types, structures and arrays, and convert them to XML for use in a SOAP message.

The decoding API provides the ability to convert the XML in a SOAP message into native C primitive types, structures and arrays.

Both the encoding and decoding API provide the flexibility to process data in custom ways. This frees the developer from having to know: XML syntax, XML Schema syntax, and SOAP encoding rules.



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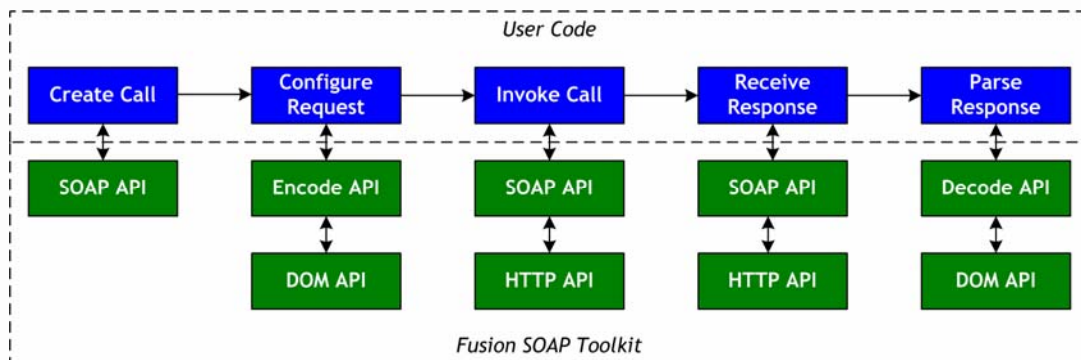
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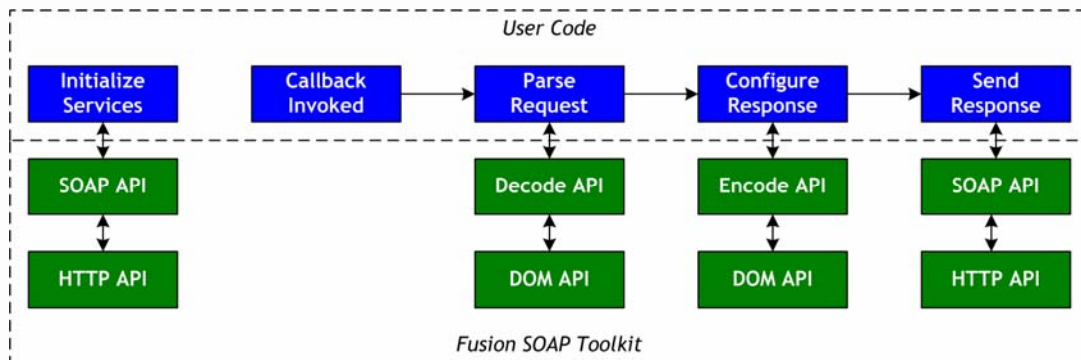
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Client Example



Server Example



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