XBinder™ XML Schema Compiler

The complexity of producing well constructed, reliable class libraries from XML schema can challenge any project's timeline and staff productivity. The **XBinder**™ XML data binding tool substantially streamlines and simplifies a project's development and maintenance time by automatically serializing objects into XML and deserializing XML into C, C++, C#, or Java objects.

XBinder for Performance

Operations such as validation or (de)serialization are generally faster with code generated from XML schema than with validating parsers since decisions can be made at compile time and built directly into the code. Validating parsers load and use a schema at run-time to validate or serialize messages conforming to that schema.

XBinder For Simplicity

XBinder automates production of well constructed, easy-to-read code - that means less time spent in project development and faster time-to-market cycles. Its easy-to-use graphical user interface wizard makes the task of selecting files and options a breeze. The resulting generated code allows programmers to work with variables and structures in a familiar programming language without the need to understand the intracies of XML and XML schema.

XBinder For Reliability

XML data binding applications assure the validity of generated XML documents by working at the schema level. All documents are generated consistently. If a defect is found in the process, a single fix to the generation or parsing process within the data binding software assures that the fix will be propagated to all XML documents generated by the application.

XBinder For Messaging

XBinder can be used to parse the Web Service Definition Language (WSDL) files that define SOAP messages. The user can then format and parse the messages used in these transactions with existing transport software.

XBinder For You

When it comes to both pricing and support, XBinder excels at keeping users satisfied and productive. Objective Systems understands that customer support is paramount and provides every XBinder user with a comprehensive and competent support environment they need to keep their project moving.

Smarter. Faster. Safer.

With XBinder you'll speed your time-to-market with automated, ultra-reliable code generation that will drive down both your development and maintenance costs.

- Generates code in multiple languages (C, C++, C#, Java)
- Portable, high quality code tested on many platform types (Windows, Unix, embedded)
- Full source code available
- Royalty free
- Low cost development license
- Comprehensive support of XSD features
- Cross-platform GUI wizard
- Small footprint for embedded environments
- SOAP / WSDL support

"My kind of product, no unnecessary frills or hype, supported by competent people, an informative website, and comprehensive documentation"

Ian Garvie
Senior Software Engr.
Intermain, Ltd.

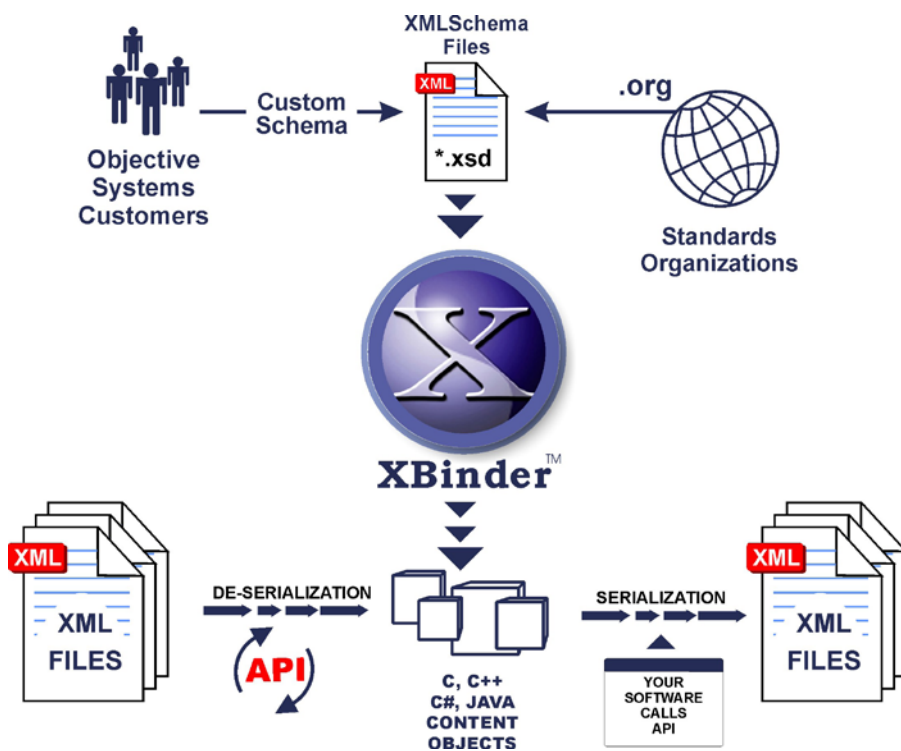**objective** SYSTEMS, INC.

About XBinder and Schema Binding

The source code produced by XBinder consists of type definitions and encode/decode functions, providing a complete Application Programming Interface (API) for working with all of the message definitions contained within an XML schema specification. In addition to the compiler, a run-time library containing functions to encode and decode the base XML schema simple types is provided. The XBinder compiler assembles a series of calls to these functions to accomplish the encoding or decoding of more complex message types.

XBinder's generated code uses a common base run-time library consisting of a set of low-level primitive functions for encoding and decoding the base types. The code allows XML data messages to be generated (encoded) by populating a structure and calling a common encode function. In other similar products, this process is referred to as "marshalling" or "serialization". XML messages can be parsed or decoded into an equivalent generated C structure.

Custom API's and Software Development

Objective Systems offers cost saving, custom development of API's for XSD or ASN.1 specifications that include the generated source code, base run-time libraries, sample programs, along with the our outstanding support and product warranty. Preassembled are packages available for some of the more common ASN.1 specifications.

For more advanced applications the Objective Systems team can develop a customized message-processing framework that can include highly optimized message-processing loops, file or database applications, space optimized applications for embedded systems, and multithreaded applications.

Technical Specifications

Output Languages: C, C++, C#, Java

Platforms : Windows, Solaris, Linux, HP-UX , Mac OSX, IBM AIX, and other embedded platforms

W3C Standards Supported

- XML Schema Part 0: Primer Second Edition
- XML Schema Part 1: Structures Second Edition
- XML Schema Part 2: Datatypes Second Edition

Example Schemas

Some examples of schema's already used by XBinder customers.

- ECMA-323 (CSTA XML)
- G2S (Gaming Standard Association)
- FpML (Financial products Markup Language)
- FIXML (Financial Information Exchange Markup Language)
- GML (Geography Markup Language)
- XMPP (Extensible Messaging and Presence Protocol)
- *more...*

Download
XBinder's free evaluation at *www.obj-sys.com*

Versions
for evaluation are available for Windows, Linux, various UNIX platforms, and Apple Mac OSX

Better Programming Tools. Outstanding Support