

# OSS Binary XML Solutions

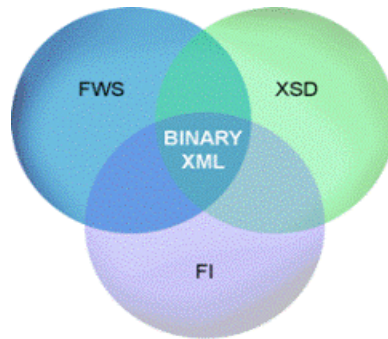
Solutions for Optimized XML & Web Services

## Performance and bandwidth problems affecting your XML deployment?

A popular platform with many advantages, XML presents several problems when deploying in bandwidth or resource-constrained environments. On average, XML requires 10 times more bandwidth than a binary representation. Common compression solutions such as gzip reduce size, but increase processing costs. Web Services applications, which are heavily dependent on XML based messaging, can be especially vulnerable to XML related problems.

Now you can take advantage of two complementary, proven technologies – XML and binary encoding. The OSS Binary XML solutions optimize your XML and Web Services applications, reducing the size related costs associated with the transmission, parsing, and serialization of XML documents. Reduce costs without losing XML's many benefits such as inherent self-description and interoperability.

The OSS Binary XML Solutions for Java, C, and C++, based on international standards, are designed to be deployed without disrupting existing applications. Optimize your applications, while protecting your investment.



## 3 Binary XML Solutions – One is Right for You

- XML Schema Tools
- Fast Web Services Tools
- Fast Infoset Tools

### XML Schema Tools (XSD)

The OSS XSD Tools bind your XSD schema to Java, C, or C++ representations. Runtime libraries provide fast encoding of values of these representations into highly compact binary or XML encodings. Using standard, proven, binary encoding rules we can achieve better speeds and rates of compaction than commonly used compression algorithms. Our XSD Tools yield messages that average 1/10<sup>th</sup> the size of XML documents and our processing speed is 10 times faster than a traditional XML parser. Additional compression or decompression of the encoded data using zlib or a customized codec is supported. Decoders provide validation and fast transformation of incoming XML and binary documents. A PER SAX API provides a callback-based API for parsing binary documents. The OSS XSD Tools adhere to the W3C XML Schema and ITU-T X.694 standards.

### Fast Web Services Tools (FWS)

The OSS FWS Tools are ideal for those who use Web Services in resource-constrained and/or bandwidth-constrained environments. The OSS FWS Tools create and process highly efficient binary SOAP messages. XML SOAP messages are also supported ensuring your ability to exchange SOAP messages with XML based peers. The FWS Tools are conformant to the W3C WSDL 1.1, SOAP 1.1 and 1.2, WS-I Basic Profile 1.0, and ITU-T X.892 | ISO/IEC 24824-2 Fast Web Services recommendations. The OSS FWS Tools yield messages that average 1/5<sup>th</sup> the size of XML SOAP messages; our parsing speed is 5 times that of a traditional XML parser.

### Fast Infoset Tools (FI)

The OSS FI Tools offer an API for serializing/parsing a highly efficient, standards-based, binary form of XML data without the need for an XSD. The FI Tools can be used for arbitrary XML documents, producing binary FI documents that are, on average, 2-3 times smaller than XML documents. Fast Web Services use FI documents to carry the content of SOAP messages when no XSD is available. The FI Tools serialize and parse FI documents up to 5 times faster than a traditional XML parser. A SAX-like parser is included. The OSS XSD Tools adhere to the ITU-T X.891 standards.

## OSS Binary XML Tools

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## Complete XML Optimization – a 3-Variable Approach

Do you want to use XML in your applications, but don't want the size, parsing and serialization problems associated with XML's verbose format? Integrate our tools into your XML applications and experience our 3-variable optimization.

- SAX or DOM are popular choices for serializing your XML, but encoding binary is faster; and remember, you will still need an additional product for compression!
- SAX or DOM can parse your XML, but parsing/decoding binary is much faster!
- You could use Zlib or XMill to compress your XML, but these utilities offer compression only (no parsing nor serialization)... and at the price of performance!

**OSS offers the only Complete XML Optimization solution!**

**Compression, Fast Parsing, Fast Serialization ... in each of our 3 Binary XML Solutions.**

	Parsing	Serialization	Compression
SAX	✓	✓	
DOM	✓	✓	
Zlib			✓
XMill			✓
OSS Binary XML Solution	✓	✓	✓

### Download a Free Trial

*See For Yourself*

<http://www.oss.com/binaryxmltrial.html>

Evaluate the quality of our software, documentation, and 24X7 technical support. We are confident that you will agree with the choice made by our 900+ satisfied customers worldwide.

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