Welcome to Apache Santuario™

The Project

The Apache Santuario™ project is aimed at providing implementation of the primary security standards for XML:

- XML-Signature Syntax and Processing
- XML Encryption Syntax and Processing.

Two libraries are currently available.

- Apache XML Security for Java: This library includes the standard JSR-105 (Java XML Digital Signature) API, a mature DOM-based implementation of both XML Signature and XML Encryption, as well as a more recent StAX-based (streaming) XML Signature and XML Encryption implementation.
- Apache XML Security for C++: This library includes a mature Digital Signature and Encryption implementation using a proprietary C++ API on top of the Xerces-C XML Parser's DOM API. It includes a pluggable cryptographic layer, but support for alternatives to OpenSSL are less complete and less mature.

News

September 2022

Versions 3.0.1 and 2.3.2 of the Apache XML Security for Java library have been released. The main change is to remove Xalan as a provided (optional) dependency. This means that support for the XML Signature here() function is removed by default, but can be configured if needed (see this test for an example which plugs in this custom XPath implementation).

November 2021

Version 2.3.0 of the Apache XML Security for Java library has been released. This is a major new release of the library. Some of the significant changes include:

- A rewrite for the StAX output processor chain to make it deterministic - https://issues.apache.org/jira/browse/SANTUARIO-555
- Secure Validation is now enabled by default - https://issues.apache.org/jira/browse/SANTUARIO-574
- Local + HTTP ResourceResolvers are disabled by default - https://issues.apache.org/jira/browse/SANTUARIO-573

November 2021

Version 2.0.4 of the Apache XML Security for C++ library has been released. This release fixes a regression in 2.0.3 allowing the code to build on pre-1.1 OpenSSL versions.

Older News

See here for old news.