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## 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

#### March 2019

Version 2.1.3 of the Apache XML Security for Java library has been released.

Please see the [release notes](#) for more information.

#### November 2018

Version 2.0.2 of the Apache XML Security for C++ has been released.

This patch corrects a [bug](#) that can cause crashes in upstream applications. It is similar to, but not the same as, the one that was patched in V2.0.1, and resulted from further review of the code by the project that contributes all of the current manpower to the project. Appreciation is extended to the [Shibboleth](#) Project team for this review.

#### August 2018

Version 2.0.1 of the Apache XML Security for C++ has been released.

This patch corrects a [bug](#) that can cause crashes in upstream applications.

#### June 2018

Version 2.1.2 of the Apache XML Security for Java library has been released.

Please see the [release notes](#) for more information.

Version 2.0.0 of the Apache XML Security for C++ has been released.

Please see the [release notes](#) for basic information on bugs addressed. As a major upgrade, this release includes a range of relative minor, but visible, changes to the API that are not explicitly noted there. There are no features of significance added in this version, merely some refactoring and removal of deprecated APIs.

### Older News

See [here](#) for old news.