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Apache XML Security for Java

Overview

The Apache XML Security for Java library supports [XML-Signature Syntax and Processing, W3C Recommendation 12 February 2002](#) and [XML Encryption Syntax and Processing, W3C Recommendation 10 December 2002](#).

There are a number of different options open to the developer using the library. For XML Signature, three different approaches are available:

- The JSR-105 API: The standard Java XML Digital Signature API. This uses a DOM (in-memory) implementation under-the-hood.
- The Apache Santuario Java DOM API: The older DOM API which pre-dates JSR-105.
- The Apache Santuario Java StAX API: The newer StAX-based (streaming) API which uses far less memory for large XML trees than the DOM approach.

For XML Encryption, two different approaches are available:

- The Apache Santuario Java DOM API: A DOM API for XML Encryption.
- The Apache Santuario Java StAX API: The newer StAX-based (streaming) API which uses far less memory for large XML trees than the DOM approach.

The StAX-based (streaming) functionality is only available as of the 2.0.0 release. Please see the [Streaming XML Security](#) page for more information about how to use this approach.

News

August 2019

Version 2.1.4 of the Apache XML Security for Java library has been released.

This release contains a fix for a security advisory - CVE-2019-12400: Apache Santuario potentially loads XML parsing code from an untrusted source. Please see the [security advisories](#) page for more information.

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

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.

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.

Old News

See [here](#) for older news.