

CRYPTO

Overview

CRYPTO - [javax.crypto](#), [javax.crypto.interfaces](#), [javax.crypto.spec](#)

Status

Check the [component_development_status](#) page for the status of other [ClassLibrary](#) modules.

Component is temporarily included into [SECURITY](#) module.

J2SE 1.4.2

The current codes cover J2SE 1.4.2 API

Java 5.0

Current code is mostly compliant with J2SE 1.5 specification. It should be updated to reflect new Java 5.0 enhancements (e.g. generics, enums) when harmony has a 1.5 compatible VM

Below are some details about what's available, missing and in progress

Public API

This component contains implementation of public API, internal code and unit tests. All public 1.5 classes are implemented and tested..

The code contains a number of TODO's such as:

- switch to generics and/or enums
- use more efficient API introduced in 1.5
- implement optional features

Security Providers

There is no JCE providers implemented in Harmony.

When crypto functionality is necessary one may use open source [BouncyCastle](#) provider

Known issues:

Signed jar file verification requires some crypto algorithms. But [BouncyCastle](#) provider is located in a signed jar file. So, at least Message Digest SHA-1 and Signature SHA1withDSA should be implemented and placed into unsigned jar to verify signature in [BouncyCastle](#) jar.

Tools

No crypto related tools (e.g. keytool, jarsigner) are currently implemented.