

# PKCS11

## PKCS#11

*This standard specifies an API, called Cryptoki, to devices which hold cryptographic information and perform cryptographic functions. Cryptoki, pronounced crypto-key and short for cryptographic token interface, follows a simple object-based approach, addressing the goals of technology independence (any kind of device) and resource sharing (multiple applications accessing multiple devices), presenting to applications a common, logical view of the device called a cryptographic token.*

- [PKCS#11: Cryptographic Token Interface Standard](#)
- [Wikipedia on PKCS#11](#)

## Example Code

- [Sample PKCS#11 source code for BIND DNSSEC](#)
- [HSM Speed tester](#)
- [HSM Toolkit](#)

## Library Code

- The [OpenSC Project](#) has a PKCS#11 support for smartcards.
- [libp11](#) is a library implementing a small layer on top of PKCS#11 API to make using PKCS#11 implementations easier.
- [Engine PKCS#11](#) is an implementation of an engine for [OpenSSL](#).
- Love Hörnquist Åstrand has written a [software only implementation of PKCS#11](#).

## Other potentially useful Information

- [Darren Moffat's PKCS#11 URI Suggestion](#)