

# ENHANCING SECURITY SIMPLIFYING LIVES

# PKARD<sup>®</sup> TOOLKIT

Two-factor authentication with a smart card or derived credential is one of the highest forms of security available for mobile devices. Building this functionality into your applications allows you to be FIPS 140-2 compliant and meet HSPD-12, both necessary features for sales to the U.S.

government. Unfortunately, low-level APIs such as PC/SC and OpenSSL are difficult to work with, require frequent updates, and can add months of work to your development cycle. Fortunately, there is a better way.

Thursby Software's PKard Toolkit combines all the necessary APIs in an easy-to-use format and then does all of the work for you. More than just a rudimentary SDK, the PKard Toolkit gives developers everything they need to include two-factor authentication into their application. Easy-to-integrate APIs allow apps to make calls back to one of our apps, such as Sub Rosa, when certificate authentication is needed. Once we confirm the authentication, we pass that information back to your application, creating a seamless and secure user experience.

What's keeping you from taking your app to the next level? Providing the highest level of security and encryption is easier than you think. Most of our customers have a proof-of-concept ready in just a few days.

Email [sales@thursby.com](mailto:sales@thursby.com) today for more information on how you can obtain PKard Toolkit for Android and iOS completely free.



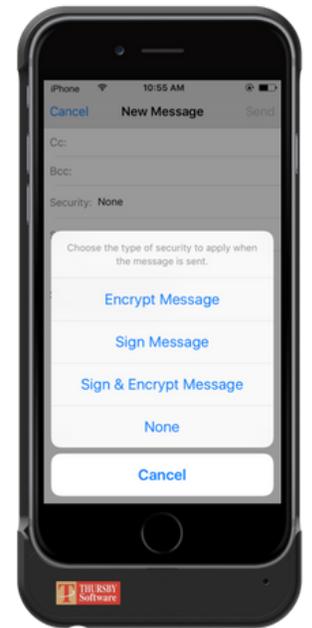
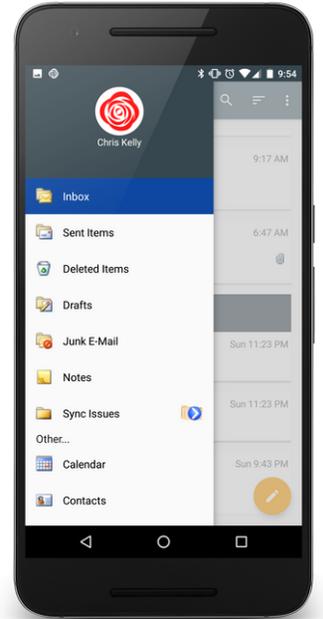


# PKard Toolkit

A THURSBY INTEGRATION SDK

## Highlights

- Completely free, no royalties or hidden costs
- U.S. engineered and supported
- Easy integration takes only a few days until a proof of concept
- No additional servers or services required
- Meets the highest government standards for security and encryption
- Allows you to meet FIPS 140-2 standards
- Includes OpenSSL libraries
- Includes support for CAC, PIV, and Derived Credentials (Purebred)
- Supports PKCS12 soft tokens
- X509 policy to control how certificates are validated
- Built-In software validation
- Ability to apply a two-factor enabled lock screen to your application
- Support for TLS/SSL and HTTPS
- Support for public key cryptography
- Apple - PKCS11 API for access to smart card tokens
- Apple - Some PC/SC API for direct access to smart cards
- Access to the developer portal, including: developer forum, a fully documented user guide, and a sample application
- Additional engineering support available with purchase of a demo kit
- Sample smart cards available with purchase of a demo kit



## Hardware

- Android - works with card readers that appear as a CCID device
- Android - works with most developer tools
- Apple - works with Thursby's PKard Reader or Precise Biometric's Tactivo
- Xcode ? Mac OS X v?
- Visit [www.thursby.com](http://www.thursby.com) to purchase compatible card readers
- Available on most Android devices running 5.0 and higher
- Available on iPhones, iPads, and iPods running 8.4 and higher

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