





# Secure Local Storage (SLS) by Promon SHIELD™




# How do you store your app data?

Mobile devices are increasingly used for security-sensitive activities such as online banking or mobile payments. This usually involves cryptographic operations, and may introduce challenges related to securely storing data on the device. At the same time, attacks and exploits on mobile devices continue to mature in sophistication.

## What are your options?

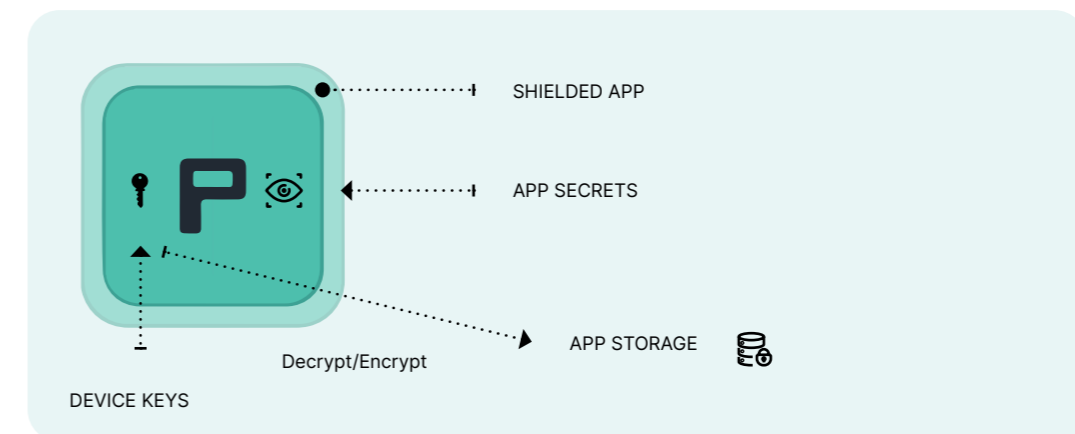
-  Store data unencrypted: You can store data unencrypted, but it's not advisable for sensitive data.
-  Roll your own: You could «roll your own» by storing crypto keys in plain text in your application code. However, using plain text means there is limited protection to a user's run-time data.
-  Whitebox crypto solution: You could implement a stand-alone whitebox crypto solution. This is however complex, time-consuming and costly. A whitebox solution is comparable to building a safe deposit box from scratch. Why not buy one in-store?
-  Hardware backed storage: You could choose hardware backed storage. Not all devices have the necessary hardware components to support this. Secondly, if your app or the end-user device is compromised (rooted/jailbroken), sensitive data could potentially leak.

 Secure Local Storage (SLS) by Promon SHIELD™: A state-of-the-art security feature that provides the ability to store app secrets locally on the end-user device in a secure manner. Compared to other solutions, SLS by Promon SHIELD™ is unparalleled in terms of simplicity and user-friendliness.

# Secure local storage made easy

All data stored using SLS by Promon SHIELD™ will be encrypted according to the latest standards and recommendations protected by Promon SHIELD™'s proven security technology. The feature does not rely on device functionality (such as key-chains) to provide secure storage of sensitive data and is fully self-contained.

The encryption keys used are never stored on the device, or added in the static code of the app, but are dynamically generated on the device protected by Promon's white box backed solution. This further ensures that the data is device-bound, and cannot be copied to a different device.



## Key benefits using SLS by Promon SHIELD™

- ☆ Easy to integrate: Reference code and well-defined APIs are provided.
- ☆ No crypto knowledge required: As an app provider, you don't have to deal with crypto complexities. This is time-consuming and often cumbersome
- ☆ State-of-the-art RASP: The feature uses Promon SHIELD™ to protect app secrets when used in an unencrypted state.
- ☆ Cross-platform: SLS by Promon SHIELD™ is offered as an extension on Android, iOS and Windows.

# Use case examples

## Tokens

Session tokens or persistent tokens can be securely stored, and removed by the app, and app publishers can be ensured that tokens can not be cloned onto other devices.

## Sensitive data

Apps storing personal information about the user on the device can with this feature ensure that data is stored securely, even if the device integrity is broken (e.g. rooted/jailbroken).

## API keys

The increased use of private or semi-private API access between device and server has shown the importance of protecting one's API keys. SLS by Promon SHIELD™ enables trust in that these keys are not only protected but can also ensure that they cannot be cloned.

[Request pricing](#)

## Promon SHIELD™

Promon's multi-layered In-App Protection solution, Promon SHIELD™, protects your app transparently without interrupting the user experience. It strengthens your app's resistance to malware, intrusion, tampering and reverse-engineering, while enabling your app to operate safely in untrusted environments.

Some of the largest banks and financial institutions in the world count on Promon SHIELD™ to meet their rigorous mobile app security requirements without slowing their app releases. Your Android, iOS or Windows apps can be quickly uploaded and secured in minutes by using our Shielder tool. Once secured, the app is immediately ready for distribution via public or enterprise app stores.

Promon AS is a Norwegian limited company registered in 2006, with offices in Germany, United Kingdom, United States and Asia. The head office is in Oslo, Norway.

[www.promon.co](http://www.promon.co)  
[info@promon.no](mailto:info@promon.no)  
+47 22 02 11 30