



MobilePKI for Application Developers

Extending PKI to mobile devices

It is estimated that by 2020, 70% of the world's population will own a smartphone and more than 1.2 billion tablets will be in use. The world is becoming increasingly connected and a growing number of high-value transactions and exchanges of information are moving from traditional paper environments to electronic transactions. Because it is one of the most trusted security frameworks, it's no surprise PKI is the method many government mandates around the world require citizens to use when performing tasks such as tax filing and document signing. And many of these government mandates extend to private organizations as well, in industries such as healthcare and education.

The demand for mobile solutions impacts many types of organizations. Whether a government agency, a certificate authority or a private enterprise needing to comply with

regulations requiring PKI, these organizations all have users increasingly pushing to perform their tasks on mobile devices. Most mobile devices however lack a USB port or internal reader and are therefore unable to support PKI credentials.

Gemalto's MobilePKI solution overcomes this problem by using a single PKI credential across multiple endpoint devices. Using Bluetooth connectivity, MobilePKI enables PKI-based authentication and other PKI-enabled capabilities such as strong authentication, digital signing and encrypted email on any device, even those lacking a USB port or internal reader. This allows organizations of all kinds to extend mobile use cases to the existing customer base and broaden PKI security to customers who need secure mobile credentials.

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Extending PKI to mobile devices for identity providers



CT1100

Solution components

The MobilePKI solution provides ISVs, system integrators, certificate authorities and trust centers with a full solution for developing PKI applications on mobile endpoints. The solution includes Bluetooth Smart enabled devices and extensive developing tools.

Bluetooth Smart Enables Devices

Offering a choice of form factors, the MobilePKI Office solutions consist of the SafeNet Reader CT1100, a Bluetooth Smart enabled smart card badge holder, and the SafeNet Reader K1100, a Bluetooth Smart enabled USB token.

The bluetooth devices are also compatible with all Windows PKI applications and act as a standard reader for PKI credentials in Windows environments. Also, for MAC desktops and laptops, MobilePKI is compatible with any PKI credential.

Both devices are extremely lightweight with up to a two month battery life and Gemalto's managed pairing provides secure, quick and easy connection with devices. The devices also feature multi-host support so users can connect to more than one device at the same time.



K1100

Software Development Tools

For software developers and OEM partners who want to develop their own mobile applications for iOS or Android, IDGo 800 for Mobile includes a software development kit (SDK) with code samples and documentation. IDGo 800 for Mobile includes a PKI API, an OTP API, a PC-SC API and a range of drivers to interface with a larger range of secure elements, such as Bluetooth Smart, Micro-SD, USB, NFC and smart card readers. With the SDK, OEMs and ISVs can develop custom applications for organizations in industries that are required to use PKI security, such as education, healthcare, government and more.

Why Gemalto

Gemalto's Identity Protection solutions enable enterprises, financial organizations and service providers to protect the daily digital interactions of employees, partners and customers by ensuring secure access to online resources and securing financial transactions. Gemalto's flexible management platforms and broad range of strong authentication technologies and form factors, allow organizations to adopt a forward-looking identity management strategy, ensuring that their security needs are met as new threats and use cases evolve. To learn more about Gemalto's complete portfolio of authentication solutions, visit our website at: www.gemalto.com/identity.

Supported Use Cases

- > eHealth, eProcurement and eGovernment applications
- > Smart Card logon
- > Strong two-factor authentication
- > Secure remote access (VPN/ Web)
- > Digital signature
- > Email encryption

Supported Operating Systems

- > Android and iOS

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