



Mobile PKI

**Wen-Cheng Wang, Ph.D., PMP,
Chief PKI Product Manager
Information and Communication Security Dept.,
Data Communications Business Group,
Chunghwa Telecom Co., Ltd.**

April 17, 2015



中華電信
Chunghwa Telecom



The Needs of Mobile PKI

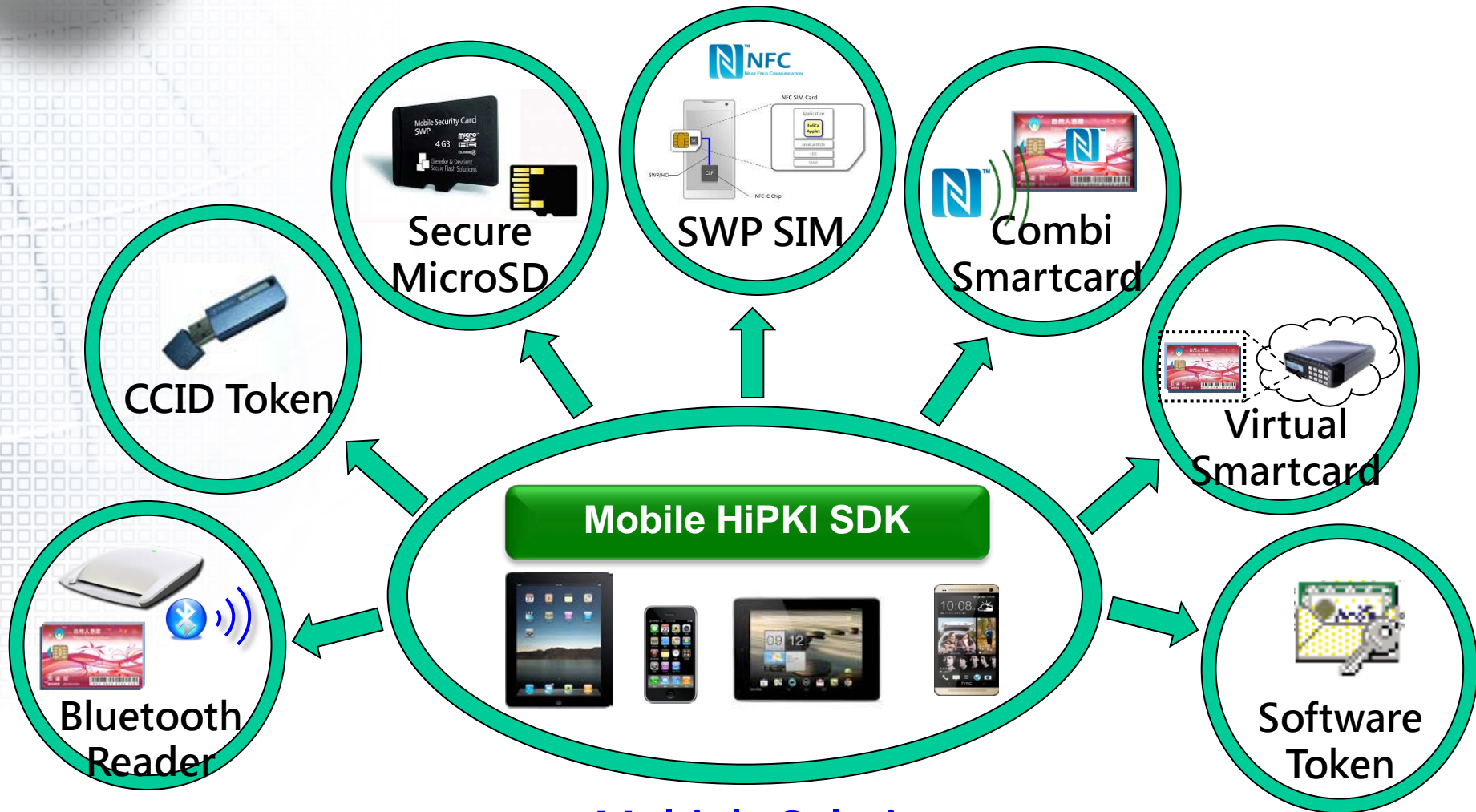
- More and more people own mobile devices such as smart phones/tablet computers.
- Governments and enterprises want to extend their online services to ubiquitous mobile users.
- The question is: **How can mobile users get access to PKI-enabled services ?**
- The quick answer is: **Mobile devices need to be PKI-enabled.**
- Mobile PKI will be essential in the trend toward digital convergence



The Challenge of Mobile PKI

- There is lack of common architecture or interface among different brands of mobile devices.
 - Most mobile devices do not support external USB readers.
 - Some mobile devices have no MicroSD slot.
 - Some mobile devices have no Near Field Communication (NFC) interface.
- How can the certificate smartcard be used on mobile phones?

Multiple Solutions for Mobile PKI



- Multiple Solutions
- Single SDK



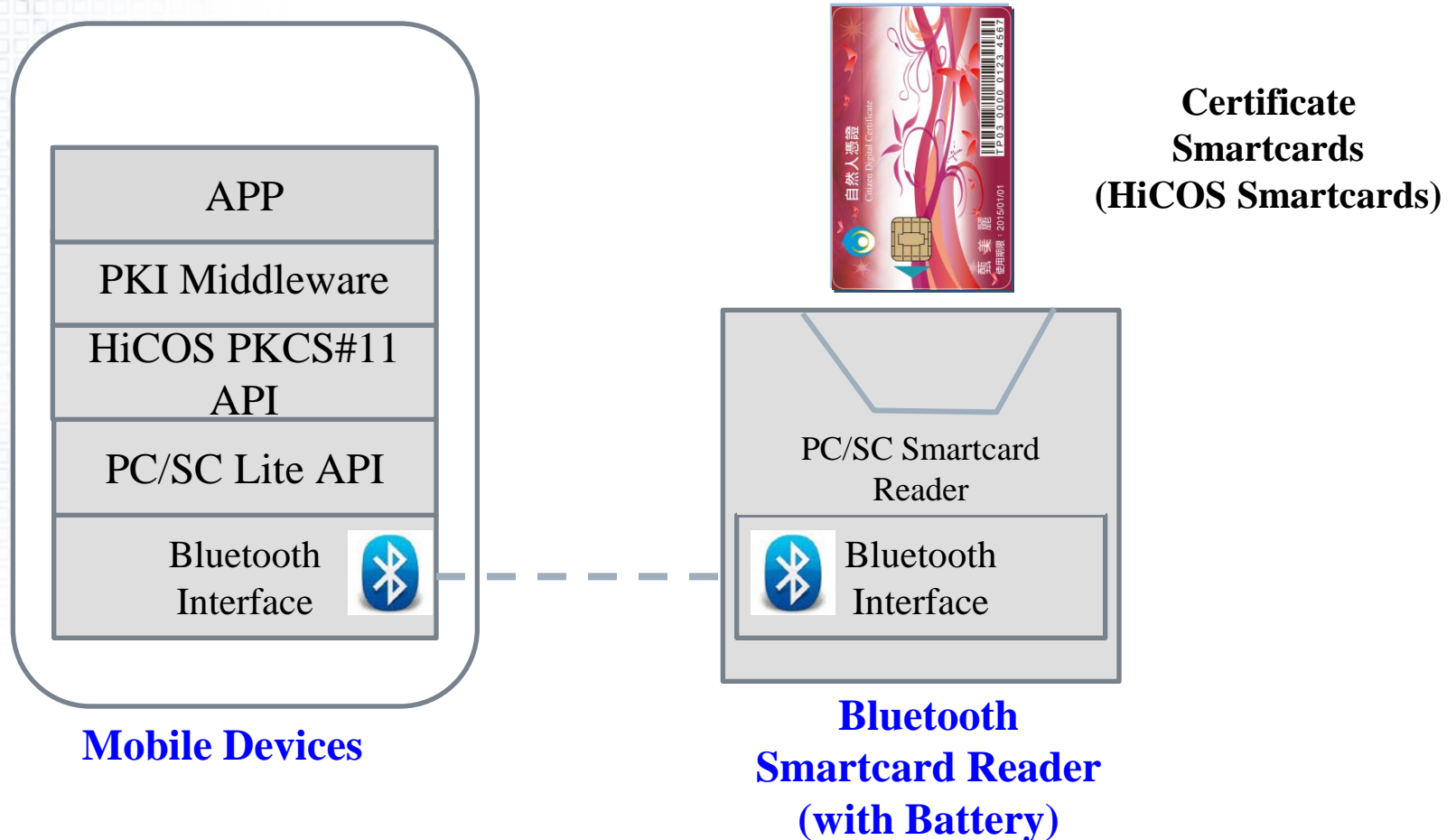


Software Token



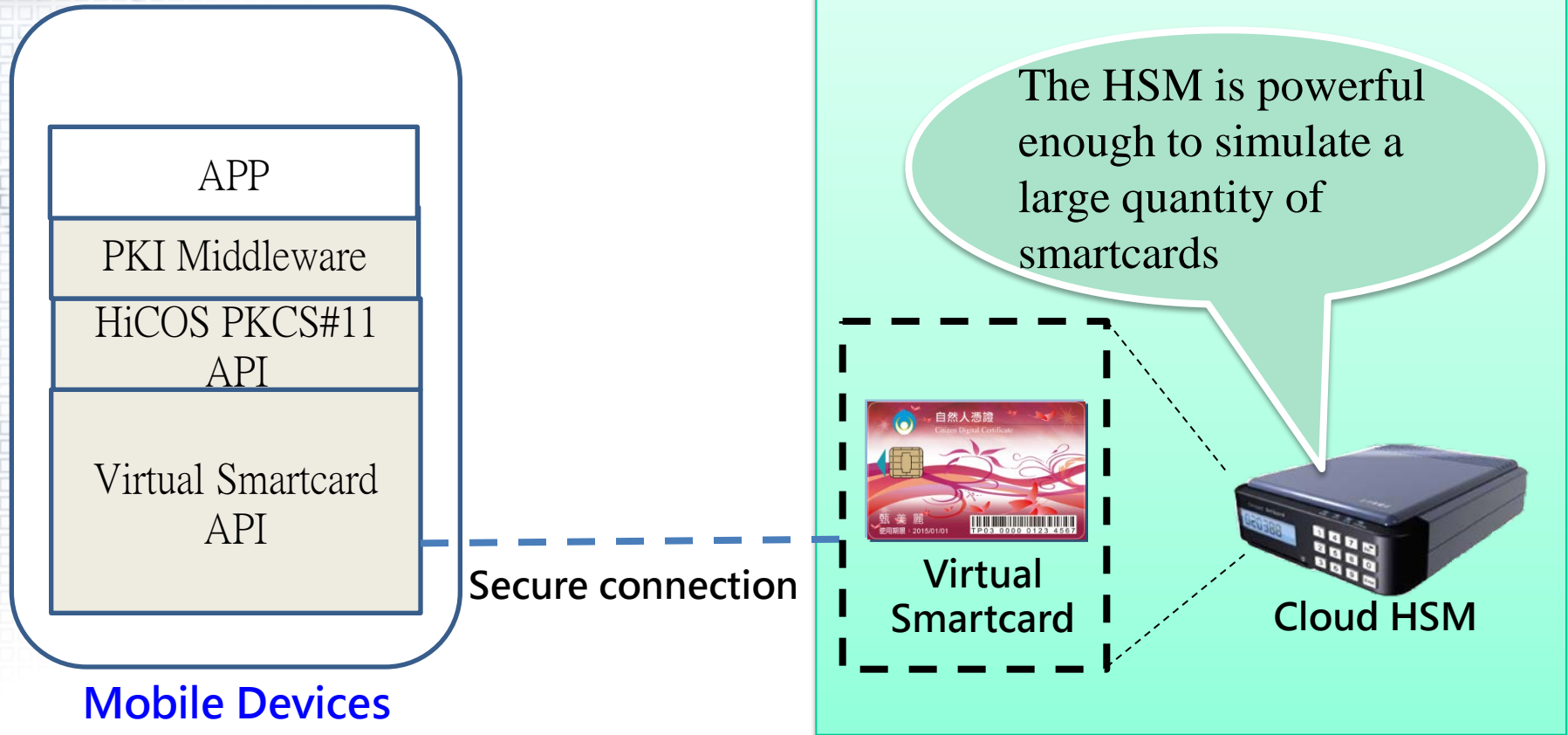


Bluetooth Smartcard Reader



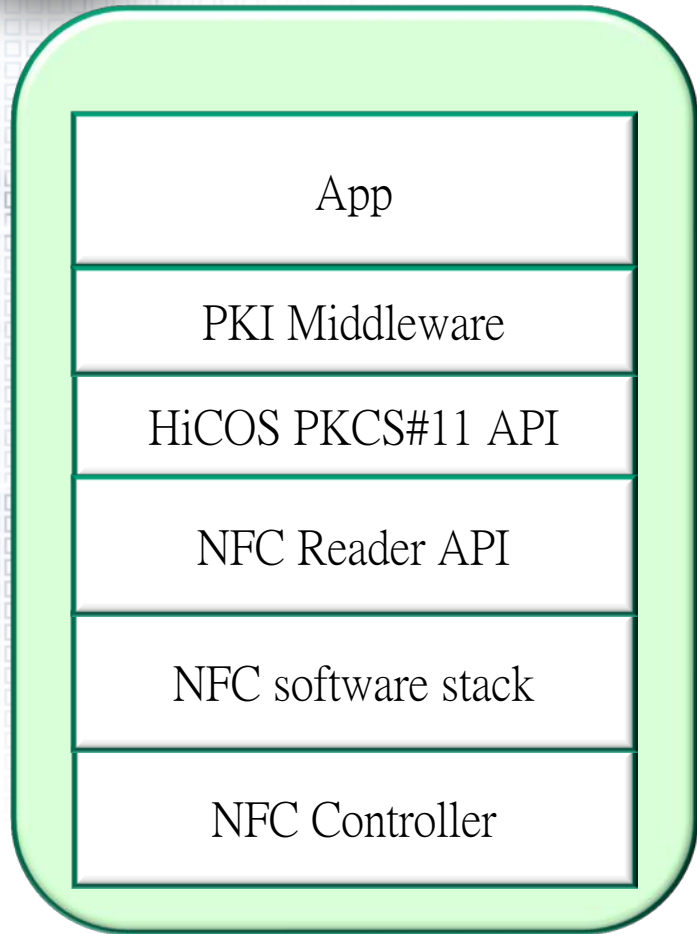


Virtual Smartcard Reader





Combi Smartcard Reader

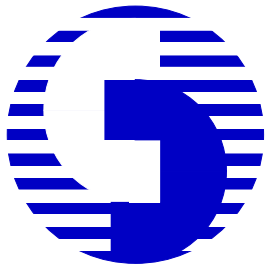


Noe: currently, apple still not allow other vendors to use the NFC interface of iPhone 6, maybe in the future generation.



Combi Smartcard





中華電信股份有限公司
Chunghwa Telecom Co., Ltd.

Thank You

