Century Longmai mCard CPK in eHealth

Century Longmai Technology Co., Ltd.

mCard CPK card in eHealth for secure & trustworthy HIS

Background

Today, many countries have mandated the use of electronic medical records (EMR) to make personal health data easily available to medical staff and improve convenience. With this rapid development of Information and technology, HIS (Hospital Information System) is becoming one important branch of new medical informatics. Adopting new technology applications using computers, internet, and other communication devices - to collect, store, process, extract and exchange medical information within the Hospital authentication system are is widely applied in many hospitals worldwide.

eHealth Care Facts

Healthcare is an industry that deals with extremely personal information. Meanwhile as doctors work to provide better care, IT security professionals working in the healthcare industry need to prescribe the right solution to ensure that health records are healthy, secure and can only accessed by those whose identity can be verified through two or more factors of authentication.

The World Health Organization (WHO) forecasts the ageing of the world's population - in developing and developed countries to reach 2 billion by 2050. We innovate along your business to help you prepare to securely identifying patients and physicians while delivering technological advances in HealthCare for the young and ageing populations. The quicker you take action, the better chance for a significant social and economic return for the whole community.

Requirement analysis

We all know that the importance of digital security becomes even more extreme when storing or accessing patients' records. The medical information of patients is highly private, and hospital or medical institutions are responsible for all relative private information. With connected portable devices becoming common globally, the need to lock down access to portable devices using strong authentication is no longer an extra security measure – it is mandatory! However, the existing challenge is that data in modern healthcare (eHealthcare) is typically not well-protected giving

cyber-thieves access to sensitive information.

Identifying and authenticating individual users

Establishing a person's identity is crucial as a foundation for any security system. Users of a given computing system are granted privileges to read, write, and update records. In a health system, authorized staff can issue requests, referrals, and orders for services, thereby committing funds and initiating processes that can profoundly affect the lives of their patients. Some systems may restrict certain transactions and functions to certain classes of users. It is here that the special properties of our mCard CPK card are invaluable, since the card can directly check that the PIN is correct. Of course, it would still be possible for people to deliberately breach their own security by giving their card and PIN to someone else, but it is otherwise extremely difficult for a third party to breach a security system based on smart cards.
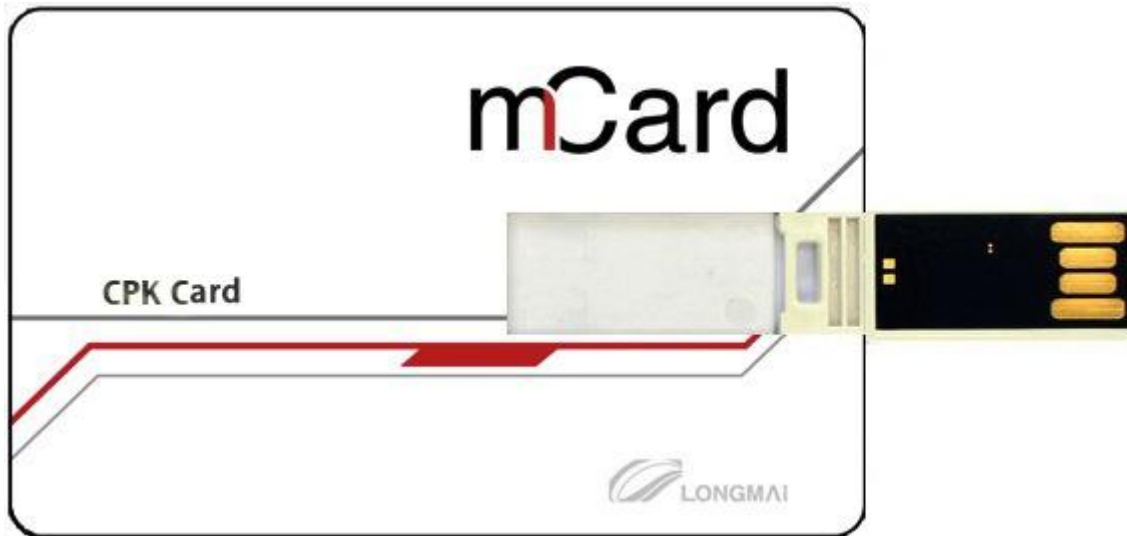
Longmai mCard CPK Solution

Utilizing the flappable smart card-chip based USB token, the mCard CPK can also carry data, such as personal details enabling for convenience to end-users.

How can we make sure of no information leakage in HIS?

As more physicians and hospitals adopt electronic health records and use of the Health Information management System (HIS), Century Longmai delivers mCard CPK - a strong authentication as a way of providing high assurance of identity in access control. It combines two-factor authentication PKI technology with MIFARE card functions. Its design follows the concept of "All in One Card solves all your problems".

Design objectives and Benefits

mCard CPK solution combines two-factor authentication (2FA) PKI token functions with MIFARE card functions, and this make it one powerful function portable product. With just one contactless, IT departments can lock down to sensitive areas with an easy to deploy, compatible and cost- effective & strong authentication solution while meeting   all (but not limited) these requirements:

- Keeping security of all important medical data
- Simplifying the working environment of hospitals
- Wide Range of other access control application
- Applicable in all hospitals worldwide

Solution Benefits

- ✓ Ensuring confidentiality of stored data (medical records)
- ✓ Identifying and authenticating individual users
- ✓ Securing data and communications
- ✓ Storage space for personal data
- ✓ Security, confidentiality, and validity of medical data
- ✓ System Security and Data Integrity
- ✓ The rapid increase in medical information requires new methods of accessing and organizing data

✓ The technologies of the world wide web are increasingly being used to manage information within organizations

✓ Web sites can be rapidly set up to display text, images, and even video clips

✓ Diagnosis programs linked to web sites can be effectively integrated into clinical settings

✓ Web technologies provide open standards for developing comprehensive medical information systems

GET STARTED

Solutions dedicated to your market…

To learn more on how the unique features of mCard CPK offers strong security, differential access to data and definitive auditing in eHealth, please request for access for Technical Paper or contact our sales directly.

Learn more about how to integrate our secure and robust access control and smart card chip based solution in your industry. For more information about mCard CPK card, visit http://lm-infosec.com/products/mcard/

Conclusion

Century Longmai views contactless and smartcard-based authentication as a key component of PKI deployment. Smart cards based products enhance software-only solutions and are a point of convergence for public key certificates and associated keys. We believe there is no reason why any card should be limited to just one function, with mCard CPK people's identities to be authenticated and communications be secured thus delivering strong security, differential access to data, and definitive audit trails especially in healthcare communications. We see mCard CPK card already playing a pivotal part in contactless and authentication development market in China particularly in healthcare and connected campus institutions.

About Century Longmai

Established in 2003, Century Longmai Technology Co., Ltd is one of the most leading information security device vendors in China with over 12 years experience developing latest generation of digital security solutions and products for secure information access and transmission. Our product portfolios include PKI dongles, wireless PKI tokens, OTP tokens, smart card, smart card readers, electronic document protection solution, software license dongles, Smartcard readers and OEM services. Proved to be secure and convenient, our solutions and products are dedicated to help customers build safe, efficient and sustainable networks, financial systems and enjoy secure access to data and information everywhere whenever they want.

Century Longmai Technology Co., Ltd

3/F, GongKong Building, WangZhuang Road No.1, Haidian District, Beijing, P.R China

Postcode: 100083

Telephone: (86) 10-62323636   Fax: (86) 10-62313636

Global Sales email Address: info@longmai.net

Global Support email Address: support@longmai.net

Website: http://lm-infosec.com

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