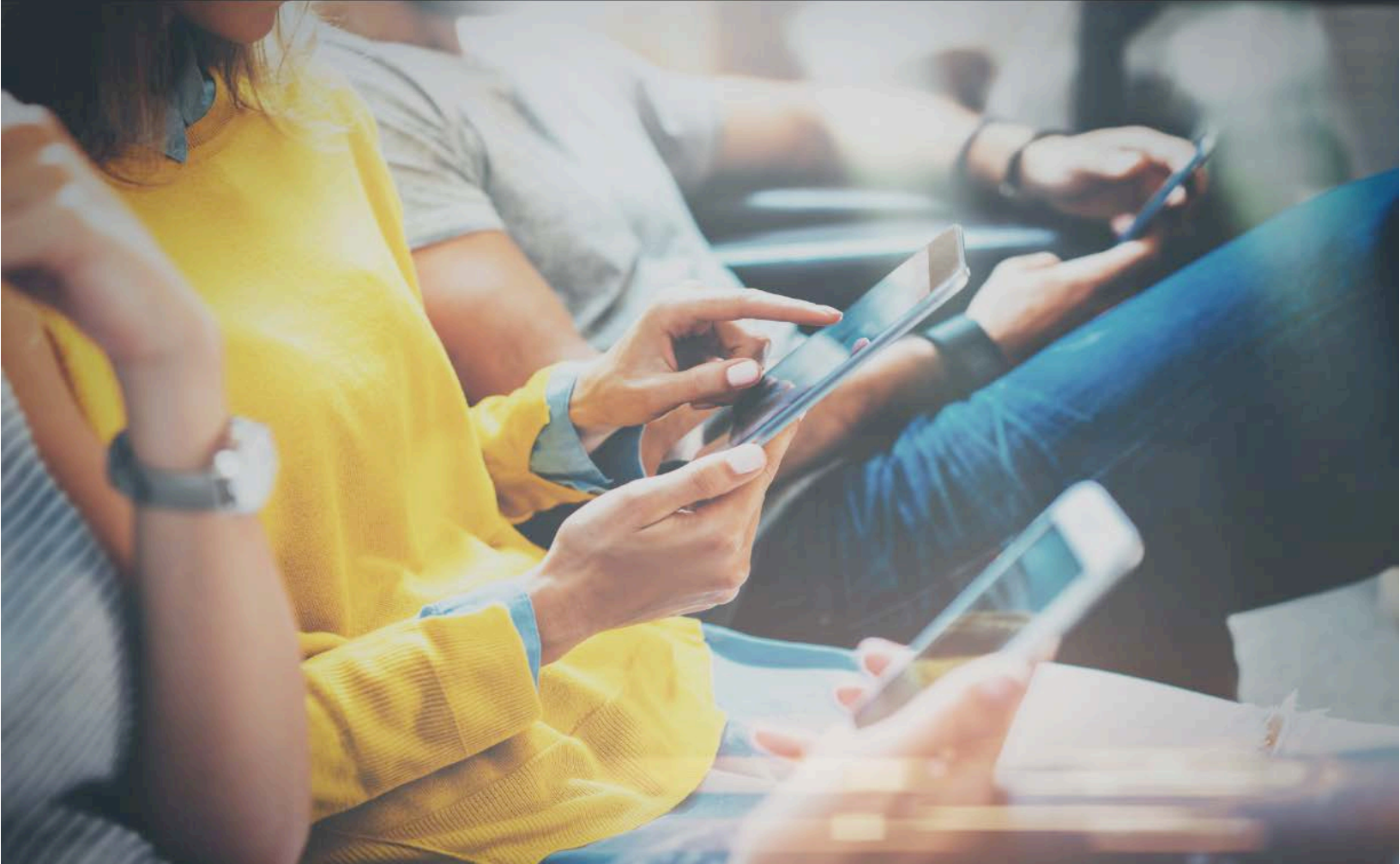# 5 SUREFIRE WAYS

You Can Successfully Deploy a Campus Mobile Access Solution

Many universities are discovering how mobile access is the future of campus buildings, networks, and other identity management requirements. Yet with disparate systems installed, how do you leverage mobile technology to meet the needs of the entire campus? It would be optimal to integrate building access, food services, network access and other campus services. And migrating to mobile access would be the perfect time to consolidate these disparate technologies, like mag stripe, proximity, and smartcards, all of which can operate within a mobile APP.

Fortunately, our Safetrust engineers are pushing the envelope by designing new mobile technology that can work seamlessly with existing building access systems, eliminating the exorbitant costs of a complete "tear and replacement" of readers. A BYOD (bring your own device) reduces the management time and cost associated with issuing plastic credentials. This is an opportunity for universities to design a new mobile infrastructure to address the changing requirements of students, while keeping their existing infrastructure in place and staying within budget.

1. NFC vs. Bluetooth Access

Which technology is better for building access...... NFC or BLE? Actually, both have advantages and disadvantages within a building access environment.

NFC technology is perfect for short-range communication or use within a few inches of a reader. It was designed primarily for payment transactions. Whereas BLE was designed for longer-range communication requirements for up to 50 feet with an on-board antenna (adjustable). For campus access, that longer read range is typically desirable to address parking garages, overhead doors and turnstiles. Users in wheelchairs or walking with disability may need that extra range to maneuver through doors.

Safetrust combines both NFC and BLE to get the best-of-both-worlds.

For any new program, including mobile access, you will want to attain the highest participation possible from staff and students. Yet 54% of mobile phones in North America are Android and 44% are iPhone. From a compatibility standpoint, BLE is supported by Android and iPhone, but NFC is not compatible with phones before iPhone 7. So iPhone 6 users are out of luck. The big question is how to support both Android and iPhone users within the same mobile APP?

Safetrust is one of the few mobile solution companies that supports both NFC and BLE, providing the best-of-both-worlds solution. This technology-neutral approach will deliver a superior user experience and compatibility for all phone models.

2. Frictionless Access

The term 'frictionless access' or hands-free operation means access without having to hold your phone and present it to a reader. Leave your phone by your side or in your pocket and the door will unlock within 1-2 feet away. We have found that most users prefer hands-free access because their hands are usually full and they don't want to fumble for their phone to present it.

Safetrust's technology-neutral approach will communicate to the reader via BLE to achieve a hands-free operation; and users that like to tap the reader with their phone will communicate via NFC. The best-of-both-worlds solution.

3. A Single Mobile Identity

How do you keep each user identifiable across disparate systems?

Many mobile solutions focus only on building access without addressing the complete campus infrastructure. This problem causes users to move between mobile and plastic card access for other services like network access, cafeteria, laundry services, library, parking, and check out. One service may be based on MIFARE, another proximity, while another magnetic stripe or barcode. Why not consolidate all disparate card services within one mobile APP?

Building Access: Whether you are using 26 bits, 34 bits, 35 bits..... or anything between 26 - 48 bits, MIFARE, etc..... we can translate them into mobile credentials.   Select the ID numbers of your preference .... either the plastic card ID or a number range within that format.

Network Access: For network access, whether you are using a password, token, or ID card, it can be translated into a mobile credential and stored in your mobile wallet. Safetrust can support keyboard emulation (same ID) or smartcard emulation (certificates) that authenticates with active directory.

Cafeteria: Whether you use mag stripe or proximity, it is easy to duplicate the existing data format and transmit the transaction to a BLE dongle. Now the legacy ID cards and mobile credentials can be presented to the same POS terminal.

Safetrust offers a single mobile APP with multiple mobile credentials that can support proximity, MIFARE, DESFire EV2, certificates, and many more technologies.   With the Safetrust mobile technology you can design the system of your choice base on the technology infrastructure in place today.

4. Simple Migration / Manageable Costs

The most important part of any project is to keep it simple and within budget. A good starting point is to identify the scope of the deployment. Is mobile access going to be deployed on buildings doors; will it be added to dormitory locks; will it incorporate network access; will it include parking and cafeteria purchases? Finally, what card technologies is it supplementing or replacing .... mag stripe, proximity, or smartcards?

Door Readers

Many mobile solutions require a complete replacement of every reader, which can be very costly and is bound to cause problems during the deployment. Many times it is easier and less costly to upgrade the existing reader to support mobile. This enables the existing card technology to be used and while adding mobile as a second supported technology.

The Safetrust mobile solution upgrades existing readers to mobile communication keeping expenses per door lower.

Card / Mobile ID Formats

While card formats can be confusing, they help identify each user within an access system. Keeping that format or ID number facilitates the migration to mobile and eliminates the need to make major updates to the database and supporting hardware. We have found that many facilities prefer to keep the same ID number for both mobile and plastic ID users, which can eliminate identity management problems. If a card or phone are lost, the ID number may be immediately canceled to eliminate fraudulent use.

Personalization

When a mobile credential supplements or replaces a plastic ID card, it is always helpful to duplicate the same image, as it facilitates visual user identification. The Safetrust mobile APP can carry an exact duplicate of their plastic card ID.
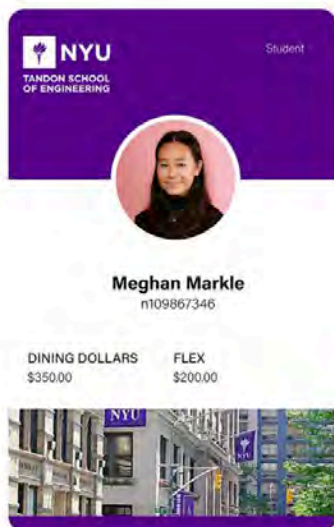
5. Security & Privacy

With network breaches all too common, universities are concerned with any new systems attaching to heir network. How is the user data protected? ..... can it be compromised? ..... how do you protect the privacy of our users?

Security
All personal user and other sensitive information collected should be encrypted using external HSM (hardware secure module) based crypto techniques and stored as an encrypted blob within the server database. As a general rule PEN (penetration) testing by a 3rd party can vet out any security vulnerabilities. Safetrust regularly tests both the APP and the Credential Manager, and will provide the results under NDA.

Privacy
With many global privacy policy directives either released or in draft, any personal user data collected must be in compliance. Safetrust is in compliance with General Data Protection Regulation (GDPR) (EU) 2016/679 and will review new policies as they are released.

RFID Proximity Credential Life Cycle
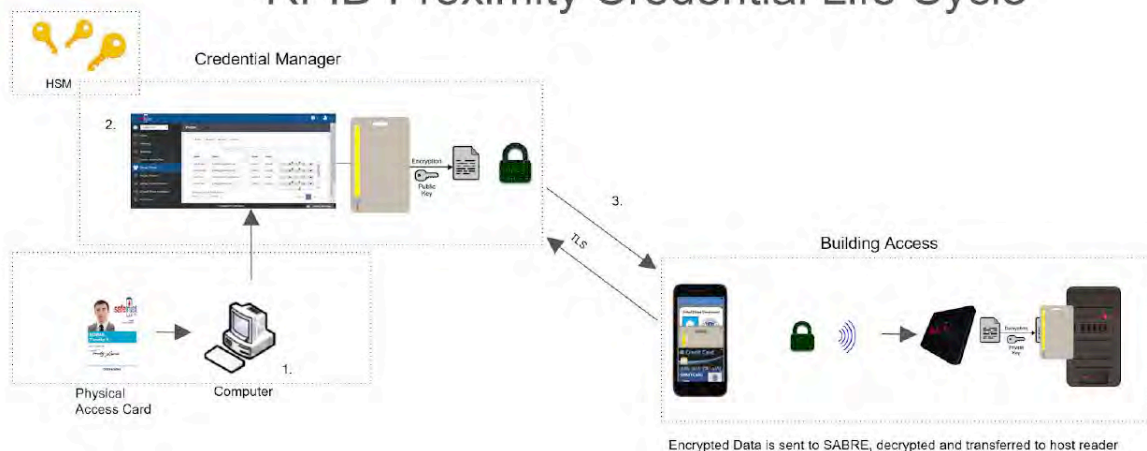
Why Does This Matter?

To successfully help our clients get the most from their mobile access investment, you need to understand the technologies involved, design the best solution for your campus environment, and correctly deploy a seamless transition from plastic ID cards to mobile credentials.

ABOUT **ISG**

ISG Members are an elite group of established professionals that understand the ever-changing markets that our clients represent and the products and solutions they need. With an established presence throughout the US and Canada, certified ISG Members are identification industry veterans that can work with you on any identification or identity management systems project large or small, local or nationwide. They also collaborate to provide consistent and cohesive services and technical support for clients with locations across state or country borders. www.identificationsystemsgroup.com

ABOUT Higgins Corporation

Since 1960, Higgins Corporation has specialized in Secure Identity, Photo Identification, and Situation Management technologies, offering the industry's top brands and products. Higgins is a proud member of the Identification Systems Group (ISG). With a combined 120 years experience within our support services group and the only photo identity company in the area with a local on-site presence, Higgins is proud to be New England's leading on-site service provider. Let us guide you in finding the right solution. Call 800.486.1312 today. www.higgins3.com

ABOUT **Safetrust**

Safetrust brings mobility to the modern enterprise as a global pioneer in physical and logical identity solutions. With the simple tap of a smartphone, Safetrust enables people all over the world to identify themselves electronically, gain access to online and physical resources, and protect their privacy by leveraging industry standards and protocols. With over 35 billion credentials in active circulation today and more than 2.2 billion smart-phones, the consolidation of these credentials significantly reduces the cost of delivery, improves the security of the credential, merges online and physical identification and provides a win-win solution for the constant battle between security and convenience. www.safetrust.com