



Access Control Trends that Matter

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Agenda

1. UWB, ALIRO, CSA – Do these Matter?
2. Making the Move from Magstripe and Prox technology to NFC Mobile Credentials.



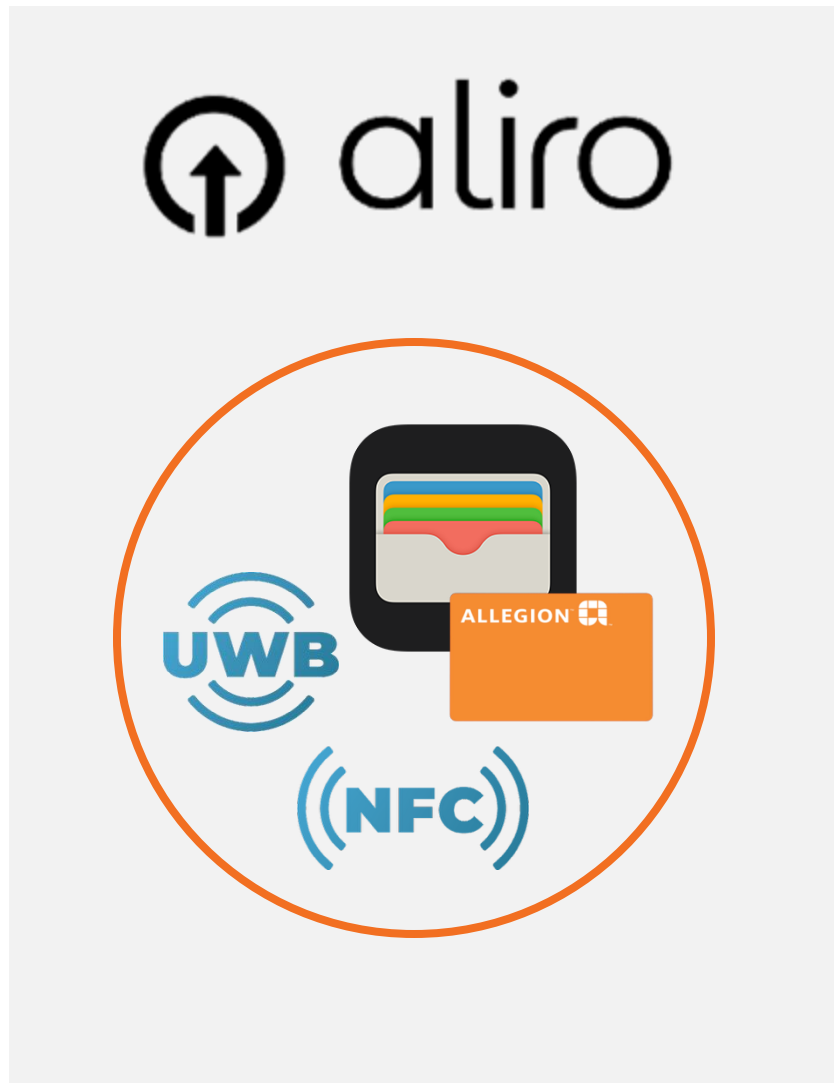
Ultra Wide Band (UWB)

UWB
(ultra-wideband)



- ⇒ Products hitting the smart-home market now with commercial products expected later this year
- ⇒ UWB is a radio technology with high-bandwidth that is extremely power efficient – 100x less power than other wireless technologies
- ⇒ Accurate positioning & locating within centimeters – Bluetooth is within meters
- ⇒ Allows for seamless access control without requiring user to take phone out or do anything other than approach door they want unlocked!

Aliro



- ⇒ Currently in Development – Expected to hit market with quick adoption in 2026
- ⇒ In the first phase, Aliro will enable interoperability and compatibility between end-user devices such as phones and wearables, and the access control devices, such as electronic locks and readers
- ⇒ Aliro will bring a simpler, more accurate hands-free unlocking experience to smart locks with ultra wideband

Connectivity Standards Alliance



- **The Alliance is the Foundation and Future of the IoT**
 - “We ignite creativity and collaboration in the IoT, by developing, evolving, and promoting universal open standards that enable all objects to securely connect and interact”
- **Over 600 companies actively involved with the CSA**
 - Companies including Apple, Allegion, Assa Abloy, Amazon, Google, LG, NXP and Samsung
- **Technology Specifications developed by the CSA**
 - Some examples are Aliro, Matter and Zigbee

Migrating from Magstripe and Prox to Mobile!

1. Determine your Why

- ☐ Magstripe's security vulnerabilities – cloning, skimming and fraud
- ☐ Lack of flexibility – inability to handle multiple applications
- ☐ Maintenance costs – both cards and readers
- ☐ User experience
- ☐ Student demand and campus reputation for innovation

2. Determine current campus readiness

- ☐ Includes reader inventory
- ☐ Applications currently using magstripe cards and departments who would like to moving forward with mobile – access to student housing, classrooms, labs, fitness center, on campus dining, laundry, printer services, vending machines, parking, library rentals, etc.
- ☐ Verify Apple Pay, Google Pay and Samsung Pay requirements

Migrating from Magstripe and Prox to Mobile!

3. Develop budget and timeline expectations

- ☐ Reader upgrades
- ☐ E-lock upgrades
- ☐ Software upgrades – including One Card Provider and Access Provider
- ☐ Evaluate staff readiness – training, skillsets, etc.
- ☐ Stakeholder outreach and educating and obtaining support from upper administration

4. Communication, Communication, Communication!

- ☐ Very important to keep all stakeholders aware of changes and disruptions, progress and expected timelines
- ☐ Create marketing plans for outreach to students, faculty, admin, etc.

Migrating from Magstripe and Prox to Mobile!

5. Partnership with technology vendors and respected organizations

- ☐ Work closely with companies such as Allegion who can help you navigate through the important steps in this journey
- ☐ Become a member of organizations such as the National Association of Campus Card Users (NACCU)
 - Both can be a wealth of information, guidance and support



6. Research available technologies that work best for your specific campus

- ☐ This may include installation of multi-technology readers
For example: combination magstripe and smartcard readers that can also read NFC mobile credentials, allowing you to migrate in a more seamless and less abrupt transition



Thank you!

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